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Deprecated List

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Functionality replaced by the On Demand web service polling method, but left as an example alternate On Demand method.

Class [gov.niarl.his.privacyca.HisSetup](#)

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Chapter 5

Namespace Documentation

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Packages

- package [intel](#)

5.2 Package com.intel

Packages

- package [openAttestation](#)

5.3 Package com.intel.openAttestation

Packages

- package [AttestationService](#)
- package [manifest](#)

5.4 Package com.intel.openAttestation.AttestationService

Packages

- package [bean](#)
- package [hibernate](#)
- package [resource](#)
- package [util](#)

5.5 Package com.intel.openAttestation.AttestationService.bean

Classes

- class [AttestationResponseFault](#)
- class [Host](#)

- class [HostBean](#)
- class [OpenAttestationResponseFault](#)
- class [PCRValue](#)
- class [ReqAttestationBean](#)
- class [RequestBean](#)
- class [RespDetails](#)
- class [RespSyncBean](#)

5.6 Package `com.intel.openAttestation.AttestationService.hibernate`

Packages

- package [dao](#)
- package [domain](#)
- package [util](#)

5.7 Package `com.intel.openAttestation.AttestationService.hibernate.dao`

Classes

- class [AnalysisTypesDao](#)
- class [AttestDao](#)
- class [HOSTDAO](#)
- class [MLEDAO](#)

5.8 Package `com.intel.openAttestation.AttestationService.hibernate.domain`

Classes

- class [AnalysisTypes](#)
- class [HOST](#)

5.9 Package `com.intel.openAttestation.AttestationService.hibernate.util`

Classes

- class [HibernateUtilHis](#)
- class [OATException](#)

5.10 Package `com.intel.openAttestation.AttestationService.resource`

Classes

- class [AttestService](#)
- class [CheckAttestThread](#)
- class [HOSTResource](#)
- class [JAXBContextResolver](#)

5.11 Package com.intel.openAttestation.AttestationService.util

Classes

- class [ActionConverter](#)
- class [ActionDelay](#)
- class [AttestUtil](#)
- class [CommonUtil](#)
- class [ResultConverter](#)

5.12 Package com.intel.openAttestation.manifest

Packages

- package [bean](#)
- package [hibernate](#)
- package [resource](#)

5.13 Package com.intel.openAttestation.manifest.bean

Classes

- class [AnalysisTypesBean](#)
- class [MLE_Manifest](#)
- class [MLEBean](#)
- class [OpenAttestationResponseFault](#)
- class [PcrWhiteListBean](#)

5.14 Package com.intel.openAttestation.manifest.hibernate

Packages

- package [dao](#)
- package [domain](#)
- package [util](#)

5.15 Package com.intel.openAttestation.manifest.hibernate.dao

Classes

- class [AnalysisTypesDao](#)
- class [MLEDAO](#)
- class [OEMDAO](#)
- class [OSDAO](#)
- class [PcrWhiteListDAO](#)

5.16 Package com.intel.openAttestation.manifest.hibernate.domain

Classes

- class [AnalysisTypes](#)
- class [AttestRequest](#)
- class [HOST](#)
- class [MLE](#)
- class [OEM](#)
- class [OS](#)
- class [PcrWhiteList](#)

5.17 Package com.intel.openAttestation.manifest.hibernate.util

Classes

- class [HibernateUtilHis](#)
- class [OATException](#)

5.18 Package com.intel.openAttestation.manifest.resource

Classes

- class [AnalysisTypesResource](#)
- class [MLEResource](#)
- class [OEMResource](#)
- class [OSResource](#)
- class [PcrWhiteListResource](#)

5.19 Package gov

Packages

- package [niarl](#)

5.20 Package gov.niarl

Packages

- package [his](#)
- package [hisAppraiser](#)
- package [sal](#)

5.21 Package gov.niarl.his

Packages

- package [privacyca](#)
- package [webservices](#)

Classes

- class [HisListener](#)
- class [HisSplash](#)
- class [StandaloneHIS](#)

5.22 Package gov.niarl.his.privacyca

Classes

- class [HisSetup](#)
- class [idResponse](#)
- class [PrivacyCaException](#)
- class [TpmAsymCaContents](#)
- class [TpmIdentityProof](#)
- class [TpmIdentityRequest](#)
- class [TpmKeyParams](#)
- interface [TpmKeySubParams](#)
- class [TpmPubKey](#)
- class [TpmRsaKeyParams](#)
- class [TpmSymCaAttestation](#)
- class [TpmSymmetricKey](#)
- class [TpmSymmetricKeyParams](#)
- class [TpmUtils](#)
- class [HisIdentityProvisioner](#)
- class [HisRegisterIdentity](#)
- class [HisTpmProvisioner](#)
- class [IdentityOS](#)
- class [LPSliveCdPrep](#)
- class [RegisterPrivacyCa](#)
- class [TpmClient](#)
- class [TpmIdentity](#)
- class [TpmIntegrityReport](#)
- class [TpmKey](#)
- class [TpmModule](#)

5.22.1 Detailed Description

This package contains all base classes that are used by the HIS Privacy CA and Client Provisioner.

5.23 Package gov.niarl.his.webservices

Packages

- package [hisPrivacyCAWebService2](#)
- package [hisPrivacyCAWebServices2](#)

5.24 Package gov.niarl.his.webservices.hisPrivacyCAWebService2

Packages

- package [client](#)
- package [server](#)

Classes

- interface [IHisPrivacyCAWebService2](#)

5.24.1 Detailed Description

This package contains the interface and function definitions for version 2 of the HIS Privacy CA.

5.25 Package gov.niarl.his.webservices.hisPrivacyCAWebService2.client

Classes

- class [HisPrivacyCAWebServices2ClientInvoker](#)

5.25.1 Detailed Description

This package contains the client code for connecting to the version 2 HIS Privacy CA.

5.26 Package gov.niarl.his.webservices.hisPrivacyCAWebService2.server

Classes

- class [ByteArray](#)
- class [HisPrivacyCAWebService2](#)
- class [HisPrivacyCAWebService2FactoryService](#)
- class [HisPrivacyCAWebService2Impl](#)
- class [HisPrivacyCAWebServices2LoadOnStartup](#)

5.26.1 Detailed Description

This package contains the server code for version 2 of the HIS Privacy CA.

5.27 Package gov.niarl.his.webservices.hisPrivacyCAWebServices2

Packages

- package [clientWsImport](#)

5.28 Package gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport

Classes

- class [ByteArray](#)
- class [GetHisPrivacyCAWebService2](#)
- class [GetHisPrivacyCAWebService2Response](#)
- interface [HisPrivacyCAWebService2](#)
- interface [HisPrivacyCAWebService2FactoryService](#)
- class [HisPrivacyCAWebService2FactoryServiceService](#)
- class [HisPrivacyCAWebService2Service](#)
- class [IdentityRequestGetChallenge](#)
- class [IdentityRequestGetChallengeResponse](#)
- class [IdentityRequestSubmitResponse](#)
- class [IdentityRequestSubmitResponseResponse](#)
- class [ObjectFactory](#)
- class [RequestGetEC](#)
- class [RequestGetECResponse](#)

5.29 Package gov.niarl.hisAppraiser

Packages

- package [hibernate](#)
- package [integrityReport](#)
- package [loginModule](#)
- package [util](#)

Classes

- class [Constants](#)

5.30 Package gov.niarl.hisAppraiser.hibernate

Packages

- package [dao](#)
- package [domain](#)
- package [util](#)

5.31 Package gov.niarl.hisAppraiser.hibernate.dao

Classes

- class [AnalysisTypesDao](#)
- class [AttestDao](#)
- class [HisAuditDao](#)
- class [HisMachineCertDao](#)
- class [HisSystemConstants](#)
- class [IMAMeasuresDao](#)
- class [MeasureDao](#)

5.31.1 Detailed Description

This package holds data access objects which mainly include hibernate and SQL queries to return data from the database.

Version

Crossbow

5.32 Package gov.niarl.hisAppraiser.hibernate.domain

Classes

- class [Alerts](#)
- class [AnalysisTypes](#)
- class [AttestRequest](#)
- class [AuditLog](#)
- class [ComponentManifest](#)
- class [HOST](#)
- class [HOST_MLE](#)
- class [IMAMeasures](#)
- class [MachineCert](#)
- class [MeasureLog](#)
- class [MLE](#)
- class [Module](#)
- class [OEM](#)
- class [OS](#)
- class [PCRManifest](#)
- class [PcrWhiteList](#)
- class [SystemConstants](#)
- class [TxtLog](#)

5.32.1 Detailed Description

This package holds domain objects for hibernate

Version

Crossbow

5.33 Package gov.niarl.hisAppraiser.hibernate.util

Classes

- class [AttestService](#)
- class [AttestUtil](#)
- class [HibernateUtilHis](#)
- class [OATException](#)
- class [ResultConverter](#)

5.33.1 Detailed Description

This package holds code created by the makers of hibernate for general purpose functionality.

Version

Crossbow

5.34 Package gov.niarl.hisAppraiser.integrityReport

Classes

- class [HisReportData](#)
- class [HisReportException](#)
- class [HisReportUtil](#)
- class [HisReportValidator](#)

5.34.1 Detailed Description

This package holds code to parse, validate and other functionality for integrity reports.

Version

Crossbow

5.35 Package gov.niarl.hisAppraiser.loginModule

5.35.1 Detailed Description

This package holds code related to the HIS login module.

Version

Crossbow

5.36 Package gov.niarl.hisAppraiser.util

Classes

- class [AlertConfiguration](#)
- class [Emailer](#)
- class [HisUtil](#)

5.36.1 Detailed Description

This package holds general utilities used throughout the HIS project.

Version

Crossbow

5.37 Package gov.niarl.sal

Packages

- package [webservices](#)

5.38 Package gov.niarl.sal.webservices

Packages

- package [hisWebService](#)
- package [hisWebServices](#)

5.39 Package gov.niarl.sal.webservices.hisWebService

Packages

- package [client](#)
- package [server](#)

5.40 Package gov.niarl.sal.webservices.hisWebService.client

Classes

- class [HisWebServicesClientInvoker](#)

5.40.1 Detailed Description

This package holds client utilities for web services.

Version

Crossbow

5.41 Package gov.niarl.sal.webservices.hisWebService.server

Packages

- package [domain](#)

Classes

- class [HisEnrollmentWebService](#)
- class [HisPollingWebService](#)
- class [HisWebService](#)
- class [HisWebServiceFactoryService](#)
- class [HisWebServicesLoadOnStartup](#)

5.41.1 Detailed Description

This package holds definitions of the JAX-WS web services used for HIS.

Version

Crossbow

5.42 Package gov.niarl.sal.webservices.hisWebService.server.domain

Classes

- class [ActionConverter](#)
- class [ActionDelay](#)
- class [NonceSelect](#)

5.42.1 Detailed Description

This package holds beans used in parameters and returns for web services.

Version

Crossbow

5.43 Package gov.niarl.sal.webservices.hisWebServices

Packages

- package [clientWsImport](#)

5.44 Package gov.niarl.sal.webservices.hisWebServices.clientWsImport

Classes

- enum [Action](#)
- class [ActionDelay](#)
- class [EnrollHisMachine](#)
- class [EnrollHisMachineResponse](#)
- class [GetHisWebService](#)
- class [GetHisWebServiceResponse](#)
- class [GetNextAction](#)
- class [GetNextActionResponse](#)
- class [GetNonce](#)
- class [GetNonceResponse](#)
- interface [HisEnrollmentWebService](#)
- class [HisEnrollmentWebServiceService](#)
- interface [HisPollingWebService](#)
- class [HisPollingWebServiceService](#)
- interface [HisWebService](#)
- interface [HisWebServiceFactoryService](#)
- class [HisWebServiceFactoryServiceService](#)

- class [HisWebServiceService](#)
- class [NonceSelect](#)
- class [ObjectFactory](#)
- class [PostIntegrityReport](#)
- class [PostIntegrityReportResponse](#)
- enum [Quote](#)

Chapter 6

Class Documentation

6.1 gov.niarl.sal.webservices.hisWebServices.clientWsImport.Action Enum Reference

Public Member Functions

- String [value](#) ()

Static Public Member Functions

- static [Action fromValue](#) (String v)

Public Attributes

- [DO_NOTHING](#)
- [SEND_REPORT](#)
- [REBOOT](#)
- [VERIFY_CLIENT](#)
- [CLEAN_CLIENT](#)

6.1.1 Detailed Description

Java class for action.

The following schema fragment specifies the expected content contained within this class.

```
<simpleType name="action">
  <restriction base="{http://www.w3.org/2001/XMLSchema}string">
    <enumeration value="DO_NOTHING"/>
    <enumeration value="SEND_REPORT"/>
    <enumeration value="REBOOT"/>
    <enumeration value="VERIFY_CLIENT"/>
    <enumeration value="CLEAN_CLIENT"/>
    <enumeration value="REPORT_START"/>
  </restriction>
</simpleType>
```

6.1.2 Member Function Documentation

6.1.2.1 static Action gov.niarl.sal.webservices.hisWebServices.clientWsImport.Action.fromValue (String v) [static]

6.1.2.2 String gov.niarl.sal.webservices.hisWebServices.clientWsImport.Action.value ()

6.1.3 Member Data Documentation

6.1.3.1 gov.niarl.sal.webservices.hisWebServices.clientWsImport.Action.CLEAN_CLIENT

6.1.3.2 gov.niarl.sal.webservices.hisWebServices.clientWsImport.Action.DO_NOTHING

6.1.3.3 gov.niarl.sal.webservices.hisWebServices.clientWsImport.Action.REBOOT

6.1.3.4 gov.niarl.sal.webservices.hisWebServices.clientWsImport.Action.SEND_REPORT

6.1.3.5 gov.niarl.sal.webservices.hisWebServices.clientWsImport.Action.VERIFY_CLIENT

6.2 gov.niarl.sal.webservices.hisWebService.server.domain.ActionConverter Class Reference

Static Public Member Functions

- static Action [getActionFromInt](#) (int i)
- static int [getIntFromAction](#) (Action action)

Static Private Attributes

- static HashMap< Integer, Action > [integerActionHashMap](#)
- static HashMap< Action, Integer > [actionIntegerHashMap](#) = new HashMap<Action, Integer>()

6.2.1 Detailed Description

Utility class to help with Action enumeration serialization and de-serialization.

Author

syelama

Version

Crossbow

6.2.2 Member Function Documentation

6.2.2.1 **POL Mod** static Action gov.niarl.sal.webservices.hisWebService.server.domain.ActionConverter.getActionFromInt (int *i*) [static]

Converts a integer into an Action enumeration.

Modifications: If requested integer is not related to any action, the function returns the action REPORT_START, instead of DO_NOTHING. This is due to the scalability mechanism.

Parameters

<i>i</i>	Integer linked to an action.
----------	------------------------------

Returns

Action enumeration related to an integer.

6.2.2.2 `static int gov.niarl.sal.webservices.hisWebService.server.domain.ActionConverter.getIntFromAction (Action action)`
`[static]`

Converts an Action enumeration into the related integer.

Parameters

<i>action</i>	Enumeration value.
---------------	--------------------

Returns

Integer related to the enumeration.

6.2.3 Member Data Documentation

6.2.3.1 `HashMap<Action, Integer> gov.niarl.sal.webservices.hisWebService.server.domain.ActionConverter.actionInteger-`
`HashMap = new HashMap<Action, Integer>() [static],[private]`

6.2.3.2 `HashMap<Integer, Action> gov.niarl.sal.webservices.hisWebService.server.domain.ActionConverter.integerAction-`
`HashMap [static],[private]`

Initial value:

```
= new HashMap<Integer, Action>() {
    {
        put (0, Action.DO_NOTHING);
        put (1, Action.SEND_REPORT);
        put (2, Action.REBOOT);
        put (3, Action.VERIFY_CLIENT);
        put (4, Action.CLEAN_CLIENT);
        put (5, Action.REPORT_START);
    }
}
```

6.3 com.intel.openAttestation.AttestationService.util.ActionConverter Class Reference**Static Public Member Functions**

- static Action [getActionFromInt](#) (int i)
- static int [getIntFromAction](#) (Action action)

Static Private Attributes

- static HashMap< Integer, Action > [integerActionHashMap](#)
- static HashMap< Action, Integer > [actionIntegerHashMap](#) = new HashMap<Action, Integer>()

6.3.1 Detailed Description

Utility class to help with Action enumeration serialization and de-serialization.

Author

syelama

Version

Crossbow

6.3.2 Member Function Documentation**6.3.2.1 static Action com.intel.openAttestation.AttestationService.util.ActionConverter.getActionFromInt (int *i*) [static]**

Converts a integer into an Action enumeration.

Parameters

<i>i</i>	Integer linked to an action.
----------	------------------------------

Returns

Action enumeration related to an integer.

6.3.2.2 static int com.intel.openAttestation.AttestationService.util.ActionConverter.getIntFromAction (Action *action*) [static]

Converts an Action enumeration into the related integer.

Parameters

<i>action</i>	Enumeration value.
---------------	--------------------

Returns

Integer related to the enumeration.

6.3.3 Member Data Documentation**6.3.3.1 HashMap<Action, Integer> com.intel.openAttestation.AttestationService.util.ActionConverter.actionIntegerHashMap = new HashMap<Action, Integer>() [static], [private]****6.3.3.2 HashMap<Integer, Action> com.intel.openAttestation.AttestationService.util.ActionConverter.integerActionHashMap [static], [private]****Initial value:**

```
= new HashMap<Integer, Action>() {
    {
        put(0, Action.DO_NOTHING);
        put(1, Action.SEND_REPORT);
        put(2, Action.REBOOT);
        put(3, Action.VERIFY_CLIENT);
        put(4, Action.CLEAN_CLIENT);
    }
}
```

6.4 gov.niarl.sal.webservices.hisWebService.server.domain.ActionDelay Class Reference

Public Member Functions

- [ActionDelay](#) ()
- [ActionDelay](#) (Action action, long delayMilliseconds, String args)
- Action [getAction](#) ()
- void [setAction](#) (Action action)
- long [getDelayMilliseconds](#) ()
- void [setDelayMilliseconds](#) (long delayMilliseconds)
- String [getArgs](#) ()
- void [setArgs](#) (String args)

6.4.1 Detailed Description

[ActionDelay](#) is returned by the [HisPollingWebService](#) and contains information to be acted on by the clients.

Author

syelama

Version

Crossbow

6.4.2 Constructor & Destructor Documentation

6.4.2.1 gov.niarl.sal.webservices.hisWebService.server.domain.ActionDelay.ActionDelay ()

Default constructor with zero arguments.

6.4.2.2 gov.niarl.sal.webservices.hisWebService.server.domain.ActionDelay.ActionDelay (Action action, long delayMilliseconds, String args)

Creates an [ActionDelay](#) and sets all elements at once.

Parameters

<i>action</i>	An action from the action enumeration.
<i>delay- Milliseconds</i>	Milliseconds for the client to wait for doing another poll.
<i>args</i>	Arguments the client may need to complete an action.

6.4.3 Member Function Documentation

6.4.3.1 Action gov.niarl.sal.webservices.hisWebService.server.domain.ActionDelay.getAction ()

Returns

the action

6.4.3.2 String gov.niari.sal.webservices.hisWebService.server.domain.ActionDelay.getArgs ()

Returns

the args

6.4.3.3 long gov.niari.sal.webservices.hisWebService.server.domain.ActionDelay.getDelayMilliseconds ()

Returns

the delayMilliseconds

6.4.3.4 void gov.niari.sal.webservices.hisWebService.server.domain.ActionDelay.setAction (Action action)

Parameters

<i>action</i>	the action to set
---------------	-------------------

6.4.3.5 void gov.niari.sal.webservices.hisWebService.server.domain.ActionDelay.setArgs (String args)

Parameters

<i>args</i>	the args to set
-------------	-----------------

6.4.3.6 void gov.niari.sal.webservices.hisWebService.server.domain.ActionDelay.setDelayMilliseconds (long delayMilliseconds)

Parameters

<i>delay- Milliseconds</i>	the delayMilliseconds to set
--------------------------------	------------------------------

6.5 com.intel.openAttestation.AttestationService.util.ActionDelay Class Reference

Public Member Functions

- [ActionDelay](#) ()
- [ActionDelay](#) (Action action, long delayMilliseconds, String args)
- Action [getAction](#) ()
- void [setAction](#) (Action action)
- long [getDelayMilliseconds](#) ()
- void [setDelayMilliseconds](#) (long delayMilliseconds)
- String [getArgs](#) ()
- void [setArgs](#) (String args)

6.5.1 Detailed Description

[ActionDelay](#) is returned by the HisPollingWebService and contains information to be acted on by the clients.

6.5.2 Constructor & Destructor Documentation

6.5.2.1 com.intel.openAttestation.AttestationService.util.ActionDelay.ActionDelay ()

Default constructor with zero arguments.

6.5.2.2 com.intel.openAttestation.AttestationService.util.ActionDelay.ActionDelay (Action *action*, long *delayMilliseconds*, String *args*)

Creates an [ActionDelay](#) and sets all elements at once.

Parameters

<i>action</i>	An action from the action enumeration.
<i>delay- Milliseconds</i>	Milliseconds for the client to wait for doing another poll.
<i>args</i>	Arguments the client may need to complete an action.

6.5.3 Member Function Documentation

6.5.3.1 Action com.intel.openAttestation.AttestationService.util.ActionDelay.getAction ()

Returns

the action

6.5.3.2 String com.intel.openAttestation.AttestationService.util.ActionDelay.getArgs ()

Returns

the args

6.5.3.3 long com.intel.openAttestation.AttestationService.util.ActionDelay.getDelayMilliseconds ()

Returns

the delayMilliseconds

6.5.3.4 void com.intel.openAttestation.AttestationService.util.ActionDelay.setAction (Action *action*)

Parameters

<i>action</i>	the action to set
---------------	-------------------

6.5.3.5 void com.intel.openAttestation.AttestationService.util.ActionDelay.setArgs (String *args*)

Parameters

<i>args</i>	the args to set
-------------	-----------------

6.5.3.6 void com.intel.openAttestation.AttestationService.util.ActionDelay.setDelayMilliseconds (long *delayMilliseconds*)

Parameters

<i>delay-Milliseconds</i>	the delayMilliseconds to set
---------------------------	------------------------------

6.6 gov.niarl.sal.webservices.hisWebServices.clientWsImport.ActionDelay Class Reference

Public Member Functions

- [Action](#) [getAction](#) ()
- void [setAction](#) ([Action](#) value)
- String [getArgs](#) ()
- void [setArgs](#) (String value)
- long [getDelayMilliseconds](#) ()
- void [setDelayMilliseconds](#) (long value)

Protected Attributes

- [Action](#) [action](#)
- String [args](#)
- long [delayMilliseconds](#)

6.6.1 Detailed Description

Java class for actionDelay complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="actionDelay">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="action" type="{http://server.hisWebService.webservices.sal.niarl.gov/}action"/>
        <element name="args" type="{http://www.w3.org/2001/XMLSchema}string" minOccurs="0"/>
        <element name="delayMilliseconds" type="{http://www.w3.org/2001/XMLSchema}long"/>
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

6.6.2 Member Function Documentation

6.6.2.1 Action gov.niarl.sal.webservices.hisWebServices.clientWsImport.ActionDelay.getAction ()

Gets the value of the action property.

Returns

possible object is [Action](#)

6.6.2.2 String gov.niarl.sal.webservices.hisWebServices.clientWsImport.ActionDelay.getArgs ()

Gets the value of the args property.

Returns

possible object is [String](#)

6.6.2.3 long gov.niarl.sal.webservices.hisWebServices.clientWsImport.ActionDelay.getDelayMilliseconds ()

Gets the value of the delayMilliseconds property.

6.6.2.4 void gov.niarl.sal.webservices.hisWebServices.clientWsImport.ActionDelay.setAction (Action value)

Sets the value of the action property.

Parameters

<i>value</i>	allowed object is Action
--------------	--

6.6.2.5 void gov.niarl.sal.webservices.hisWebServices.clientWsImport.ActionDelay.setArgs (String value)

Sets the value of the args property.

Parameters

<i>value</i>	allowed object is String
--------------	--

6.6.2.6 void gov.niarl.sal.webservices.hisWebServices.clientWsImport.ActionDelay.setDelayMilliseconds (long value)

Sets the value of the delayMilliseconds property.

6.6.3 Member Data Documentation

6.6.3.1 Action gov.niarl.sal.webservices.hisWebServices.clientWsImport.ActionDelay.action [protected]

6.6.3.2 String gov.niarl.sal.webservices.hisWebServices.clientWsImport.ActionDelay.args [protected]

6.6.3.3 long gov.niarl.sal.webservices.hisWebServices.clientWsImport.ActionDelay.delayMilliseconds [protected]

6.7 gov.niarl.hisAppraiser.util.AlertConfiguration Class Reference

Public Member Functions

- [AlertConfiguration](#) (String property)
- boolean [getAllAlerts](#) ()
- boolean [getPcrAlerts](#) (int i)
- boolean [getSignatureAlerts](#) ()
- void [printSummary](#) ()

Static Private Attributes

- static Logger `logger` = `Logger.getLogger(AlertConfiguration.class)`

6.7.1 Detailed Description

This class is used to store and retrieve information about which alerts to generate

Author

syelama

Version

Crossbow

6.7.2 Constructor & Destructor Documentation

6.7.2.1 `gov.niarl.hisAppraiser.util.AlertConfiguration.AlertConfiguration (String property)`

This constructor parses the string which configures the alerts.

Parameters

<i>property</i>	The comma separated string with alert configuration.
-----------------	--

6.7.3 Member Function Documentation

6.7.3.1 `boolean gov.niarl.hisAppraiser.util.AlertConfiguration.getAllAlerts ()`

Whether or not to ignore this alert configuration and generate all alerts.

Returns

Whether or not to generate all alerts regardless of configuration.

6.7.3.2 `boolean gov.niarl.hisAppraiser.util.AlertConfiguration.getPcrAlerts (int i)`

Determines whether to generate alerts for a PCR based on PCR number.

Parameters

<i>i</i>	PCR number
----------	------------

Returns

True if alerts should be generated for this PCR.

6.7.3.3 `boolean gov.niarl.hisAppraiser.util.AlertConfiguration.getSignatureAlerts ()`

Determines if signature alerts should be generated.

Returns

True if signature alerts should be generated.

6.7.3.4 void gov.niarl.hisAppraiser.util.AlertConfiguration.printSummary ()

Prints an alert generation summary using the logger created for this class.

6.7.4 Member Data Documentation**6.7.4.1 Logger gov.niarl.hisAppraiser.util.AlertConfiguration.logger = Logger.getLogger(AlertConfiguration.class)**
[static], [private]**6.8 gov.niarl.hisAppraiser.hibernate.domain.Alerts Class Reference****Public Member Functions**

- Long [getId](#) ()
- void [setId](#) (Long id)
- [AuditLog](#) [getAuditLog](#) ()
- void [setAuditLog](#) ([AuditLog](#) auditLog)
- String [getStatus](#) ()
- void [setStatus](#) (String status)
- String [getAssignedTo](#) ()
- void [setAssignedTo](#) (String assignedTo)
- String [getComments](#) ()
- void [setComments](#) (String comments)

6.8.1 Detailed Description

Java class linked to the [Alerts](#) table.

Author

syelama

Version

Crossbow

6.8.2 Member Function Documentation**6.8.2.1 String gov.niarl.hisAppraiser.hibernate.domain.Alerts.getAssignedTo ()****Returns**

the assignedTo

6.8.2.2 AuditLog gov.niarl.hisAppraiser.hibernate.domain.Alerts.getAuditLog ()**Returns**

the auditLog

6.8.2.3 String gov.niarl.hisAppraiser.hibernate.domain.Alerts.getComments ()

Returns

the comments

6.8.2.4 Long gov.niarl.hisAppraiser.hibernate.domain.Alerts.getId ()

Returns

the id

6.8.2.5 String gov.niarl.hisAppraiser.hibernate.domain.Alerts.getStatus ()

Returns

the status

6.8.2.6 void gov.niarl.hisAppraiser.hibernate.domain.Alerts.setAssignedTo (String *assignedTo*)

Parameters

<i>assignedTo</i>	the assignedTo to set
-------------------	-----------------------

6.8.2.7 void gov.niarl.hisAppraiser.hibernate.domain.Alerts.setAuditLog (AuditLog *auditLog*)

Parameters

<i>auditLog</i>	the auditLog to set
-----------------	---------------------

6.8.2.8 void gov.niarl.hisAppraiser.hibernate.domain.Alerts.setComments (String *comments*)

Parameters

<i>comments</i>	the comments to set
-----------------	---------------------

6.8.2.9 void gov.niarl.hisAppraiser.hibernate.domain.Alerts.setId (Long *id*)

Parameters

<i>id</i>	the id to set
-----------	---------------

6.8.2.10 void gov.niarl.hisAppraiser.hibernate.domain.Alerts.setStatus (String *status*)

Parameters

<i>status</i>	the status to set
---------------	-------------------

6.9 **POL New** gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes Class Reference

Public Member Functions

- [AnalysisTypes](#) ()
- void [setName](#) (String [name](#))
- String [getName](#) ()
- void [setModule](#) (String [module](#))
- String [getModule](#) ()
- void [setVersion](#) (Integer [version](#))
- Integer [getVersion](#) ()
- void [setInputParameters](#) (String [inputParameters](#))
- String [getInputParameters](#) ()
- void [setOutputParameters](#) (String [outputParameters](#))
- String [getOutputParameters](#) ()
- void [setMaxOutputSize](#) (Integer [maxOutputSize](#))
- Integer [getMaxOutputSize](#) ()
- void [setURL](#) (String [URL](#))
- String [getURL](#) ()
- void [setDeleted](#) (boolean [deleted](#))
- boolean [getDeleted](#) ()

Private Attributes

- String [name](#)
- String [module](#)
- Integer [version](#)
- String [inputParameters](#)
- String [outputParameters](#)
- Integer [maxOutputSize](#)
- String [URL](#)
- boolean [deleted](#)

6.9.1 Detailed Description

This class is required by Hibernate for mapping of table analysis_types.

Author

Nicola Barresi (POL)

6.9.2 Constructor & Destructor Documentation

6.9.2.1 gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.AnalysisTypes ()

Default Constructor.

6.9.3 Member Function Documentation

6.9.3.1 boolean gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.getDeleted ()

Gets the current value of field deleted in table analysis_types.

Returns

The value of field deleted.

6.9.3.2 String gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.getInputParameters ()

Gets the current value of field input_parameters in table analysis_types.

Returns

The value of field input_parameters.

6.9.3.3 Integer gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.getMaxOutputSize ()

Gets the current value of field max_output_size in table analysis_types.

Returns

The value of field max_output_size.

6.9.3.4 String gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.getModule ()

Gets the current value of field module in table analysis_types.

Returns

The value of field module.

6.9.3.5 String gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.getName ()

Gets the current value of field name in table analysis_types.

Returns

The value of field name.

6.9.3.6 String gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.getOutputParameters ()

Gets the current value of field output_parameters in table analysis_types.

Returns

The value of field output_parameters.

6.9.3.7 String gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.getURL ()

Gets the current value of field url in table analysis_types.

Returns

The value of field url.

6.9.3.8 Integer gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.getVersion ()

Gets the current value of field version in table analysis_types.

Returns

The value of field version.

6.9.3.9 void gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.setDeleted (boolean *deleted*)

Sets the value of field deleted in table analysis_types.

Parameters

<i>deleted</i>	The value of field deleted
----------------	----------------------------

6.9.3.10 void gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.setInputParameters (String *inputParameters*)

Sets the value of field input_parameters in table analysis_types.

Parameters

<i>inputParameters</i>	The value of field input_parameters
------------------------	-------------------------------------

6.9.3.11 void gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.setMaxOutputSize (Integer *maxOutputSize*)

Sets the value of field max_output_size in table analysis_types.

Parameters

<i>maxOutputSize</i>	The value of field max_output_size
----------------------	------------------------------------

6.9.3.12 void gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.setModule (String *module*)

Sets the value of field module in table analysis_types.

Parameters

<i>module</i>	The value of field module
---------------	---------------------------

6.9.3.13 void gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.setName (String *name*)

Sets the value of field name in table analysis_types.

Parameters

<i>name</i>	The value of field name
-------------	-------------------------

6.9.3.14 void gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.setOutputParameters (String *outputParameters*)

Sets the value of field output_parameters in table analysis_types.

Parameters

<i>output-Parameters</i>	The value of field output_parameters
--------------------------	--------------------------------------

6.9.3.15 void gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.setURL (String *URL*)

Sets the value of field url in table analysis_types.

Parameters

<i>URL</i>	The value of field url
------------	------------------------

6.9.3.16 void gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.setVersion (Integer *version*)

Sets the value of field version in table analysis_types.

Parameters

<i>version</i>	The value of field version
----------------	----------------------------

6.9.4 Member Data Documentation

6.9.4.1 boolean gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.deleted [private]

6.9.4.2 String gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.inputParameters [private]

6.9.4.3 Integer gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.maxOutputSize [private]

6.9.4.4 String gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.module [private]

6.9.4.5 String gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.name [private]

6.9.4.6 String gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.outputParameters [private]

6.9.4.7 String gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.URL [private]

6.9.4.8 Integer gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes.version [private]

6.10 **POL New** com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes Class Reference

Public Member Functions

- [AnalysisTypes](#) ()
- void [setName](#) (String [name](#))
- String [getName](#) ()
- void [setModule](#) (String [module](#))
- String [getModule](#) ()
- void [setVersion](#) (Integer [version](#))
- Integer [getVersion](#) ()
- void [setInputParameters](#) (String [inputParameters](#))
- String [getInputParameters](#) ()
- void [setOutputParameters](#) (String [outputParameters](#))
- String [getOutputParameters](#) ()
- void [setMaxOutputSize](#) (Integer [maxOutputSize](#))
- Integer [getMaxOutputSize](#) ()
- void [setURL](#) (String [URL](#))
- String [getURL](#) ()

- void [setDeleted](#) (boolean [deleted](#))
- boolean [getDeleted](#) ()

Private Attributes

- String [name](#)
- String [module](#)
- Integer [version](#)
- String [inputParameters](#)
- String [outputParameters](#)
- Integer [maxOutputSize](#)
- String [URL](#)
- boolean [deleted](#)

6.10.1 Detailed Description

This class is required by Hibernate for mapping of table `analysis_types`.

Author

Nicola Barresi (POL)

6.10.2 Constructor & Destructor Documentation

6.10.2.1 `com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.AnalysisTypes ()`

Default Constructor.

6.10.3 Member Function Documentation

6.10.3.1 `boolean com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.getDeleted ()`

Gets the current value of field `deleted` in table `analysis_types`.

Returns

The value of field `deleted`.

6.10.3.2 `String com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.getInputParameters ()`

Gets the current value of field `input_parameters` in table `analysis_types`.

Returns

The value of field `input_parameters`.

6.10.3.3 `Integer com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.getMaxOutputSize ()`

Gets the current value of field `max_output_size` in table `analysis_types`.

Returns

The value of field `max_output_size`.

6.10.3.4 String com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.getModule ()

Gets the current value of field module in table analysis_types.

Returns

The value of field module.

6.10.3.5 String com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.getName ()

Gets the current value of field name in table analysis_types.

Returns

The value of field name.

6.10.3.6 String com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.getOutputParameters ()

Gets the current value of field output_parameters in table analysis_types.

Returns

The value of field output_parameters.

6.10.3.7 String com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.getURL ()

Gets the current value of field url in table analysis_types.

Returns

The value of field url.

6.10.3.8 Integer com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.getVersion ()

Gets the current value of field version in table analysis_types.

Returns

The value of field version.

6.10.3.9 void com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.setDeleted (boolean *deleted*)

Sets the value of field deleted in table analysis_types.

Parameters

<i>deleted</i>	The value of field deleted
----------------	----------------------------

6.10.3.10 void com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.setInputParameters (String *inputParameters*)

Sets the value of field input_parameters in table analysis_types.

Parameters

<i>inputParameters</i>	The value of field input_parameters
------------------------	-------------------------------------

6.10.3.11 void com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.setMaxOutputSize (Integer *maxOutputSize*)

Sets the value of field max_output_size in table analysis_types.

Parameters

<i>maxOutputSize</i>	The value of field max_output_size
----------------------	------------------------------------

6.10.3.12 void com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.setModule (String *module*)

Sets the value of field module in table analysis_types.

Parameters

<i>module</i>	The value of field module
---------------	---------------------------

6.10.3.13 void com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.setName (String *name*)

Sets the value of field name in table analysis_types.

Parameters

<i>name</i>	The value of field name
-------------	-------------------------

6.10.3.14 void com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.setOutputParameters (String *outputParameters*)

Sets the value of field output_parameters in table analysis_types.

Parameters

<i>output-Parameters</i>	The value of field output_parameters
--------------------------	--------------------------------------

6.10.3.15 void com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.setURL (String *URL*)

Sets the value of field url in table analysis_types.

Parameters

<i>URL</i>	The value of field url
------------	------------------------

6.10.3.16 void com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.setVersion (Integer *version*)

Sets the value of field version in table analysis_types.

Parameters

<i>version</i>	The value of field version
----------------	----------------------------

6.10.4 Member Data Documentation

6.10.4.1 boolean com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.deleted [private]

6.10.4.2 String com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.inputParameters [private]

6.10.4.3 Integer com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.maxOutputSize [private]

6.10.4.4 String com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.module [private]

6.10.4.5 String com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.name [private]

6.10.4.6 String com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.outputParameters [private]

6.10.4.7 String com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.URL [private]

6.10.4.8 Integer com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes.version [private]

6.11 **POL New** com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes Class Reference

Public Member Functions

- [AnalysisTypes](#) ()
- void [setName](#) (String [name](#))
- String [getName](#) ()
- void [setModule](#) (String [module](#))
- String [getModule](#) ()
- void [setVersion](#) (Integer [version](#))
- Integer [getVersion](#) ()
- void [setInputParameters](#) (String [inputParameters](#))
- String [getInputParameters](#) ()
- void [setOutputParameters](#) (String [outputParameters](#))
- String [getOutputParameters](#) ()
- void [setMaxOutputSize](#) (Integer [maxOutputSize](#))
- Integer [getMaxOutputSize](#) ()
- void [setURL](#) (String [URL](#))
- String [getURL](#) ()
- void [setDeleted](#) (boolean [deleted](#))
- boolean [getDeleted](#) ()

Private Attributes

- String [name](#)
- String [module](#)
- Integer [version](#)

- String [inputParameters](#)
- String [outputParameters](#)
- Integer [maxOutputSize](#)
- String [URL](#)
- boolean [deleted](#)

6.11.1 Detailed Description

This class is required by Hibernate for mapping of table `analysis_types`.

Author

Nicola Barresi (POL)

6.11.2 Constructor & Destructor Documentation

6.11.2.1 `com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.AnalysisTypes ()`

Default Constructor.

6.11.3 Member Function Documentation

6.11.3.1 `boolean com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.getDeleted ()`

Gets the current value of field `deleted` in table `analysis_types`.

Returns

The value of field `deleted`.

6.11.3.2 `String com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.getInputParameters ()`

Gets the current value of field `input_parameters` in table `analysis_types`.

Returns

The value of field `input_parameters`.

6.11.3.3 `Integer com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.getMaxOutputSize ()`

Gets the current value of field `max_output_size` in table `analysis_types`.

Returns

The value of field `max_output_size`.

6.11.3.4 `String com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.getModule ()`

Gets the current value of field `module` in table `analysis_types`.

Returns

The value of field `module`.

6.11.3.5 String com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.getName ()

Gets the current value of field name in table analysis_types.

Returns

The value of field name.

6.11.3.6 String com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.getOutputParameters ()

Gets the current value of field output_parameters in table analysis_types.

Returns

The value of field output_parameters.

6.11.3.7 String com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.getURL ()

Gets the current value of field url in table analysis_types.

Returns

The value of field url.

6.11.3.8 Integer com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.getVersion ()

Gets the current value of field version in table analysis_types.

Returns

The value of field version.

6.11.3.9 void com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.setDeleted (boolean *deleted*)

Sets the value of field deleted in table analysis_types.

Parameters

<i>deleted</i>	The value of field deleted
----------------	----------------------------

6.11.3.10 void com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.setInputParameters (String *inputParameters*)

Sets the value of field input_parameters in table analysis_types.

Parameters

<i>inputParameters</i>	The value of field input_parameters
------------------------	-------------------------------------

6.11.3.11 void com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.setMaxOutputSize (Integer *maxOutputSize*)

Sets the value of field max_output_size in table analysis_types.

Parameters

<i>maxOutputSize</i>	The value of field max_output_size
----------------------	------------------------------------

6.11.3.12 void com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.setModule (String *module*)

Sets the value of field module in table analysis_types.

Parameters

<i>module</i>	The value of field module
---------------	---------------------------

6.11.3.13 void com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.setName (String *name*)

Sets the value of field name in table analysis_types.

Parameters

<i>name</i>	The value of field name
-------------	-------------------------

6.11.3.14 void com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.setOutputParameters (String *outputParameters*)

Sets the value of field output_parameters in table analysis_types.

Parameters

<i>output-Parameters</i>	The value of field output_parameters
--------------------------	--------------------------------------

6.11.3.15 void com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.setURL (String *URL*)

Sets the value of field url in table analysis_types.

Parameters

<i>URL</i>	The value of field url
------------	------------------------

6.11.3.16 void com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.setVersion (Integer *version*)

Sets the value of field version in table analysis_types.

Parameters

<i>version</i>	The value of field version
----------------	----------------------------

6.11.4 Member Data Documentation

- 6.11.4.1 `boolean com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.deleted` [private]
- 6.11.4.2 `String com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.inputParameters` [private]
- 6.11.4.3 `Integer com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.maxOutputSize` [private]
- 6.11.4.4 `String com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.module` [private]
- 6.11.4.5 `String com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.name` [private]
- 6.11.4.6 `String com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.outputParameters` [private]
- 6.11.4.7 `String com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.URL` [private]
- 6.11.4.8 `Integer com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes.version` [private]

6.12 **POL New** `com.intel.openAttestation.manifest.bean.AnalysisTypesBean` Class Reference

Public Member Functions

- `String getName ()`
- `void setName (String name)`
- `String getModule ()`
- `void setModule (String module)`
- `Integer getVersion ()`
- `void setVersion (Integer version)`
- `String getInputParameters ()`
- `void setInputParameters (String inputParameters)`
- `String getOutputParameters ()`
- `void setOutputParameters (String outputParameters)`
- `Integer getMaxOutputSize ()`
- `void setMaxOutputSize (Integer maxOutputSize)`
- `String getURL ()`
- `void setURL (String URL)`

Private Attributes

- `String name`
- `String module`
- `Integer version`
- `String inputParameters`
- `String outputParameters`
- `Integer maxOutputSize`
- `String URL`

6.12.1 Detailed Description

This class maps a JSON element used by the RESTful service AnalysisTypes. The service is realised with Jersey, that uses Jackson to convert Java objects to/from JSON.

Author

Nicola Barresi (POL)

6.12.2 Member Function Documentation

6.12.2.1 String com.intel.openAttestation.manifest.bean.AnalysisTypesBean.getInputParameters ()

Gets the current value of element inputParameters.

Returns

The value of element inputParameters.

6.12.2.2 Integer com.intel.openAttestation.manifest.bean.AnalysisTypesBean.getMaxOutputSize ()

Gets the current value of element maxOutputSize.

Returns

The value of element maxOutputSize.

6.12.2.3 String com.intel.openAttestation.manifest.bean.AnalysisTypesBean.getModule ()

Gets the current value of element module.

Returns

The value of element module.

6.12.2.4 String com.intel.openAttestation.manifest.bean.AnalysisTypesBean.getName ()

Gets the current value of element name.

Returns

The value of element name.

6.12.2.5 String com.intel.openAttestation.manifest.bean.AnalysisTypesBean.getOutputParameters ()

Gets the current value of element outputParameters.

Returns

The value of element outputParameters.

6.12.2.6 String com.intel.openAttestation.manifest.bean.AnalysisTypesBean.getURL ()

Gets the current value of element URL.

Returns

The value of element URL.

6.12.2.7 Integer com.intel.openAttestation.manifest.bean.AnalysisTypesBean.getVersion ()

Gets the current value of element version.

Returns

The value of element version.

6.12.2.8 void com.intel.openAttestation.manifest.bean.AnalysisTypesBean.setInputParameters (String *inputParameters*)

Sets the value of element inputParameters.

Parameters

<i>inputParameters</i>	The value of element inputParameters
------------------------	--------------------------------------

6.12.2.9 void com.intel.openAttestation.manifest.bean.AnalysisTypesBean.setMaxOutputSize (Integer *maxOutputSize*)

Sets the value of element maxOutputSize.

Parameters

<i>maxOutputSize</i>	The value of element maxOutputSize
----------------------	------------------------------------

6.12.2.10 void com.intel.openAttestation.manifest.bean.AnalysisTypesBean.setModule (String *module*)

Sets the value of element module.

Parameters

<i>module</i>	The value of element module
---------------	-----------------------------

6.12.2.11 void com.intel.openAttestation.manifest.bean.AnalysisTypesBean.setName (String *name*)

Sets the value of element name.

Parameters

<i>name</i>	The value of element name
-------------	---------------------------

6.12.2.12 void com.intel.openAttestation.manifest.bean.AnalysisTypesBean.setOutputParameters (String *outputParameters*)

Sets the value of element outputParameters.

Parameters

<i>output-Parameters</i>	The value of element outputParameters
--------------------------	---------------------------------------

6.12.2.13 void com.intel.openAttestation.manifest.bean.AnalysisTypesBean.setURL (String *URL*)

Sets the value of element URL.

Parameters

<i>URL</i>	The value of element URL
------------	--------------------------

6.12.2.14 void com.intel.openAttestation.manifest.bean.AnalysisTypesBean.setVersion (Integer *version*)

Sets the value of element version.

Parameters

<i>version</i>	The value of element version
----------------	------------------------------

6.12.3 Member Data Documentation

6.12.3.1 String com.intel.openAttestation.manifest.bean.AnalysisTypesBean.inputParameters [private]

6.12.3.2 Integer com.intel.openAttestation.manifest.bean.AnalysisTypesBean.maxOutputSize [private]

6.12.3.3 String com.intel.openAttestation.manifest.bean.AnalysisTypesBean.module [private]

6.12.3.4 String com.intel.openAttestation.manifest.bean.AnalysisTypesBean.name [private]

6.12.3.5 String com.intel.openAttestation.manifest.bean.AnalysisTypesBean.outputParameters [private]

6.12.3.6 String com.intel.openAttestation.manifest.bean.AnalysisTypesBean.URL [private]

6.12.3.7 Integer com.intel.openAttestation.manifest.bean.AnalysisTypesBean.version [private]

6.13 **POL New** gov.niarl.hisAppraiser.hibernate.dao.AnalysisTypesDao Class Reference

Public Member Functions

- [AnalysisTypesDao](#) ()
- void [saveAnalysisTypes](#) ([AnalysisTypes](#) analysisType)
- [AnalysisTypes](#) [getAnalysisType](#) (String name)

6.13.1 Detailed Description

This class serves as a central location for updates and queries against the analysis_types table.

Author

Nicola Barresi (POL)

6.13.2 Constructor & Destructor Documentation

6.13.2.1 `gov.niarl.hisAppraiser.hibernate.dao.AnalysisTypesDao.AnalysisTypesDao ()`

Constructor starting a Hibernate transaction in case one has not been started yet.

6.13.3 Member Function Documentation

6.13.3.1 **AnalysisTypes** `gov.niarl.hisAppraiser.hibernate.dao.AnalysisTypesDao.getAnalysisType (String name)`

Retrieves an AnalysisTypes entry based on the primary key. The function gets current Hibernate session and queries the database looking for the requested primary key.

Parameters

<i>name</i>	The name or primary key of the needed AnalysisTypes entry
-------------	---

Returns

The AnalysisTypes entry retrieved from the database.

6.13.3.2 `void gov.niarl.hisAppraiser.hibernate.dao.AnalysisTypesDao.saveAnalysisTypes (AnalysisTypes analysisType)`

Saves an AnalysisTypes. The function gets current Hibernate session, saves object received as input and finally commits the transaction.

Parameters

<i>analysisType</i>	AnalysisTypes entry to save
---------------------	-----------------------------

6.14 **POL New** `com.intel.openAttestation.AttestationService.hibernate.dao.AnalysisTypesDao` Class Reference

Public Member Functions

- [AnalysisTypesDao](#) ()
- void [saveAnalysisTypes](#) ([AnalysisTypes](#) *analysisType*)
- [AnalysisTypes](#) [getAnalysisType](#) (String *name*)

6.14.1 Detailed Description

This class serves as a central location for updates and queries against the `analysis_types` table.

Author

Nicola Barresi (POL)

6.14.2 Constructor & Destructor Documentation

6.14.2.1 `com.intel.openAttestation.AttestationService.hibernate.dao.AnalysisTypesDao.AnalysisTypesDao ()`

Constructor starting a Hibernate transaction in case one has not been started yet.

6.14.3 Member Function Documentation

6.14.3.1 AnalysisTypes com.intel.openAttestation.AttestationService.hibernate.dao.AnalysisTypesDao.getAnalysisType (String name)

Retrieves an AnalysisTypes entry based on the primary key. The function gets current Hibernate session and queries the database looking for the requested primary key.

Parameters

<i>name</i>	The name or primary key of the needed AnalysisTypes entry
-------------	---

Returns

The AnalysisTypes entry retrieved from the database.

6.14.3.2 void com.intel.openAttestation.AttestationService.hibernate.dao.AnalysisTypesDao.saveAnalysisTypes (AnalysisTypes analysisType)

Saves an AnalysisTypes. The function gets current Hibernate session, saves object received as input and finally commits the transaction.

Parameters

<i>analysisType</i>	AnalysisTypes entry to save
---------------------	-----------------------------

6.15 **POL New** com.intel.openAttestation.manifest.hibernate.dao.AnalysisTypesDao Class Reference

Public Member Functions

- [AnalysisTypesDao](#) ()
- void [saveAnalysisType](#) ([AnalysisTypes](#) analysisType)
- [AnalysisTypes](#) [getAnalysisType](#) (String name)
- List< [AnalysisTypes](#) > [getAllAnalysisType](#) ()
- void [editAnalysisType](#) ([AnalysisTypes](#) analysisType)
- void [deleteAnalysisType](#) (String name)
- void [addAnalysisTypesEntry](#) ([AnalysisTypes](#) analysisTypesEntry)

6.15.1 Detailed Description

This class serves as a central location for updates and queries against the analysis_types table.

Author

Nicola Barresi (POL)

6.15.2 Constructor & Destructor Documentation

6.15.2.1 com.intel.openAttestation.manifest.hibernate.dao.AnalysisTypesDao.AnalysisTypesDao ()

Constructor starting a Hibernate transaction in case one has not been started yet.

6.15.3 Member Function Documentation

6.15.3.1 `void com.intel.openAttestation.manifest.hibernate.dao.AnalysisTypesDao.addAnalysisTypesEntry (AnalysisTypes analysisTypesEntry)`

Add the AnalysisTypes entry received as input. The function begins a new transaction and saves the object received as input.

Parameters

<i>analysisTypesEntry</i>	The object AnalysisTypes to be deleted
---------------------------	--

6.15.3.2 `void com.intel.openAttestation.manifest.hibernate.dao.AnalysisTypesDao.deleteAnalysisType (String name)`

Deletes an AnalysisTypes entry based on the primary key. The function gets current Hibernate session and queries the database looking for the requested entry; if the entry exists it is deleted and the transaction is committed.

Parameters

<i>name</i>	The name or primary key of the needed AnalysisTypes entry
-------------	---

6.15.3.3 `void com.intel.openAttestation.manifest.hibernate.dao.AnalysisTypesDao.editAnalysisType (AnalysisTypes analysisType)`

Edit the AnalysisTypes entry received as input. The function gets current Hibernate session and queries the database looking for the requested entry; then it updates the entry according with values in the received object.

Parameters

<i>analysisType</i>	The object AnalysisTypes to be edited
---------------------	---------------------------------------

6.15.3.4 `List<AnalysisTypes> com.intel.openAttestation.manifest.hibernate.dao.AnalysisTypesDao.getAllAnalysisType ()`

Retrieves all AnalysisTypes entries. The function gets current Hibernate session and queries the database for the entire contents of table analysis_types.

Returns

The AnalysisTypes entry retrieved from the database.

6.15.3.5 `AnalysisTypes com.intel.openAttestation.manifest.hibernate.dao.AnalysisTypesDao.getAnalysisType (String name)`

Retrieves an AnalysisTypes entry based on the primary key. The function gets current Hibernate session and queries the database looking for the requested primary key.

Parameters

<i>name</i>	The name or primary key of the needed AnalysisTypes entry
-------------	---

Returns

The AnalysisTypes entry retrieved from the database.

6.15.3.6 void com.intel.openAttestation.manifest.hibernate.dao.AnalysisTypesDao.saveAnalysisType (AnalysisTypes analysisType)

Saves an AnalysisTypes. The function gets current Hibernate session, saves object received as input and finally commits the transaction.

Parameters

<i>analysisType</i>	AnalysisTypes entry to save
---------------------	-----------------------------

6.16 **POL New** com.intel.openAttestation.manifest.resource.AnalysisTypesResource Class Reference

Public Member Functions

- Response [addAnalysisRequest](#) (@Context UriInfo uriInfo, [AnalysisTypesBean](#) analysisTypeBean)
- Response [editAnalysisRequest](#) (@Context UriInfo uriInfo, [AnalysisTypesBean](#) analysisTypeBean)
- Response [delAnalysisRequest](#) (@QueryParam("name") String Name,@Context UriInfo uriInfo)
- List< [AnalysisTypes](#) > [getAnalysisTypeEntry](#) ()

6.16.1 Detailed Description

RESTful web service interface to work with table AnalysisTypes.

Author

Nicola Barresi (POL)

6.16.2 Member Function Documentation

6.16.2.1 Response com.intel.openAttestation.manifest.resource.AnalysisTypesResource.addAnalysisRequest (@Context UriInfo uriInfo, AnalysisTypesBean analysisTypeBean)

Inserts new entry in AnalysisTypes table. This function verifies that received values are not too long and that proposed name is not already in the database; if validation succeeded it writes the new entry on the database.

Parameters

<i>uriInfo</i>	An object UriInfo requested by RESTful service implementation
<i>analysisType-Bean</i>	The value to be inserted

Returns

String "True" if request succeeded, error details otherwise.

6.16.2.2 Response `com.intel.openAttestation.manifest.resource.AnalysisTypesResource.delAnalysisRequest (@QueryParam("name") String Name, @Context UriInfo urilInfo)`

Deletes an entry from AnalysisTypes table. This function verifies that received name is valid and if so it deletes the corresponding entry from the database.

Parameters

<i>name</i>	The identifier of the element to be deleted
<i>urilInfo</i>	An object UriInfo requested by RESTful service implementation

Returns

String "True" if request succeeded, error details otherwise.

6.16.2.3 Response `com.intel.openAttestation.manifest.resource.AnalysisTypesResource.editAnalysisRequest (@Context UriInfo urilInfo, AnalysisTypesBean analysisTypeBean)`

Edits an entry in AnalysisTypes table. This function verifies that received values are not too long and that proposed name exists in the database; if validation succeeded it updates the entry according with the received object.

Parameters

<i>urilInfo</i>	An object UriInfo requested by RESTful service implementation
<i>analysisTypeBean</i>	The value to be edited

Returns

String "True" if request succeeded, error details otherwise.

6.16.2.4 List<AnalysisTypes> `com.intel.openAttestation.manifest.resource.AnalysisTypesResource.getAnalysisTypeEntry ()`

Gets all entries of AnalysisTypes table.

Returns

The list of entries.

6.17 com.intel.openAttestation.AttestationService.bean.AttestationResponseFault Class Reference

Public Member Functions

- [AttestationResponseFault](#) ()
- [AttestationResponseFault](#) (int code)
- [AttestationResponseFault](#) (String name)
- int [getCode](#) ()

- void [setCode](#) (int code)
- String [getName](#) ()
- void [setName](#) (String name)
- String [getMessage](#) ()
- void [setMessage](#) (String message)
- String [getDetail](#) ()
- void [setDetail](#) (String detail)

6.17.1 Constructor & Destructor Documentation

6.17.1.1 `com.intel.openAttestation.AttestationService.bean.AttestationResponseFault.AttestationResponseFault ()`

6.17.1.2 `com.intel.openAttestation.AttestationService.bean.AttestationResponseFault.AttestationResponseFault (int code)`

6.17.1.3 `com.intel.openAttestation.AttestationService.bean.AttestationResponseFault.AttestationResponseFault (String name)`

6.17.2 Member Function Documentation

6.17.2.1 `int com.intel.openAttestation.AttestationService.bean.AttestationResponseFault.getCode ()`

6.17.2.2 `String com.intel.openAttestation.AttestationService.bean.AttestationResponseFault.getDetail ()`

6.17.2.3 `String com.intel.openAttestation.AttestationService.bean.AttestationResponseFault.getMessage ()`

6.17.2.4 `String com.intel.openAttestation.AttestationService.bean.AttestationResponseFault.getName ()`

6.17.2.5 `void com.intel.openAttestation.AttestationService.bean.AttestationResponseFault.setCode (int code)`

6.17.2.6 `void com.intel.openAttestation.AttestationService.bean.AttestationResponseFault.setDetail (String detail)`

6.17.2.7 `void com.intel.openAttestation.AttestationService.bean.AttestationResponseFault.setMessage (String message)`

6.17.2.8 `void com.intel.openAttestation.AttestationService.bean.AttestationResponseFault.setName (String name)`

6.18 gov.niarl.hisAppraiser.hibernate.dao.AttestDao Class Reference

Public Member Functions

- [AttestDao](#) ()
- [AttestRequest updateRequest](#) ([AttestRequest](#) req)
- [AttestRequest getLatestPolledRequest](#) (String hostName)
- [AttestRequest getFirstRequest](#) (String hostName)
- `List< PcrWhiteList > getPcrValue` (String hostName)

6.18.1 Constructor & Destructor Documentation

6.18.1.1 `gov.niarl.hisAppraiser.hibernate.dao.AttestDao.AttestDao ()`

6.18.2 Member Function Documentation

6.18.2.1 `AttestRequest gov.niarl.hisAppraiser.hibernate.dao.AttestDao.getFirstRequest (String hostName)`

get the earliest request attest for given host

Parameters

<i>hostName</i>	
-----------------	--

Returns

6.18.2.2 **AttestRequest** gov.niarl.hisAppraiser.hibernate.dao.AttestDao.getLatestPolledRequest (String *hostName*)

6.18.2.3 List<PcrWhiteList> gov.niarl.hisAppraiser.hibernate.dao.AttestDao.getPcrValue (String *hostName*)

get pcr_name, pcr_digest from table prc_white_list, mle, host

Parameters

<i>hostName</i>	
-----------------	--

Returns

6.18.2.4 **AttestRequest** gov.niarl.hisAppraiser.hibernate.dao.AttestDao.updateRequest (**AttestRequest** req)

6.19 com.intel.openAttestation.AttestationService.hibernate.dao.AttestDao Class Reference

Public Member Functions

- [AttestDao](#) ()
- void [saveRequest](#) (**AttestRequest** req)
- **AttestRequest** [getRequestById](#) (Long id)
- List< **AttestRequest** > [getRequestsByRequestId](#) (String requestId)
- List< **AttestRequest** > [getAllRequestsAsync](#) ()
- **AuditLog** [getAuditLogById](#) (long id)
- **AttestRequest** [updateRequest](#) (**AttestRequest** req)
- **AttestRequest** [getLastAttestedRequest](#) (String hostName)
- **MachineCert** [getMachineCert](#) (String machineName)

6.19.1 Constructor & Destructor Documentation

6.19.1.1 com.intel.openAttestation.AttestationService.hibernate.dao.AttestDao.AttestDao ()

6.19.2 Member Function Documentation

6.19.2.1 List<**AttestRequest**> com.intel.openAttestation.AttestationService.hibernate.dao.AttestDao.getAllRequestsAsync ()

get all async requests

Returns

6.19.2.2 AuditLog com.intel.openAttestation.AttestationService.hibernate.dao.AttestDao.getAuditLogById (long *id*)

get auditLog by auditId

Parameters

<i>id</i>	
-----------	--

Returns**6.19.2.3 AttestRequest** com.intel.openAttestation.AttestationService.hibernate.dao.AttestDao.getLastAttestedRequest (String *hostName*)**6.19.2.4 MachineCert** com.intel.openAttestation.AttestationService.hibernate.dao.AttestDao.getMachineCert (String *machineName*)

Obtain the active MachineCert row for a given machine name.

Parameters

<i>machineName</i>	Name of the machine of interest.
--------------------	----------------------------------

Returns

The MachineCert entry or null if the machine name has no active registrations

6.19.2.5 AttestRequest com.intel.openAttestation.AttestationService.hibernate.dao.AttestDao.getRequestById (Long *id*)

get request by id

Parameters

<i>id</i>	
-----------	--

Returns**6.19.2.6 List<AttestRequest>** com.intel.openAttestation.AttestationService.hibernate.dao.AttestDao.getRequestsBy-RequestId (String *requestId*)

get requests by requestId

Parameters

<i>requestId</i>	
------------------	--

Returns

6.19.2.7 `void com.intel.openAttestation.AttestationService.hibernate.dao.AttestDao.saveRequest (AttestRequest req)`

save a request for given request

Parameters

<i>req</i>	
------------	--

6.19.2.8 `AttestRequest com.intel.openAttestation.AttestationService.hibernate.dao.AttestDao.updateRequest (AttestRequest req)`

6.20 gov.niarl.hisAppraiser.hibernate.domain.AttestRequest Class Reference

Public Member Functions

- Date [getValidateTime](#) ()
- void [setValidateTime](#) (Date [validateTime](#))
- [AttestRequest](#) ()
- Boolean [getIsSync](#) ()
- void [setIsSync](#) (Boolean [isSync](#))
- Long [getCount](#) ()
- void [setCount](#) (Long [count](#))
- String [getPCRMask](#) ()
- void [setPCRMask](#) (String [pCRMask](#))
- Integer [getResult](#) ()
- void [setResult](#) (Integer [result](#))
- Long [getId](#) ()
- void [setId](#) (Long [id](#))
- String [getRequestId](#) ()
- void [setRequestId](#) (String [requestId](#))
- String [getHostName](#) ()
- void [setHostName](#) (String [hostName](#))
- Date [getRequestTime](#) ()
- void [setRequestTime](#) (Date [requestTime](#))
- Integer [getNextAction](#) ()
- void [setNextAction](#) (Integer [nextAction](#))
- Boolean [getIsConsumedByPollingWS](#) ()
- void [setIsConsumedByPollingWS](#) (Boolean [isConsumedByPollingWS](#))
- [AuditLog](#) [getAuditLog](#) ()
- void [setAuditLog](#) ([AuditLog](#) [auditLog](#))
- [MachineCert](#) [getMachineCert](#) ()
- void [setMachineCert](#) ([MachineCert](#) [machineCert](#))
- String [getRequestHost](#) ()
- void [setRequestHost](#) (String [requestHost](#))
- String [getAnalysisType](#) ()
- void [setAnalysisType](#) (String [analysisType](#))
- String [getResultDetailed](#) ()
- void [setResultDetailed](#) (String [resultDetailed](#))

Private Attributes

- Long [id](#)
- String [requestId](#)
- String [hostName](#)
- Date [requestTime](#)
- Integer [nextAction](#)
- Boolean [isConsumedByPollingWS](#)
- [AuditLog](#) [auditLog](#)
- [MachineCert](#) [machineCert](#)
- String [requestHost](#)
- Long [count](#)
- String [PCRMask](#)
- Boolean [isSync](#)
- Integer [result](#)
- Date [validateTime](#)
- String [analysisType](#)
- String [resultDetailed](#)

6.20.1 Detailed Description

This class is required by Hibernate for mapping of table attest_request.

6.20.2 Constructor & Destructor Documentation

6.20.2.1 gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.AttestRequest ()

Default Constructor.

6.20.3 Member Function Documentation

6.20.3.1 **POL New** String gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.getAnalysisType ()

Gets the current value of field analysis_type in table attest_request.

Returns

The value of field analysis_type.

6.20.3.2 **AuditLog** gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.getAuditLog ()

Gets the current value of field audit_log_id in table attest_request.

Returns

The object [AuditLog](#) that maps field audit_log_id.

6.20.3.3 Long gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.getCount ()

Gets the current value of field count in table attest_request.

Returns

The value of field count.

6.20.3.4 String gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.getHostName ()

Gets the current value of field host_name in table attest_request.

Returns

The value of field host_name.

6.20.3.5 Long gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.getId ()

Gets the current value of field id in table attest_request.

Returns

The value of field id.

6.20.3.6 Boolean gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.getIsConsumedByPollingWS ()

Gets the current value of field is_consumed_by_pollingWS in table attest_request.

Returns

The value of field is_consumed_by_pollingWS.

6.20.3.7 Boolean gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.getIsSync ()

Gets the current value of field is_sync in table attest_request.

Returns

The value of field is_sync.

6.20.3.8 MachineCert gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.getMachineCert ()

Gets the current value of field host_id in table attest_request.

Returns

The object [MachineCert](#) that maps field host_id.

6.20.3.9 Integer gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.getNextAction ()

Gets the current value of field next_action in table attest_request.

Returns

The value of field next_action.

6.20.3.10 String gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.getPCRMask ()

Gets the current value of field PCRMask in table attest_request.

Returns

The value of field PCRMask.

6.20.3.11 String gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.getRequestHost ()

Gets the current value of field request_host in table attest_request.

Returns

The value of field request_host.

6.20.3.12 String gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.getRequestId ()

Gets the current value of field request_id in table attest_request.

Returns

The value of field request_id.

6.20.3.13 Date gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.getRequestTime ()

Gets the current value of field request_time in table attest_request.

Returns

The value of field request_time.

6.20.3.14 Integer gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.getResult ()

Gets the current value of field result in table attest_request.

Returns

The value of field result.

6.20.3.15 POL New String gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.getResultDetailed ()

Gets the current value of field result_detailed in table attest_request.

Returns

The value of field result_detailed.

6.20.3.16 Date gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.getValidateTime ()

Gets the current value of field validate_time in table attest_request.

Returns

The value of field validate_time.

6.20.3.17 POL New void gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.setAnalysisType (String analysisType)

Sets the value of field analysis_type in table attest_request.

Parameters

<i>analysisType</i>	The value of field <code>analysis_type</code>
---------------------	---

6.20.3.18 void gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.setAuditLog (AuditLog *auditLog*)

Sets the value of field `audit_log_id` in table `attest_request`.

Parameters

<i>auditLog</i>	The object AuditLog that maps field <code>audit_log_id</code>
-----------------	---

6.20.3.19 void gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.setCount (Long *count*)

Sets the value of field `count` in table `attest_request`.

Parameters

<i>count</i>	The value of field <code>count</code>
--------------	---------------------------------------

6.20.3.20 void gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.setHostName (String *hostName*)

Sets the value of field `host_name` in table `attest_request`.

Parameters

<i>hostName</i>	The value of field <code>host_name</code>
-----------------	---

6.20.3.21 void gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.setId (Long *id*)

Sets the value of field `id` in table `attest_request`.

Parameters

<i>id</i>	The value of field <code>id</code>
-----------	------------------------------------

6.20.3.22 void gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.setIsConsumedByPollingWS (Boolean *isConsumedByPollingWS*)

Sets the value of field `is_consumed_by_pollingWS` in table `attest_request`.

Parameters

<i>isConsumedByPollingWS</i>	The value of field <code>is_consumed_by_pollingWS</code>
------------------------------	--

6.20.3.23 void gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.setIsSync (Boolean *isSync*)

Sets the value of field `is_sync` in table `attest_request`.

Parameters

<i>isSync</i>	The value of field <code>is_sync</code>
---------------	---

6.20.3.24 void gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.setMachineCert (MachineCert *machineCert*)

Sets the value of field `host_id` in table `attest_request`.

Parameters

<i>machineCert</i>	The object MachineCert that maps field <code>host_id</code>
--------------------	---

6.20.3.25 void gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.setNextAction (Integer *nextAction*)

Sets the value of field `next_action` in table `attest_request`.

Parameters

<i>nextAction</i>	The value of field <code>next_action</code>
-------------------	---

6.20.3.26 void gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.setPCRMask (String *pCRMask*)

Sets the value of field `PCRMask` in table `attest_request`.

Parameters

<i>pCRMask</i>	The value of field <code>PCRMask</code>
----------------	---

6.20.3.27 void gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.setRequestHost (String *requestHost*)

Sets the value of field `request_host` in table `attest_request`.

Parameters

<i>requestHost</i>	The value of field <code>request_host</code>
--------------------	--

6.20.3.28 void gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.setRequestId (String *requestId*)

Sets the value of field `request_id` in table `attest_request`.

Parameters

<i>requestId</i>	The value of field <code>request_id</code>
------------------	--

6.20.3.29 void gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.setRequestTime (Date *requestTime*)

Sets the value of field `request_time` in table `attest_request`.

Parameters

<i>requestTime</i>	The value of field <code>request_time</code>
--------------------	--

6.20.3.30 void gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.setResult (Integer *result*)

Sets the value of field result in table attest_request.

Parameters

<i>result</i>	The value of field result
---------------	---------------------------

6.20.3.31 **POL New** void gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.setResultDetailed (String *resultDetailed*)

Sets the value of field result_detailed in table attest_request.

Parameters

<i>resultDetailed</i>	The value of field result_detailed
-----------------------	------------------------------------

6.20.3.32 void gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.setValidateTime (Date *validateTime*)

Sets the value of field validate_time in table attest_request.

Parameters

<i>validateTime</i>	The value of field validate_time
---------------------	----------------------------------

6.20.4 Member Data Documentation

6.20.4.1 String gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.analysisType [private]

6.20.4.2 AuditLog gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.auditLog [private]

6.20.4.3 Long gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.count [private]

6.20.4.4 String gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.hostName [private]

6.20.4.5 Long gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.id [private]

6.20.4.6 Boolean gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.isConsumedByPollingWS [private]

6.20.4.7 Boolean gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.isSync [private]

6.20.4.8 MachineCert gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.machineCert [private]

6.20.4.9 Integer gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.nextAction [private]

6.20.4.10 String gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.PCRMASK [private]

6.20.4.11 String gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.requestHost [private]

6.20.4.12 String gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.requestId [private]

6.20.4.13 Date gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.requestTime [private]

6.20.4.14 Integer gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.result [private]

6.20.4.15 String gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.resultDetailed [private]

6.20.4.16 Date gov.niarl.hisAppraiser.hibernate.domain.AttestRequest.validateTime [private]

6.21 com.intel.openAttestation.manifest.hibernate.domain.AttestRequest Class Reference

Public Member Functions

- Date [getValidateTime](#) ()
- void [setValidateTime](#) (Date [validateTime](#))
- [AttestRequest](#) ()
- Boolean [getIsSync](#) ()
- void [setIsSync](#) (Boolean [isSync](#))
- Long [getCount](#) ()
- void [setCount](#) (Long [count](#))
- String [getPCRMask](#) ()
- void [setPCRMask](#) (String [pCRMask](#))
- Integer [getResult](#) ()
- void [setResult](#) (Integer [result](#))
- Long [getId](#) ()
- void [setId](#) (Long [id](#))
- String [getRequestId](#) ()
- void [setRequestId](#) (String [requestId](#))
- String [getHostName](#) ()
- void [setHostName](#) (String [hostName](#))
- Date [getRequestTime](#) ()
- void [setRequestTime](#) (Date [requestTime](#))
- Integer [getNextAction](#) ()
- void [setNextAction](#) (Integer [nextAction](#))
- Boolean [getIsConsumedByPollingWS](#) ()
- void [setIsConsumedByPollingWS](#) (Boolean [isConsumedByPollingWS](#))
- Integer [getAuditLog](#) ()
- void [setAuditLog](#) (Integer [auditLog](#))
- Integer [getMachineCert](#) ()
- void [setMachineCert](#) (Integer [machineCert](#))
- String [getRequestHost](#) ()
- void [setRequestHost](#) (String [requestHost](#))
- String [getAnalysisType](#) ()
- void [setAnalysisType](#) (String [analysisType](#))
- String [getResultDetailed](#) ()
- void [setResultDetailed](#) (String [resultDetailed](#))

Private Attributes

- Long [id](#)
- String [requestId](#)
- String [hostName](#)
- Date [requestTime](#)
- Integer [nextAction](#)
- Boolean [isConsumedByPollingWS](#)
- Integer [auditLog](#)
- Integer [machineCert](#)

- String [requestHost](#)
- Long [count](#)
- String [PCRMask](#)
- Boolean [isSync](#)
- Integer [result](#)
- Date [validateTime](#)
- String [analysisType](#)
- String [resultDetailed](#)

6.21.1 Detailed Description

This class is required by Hibernate for mapping of table attest_request.

6.21.2 Constructor & Destructor Documentation

6.21.2.1 `com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.AttestRequest ()`

Default Constructor.

6.21.3 Member Function Documentation

6.21.3.1 **POL New** `String com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.getAnalysisType ()`

Gets the current value of field analysis_type in table attest_request.

Returns

The value of field analysis_type.

6.21.3.2 `Integer com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.getAuditLog ()`

Gets the current value of field audit_log_id in table attest_request.

Returns

The value of field audit_log_id.

6.21.3.3 `Long com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.getCount ()`

Gets the current value of field count in table attest_request.

Returns

The value of field count.

6.21.3.4 `String com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.getHostName ()`

Gets the current value of field host_name in table attest_request.

Returns

The value of field host_name.

6.21.3.5 Long com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.getId ()

Gets the current value of field id in table attest_request.

Returns

The value of field id.

6.21.3.6 Boolean com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.getIsConsumedByPollingWS ()

Gets the current value of field is_consumed_by_pollingWS in table attest_request.

Returns

The value of field is_consumed_by_pollingWS.

6.21.3.7 Boolean com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.getIsSync ()

Gets the current value of field is_sync in table attest_request.

Returns

The value of field is_sync.

6.21.3.8 Integer com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.getMachineCert ()

Gets the current value of field host_id in table attest_request.

Returns

The value of field host_id.

6.21.3.9 Integer com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.getNextAction ()

Gets the current value of field next_action in table attest_request.

Returns

The value of field next_action.

6.21.3.10 String com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.getPCRMask ()

Gets the current value of field PCRMask in table attest_request.

Returns

The value of field PCRMask.

6.21.3.11 String com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.getRequestHost ()

Gets the current value of field request_host in table attest_request.

Returns

The value of field request_host.

6.21.3.12 String `com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.getRequestId ()`

Gets the current value of field request_id in table attest_request.

Returns

The value of field request_id.

6.21.3.13 Date `com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.getRequestTime ()`

Gets the current value of field request_time in table attest_request.

Returns

The value of field request_time.

6.21.3.14 Integer `com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.getResult ()`

Gets the current value of field result in table attest_request.

Returns

The value of field result.

6.21.3.15 POL New `String` `com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.getResultDetailed ()`

Gets the current value of field result_detailed in table attest_request.

Returns

The value of field result_detailed.

6.21.3.16 Date `com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.getValidateTime ()`

Gets the current value of field validate_time in table attest_request.

Returns

The value of field validate_time.

6.21.3.17 POL New `void` `com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.setAnalysisType (String analysisType)`

Sets the value of field analysis_type in table attest_request.

Parameters

<i>analysisType</i>	The value of field analysis_type
---------------------	----------------------------------

6.21.3.18 void com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.setAuditLog (Integer *auditLog*)

Sets the value of field audit_log_id in table attest_request.

Parameters

<i>auditLog</i>	The value of field audit_log_id
-----------------	---------------------------------

6.21.3.19 void com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.setCount (Long *count*)

Sets the value of field count in table attest_request.

Parameters

<i>count</i>	The value of field count
--------------	--------------------------

6.21.3.20 void com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.setHostName (String *hostName*)

Sets the value of field host_name in table attest_request.

Parameters

<i>hostName</i>	The value of field host_name
-----------------	------------------------------

6.21.3.21 void com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.setId (Long *id*)

Sets the value of field id in table attest_request.

Parameters

<i>id</i>	The value of field id
-----------	-----------------------

6.21.3.22 void com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.setIsConsumedByPollingWS (Boolean *isConsumedByPollingWS*)

Sets the value of field is_consumed_by_pollingWS in table attest_request.

Parameters

<i>isConsumedByPollingWS</i>	The value of field is_consumed_by_pollingWS
------------------------------	---

6.21.3.23 void com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.setIsSync (Boolean *isSync*)

Sets the value of field is_sync in table attest_request.

Parameters

<i>isSync</i>	The value of field is_sync
---------------	----------------------------

6.21.3.24 void com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.setMachineCert (Integer *machineCert*)

Sets the value of field host_id in table attest_request.

Parameters

<i>machineCert</i>	The value of field host_id
--------------------	----------------------------

6.21.3.25 void com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.setNextAction (Integer *nextAction*)

Sets the value of field next_action in table attest_request.

Parameters

<i>nextAction</i>	The value of field next_action
-------------------	--------------------------------

6.21.3.26 void com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.setPCRMask (String *pCRMMask*)

Sets the value of field PCRMask in table attest_request.

Parameters

<i>pCRMMask</i>	The value of field PCRMask
-----------------	----------------------------

6.21.3.27 void com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.setRequestHost (String *requestHost*)

Sets the value of field request_host in table attest_request.

Parameters

<i>requestHost</i>	The value of field request_host
--------------------	---------------------------------

6.21.3.28 void com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.setRequestId (String *requestId*)

Sets the value of field request_id in table attest_request.

Parameters

<i>requestId</i>	The value of field request_id
------------------	-------------------------------

6.21.3.29 void com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.setRequestTime (Date *requestTime*)

Sets the value of field request_time in table attest_request.

Parameters

<i>requestTime</i>	The value of field request_time
--------------------	---------------------------------

6.21.3.30 void com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.setResult (Integer *result*)

Sets the value of field result in table attest_request.

Parameters

<i>result</i>	The value of field result
---------------	---------------------------

6.21.3.31 **POL New** void com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.setResultDetailed (String *resultDetailed*)

Sets the value of field result_detailed in table attest_request.

Parameters

<i>resultDetailed</i>	The value of field result_detailed
-----------------------	------------------------------------

6.21.3.32 void com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.setValidateTime (Date *validateTime*)

Sets the value of field validate_time in table attest_request.

Parameters

<i>validateTime</i>	The value of field validate_time
---------------------	----------------------------------

6.21.4 Member Data Documentation

6.21.4.1 String com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.analysisType [private]

6.21.4.2 Integer com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.auditLog [private]

6.21.4.3 Long com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.count [private]

6.21.4.4 String com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.hostName [private]

6.21.4.5 Long com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.id [private]

6.21.4.6 Boolean com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.isConsumedByPollingWS [private]

6.21.4.7 Boolean com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.isSync [private]

6.21.4.8 Integer com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.machineCert [private]

6.21.4.9 Integer com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.nextAction [private]

6.21.4.10 String com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.PCRMMask [private]

6.21.4.11 String com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.requestHost [private]

6.21.4.12 String com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.requestId [private]

6.21.4.13 Date com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.requestTime [private]

6.21.4.14 Integer com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.result [private]

6.21.4.15 String com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.resultDetailed [private]

6.21.4.16 `Date` `com.intel.openAttestation.manifest.hibernate.domain.AttestRequest.validateTime` `[private]`

6.22 `com.intel.openAttestation.AttestationService.resource.AttestService` Class Reference

Static Public Member Functions

- static `HashMap< Integer, String >` `generatePcrsByAuditId` (`AuditLog` auditlog)
- static boolean `isAllAttested` (`String` requestId)
- static `RespSyncBean` `getRespSyncResult` (`String` requestId)
- static `List< AttestRequest >` `getRequestsByReqId` (`String` requestId)
- static `AttestRequest` `loadRequest` (`Long` id)
- static boolean `ISV_Authentication_module` ()

Static Public Attributes

- static `Logger` `logger` = `Logger.getLogger("AttestService")`

6.22.1 Member Function Documentation

6.22.1.1 `static HashMap<Integer,String>` `com.intel.openAttestation.AttestationService.resource.AttestService.generatePcrsByAuditId` (`AuditLog` auditlog) `[static]`

Generates a hashMap of pcrs for a given auditlog. The hashMap key is pcr's number and value is pcr's value.

Parameters

<i>auditlog</i>	The object AuditLog of interest
-----------------	---------------------------------

Returns

Contain key-values of pcrs like {<'1','1111111111'>,<'2','11111111111111111111'>,...}.

6.22.1.2 `static List<AttestRequest>` `com.intel.openAttestation.AttestationService.resource.AttestService.getRequestsByReqId` (`String` requestId) `[static]`

Gets requests by specific requestId.

Parameters

<i>requestId</i>	The requestId of attestation request in table attest_request
------------------	--

Returns

The entries in table attest_request that match given requestId.

6.22.1.3 **POL Mod** `static RespSyncBean` `com.intel.openAttestation.AttestationService.resource.AttestService.getRespSyncResult` (`String` requestId) `[static]`

Gets synchronous result for a given requestId. Just get value from DB.

Modifications: The function adds two new element to the attestation response, URL and details. The first one is the location of report on OAT Portal; details contains analyses result.

Parameters

<i>requestId</i>	The requestId of attestation request in table attest_request
------------------	--

Returns

The object RespSyncBean that maps JSON of attestation response.

6.22.1.4 `static boolean com.intel.openAttestation.AttestationService.resource.AttestService.isAllAttested (String requestId)`
[static]

Decides whether all hosts has attested for a given requestId.

Parameters

<i>requestId</i>	The requestId of attestation request in table attest_request
------------------	--

Returns

True if all has attested, else false.

6.22.1.5 `static boolean com.intel.openAttestation.AttestationService.resource.AttestService.ISV_Authentication.module ()`
[static]

Authentication.

Returns

Always true.

6.22.1.6 `static AttestRequest com.intel.openAttestation.AttestationService.resource.AttestService.loadRequest (Long id)`
[static]

Gets newest request by id.

Parameters

<i>id</i>	The id of attestation request in table attest_request
-----------	---

Returns

The requested entry.

6.22.2 Member Data Documentation

6.22.2.1 `Logger com.intel.openAttestation.AttestationService.resource.AttestService.logger =`
`Logger.getLogger("AttestService")` [static]

6.23 gov.niarl.hisAppraiser.hibernate.util.AttestService Class Reference

Static Public Member Functions

- static [AttestRequest](#) [validatePCRReport](#) ([AttestRequest](#) attestRequest, String machineNameInput)

- static String [compareManifestPCR](#) (List< [PCRManifest](#) > manifestPcrs)
- static HashMap< Integer, String > [generatePcrsByAuditId](#) ([AuditLog](#) auditlog)

6.23.1 Member Function Documentation

6.23.1.1 static String [gov.niarl.hisAppraiser.hibernate.util.AttestService.compareManifestPCR](#) (List< [PCRManifest](#) > *manifestPcrs*) [static]

6.23.1.2 static HashMap<Integer,String> [gov.niarl.hisAppraiser.hibernate.util.AttestService.generatePcrsByAuditId](#) ([AuditLog](#) *auditlog*) [static]

generate a hashMap of pcrs for a given auditlog. The hashMap key is pcr's number and value is pcr's value.

Parameters

<i>auditlog</i>	of interest
-----------------	-------------

Returns

contain key-values of pcrs like {<'1','11111111111'>,<'2','111111111111111111111111111111'>,...}

6.23.1.3 static [AttestRequest](#) [gov.niarl.hisAppraiser.hibernate.util.AttestService.validatePCRReport](#) ([AttestRequest](#) *attestRequest*, String *machineNameInput*) [static]

validate PCR value of a request. Here is 4 cases, that is timeout, unknown, trusted and untrusted. case1 (timeout): attest's time is greater than default timeout of attesting from [OpenAttestation.properties](#). In generally, it is usually set as 60 seconds; case2 (unknown): machine is not enrolled in attest server. Just check whether active machine-Cert is existed. case3 (trusted): all hosts has attested and their pcrs has matched with [PCRManifest](#) table; case4 (untrusted): all hosts has attested, but their pcrs cannot match with [PCRManifest](#) table.

Parameters

<i>attestRequest</i>	of intending to validate.
----------------------	---------------------------

Returns

6.24 com.intel.openAttestation.AttestationService.util.AttestUtil Class Reference

Static Public Member Functions

- static void [loadProp](#) ()
- static Long [getDefaultAttestTimeout](#) ()
- static Long [getCheckAttestInterval](#) ()
- static synchronized String [generateRequestId](#) (String label)
- static ArrayList< Integer > [generatePcrSelectedPositions](#) (String PCRMask)
- static SortedSet< Integer > [getSelectedPCR](#) (byte input)

Static Private Attributes

- static String [PROPERTIES_NAME](#) = "OpenAttestationWebServices.properties"
- static Properties [attestationProperties](#) = new Properties()

- static Long [timeout](#)
- static Long [checkAttestInterval](#)

6.24.1 Member Function Documentation

- 6.24.1.1 static ArrayList<Integer> com.intel.openAttestation.AttestationService.util.AttestUtil.generatePcrSelectedPositions (String *PCRMask*) [static]
- 6.24.1.2 static synchronized String com.intel.openAttestation.AttestationService.util.AttestUtil.generateRequestId (String *label*) [static]
- 6.24.1.3 static Long com.intel.openAttestation.AttestationService.util.AttestUtil.getCheckAttestInterval () [static]
- 6.24.1.4 static Long com.intel.openAttestation.AttestationService.util.AttestUtil.getDefaultAttestTimeout () [static]
- 6.24.1.5 static SortedSet<Integer> com.intel.openAttestation.AttestationService.util.AttestUtil.getSelectedPCR (byte *input*) [static]

Get the sorted selected positions in a byte with the right most position as zero.

Parameters

<i>input</i>	Byte to be evaluated
--------------	----------------------

Returns

Array of integer positions.

- 6.24.1.6 static void com.intel.openAttestation.AttestationService.util.AttestUtil.loadProp () [static]

6.24.2 Member Data Documentation

- 6.24.2.1 Properties com.intel.openAttestation.AttestationService.util.AttestUtil.attestationProperties = new Properties() [static], [private]
- 6.24.2.2 Long com.intel.openAttestation.AttestationService.util.AttestUtil.checkAttestInterval [static], [private]
- 6.24.2.3 String com.intel.openAttestation.AttestationService.util.AttestUtil.PROPERTIES_NAME = "OpenAttestationWebServices.properties" [static], [private]
- 6.24.2.4 Long com.intel.openAttestation.AttestationService.util.AttestUtil.timeout [static], [private]

6.25 gov.niarl.hisAppraiser.hibernate.util.AttestUtil Class Reference

Static Public Member Functions

- static void [loadProp](#) ()
- static String [getManifestWebServicesUrl](#) ()
- static String [getTrustStore](#) ()
- static WebResource [getClient](#) (String url)
- static synchronized String [generateRequestId](#) (String label)
- static ArrayList< Integer > [generatePcrValidatedPositions](#) ()
- static ArrayList< Integer > [generatePcrSelectedPositions](#) (String PCRMask)
- static SortedSet< Integer > [getSelectedPCR](#) (byte input)

Static Private Attributes

- static String [manifestWSURL](#) = ""
- static String [trustStorePath](#) = ""
- static String [PROPERTIES_NAME](#) = "OpenAttestation.properties"
- static Properties [attestationProperties](#) = new Properties()

6.25.1 Member Function Documentation

6.25.1.1 `static ArrayList<Integer> gov.niarl.hisAppraiser.hibernate.util.AttestUtil.generatePcrSelectedPositions (String PCRMask)` [static]

6.25.1.2 `static ArrayList<Integer> gov.niarl.hisAppraiser.hibernate.util.AttestUtil.generatePcrValidatedPositions ()` [static]

get validated pcrs from HIS.properties

Returns

6.25.1.3 `static synchronized String gov.niarl.hisAppraiser.hibernate.util.AttestUtil.generateRequestId (String label)` [static]

6.25.1.4 `static WebResource gov.niarl.hisAppraiser.hibernate.util.AttestUtil.getClient (String url)` [static]

6.25.1.5 `static String gov.niarl.hisAppraiser.hibernate.util.AttestUtil.getManifestWebServicesUrl ()` [static]

6.25.1.6 `static SortedSet<Integer> gov.niarl.hisAppraiser.hibernate.util.AttestUtil.getSelectedPCR (byte input)` [static]

Get the sorted selected positions in a byte with the right most position as zero.

Parameters

<i>input</i>	Byte to be evaluated
--------------	----------------------

Returns

Array of integer positions.

6.25.1.7 `static String gov.niarl.hisAppraiser.hibernate.util.AttestUtil.getTrustStore ()` [static]

6.25.1.8 `static void gov.niarl.hisAppraiser.hibernate.util.AttestUtil.loadProp ()` [static]

6.25.2 Member Data Documentation

6.25.2.1 `Properties gov.niarl.hisAppraiser.hibernate.util.AttestUtil.attestationProperties = new Properties()` [static], [private]

6.25.2.2 `String gov.niarl.hisAppraiser.hibernate.util.AttestUtil.manifestWSURL = ""` [static], [private]

6.25.2.3 `String gov.niarl.hisAppraiser.hibernate.util.AttestUtil.PROPERTIES_NAME = "OpenAttestation.properties"` [static], [private]

6.25.2.4 String gov.niarl.hisAppraiser.hibernate.util.AttestUtil.trustStorePath = "" [static],[private]

6.26 gov.niarl.hisAppraiser.hibernate.domain.AuditLog Class Reference

Public Member Functions

- Long [getId](#) ()
- void [setId](#) (Long id)
- String [getSid](#) ()
- void [setSid](#) (String sid)
- String [getMachineName](#) ()
- void [setMachineName](#) (String machineName)
- Date [getTimestamp](#) ()
- void [setTimestamp](#) (Date timestamp)
- String [getPcr0](#) ()
- void [setPcr0](#) (String pcr0)
- String [getPcr1](#) ()
- void [setPcr1](#) (String pcr1)
- String [getPcr2](#) ()
- void [setPcr2](#) (String pcr2)
- String [getPcr3](#) ()
- void [setPcr3](#) (String pcr3)
- String [getPcr4](#) ()
- void [setPcr4](#) (String pcr4)
- String [getPcr5](#) ()
- void [setPcr5](#) (String pcr5)
- String [getPcr6](#) ()
- void [setPcr6](#) (String pcr6)
- String [getPcr7](#) ()
- void [setPcr7](#) (String pcr7)
- String [getPcr8](#) ()
- void [setPcr8](#) (String pcr8)
- String [getPcr9](#) ()
- void [setPcr9](#) (String pcr9)
- String [getPcr10](#) ()
- void [setPcr10](#) (String pcr10)
- String [getPcr11](#) ()
- void [setPcr11](#) (String pcr11)
- String [getPcr12](#) ()
- void [setPcr12](#) (String pcr12)
- String [getPcr13](#) ()
- void [setPcr13](#) (String pcr13)
- String [getPcr14](#) ()
- void [setPcr14](#) (String pcr14)
- String [getPcr15](#) ()
- void [setPcr15](#) (String pcr15)
- String [getPcr16](#) ()
- void [setPcr16](#) (String pcr16)
- String [getPcr17](#) ()
- void [setPcr17](#) (String pcr17)
- String [getPcr18](#) ()
- void [setPcr18](#) (String pcr18)
- String [getPcr19](#) ()
- void [setPcr19](#) (String pcr19)

- String [getPcr20](#) ()
- void [setPcr20](#) (String pcr20)
- String [getPcr21](#) ()
- void [setPcr21](#) (String pcr21)
- String [getPcr22](#) ()
- void [setPcr22](#) (String pcr22)
- String [getPcr23](#) ()
- void [setPcr23](#) (String pcr23)
- [MachineCert](#) [getMachine](#) ()
- void [setMachine](#) ([MachineCert](#) machine)
- String [getPcrSelect](#) ()
- void [setPcrSelect](#) (String pcrSelect)
- String [getNonce](#) ()
- void [setNonce](#) (String nonce)
- Boolean [getSignatureVerified](#) ()
- void [setSignatureVerified](#) (Boolean signatureVerified)
- String [getReport](#) ()
- void [setReport](#) (String report)
- String [getPreviousDifferences](#) ()
- void [setPreviousDifferences](#) (String previousDifferences)
- String [getReportErrors](#) ()
- void [setReportErrors](#) (String reportErrors)
- Integer [getNextMeasure](#) ()
- void [setNextMeasure](#) (Integer nextMeasure)
- Long [getFirstReport](#) ()
- void [setFirstReport](#) (Long firstReport)

6.26.1 Detailed Description

This class is required by Hibernate for mapping of table audit_log.

Author

syelama

Version

Crossbow

6.26.2 Member Function Documentation

6.26.2.1 **POL New** Long gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getFirstReport ()

Gets the current value of field first_report in table audit_log.

Returns

The value of field first_report.

6.26.2.2 Long gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getId ()

Gets the current value of field id in table audit_log.

Returns

The value of field id.

6.26.2.3 MachineCert gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getMachine ()

Gets the current value of field machine_id in table audit_log.

Returns

The object [MachineCert](#) the maps field machine_id.

6.26.2.4 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getMachineName ()

Gets the current value of field machine_name in table audit_log.

Returns

The value of field machine_name.

6.26.2.5 Integer gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getNextMeasure ()

Gets the current value of field next_measure in table audit_log.

Returns

The value of field next_measure.

6.26.2.6 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getNonce ()

Gets the current value of field nonce in table audit_log.

Returns

The value of field nonce.

6.26.2.7 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr0 ()

Gets the current value of field pcr0 in table audit_log.

Returns

The value of field pcr0.

6.26.2.8 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr1 ()

Gets the current value of field pcr1 in table audit_log.

Returns

The value of field pcr1.

6.26.2.9 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr10 ()

Gets the current value of field pcr10 in table audit_log.

Returns

The value of field pcr10.

6.26.2.10 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr11 ()

Gets the current value of field pcr11 in table audit_log.

Returns

The value of field pcr11.

6.26.2.11 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr12 ()

Gets the current value of field pcr12 in table audit_log.

Returns

The value of field pcr12.

6.26.2.12 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr13 ()

Gets the current value of field pcr13 in table audit_log.

Returns

The value of field pcr13.

6.26.2.13 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr14 ()

Gets the current value of field pcr14 in table audit_log.

Returns

The value of field pcr14.

6.26.2.14 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr15 ()

Gets the current value of field pcr15 in table audit_log.

Returns

The value of field pcr15.

6.26.2.15 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr16 ()

Gets the current value of field pcr16 in table audit_log.

Returns

The value of field pcr16.

6.26.2.16 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr17 ()

Gets the current value of field pcr17 in table audit_log.

Returns

The value of field pcr17.

6.26.2.17 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr18 ()

Gets the current value of field pcr18 in table audit_log.

Returns

The value of field pcr18.

6.26.2.18 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr19 ()

Gets the current value of field pcr19 in table audit_log.

Returns

The value of field pcr19.

6.26.2.19 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr2 ()

Gets the current value of field pcr2 in table audit_log.

Returns

The value of field pcr2.

6.26.2.20 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr20 ()

Gets the current value of field pcr20 in table audit_log.

Returns

The value of field pcr20.

6.26.2.21 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr21 ()

Gets the current value of field pcr21 in table audit_log.

Returns

The value of field pcr21.

6.26.2.22 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr22 ()

Gets the current value of field pcr22 in table audit_log.

Returns

The value of field pcr22.

6.26.2.23 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr23 ()

Gets the current value of field pcr23 in table audit_log.

Returns

The value of field pcr23.

6.26.2.24 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr3 ()

Gets the current value of field pcr3 in table audit_log.

Returns

The value of field pcr3.

6.26.2.25 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr4 ()

Gets the current value of field pcr4 in table audit_log.

Returns

The value of field pcr4.

6.26.2.26 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr5 ()

Gets the current value of field pcr5 in table audit_log.

Returns

The value of field pcr5.

6.26.2.27 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr6 ()

Gets the current value of field pcr6 in table audit_log.

Returns

The value of field pcr6.

6.26.2.28 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr7 ()

Gets the current value of field pcr7 in table audit_log.

Returns

The value of field pcr7.

6.26.2.29 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr8 ()

Gets the current value of field pcr8 in table audit_log.

Returns

The value of field pcr8.

6.26.2.30 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcr9 ()

Gets the current value of field pcr9 in table audit_log.

Returns

The value of field pcr9.

6.26.2.31 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPcrSelect ()

Gets the current value of field pcr_select in table audit_log.

Returns

The value of field pcr_select.

6.26.2.32 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getPreviousDifferences ()

Gets the current value of field previous_differences in table audit_log.

Returns

The value of field previous_differences.

6.26.2.33 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getReport ()

Gets the current value of field report in table audit_log.

Returns

The value of field report.

6.26.2.34 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getReportErrors ()

Gets the current value of field report_errors in table audit_log.

Returns

The value of field report_errors.

6.26.2.35 String gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getSid ()

Gets the current value of field sid in table audit_log.

Returns

The value of field sid.

6.26.2.36 Boolean gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getSignatureVerified ()

Gets the current value of field signature_verified in table audit_log.

Returns

The value of field signature_verified.

6.26.2.37 Date gov.niarl.hisAppraiser.hibernate.domain.AuditLog.getTimestamp ()

Gets the current value of field timestamp in table audit_log.

Returns

The value of field timestamp.

6.26.2.38 **POL New** void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setFirstReport (Long *firstReport*)

Sets the value of field first_report in table audit_log.

Parameters

<i>firstReport</i>	The value of field first_report
--------------------	---------------------------------

6.26.2.39 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setId (Long *id*)

Sets the value of field id in table audit_log.

Parameters

<i>id</i>	The value of field id
-----------	-----------------------

6.26.2.40 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setMachine (MachineCert *machine*)

Sets the value of field machine_id in table audit_log.

Parameters

<i>machine</i>	The object MachineCert the maps field machine_id
----------------	--

6.26.2.41 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setMachineName (String *machineName*)

Sets the value of field machine_name in table audit_log.

Parameters

<i>machineName</i>	The value of field machine_name
--------------------	---------------------------------

6.26.2.42 **POL New** void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setNextMeasure (Integer *nextMeasure*)

Sets the value of field next_measure in table audit_log.

Parameters

<i>nextMeasure</i>	The value of field next_measure
--------------------	---------------------------------

6.26.2.43 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setNonce (String *nonce*)

Sets the value of field nonce in table audit_log.

Parameters

<i>nonce</i>	The value of field nonce
--------------	--------------------------

6.26.2.44 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr0 (String *pcr0*)

Sets the value of field pcr0 in table audit_log.

Parameters

<i>pcr0</i>	The value of field pcr0
-------------	-------------------------

6.26.2.45 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr1 (String *pcr1*)

Sets the value of field pcr1 in table audit_log.

Parameters

<i>pcr1</i>	The value of field pcr1
-------------	-------------------------

6.26.2.46 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr10 (String *pcr10*)

Sets the value of field pcr10 in table audit_log.

Parameters

<i>pcr10</i>	The value of field pcr10
--------------	--------------------------

6.26.2.47 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr11 (String *pcr11*)

Sets the value of field pcr11 in table audit_log.

Parameters

<i>pcr11</i>	The value of field pcr11
--------------	--------------------------

6.26.2.48 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr12 (String *pcr12*)

Sets the value of field pcr12 in table audit_log.

Parameters

<i>pcr12</i>	The value of field pcr12
--------------	--------------------------

6.26.2.49 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr13 (String *pcr13*)

Sets the value of field pcr13 in table audit_log.

Parameters

<i>pcr13</i>	The value of field pcr13
--------------	--------------------------

6.26.2.50 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr14 (String *pcr14*)

Sets the value of field pcr14 in table audit_log.

Parameters

<i>pcr14</i>	The value of field pcr14
--------------	--------------------------

6.26.2.51 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr15 (String *pcr15*)

Sets the value of field pcr15 in table audit_log.

Parameters

<i>pcr15</i>	The value of field pcr15
--------------	--------------------------

6.26.2.52 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr16 (String *pcr16*)

Sets the value of field pcr16 in table audit_log.

Parameters

<i>pcr16</i>	The value of field pcr16
--------------	--------------------------

6.26.2.53 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr17 (String *pcr17*)

Sets the value of field pcr17 in table audit_log.

Parameters

<i>pcr17</i>	The value of field pcr17
--------------	--------------------------

6.26.2.54 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr18 (String *pcr18*)

Sets the value of field pcr18 in table audit_log.

Parameters

<i>pcr18</i>	The value of field pcr18
--------------	--------------------------

6.26.2.55 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr19 (String *pcr19*)

Sets the value of field pcr19 in table audit_log.

Parameters

<i>pcr19</i>	The value of field pcr19
--------------	--------------------------

6.26.2.56 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr2 (String *pcr2*)

Sets the value of field pcr2 in table audit_log.

Parameters

<i>pcr2</i>	The value of field pcr2
-------------	-------------------------

6.26.2.57 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr20 (String *pcr20*)

Sets the value of field pcr20 in table audit_log.

Parameters

<i>pcr20</i>	The value of field pcr20
--------------	--------------------------

6.26.2.58 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr21 (String *pcr21*)

Sets the value of field pcr21 in table audit_log.

Parameters

<i>pcr21</i>	The value of field pcr21
--------------	--------------------------

6.26.2.59 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr22 (String *pcr22*)

Sets the value of field pcr22 in table audit_log.

Parameters

<i>pcr22</i>	The value of field pcr22
--------------	--------------------------

6.26.2.60 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr23 (String *pcr23*)

Sets the value of field pcr23 in table audit_log.

Parameters

<i>pcr23</i>	The value of field pcr23
--------------	--------------------------

6.26.2.61 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr3 (String *pcr3*)

Sets the value of field pcr3 in table audit_log.

Parameters

<i>pcr3</i>	The value of field pcr3
-------------	-------------------------

6.26.2.62 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr4 (String *pcr4*)

Sets the value of field pcr4 in table audit_log.

Parameters

<i>pcr4</i>	The value of field pcr4
-------------	-------------------------

6.26.2.63 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr5 (String *pcr5*)

Sets the value of field pcr5 in table audit_log.

Parameters

<i>pcr5</i>	The value of field pcr5
-------------	-------------------------

6.26.2.64 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr6 (String *pcr6*)

Sets the value of field pcr6 in table audit_log.

Parameters

<i>pcr6</i>	The value of field pcr6
-------------	-------------------------

6.26.2.65 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr7 (String *pcr7*)

Sets the value of field pcr7 in table audit_log.

Parameters

<i>pcr7</i>	The value of field pcr7
-------------	-------------------------

6.26.2.66 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr8 (String *pcr8*)

Sets the value of field pcr8 in table audit_log.

Parameters

<i>pcr8</i>	The value of field pcr8
-------------	-------------------------

6.26.2.67 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcr9 (String *pcr9*)

Sets the value of field pcr9 in table audit_log.

Parameters

<i>pcr9</i>	The value of field pcr9
-------------	-------------------------

6.26.2.68 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPcrSelect (String *pcrSelect*)

Sets the value of field pcr_select in table audit_log.

Parameters

<i>pcrSelect</i>	The value of field pcr_select
------------------	-------------------------------

6.26.2.69 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setPreviousDifferences (String *previousDifferences*)

Sets the value of field previous_differences in table audit_log.

Parameters

<i>previous-Differences</i>	The value of field previous_differences
-----------------------------	---

6.26.2.70 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setReport (String *report*)

Sets the value of field report in table audit_log.

Parameters

<i>report</i>	The value of field report
---------------	---------------------------

6.26.2.71 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setReportErrors (String *reportErrors*)

Sets the value of field report_errors in table audit_log.

Parameters

<i>reportErrors</i>	The value of field report_errors
---------------------	----------------------------------

6.26.2.72 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setSid (String *sid*)

Sets the value of field sid in table audit_log.

Parameters

<i>sid</i>	The value of field sid
------------	------------------------

6.26.2.73 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setSignatureVerified (Boolean *signatureVerified*)

Sets the value of field signature_verified in table audit_log.

Parameters

<i>signatureVerified</i>	The value of field signature_verified
--------------------------	---------------------------------------

6.26.2.74 void gov.niarl.hisAppraiser.hibernate.domain.AuditLog.setTimestamp (Date *timestamp*)

Sets the value of field timestamp in table audit_log.

Parameters

<i>timestamp</i>	The value of field timestamp
------------------	------------------------------

6.27 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.ByteArray Class Reference

Public Member Functions

- byte[] [getBytes](#) ()
- void [setBytes](#) (byte[] value)

Protected Attributes

- byte[] [bytes](#)

6.27.1 Detailed Description

Java class for byteArray complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="byteArray">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="bytes" type="{http://www.w3.org/2001/XMLSchema}base64Binary" minOccurs="0"/>
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

6.27.2 Member Function Documentation

6.27.2.1 `byte [] gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.ByteArray.getBytes ()`

Gets the value of the bytes property.

Returns

possible object is byte[]

6.27.2.2 `void gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.ByteArray.setBytes (byte[] value)`

Sets the value of the bytes property.

Parameters

<i>value</i>	allowed object is byte[]
--------------	--------------------------

6.27.3 Member Data Documentation

6.27.3.1 `byte [] gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.ByteArray.bytes` [protected]

6.28 gov.niarl.his.webservices.hisPrivacyCAWebService2.server.ByteArray Class Reference

Public Member Functions

- [ByteArray](#) ()
- [ByteArray](#) (byte[] bytes)
- byte[] [getBytes](#) ()
- void [setBytes](#) (byte[] bytes)

6.28.1 Constructor & Destructor Documentation

6.28.1.1 `gov.niarl.his.webservices.hisPrivacyCAWebService2.server.ByteArray.ByteArray ()`

6.28.1.2 `gov.niarl.his.webservices.hisPrivacyCAWebService2.server.ByteArray.ByteArray (byte[] bytes)`

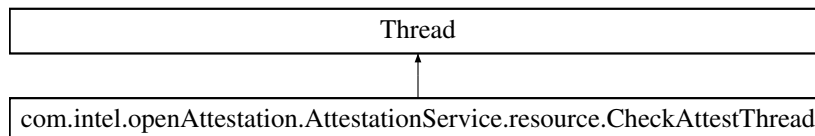
6.28.2 Member Function Documentation

6.28.2.1 `byte [] gov.niarl.his.webservices.hisPrivacyCAWebService2.server.ByteArray.getBytes ()`

6.28.2.2 `void gov.niarl.his.webservices.hisPrivacyCAWebService2.server.ByteArray.setBytes (byte[] bytes)`

6.29 com.intel.openAttestation.AttestationService.resource.CheckAttestThread Class Reference

Inheritance diagram for com.intel.openAttestation.AttestationService.resource.CheckAttestThread:



Public Member Functions

- `CheckAttestThread` (String `requestId`)
- `void run` ()
- `void checkAttest` (String `requestId`)

Private Attributes

- String `requestId`
- boolean `running` = true

Static Private Attributes

- static Logger `logger` = `Logger.getLogger("OpenAttestation")`

6.29.1 Constructor & Destructor Documentation

6.29.1.1 `com.intel.openAttestation.AttestationService.resource.CheckAttestThread.CheckAttestThread (String requestId)`

6.29.2 Member Function Documentation

6.29.2.1 `void com.intel.openAttestation.AttestationService.resource.CheckAttestThread.checkAttest (String requestId)`

6.29.2.2 `void com.intel.openAttestation.AttestationService.resource.CheckAttestThread.run ()`

6.29.3 Member Data Documentation

6.29.3.1 `Logger com.intel.openAttestation.AttestationService.resource.CheckAttestThread.logger = Logger.getLogger("OpenAttestation")` [static], [private]

6.29.3.2 `String com.intel.openAttestation.AttestationService.resource.CheckAttestThread.requestId` [private]

6.29.3.3 `boolean com.intel.openAttestation.AttestationService.resource.CheckAttestThread.running = true` [private]

6.30 com.intel.openAttestation.AttestationService.util.CommonUtil Class Reference

Static Public Member Functions

- static synchronized String [generateRequestId](#) (String label)
- static int [getIntFromAction](#) (Action action)
- static boolean [validLength](#) (HashMap parameters)

Static Private Attributes

- static HashMap< Action, Integer > [actionIntegerHashMap](#) = new HashMap<Action, Integer>()

6.30.1 Member Function Documentation

6.30.1.1 static synchronized String com.intel.openAttestation.AttestationService.util.CommonUtil.generateRequestId (String *label*) [static]

6.30.1.2 static int com.intel.openAttestation.AttestationService.util.CommonUtil.getIntFromAction (Action *action*) [static]

Converts an Action enumeration into the related integer.

Parameters

<i>action</i>	Enumeration value.
---------------	--------------------

Returns

Integer related to the enumeration.

6.30.1.3 static boolean com.intel.openAttestation.AttestationService.util.CommonUtil.validLength (HashMap *parameters*) [static]

6.30.2 Member Data Documentation

6.30.2.1 HashMap<Action, Integer> com.intel.openAttestation.AttestationService.util.CommonUtil.actionIntegerHashMap = new HashMap<Action, Integer>() [static], [private]

6.31 gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest Class Reference

Public Member Functions

- Long [getIndex](#) ()
- void [setIndex](#) (Long *index*)
- String [getCompName](#) ()
- void [setCompName](#) (String *compName*)
- String [getCompValue](#) ()
- void [setCompValue](#) (String *compValue*)
- String [getCompDesc](#) ()
- void [setCompDesc](#) (String *compDesc*)
- Date [getCreateTime](#) ()
- void [setCreateTime](#) (Date *createTime*)
- String [getCreateRequestHost](#) ()

- void [setCreateRequestHost](#) (String [createRequestHost](#))
- Date [getLastUpdateTime](#) ()
- void [setLastUpdateTime](#) (Date [lastUpdateTime](#))
- String [getLastUpdateRequestHost](#) ()
- void [setLastUpdateRequestHost](#) (String [lastUpdateRequestHost](#))

Private Attributes

- Long [index](#)
- String [compName](#)
- String [compValue](#)
- String [compDesc](#)
- Date [createTime](#)
- String [createRequestHost](#)
- Date [lastUpdateTime](#)
- String [lastUpdateRequestHost](#)

6.31.1 Member Function Documentation

- 6.31.1.1 String [gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.getCompDesc](#) ()
- 6.31.1.2 String [gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.getCompName](#) ()
- 6.31.1.3 String [gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.getCompValue](#) ()
- 6.31.1.4 String [gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.getCreateRequestHost](#) ()
- 6.31.1.5 Date [gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.getCreateTime](#) ()
- 6.31.1.6 Long [gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.getIndex](#) ()
- 6.31.1.7 String [gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.getLastUpdateRequestHost](#) ()
- 6.31.1.8 Date [gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.getLastUpdateTime](#) ()
- 6.31.1.9 void [gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.setCompDesc](#) (String [compDesc](#))
- 6.31.1.10 void [gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.setCompName](#) (String [compName](#))
- 6.31.1.11 void [gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.setCompValue](#) (String [compValue](#))
- 6.31.1.12 void [gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.setCreateRequestHost](#) (String [createRequestHost](#))
- 6.31.1.13 void [gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.setCreateTime](#) (Date [createTime](#))
- 6.31.1.14 void [gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.setIndex](#) (Long [index](#))
- 6.31.1.15 void [gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.setLastUpdateRequestHost](#) (String [lastUpdateRequestHost](#))
- 6.31.1.16 void [gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.setLastUpdateTime](#) (Date [lastUpdateTime](#))

6.31.2 Member Data Documentation

- 6.31.2.1 String gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.compDesc [private]
- 6.31.2.2 String gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.compName [private]
- 6.31.2.3 String gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.compValue [private]
- 6.31.2.4 String gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.createRequestHost [private]
- 6.31.2.5 Date gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.createTime [private]
- 6.31.2.6 Long gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.index [private]
- 6.31.2.7 String gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.lastUpdateRequestHost [private]
- 6.31.2.8 Date gov.niarl.hisAppraiser.hibernate.domain.ComponentManifest.lastUpdateTime [private]

6.32 gov.niarl.hisAppraiser.Constants Class Reference

Static Public Attributes

- static final [AlertConfiguration](#) [ALERT_CONFIGURATION](#) = new [AlertConfiguration](#)(ALERT_MASK_CSV == null ? "0":ALERT_MASK_CSV)
- static final String [PCR_SELECT](#) = [getProperty](#)("PCR_SELECT")
- static final Properties [MAIL_SERVER_PROPERTIES](#) = [Emailer.parseMailServerProperties](#)([getProperties](#)())
- static final InetAddress[] [ALERT_MESSAGE_TO](#) = [Emailer.parseDefaultAlertMessageTo](#)([getProperty](#)("alert.message.to"))
- static final String [ALERT_MESSAGE_SUBJECT](#) = [getProperty](#)("alert.message.subject")
- static final String [ALERT_MESSAGE_BODY](#) = [getProperty](#)("alert.message.body")

Static Private Member Functions

- static Properties [loadProperties](#) (String file)
- static Properties [getProperties](#) ()
- static String [getProperty](#) (String key)

Static Private Attributes

- static Logger [logger](#) = [Logger.getLogger](#)(Constants.class)
- static Properties [properties](#) = [loadProperties](#)("/etc/oat-appraiser/OAT.properties")

6.32.1 Member Function Documentation

- 6.32.1.1 static Properties gov.niarl.hisAppraiser.Constants.[getProperties](#) () [static], [private]

Return the entire properties object created above.

Returns

6.32.1.2 `static String gov.niarl.hisAppraiser.Constants.getProperty (String key) [static],[private]`

Retrieve a property using the property name.

Parameters

<i>key</i>	Property name.
------------	----------------

Returns

property value.

6.32.1.3 `static Properties gov.niarl.hisAppraiser.Constants.loadProperties (String file) [static],[private]`

Creates properties object from file name.

6.32.2 Member Data Documentation

6.32.2.1 `final AlertConfiguration gov.niarl.hisAppraiser.Constants.ALERT_CONFIGURATION = new AlertConfiguration(ALERT_MASK_CSV == null ? "0":ALERT_MASK_CSV) [static]`

6.32.2.2 `final String gov.niarl.hisAppraiser.Constants.ALERT_MESSAGE_BODY = getProperty("alert.message.body") [static]`

Body of the default email.

6.32.2.3 `final String gov.niarl.hisAppraiser.Constants.ALERT_MESSAGE_SUBJECT = getProperty("alert.message.subject") [static]`

Subject of the default email.

6.32.2.4 `final InetAddress [] gov.niarl.hisAppraiser.Constants.ALERT_MESSAGE_TO = Emler.parseDefaultAlertMessageTo(getProperty("alert.message.to")) [static]`

List of addresses to which to send administrative email.

6.32.2.5 `Logger gov.niarl.hisAppraiser.Constants.logger = Logger.getLogger(Constants.class) [static],[private]`

6.32.2.6 `final Properties gov.niarl.hisAppraiser.Constants.MAIL_SERVER_PROPERTIES = Emler.parseMailServer-Properties(getProperties()) [static]`

JavaMail API Mail Properties

6.32.2.7 `final String gov.niarl.hisAppraiser.Constants.PCR_SELECT = getProperty("PCR.SELECT") [static]`

Determines the PCR select for integrity reports.

6.32.2.8 `Properties gov.niarl.hisAppraiser.Constants.properties = loadProperties("/etc/oat-appraiser/OAT.properties") [static],[private]`

Create properties object using location of properties file.

6.33 gov.niarl.hisAppraiser.util.Emailer Class Reference

Static Public Member Functions

- static Properties [parseMailServerProperties](#) (Properties completeProperties)
- static InetAddress[] [parseDefaultAlertMessageTo](#) (String defaultAlertMessageTo)
- static void [sendDefaultAlertEmail](#) ()

6.33.1 Detailed Description

This class is a central location for dealing with email functionality.

Author

syelama

Version

Crossbow

6.33.2 Member Function Documentation

6.33.2.1 static InetAddress [] gov.niarl.hisAppraiser.util.Emailer.parseDefaultAlertMessageTo (String defaultAlertMessageTo) [static]

Constructs an array of InetAddress from a property containing a comma separated list.

Parameters

<i>defaultAlert-MessageTo</i>	Comma separated list of email "to" addresses.
-------------------------------	---

Returns

An array of InetAddress to be used to send email.

6.33.2.2 static Properties gov.niarl.hisAppraiser.util.Emailer.parseMailServerProperties (Properties completeProperties) [static]

Extracts properties for mail configuration.

Parameters

<i>complete-Properties</i>	
----------------------------	--

Returns

A subset of properties containing mail configuration.

6.33.2.3 static void gov.niarl.hisAppraiser.util.Emailer.sendDefaultAlertEmail () [static]

Send a general purpose email set from text properties.

6.34 gov.niarl.sal.webservices.hisWebServices.clientWslImport.EnrollHisMachine Class Reference

Public Member Functions

- String [getMachineName](#) ()
- void [setMachineName](#) (String value)
- String [getMachineCertPEM](#) ()
- void [setMachineCertPEM](#) (String value)

Protected Attributes

- String [machineName](#)
- String [machineCertPEM](#)

6.34.1 Detailed Description

Java class for enrollHisMachine complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="enrollHisMachine">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="machineName" type="{http://www.w3.org/2001/XMLSchema}string" minOccurs="0"/>
        <element name="machineCertPEM" type="{http://www.w3.org/2001/XMLSchema}string" minOccurs="0"/>
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

6.34.2 Member Function Documentation

6.34.2.1 String gov.niarl.sal.webservices.hisWebServices.clientWslImport.EnrollHisMachine.getMachineCertPEM ()

Gets the value of the machineCertPEM property.

Returns

possible object is [String](#)

6.34.2.2 String gov.niarl.sal.webservices.hisWebServices.clientWslImport.EnrollHisMachine.getMachineName ()

Gets the value of the machineName property.

Returns

possible object is [String](#)

6.34.2.3 void gov.niarl.sal.webservices.hisWebServices.clientWsImport.EnrollHisMachine.setMachineCertPEM (String *value*)

Sets the value of the machineCertPEM property.

Parameters

<i>value</i>	allowed object is String
--------------	--

6.34.2.4 void gov.niarl.sal.webservices.hisWebServices.clientWsImport.EnrollHisMachine.setMachineName (String *value*)

Sets the value of the machineName property.

Parameters

<i>value</i>	allowed object is String
--------------	--

6.34.3 Member Data Documentation

6.34.3.1 String gov.niarl.sal.webservices.hisWebServices.clientWsImport.EnrollHisMachine.machineCertPEM
[protected]

6.34.3.2 String gov.niarl.sal.webservices.hisWebServices.clientWsImport.EnrollHisMachine.machineName [protected]

6.35 gov.niarl.sal.webservices.hisWebServices.clientWsImport.EnrollHisMachineResponse Class Reference

6.35.1 Detailed Description

Java class for enrollHisMachineResponse complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="enrollHisMachineResponse">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

6.36 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.GetHisPrivacyCAWebService2 Class Reference

6.36.1 Detailed Description

Java class for getHisPrivacyCAWebService2 complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="getHisPrivacyCAWebService2">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
```

```
</sequence>
</restriction>
</complexContent>
</complexType>
```

6.37 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.GetHisPrivacyCAWebService2Response Class Reference

Public Member Functions

- W3CEndpointReference [getReturn](#) ()
- void [setReturn](#) (W3CEndpointReference value)

Protected Attributes

- W3CEndpointReference [_return](#)

6.37.1 Detailed Description

Java class for getHisPrivacyCAWebService2Response complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="getHisPrivacyCAWebService2Response">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="return" type="{http://www.w3.org/2005/08/addressing}EndpointReferenceType" />
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

6.37.2 Member Function Documentation

6.37.2.1 W3CEndpointReference gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.GetHisPrivacyCAWebService2Response.getReturn ()

Gets the value of the return property.

Returns

possible object is [W3CEndpointReference](#)

6.37.2.2 void gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.GetHisPrivacyCAWebService2Response.setReturn (W3CEndpointReference value)

Sets the value of the return property.

Parameters

<i>value</i>	allowed object is W3CEndpointReference
--------------	--

6.37.3 Member Data Documentation

- 6.37.3.1 **W3CEndpointReference** `gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.GetHisPrivacyCAWebService2Response._return` [protected]

6.38 **gov.niarl.sal.webservices.hisWebServices.clientWsImport.GetHisWebService** Class Reference

6.38.1 Detailed Description

Java class for getHisWebService complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="getHisWebService">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

6.39 **gov.niarl.sal.webservices.hisWebServices.clientWsImport.GetHisWebServiceResponse** Class Reference

Public Member Functions

- W3CEndpointReference [getReturn](#) ()
- void [setReturn](#) (W3CEndpointReference value)

Protected Attributes

- W3CEndpointReference [_return](#)

6.39.1 Detailed Description

Java class for getHisWebServiceResponse complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="getHisWebServiceResponse">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="return" type="{http://www.w3.org/2005/08/addressing}EndpointReferenceType" />
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

6.39.2 Member Function Documentation

6.39.2.1 W3CEndpointReference gov.niarl.sal.webservices.hisWebServices.clientWslImport.GetHisWebServiceResponse.getReturn ()

Gets the value of the return property.

Returns

possible object is [W3CEndpointReference](#)

6.39.2.2 void gov.niarl.sal.webservices.hisWebServices.clientWslImport.GetHisWebServiceResponse.setReturn (W3CEndpointReference value)

Sets the value of the return property.

Parameters

<i>value</i>	allowed object is W3CEndpointReference
--------------	--

6.39.3 Member Data Documentation

6.39.3.1 W3CEndpointReference gov.niarl.sal.webservices.hisWebServices.clientWslImport.GetHisWebServiceResponse._return [protected]

6.40 gov.niarl.sal.webservices.hisWebServices.clientWslImport.GetNextAction Class Reference

Public Member Functions

- String [getMachineName](#) ()
- void [setMachineName](#) (String value)

Protected Attributes

- String [machineName](#)

6.40.1 Detailed Description

Java class for getNextAction complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="getNextAction">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="machineName" type="{http://www.w3.org/2001/XMLSchema}string" minOccurs="0"/>
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

6.40.2 Member Function Documentation

6.40.2.1 String gov.niarl.sal.webservices.hisWebServices.clientWsImport.GetNextAction.getMachineName ()

Gets the value of the machineName property.

Returns

possible object is [String](#)

6.40.2.2 void gov.niarl.sal.webservices.hisWebServices.clientWsImport.GetNextAction.setMachineName (String value)

Sets the value of the machineName property.

Parameters

<i>value</i>	allowed object is String
--------------	--

6.40.3 Member Data Documentation

6.40.3.1 String gov.niarl.sal.webservices.hisWebServices.clientWsImport.GetNextAction.machineName [protected]

6.41 gov.niarl.sal.webservices.hisWebServices.clientWsImport.GetNextActionResponse Class Reference

Public Member Functions

- [ActionDelay getNextAction](#) ()
- void [setNextAction](#) ([ActionDelay](#) value)

Protected Attributes

- [ActionDelay nextAction](#)

6.41.1 Detailed Description

Java class for getNextActionResponse complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="getNextActionResponse">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="nextAction" type="{http://server.hisWebService.webservices.sal.niarl.gov/}" />
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

6.41.2 Member Function Documentation

6.41.2.1 ActionDelay gov.niarl.sal.webservices.hisWebServices.clientWsImport.GetNextActionResponse.getNextAction ()

Gets the value of the nextAction property.

Returns

possible object is [ActionDelay](#)

6.41.2.2 void gov.niarl.sal.webservices.hisWebServices.clientWsImport.GetNextActionResponse.setNextAction ([ActionDelay](#) value)

Sets the value of the nextAction property.

Parameters

value	allowed object is ActionDelay
-------	---

6.41.3 Member Data Documentation

6.41.3.1 [ActionDelay](#) gov.niarl.sal.webservices.hisWebServices.clientWsImport.GetNextActionResponse.nextAction
[protected]

6.42 gov.niarl.sal.webservices.hisWebServices.clientWsImport.GetNonce Class Reference**Public Member Functions**

- String [getMachineName](#) ()
- void [setMachineName](#) (String value)
- String [getUserName](#) ()
- void [setUserName](#) (String value)

Protected Attributes

- String [machineName](#)
- String [userName](#)

6.42.1 Detailed Description

Java class for getNonce complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="getNonce">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="machineName" type="{http://www.w3.org/2001/XMLSchema}string" minOccurs="0"/>
        <element name="userName" type="{http://www.w3.org/2001/XMLSchema}string" minOccurs="0"/>
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

6.42.2 Member Function Documentation

6.42.2.1 String gov.niarl.sal.webservices.hisWebServices.clientWslImport.GetNonce.getMachineName ()

Gets the value of the machineName property.

Returns

possible object is [String](#)

6.42.2.2 String gov.niarl.sal.webservices.hisWebServices.clientWslImport.GetNonce.getUserName ()

Gets the value of the userName property.

Returns

possible object is [String](#)

6.42.2.3 void gov.niarl.sal.webservices.hisWebServices.clientWslImport.GetNonce.setMachineName (String value)

Sets the value of the machineName property.

Parameters

<i>value</i>	allowed object is String
--------------	--

6.42.2.4 void gov.niarl.sal.webservices.hisWebServices.clientWslImport.GetNonce.setUserName (String value)

Sets the value of the userName property.

Parameters

<i>value</i>	allowed object is String
--------------	--

6.42.3 Member Data Documentation

6.42.3.1 String gov.niarl.sal.webservices.hisWebServices.clientWslImport.GetNonce.machineName [protected]

6.42.3.2 String gov.niarl.sal.webservices.hisWebServices.clientWslImport.GetNonce.userName [protected]

6.43 gov.niarl.sal.webservices.hisWebServices.clientWslImport.GetNonceResponse Class Reference

Public Member Functions

- [NonceSelect](#) [getNonceSelect](#) ()
- void [setNonceSelect](#) ([NonceSelect](#) value)

Protected Attributes

- [NonceSelect](#) [nonceSelect](#)

6.43.1 Detailed Description

Java class for getNonceResponse complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="getNonceResponse">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="nonceSelect" type="{http://server.hisWebService.webservices.sal.niarl.gov/}" />
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

6.43.2 Member Function Documentation

6.43.2.1 NonceSelect gov.niarl.sal.webservices.hisWebServices.clientWslImport.GetNonceResponse.getNonceSelect ()

Gets the value of the nonceSelect property.

Returns

possible object is [NonceSelect](#)

6.43.2.2 void gov.niarl.sal.webservices.hisWebServices.clientWslImport.GetNonceResponse.setNonceSelect (NonceSelect value)

Sets the value of the nonceSelect property.

Parameters

<i>value</i>	allowed object is NonceSelect
--------------	---

6.43.3 Member Data Documentation

6.43.3.1 NonceSelect gov.niarl.sal.webservices.hisWebServices.clientWslImport.GetNonceResponse.nonceSelect [protected]

6.44 com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis Class Reference

Static Public Member Functions

- static SessionFactory [getSessionFactory](#) ()
- static Configuration [getConfiguration](#) ()
- static void [rebuildSessionFactory](#) () throws OATException
- static void [rebuildSessionFactory](#) (Configuration cfg) throws OATException
- static Session [getSession](#) () throws OATException
- static void [closeSession](#) () throws OATException
- static void [beginTransaction](#) () throws OATException
- static void [commitTransaction](#) () throws OATException
- static void [rollbackTransaction](#) () throws OATException

- static void [reconnect](#) (Session session) throws OATException
- static Session [disconnectSession](#) () throws OATException
- static void [registerInterceptor](#) (Interceptor interceptor)

Static Private Member Functions

- static Interceptor [getInterceptor](#) ()

Static Private Attributes

- static Log [log](#) = LogFactory.getLog(HibernateUtilHis.class)
- static Configuration [configuration](#)
- static SessionFactory [sessionFactory](#)
- static final ThreadLocal [threadSession](#) = new ThreadLocal()
- static final ThreadLocal [threadTransaction](#) = new ThreadLocal()
- static final ThreadLocal [threadInterceptor](#) = new ThreadLocal()

6.44.1 Detailed Description

Basic Hibernate helper class, handles SessionFactory, Session and Transaction.

Uses a static initializer for the initial SessionFactory creation and holds Session and Transactions in thread local variables. All exceptions are wrapped in an unchecked InfrastructureException.

Author

christian@hibernate.org

6.44.2 Member Function Documentation

6.44.2.1 static void `com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.beginTransaction ()` throws **OATException** `[static]`

Start a new database transaction.

6.44.2.2 static void `com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.closeSession ()` throws **OATException** `[static]`

Closes the Session local to the thread.

6.44.2.3 static void `com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.commitTransaction ()` throws **OATException** `[static]`

Commit the database transaction.

6.44.2.4 static Session `com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.disconnectSession ()` throws **OATException** `[static]`

Disconnect and return Session from current Thread.

Returns

Session the disconnected Session

6.44.2.5 **static Configuration** com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.getConfiguration ()
[static]

Returns the original Hibernate configuration.

Returns

Configuration

6.44.2.6 **static Interceptor** com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.getInterceptor ()
[static], [private]

6.44.2.7 **static Session** com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.getSession () throws
OATException [static]

Retrieves the current Session local to the thread.

If no Session is open, opens a new Session for the running thread.

Returns

Session

6.44.2.8 **static SessionFactory** com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.getSessionFactory ()
[static]

Returns the SessionFactory used for this static class.

Returns

SessionFactory

6.44.2.9 **static void** com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.rebuildSessionFactory ()
throws **OATException** [static]

Rebuild the SessionFactory with the static Configuration.

6.44.2.10 **static void** com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.rebuildSessionFactory (
Configuration *cfg*) throws **OATException** [static]

Rebuild the SessionFactory with the given Hibernate Configuration.

Parameters

<i>cfg</i>	
------------	--

6.44.2.11 **static void** com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.reconnect (Session *session*)
throws **OATException** [static]

Reconnects a Hibernate Session to the current Thread.

Parameters

<i>session</i>	The Hibernate Session to be reconnected.
----------------	--

6.44.2.12 `static void com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.registerInterceptor (Interceptor interceptor) [static]`

Register a Hibernate interceptor with the current thread.

Every Session opened is opened with this interceptor after registration. Has no effect if the current Session of the thread is already open, effective on next close()/getSession().

6.44.2.13 `static void com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.rollbackTransaction () throws OATException [static]`

Commit the database transaction.

6.44.3 Member Data Documentation

6.44.3.1 `Configuration com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.configuration [static], [private]`

6.44.3.2 `Log com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.log = LoggerFactory.getLog(HibernateUtilHis.class) [static], [private]`

6.44.3.3 `SessionFactory com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.sessionFactory [static], [private]`

6.44.3.4 `final ThreadLocal com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.threadInterceptor = new ThreadLocal() [static], [private]`

6.44.3.5 `final ThreadLocal com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.threadSession = new ThreadLocal() [static], [private]`

6.44.3.6 `final ThreadLocal com.intel.openAttestation.AttestationService.hibernate.util.HibernateUtilHis.threadTransaction = new ThreadLocal() [static], [private]`

6.45 com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis Class Reference

Static Public Member Functions

- static SessionFactory [getSessionFactory](#) ()
- static Configuration [getConfiguration](#) ()
- static void [rebuildSessionFactory](#) () throws OATException
- static void [rebuildSessionFactory](#) (Configuration cfg) throws OATException
- static Session [getSession](#) () throws OATException
- static void [closeSession](#) () throws OATException
- static void [beginTransaction](#) () throws OATException
- static void [commitTransaction](#) () throws OATException
- static void [rollbackTransaction](#) () throws OATException
- static void [reconnect](#) (Session session) throws OATException
- static Session [disconnectSession](#) () throws OATException
- static void [registerInterceptor](#) (Interceptor interceptor)
- static boolean [validLength](#) (HashMap parameters)

Static Private Member Functions

- static `Interceptor` [getInterceptor](#) ()

Static Private Attributes

- static `Log` [log](#) = `LogFactory.getLog(HibernateUtilHis.class)`
- static `Configuration` [configuration](#)
- static `SessionFactory` [sessionFactory](#)
- static final `ThreadLocal` [threadSession](#) = new `ThreadLocal()`
- static final `ThreadLocal` [threadTransaction](#) = new `ThreadLocal()`
- static final `ThreadLocal` [threadInterceptor](#) = new `ThreadLocal()`

6.45.1 Detailed Description

Basic Hibernate helper class, handles SessionFactory, Session and Transaction.

Uses a static initializer for the initial SessionFactory creation and holds Session and Transactions in thread local variables. All exceptions are wrapped in an unchecked InfrastructureException.

Author

christian@hibernate.org

6.45.2 Member Function Documentation

6.45.2.1 `static void com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.beginTransaction () throws OATException` `[static]`

Start a new database transaction.

6.45.2.2 `static void com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.closeSession () throws OATException` `[static]`

Closes the Session local to the thread.

6.45.2.3 `static void com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.commitTransaction () throws OATException` `[static]`

Commit the database transaction.

6.45.2.4 `static Session com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.disconnectSession () throws OATException` `[static]`

Disconnect and return Session from current Thread.

Returns

Session the disconnected Session

6.45.2.5 static Configuration `com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.getConfiguration ()`
[static]

Returns the original Hibernate configuration.

Returns

Configuration

6.45.2.6 static Interceptor `com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.getInterceptor ()` [static],
[private]

6.45.2.7 static Session `com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.getSession ()` throws
OATException [static]

Retrieves the current Session local to the thread.

If no Session is open, opens a new Session for the running thread.

Returns

Session

6.45.2.8 static SessionFactory `com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.getSessionFactory ()`
[static]

Returns the SessionFactory used for this static class.

Returns

SessionFactory

6.45.2.9 static void `com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.rebuildSessionFactory ()` throws
OATException [static]

Rebuild the SessionFactory with the static Configuration.

6.45.2.10 static void `com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.rebuildSessionFactory (Configuration`
`cfg)` throws **OATException** [static]

Rebuild the SessionFactory with the given Hibernate Configuration.

Parameters

<i>cfg</i>	
------------	--

6.45.2.11 static void `com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.reconnect (Session session)` throws
OATException [static]

Reconnects a Hibernate Session to the current Thread.

Parameters

<i>session</i>	The Hibernate Session to be reconnected.
----------------	--

6.45.2.12 **static void** `com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.registerInterceptor (Interceptor interceptor)` `[static]`

Register a Hibernate interceptor with the current thread.

Every Session opened is opened with this interceptor after registration. Has no effect if the current Session of the thread is already open, effective on next close()/getSession().

6.45.2.13 **static void** `com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.rollbackTransaction ()` throws **OATException** `[static]`

Commit the database transaction.

6.45.2.14 **static boolean** `com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.validLength (HashMap parameters)` `[static]`

6.45.3 Member Data Documentation

6.45.3.1 **Configuration** `com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.configuration` `[static]`, `[private]`

6.45.3.2 **Log** `com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.log = LoggerFactory.getLog(HibernateUtilHis.class)` `[static]`, `[private]`

6.45.3.3 **SessionFactory** `com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.sessionFactory` `[static]`, `[private]`

6.45.3.4 **final ThreadLocal** `com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.threadInterceptor = new ThreadLocal()` `[static]`, `[private]`

6.45.3.5 **final ThreadLocal** `com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.threadSession = new ThreadLocal()` `[static]`, `[private]`

6.45.3.6 **final ThreadLocal** `com.intel.openAttestation.manifest.hibernate.util.HibernateUtilHis.threadTransaction = new ThreadLocal()` `[static]`, `[private]`

6.46 gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis Class Reference

Static Public Member Functions

- static SessionFactory [getSessionFactory](#) ()
- static Configuration [getConfiguration](#) ()
- static void [rebuildSessionFactory](#) () throws OATException
- static void [rebuildSessionFactory](#) (Configuration cfg) throws OATException
- static Session [getSession](#) () throws OATException
- static void [closeSession](#) () throws OATException
- static void [beginTransaction](#) () throws OATException
- static void [commitTransaction](#) () throws OATException
- static void [rollbackTransaction](#) () throws OATException
- static void [reconnect](#) (Session session) throws OATException

- static Session [disconnectSession](#) () throws OATException
- static void [registerInterceptor](#) (Interceptor interceptor)

Static Private Member Functions

- static Interceptor [getInterceptor](#) ()

Static Private Attributes

- static Log [log](#) = LogFactory.getLog(HibernateUtilHis.class)
- static Configuration [configuration](#)
- static SessionFactory [sessionFactory](#)
- static final ThreadLocal [threadSession](#) = new ThreadLocal()
- static final ThreadLocal [threadTransaction](#) = new ThreadLocal()
- static final ThreadLocal [threadInterceptor](#) = new ThreadLocal()

6.46.1 Detailed Description

Basic Hibernate helper class, handles SessionFactory, Session and Transaction.

Uses a static initializer for the initial SessionFactory creation and holds Session and Transactions in thread local variables. All exceptions are wrapped in an unchecked InfrastructureException.

Author

christian@hibernate.org

6.46.2 Member Function Documentation

6.46.2.1 static void `gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.beginTransaction ()` throws OATException
[static]

Start a new database transaction.

6.46.2.2 static void `gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.closeSession ()` throws OATException
[static]

Closes the Session local to the thread.

6.46.2.3 static void `gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.commitTransaction ()` throws OATException
[static]

Commit the database transaction.

6.46.2.4 static Session `gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.disconnectSession ()` throws OATException
[static]

Disconnect and return Session from current Thread.

Returns

Session the disconnected Session

6.46.2.5 **static Configuration** gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.getConfigurati**on** () [static]

Returns the original Hibernate configuration.

Returns

Configuration

6.46.2.6 **static Interceptor** gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.getIntercept**or** () [static],
[private]

6.46.2.7 **static Session** gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.getSession () throws **OATException**
[static]

Retrieves the current Session local to the thread.

If no Session is open, opens a new Session for the running thread.

Returns

Session

6.46.2.8 **static SessionFactory** gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.getSessionFact**ory** () [static]

Returns the SessionFactory used for this static class.

Returns

SessionFactory

6.46.2.9 **static void** gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.rebuildSessionFact**ory** () throws **OATException**
[static]

Rebuild the SessionFactory with the static Configuration.

6.46.2.10 **static void** gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.rebuildSessionFact**ory** (Configuration *cfg*) throws
OATException [static]

Rebuild the SessionFactory with the given Hibernate Configuration.

Parameters

<i>cfg</i>	
------------	--

6.46.2.11 **static void** gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.reconnect (Session *session*) throws
OATException [static]

Reconnects a Hibernate Session to the current Thread.

Parameters

<i>session</i>	The Hibernate Session to be reconnected.
----------------	--

6.46.2.12 `static void gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.registerInterceptor (Interceptor interceptor)`
`[static]`

Register a Hibernate interceptor with the current thread.

Every Session opened is opened with this interceptor after registration. Has no effect if the current Session of the thread is already open, effective on next close()/getSession().

6.46.2.13 `static void gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.rollbackTransaction () throws OATException`
`[static]`

Commit the database transaction.

6.46.3 Member Data Documentation

6.46.3.1 Configuration `gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.configuration` `[static], [private]`

6.46.3.2 Log `gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.log = LoggerFactory.getLog(HibernateUtilHis.class)`
`[static], [private]`

6.46.3.3 SessionFactory `gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.sessionFactory` `[static], [private]`

6.46.3.4 final ThreadLocal `gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.threadInterceptor = new ThreadLocal()`
`[static], [private]`

6.46.3.5 final ThreadLocal `gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.threadSession = new ThreadLocal()`
`[static], [private]`

6.46.3.6 final ThreadLocal `gov.niarl.hisAppraiser.hibernate.util.HibernateUtilHis.threadTransaction = new ThreadLocal()`
`[static], [private]`

6.47 gov.niarl.hisAppraiser.hibernate.dao.HisAuditDao Class Reference

Public Member Functions

- [HisAuditDao](#) ()
- void [saveAuditLog](#) ([AuditLog](#) auditLog)
- Alerts [createAlert](#) ([AuditLog](#) auditLog)
- [AuditLog](#) [getAuditLog](#) (int id)
- [AuditLog](#) [getPreviousAuditLog](#) (String machineName, Long id)
- [AuditLog](#) [getLastAuditLog](#) (String machineName)
- int [getAuditLogCount](#) ()
- List< [AuditLog](#) > [getAuditLogPageWithOrder](#) (int order, int firstResult, int maxResults)

6.47.1 Detailed Description

This class serves as a central location for updates and queries against the AuditLog table

Author

syelama

Version

Crossbow

6.47.2 Constructor & Destructor Documentation

6.47.2.1 gov.niarl.hisAppraiser.hibernate.dao.HisAuditDao.HisAuditDao ()

Constructor to start a hibernate transaction in case one has not already been started

6.47.3 Member Function Documentation

6.47.3.1 Alerts gov.niarl.hisAppraiser.hibernate.dao.HisAuditDao.createAlert (AuditLog auditLog)

Create a new alert linked to an AuditLog entry

Parameters

<i>auditLog</i>	AuditLog linked by foreign key
-----------------	--------------------------------

Returns

return the newly created alert

6.47.3.2 AuditLog gov.niarl.hisAppraiser.hibernate.dao.HisAuditDao.getAuditLog (int id)

Retrieve an AuditLog entry based on the primary key

Parameters

<i>id</i>	The id or primary key of the needed AuditLog entry
-----------	--

Returns

The AuditLog entry retrieved from the database

6.47.3.3 int gov.niarl.hisAppraiser.hibernate.dao.HisAuditDao.getAuditLogCount ()

Total count of integrity reports.

Returns

Total count of integrity reports.

6.47.3.4 List< AuditLog > gov.niarl.hisAppraiser.hibernate.dao.HisAuditDao.getAuditLogPageWithOrder (int order, int firstResult, int maxResults)

Retrieve a list of AuditLog entries beginning with

Parameters

<i>order</i>	Integer 0,1 indicated whether to sort by machine name or by time stamp
<i>firstResult</i>	The first result in a set of thousands of results.
<i>maxResults</i>	Maximum number of results to return.

Returns

List of AuditLog entries retrieved from the database.

6.47.3.5 AuditLog gov.niarl.hisAppraiser.hibernate.dao.HisAuditDao.getLastAuditLog (String *machineName*)

Returns the last audit log from a machine or null if none exists.

Parameters

<i>machineName</i>	Name of the machine for which a previous comparison is required
--------------------	---

Returns

The last audit log from a machine or null if none exists.

6.47.3.6 AuditLog gov.niarl.hisAppraiser.hibernate.dao.HisAuditDao.getPreviousAuditLog (String *machineName*, Long *id*)

Based on a id retrieve an AuditLog prior to that id.

Parameters

<i>machineName</i>	The machine for which the previous AuditLog is needed
<i>date</i>	The date prior to which an AuditLog must be retrieved.

Returns

Previous AuditLog or null if none exists

6.47.3.7 void gov.niarl.hisAppraiser.hibernate.dao.HisAuditDao.saveAuditLog (AuditLog *auditLog*)

This saves an AuditLog making sure that the time stamp is current and the machine name is lower case

Parameters

<i>auditLog</i>	AuditLog entry to save
-----------------	------------------------

6.48 gov.niarl.sal.webservices.hisWebService.server.HisEnrollmentWebService Class Reference

Public Member Functions

- void [enrollHisMachine](#) (@WebParam(name="machineName") String machineName,@WebParam(name="machine-CertPEM") String machineCertPEM)

6.48.1 Detailed Description

The [HisEnrollmentWebService](#) enrolls clients into the machine table and enables integrity reports to be received and validated from the client.

Author

syelama

Version

Crossbow

6.48.2 Member Function Documentation

6.48.2.1 void gov.niarl.sal.webservices.hisWebService.server.HisEnrollmentWebService.enrollHisMachine (@WebParam(name="machineName") String *machineName*, @WebParam(name="machineCertPEM") String *machineCertPEM*)

Enrolls a machine.

Parameters

<i>machineName</i>	Name of the machine to be enrolled.
<i>machineCertPEM</i>	Machine AIK certificate used for integrity reports.

6.49 gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisEnrollmentWebService Interface Reference

Public Member Functions

- void [enrollHisMachine](#) (@WebParam(name="machineName", targetNamespace="") String *machineName*, @WebParam(name="machineCertPEM", targetNamespace="") String *machineCertPEM*)

6.49.1 Detailed Description

This class was generated by the JAX-WS RI. JAX-WS RI 2.1.7-b01- Generated source version: 2.1

6.49.2 Member Function Documentation

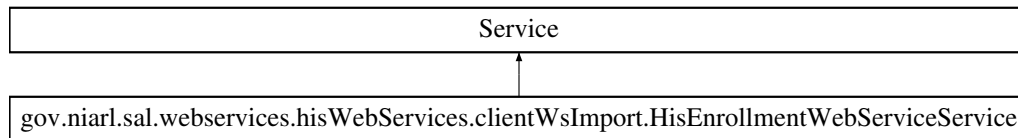
6.49.2.1 void gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisEnrollmentWebService.enrollHisMachine (@WebParam(name="machineName", targetNamespace="") String *machineName*, @WebParam(name="machineCertPEM", targetNamespace="") String *machineCertPEM*)

Parameters

<i>machineName</i>	
<i>machineCertPEM</i>	

6.50 gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisEnrollmentWebServiceService Class Reference

Inheritance diagram for gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisEnrollmentWebServiceService:



Public Member Functions

- [HisEnrollmentWebServiceService](#) (URL wsdlLocation, QName serviceName)
- [HisEnrollmentWebServiceService](#) ()
- [HisEnrollmentWebService](#) getHisEnrollmentWebServicePort ()
- [HisEnrollmentWebService](#) getHisEnrollmentWebServicePort (WebServiceFeature...features)

Static Private Attributes

- static final URL [HISENROLLMENTWEBSERVICESERVICE_WSDL_LOCATION](#)
- static final Logger [logger](#) = Logger.getLogger(gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisEnrollmentWebServiceService.class.getName())

6.50.1 Detailed Description

This class was generated by the JAX-WS RI. JAX-WS RI 2.1.7-b01- Generated source version: 2.1

6.50.2 Constructor & Destructor Documentation

6.50.2.1 `gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisEnrollmentWebServiceService.HisEnrollmentWebServiceService (URL wsdlLocation, QName serviceName)`

6.50.2.2 `gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisEnrollmentWebServiceService.HisEnrollmentWebServiceService ()`

6.50.3 Member Function Documentation

6.50.3.1 `HisEnrollmentWebService gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisEnrollmentWebServiceService.getHisEnrollmentWebServicePort ()`

Returns

returns [HisEnrollmentWebService](#)

6.50.3.2 `HisEnrollmentWebService gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisEnrollmentWebServiceService.getHisEnrollmentWebServicePort (WebServiceFeature... features)`

Parameters

<i>features</i>	A list of javax.xml.ws.WebServiceFeature to configure on the proxy. Supported features not in the <i>features</i> parameter will have their default values.
-----------------	---

Returns

returns [HisEnrollmentWebService](#)

6.50.4 Member Data Documentation

- 6.50.4.1 final URL gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisEnrollmentWebServiceService.HISENROLLMENTWEBSERVICESEVICE_WSDL_LOCATION [static], [private]
- 6.50.4.2 final Logger gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisEnrollmentWebServiceService.logger = Logger.getLogger(gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisEnrollmentWebServiceService.class.getName()) [static], [private]

6.51 gov.niarl.his.privacyca.HisIdentityProvisioner Class Reference

Static Public Member Functions

- static void [main](#) (String[] args)

6.51.1 Detailed Description

This is part 2 of 3 for fully provisioning HIS on a Windows client. This part provisions the identity key (AIK) and certificate (AIC) for a HIS client. **Prior to running this client, the [HisTpmProvisioner](#) must be run. Following this client, the [HisRegisterIdentity](#) must be run.**

This class utilizes the TpmModuleJava class, which depends on the NTRU TCS Service running SOAP services on TCP port 30003. Because of the NTRU requirement, this class will not work with Linux using TrouSerS.

This class utilizes a properties file. It looks for a file by the name of "HISprovisioner.properties" in the directory from which Java was invoked.

The following values must be in the properties file:

- **TpmOwnerAuth** This must be a 40 digit (20 byte) hex code representing the owner auth data which was assigned during TPM provisioning. Owner auth is required for generating a new AIK.
- **HisIdentityLabel** This is the name (text string) that will appear as the Alternate Subject Name, as requested to the Privacy CA.
- **HisIdentityIndex** This is an integer (generally 1) that will be used for storing the AIK. The HIS Standalone will need to know this value.
- **HisIdentityAuth** This must be a 40 digit (20 byte) hex code representing the auth data to be assigned for the AIK. The HIS Standalone will need to know this value.
- **PrivacyCaCertFile** This must be the path to and name of the Privacy CA's certificate. The public key in this certificate will be what is used to encrypt the Identity Request, so it must match the key used by the Privacy CA.
- **PrivacyCaUrl** This is the entire path to the Privacy CA web service. This class assumes the use of His-PrivacyCAWebServices2.
- **TrustStore** This is the path to and name of the trust store used to encrypt the web service connection. This file must be provided by the web server hosting the Privacy CA.
- **ClientPath** This is the path for the HIS client installation. The AIC (aic.cer) file will be placed there.

If there are problems with the properties file, context-specific errors will be shown, and an exit code of 99 will be returned.

If the path specified by the ClientPath variable in the properties file cannot be created, an exit code of 2 will be returned.

If there are any problems encountered when running the main function, the stack trace will be displayed and an exit code of 1 will be returned.

If the program runs successfully, an error code of 0 will be returned.

This application assumes the the WELL KNOWN AUTH VALUE (20 bytes of zeros) is used as the SRK auth value! Though this is normal, a TPM which was owned using version 1 of the NIARL_TPM_Module or using some other low level tool may not be using this auth value.

Once the AIC is received from the Privacy CA, it is placed at **c:.cer**.

Author

schawki

6.51.2 Member Function Documentation

6.51.2.1 static void gov.niarl.his.privacyca.HisIdentityProvisioner.main (String[] args) [static]

Entry point into the program. See class description for required properties file elements.

6.52 gov.niarl.his.HisListener Class Reference

Public Member Functions

- [HisListener](#) (String path) throws Exception

Static Public Member Functions

- static void [main](#) (String[] args)

Static Public Attributes

- static Logger [s_logger](#) = Logger.getLogger("HIS")
- static final String [TRUST_STORE_LABEL](#) = "TrustStore"
- static final String [SOCKET_PORT_LABEL](#) = "SocketListnerPort"
- static final String [DEFAULT_SOCKET_PORT](#) = "8888"
- static final String [DEFAULT_HIS_PATH](#) = "/OAT/"
- static final String [PROPERTIES_NAME](#) = "OAT.properties"
- static final String [PROPERTIES_EXTENSION](#) = ".properties"
- static final String [DEFAULT_STATE_MESSAGE](#) = "100"
- static final String [SUCCESS_MESSAGE](#) = "success"

Private Member Functions

- void [listen](#) ()

6.52.1 Detailed Description

This serves as a wrapper for the normal HIS Client that recieves a socket connection from the HIS server and triggers HIS to obtain and send a quote via the normal methods.

Deprecated Functionality replaced by the On Demand web service polling method, but left as an example alternate On Demand method.

Author

mcbrotz

6.52.2 Constructor & Destructor Documentation

6.52.2.1 gov.niarl.his.HisListener.HisListener (String *path*) throws Exception

Begins a new HIS Listner process.

Parameters

<i>path</i>	Path that the HIS Client is running in (same path parameter used in standard HIS Client)
-------------	--

Exceptions

<i>java.lang.Exception</i>	
----------------------------	--

6.52.3 Member Function Documentation

6.52.3.1 void gov.niarl.his.HisListener.listen () [private]

Perpetually loops, listening for and acting upon connections

6.52.3.2 static void gov.niarl.his.HisListener.main (String[] *args*) [static]

Parameters

<i>args</i>	the command line arguments
-------------	----------------------------

The first parameter is the working directory.

6.52.4 Member Data Documentation

6.52.4.1 final String gov.niarl.his.HisListener.DEFAULT_HIS_PATH = "/OAT/" [static]

6.52.4.2 final String gov.niarl.his.HisListener.DEFAULT_SOCKET_PORT = "8888" [static]

6.52.4.3 final String gov.niarl.his.HisListener.DEFAULT_STATE_MESSAGE = "100" [static]

6.52.4.4 final String gov.niarl.his.HisListener.PROPERTIES_EXTENSION = ".properties" [static]

6.52.4.5 final String gov.niarl.his.HisListener.PROPERTIES_NAME = "OAT.properties" [static]

6.52.4.6 Logger gov.niarl.his.HisListener.s_logger = Logger.getLogger("HIS") [static]

6.52.4.7 final String gov.niarl.his.HisListener.SOCKET_PORT_LABEL = "SocketListnerPort" [static]

6.52.4.8 final String gov.niarl.his.HisListener.SUCCESS_MESSAGE = "success" [static]

6.52.4.9 final String gov.niarl.his.HisListener.TRUST_STORE_LABEL = "TrustStore" [static]

6.53 gov.niarl.hisAppraiser.hibernate.dao.HisMachineCertDao Class Reference

Public Member Functions

- [HisMachineCertDao](#) ()
- [MachineCert getMachineCert](#) (String machineName)
- [MachineCert createMachineCert](#) (String machineName, String machineCertPEM)
- X509Certificate [getPrivacyCaCert](#) ()
- [MachineCert getPrivacyCaMachineCert](#) ()
- X509Certificate [getMachineCertX509Certificate](#) (String machineName)
- List< [MachineCert](#) > [getMachineCertAllWithOrder](#) (int order)
- [MachineCert getMachineCert](#) (int id)

6.53.1 Detailed Description

This class serves as a central location for updates and queries against the MachineCert table

Author

syelama

Version

Crossbow

6.53.2 Constructor & Destructor Documentation

6.53.2.1 `gov.niarl.hisAppraiser.hibernate.dao.HisMachineCertDao.HisMachineCertDao ()`

Constructor to start a hibernate transaction in case one has not already been started

6.53.3 Member Function Documentation

6.53.3.1 `MachineCert gov.niarl.hisAppraiser.hibernate.dao.HisMachineCertDao.createMachineCert (String machineName, String machineCertPEM)`

Create a new MachineCert entry and de-activate the previous entry.

Parameters

<i>machineName</i>	Machine name for the new entry.
<i>machineCertPEM</i>	Machine certificate fro the new entry in PEM format.

Returns

The newly created entry.

6.53.3.2 `MachineCert gov.niarl.hisAppraiser.hibernate.dao.HisMachineCertDao.getMachineCert (String machineName)`

Obtain the active MachineCert row for a given machine name.

Parameters

<i>machineName</i>	Name of the machine of interest.
--------------------	----------------------------------

Returns

The MachineCert entry or null if the machine name has no active registrations

6.53.3.3 MachineCert gov.niarl.hisAppraiser.hibernate.dao.HisMachineCertDao.getMachineCert (int *id*)

Retrieve a MachineCert entry based on the primary key.

Parameters

<i>id</i>	The id, primary key.
-----------	----------------------

Returns

Entry from the MachineCert table.

6.53.3.4 List<MachineCert> gov.niarl.hisAppraiser.hibernate.dao.HisMachineCertDao.getMachineCertAllWithOrder (int *order*)

Retrieve an ordered list of machines.

Parameters

<i>order</i>	Currently only one order, machine name.
--------------	---

Returns

List of entries from the MachineCert table.

6.53.3.5 X509Certificate gov.niarl.hisAppraiser.hibernate.dao.HisMachineCertDao.getMachineCertX509Certificate (String *machineName*)

Retrieve the certificate enrolled for a machine by machine name.

Parameters

<i>machineName</i>	The machine name.
--------------------	-------------------

Returns

Certificate in X509 format.

6.53.3.6 X509Certificate gov.niarl.hisAppraiser.hibernate.dao.HisMachineCertDao.getPrivacyCaCert ()

Retrieve the certificate of the privacy CA

Returns

Certificate in X509 format.

6.53.3.7 MachineCert gov.niarl.hisAppraiser.hibernate.dao.HisMachineCertDao.getPrivacyCaMachineCert ()

Retrieve the active privacy CA entry in the MachineCert table.

Returns

The entry from the MachineCert table.

6.54 gov.niarl.sal.webservices.hisWebService.server.HisPollingWebService Class Reference

Public Member Functions

- [ActionDelay getNextAction](#) (@WebParam(name="machineName") String machineName)

Static Private Attributes

- static Logger [logger](#) = Logger.getLogger(HisPollingWebService.class)

6.54.1 Detailed Description

The [HisPollingWebService](#) answers clients polls with their next actions.

Author

syelama

Version

Crossbow

6.54.2 Member Function Documentation

- 6.54.2.1 **POL Mod** [ActionDelay gov.niarl.sal.webservices.hisWebService.server.HisPollingWebService.getNextAction](#) (@WebParam(name="machineName") String *machineName*)

This function returns the pending action to machines and resets the fields in the database.

Modifications: The property args of object ActionDelay is filled with next measure that OAT expects to receive from the machine.

Parameters

<i>machineName</i>	Name of the machine
--------------------	---------------------

Returns

An object containing information about the action to be taken.

6.54.3 Member Data Documentation

- 6.54.3.1 [Logger gov.niarl.sal.webservices.hisWebService.server.HisPollingWebService.logger](#) = [Logger.getLogger\(HisPollingWebService.class\)](#) [static], [private]

6.55 gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisPollingWebService Interface Reference

Public Member Functions

- [ActionDelay getNextAction](#) (@WebParam(name="machineName", targetNamespace="") String machineName)

6.55.1 Detailed Description

This class was generated by the JAX-WS RI. JAX-WS RI 2.1.7-b01- Generated source version: 2.1

6.55.2 Member Function Documentation

6.55.2.1 [ActionDelay](#) gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisPollingWebServiceService.getNextAction (@WebParam(name="machineName", targetNamespace="") String *machineName*)

Parameters

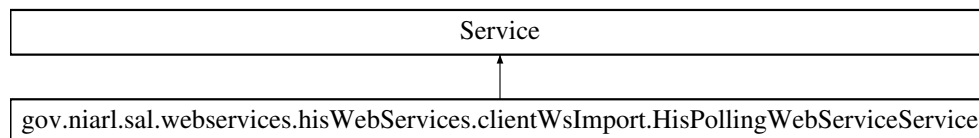
<i>machineName</i>	
--------------------	--

Returns

returns [gov.niarl.sal.webservices.hisWebServices.clientWsImport.ActionDelay](#)

6.56 gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisPollingWebServiceService Class Reference

Inheritance diagram for gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisPollingWebServiceService:



Public Member Functions

- [HisPollingWebServiceService](#) (URL wsdlLocation, QName serviceName)
- [HisPollingWebServiceService](#) ()
- [HisPollingWebServiceService](#) getHisPollingWebServicePort ()
- [HisPollingWebServiceService](#) getHisPollingWebServicePort (WebServiceFeature...features)

Static Private Attributes

- static final URL [HISPOLLINGWEBSERVICESERVICE_WSDL_LOCATION](#)
- static final Logger [logger](#) = Logger.getLogger(gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisPollingWebServiceService.class.getName())

6.56.1 Detailed Description

This class was generated by the JAX-WS RI. JAX-WS RI 2.1.7-b01- Generated source version: 2.1

6.56.2 Constructor & Destructor Documentation

6.56.2.1 `gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisPollingWebServiceService.HisPollingWebServiceService (URL wsdlLocation, QName serviceName)`

6.56.2.2 `gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisPollingWebServiceService.HisPollingWebServiceService ()`

6.56.3 Member Function Documentation

6.56.3.1 `HisPollingWebService` `gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisPollingWebServiceService.-getHisPollingWebServicePort ()`

Returns

returns [HisPollingWebService](#)

6.56.3.2 `HisPollingWebService` `gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisPollingWebServiceService.getHisPollingWebServicePort (WebServiceFeature... features)`

Parameters

<i>features</i>	A list of javax.xml.ws.WebServiceFeature to configure on the proxy. Supported features not in the <i>features</i> parameter will have their default values.
-----------------	---

Returns

returns [HisPollingWebService](#)

6.56.4 Member Data Documentation

6.56.4.1 `final URL` `gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisPollingWebServiceService.HISPOLLINGWEBSE-RVICESERVICE_WSDL_LOCATION` `[static], [private]`

6.56.4.2 `final Logger` `gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisPollingWebServiceService.logger = Logger.getLogger(gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisPollingWebServiceService.class.getName())` `[static], [private]`

6.57 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.HisPrivacyCAWebService2 Interface Reference

Public Member Functions

- `ByteArray` `identityRequestGetChallenge` (`@WebParam(name="identityRequest", targetNamespace="")` `ByteArray` *identityRequest*, `@WebParam(name="endorsementCertificate", targetNamespace="")` `ByteArray` *endorsementCertificate*)
- `ByteArray` `identityRequestSubmitResponse` (`@WebParam(name="identityRequestResponseToChallenge", targetNamespace="")` `ByteArray` *identityRequestResponseToChallenge*)
- `ByteArray` `requestGetEC` (`@WebParam(name="encryptedEkMod", targetNamespace="")` `ByteArray` *encryptedEkMod*, `@WebParam(name="arg1", targetNamespace="")` `ByteArray` *arg1*, `@WebParam(name="arg2", targetNamespace="")` `int` *arg2*)

6.57.1 Detailed Description

This class was generated by the JAX-WS RI. JAX-WS RI 2.1.7-b01- Generated source version: 2.1

6.57.2 Member Function Documentation

6.57.2.1 **ByteArray** gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.HisPrivacyCAWebService2.identityRequestGetChallenge (@WebParam(name="identityRequest", targetNamespace="") **ByteArray** *identityRequest*, @WebParam(name="endorsementCertificate", targetNamespace="") **ByteArray** *endorsementCertificate*)

Parameters

<i>endorsement-Certificate</i>	
<i>identityRequest</i>	

Returns

returns [gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.ByteArray](#)

6.57.2.2 **ByteArray** gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.HisPrivacyCAWebService2.identityRequestSubmitResponse (@WebParam(name="identityRequestResponseToChallenge", targetNamespace="") **ByteArray** *identityRequestResponseToChallenge*)

Parameters

<i>identityRequest-ResponseTo-Challenge</i>	
---	--

Returns

returns [gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.ByteArray](#)

6.57.2.3 **ByteArray** gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.HisPrivacyCAWebService2.-requestGetEC (@WebParam(name="encryptedEkMod", targetNamespace="") **ByteArray** *encryptedEkMod*, @WebParam(name="arg1", targetNamespace="") **ByteArray** *arg1*, @WebParam(name="arg2", targetNamespace="") **int** *arg2*)

Parameters

<i>arg2</i>	
<i>arg1</i>	
<i>encryptedEkMod</i>	

Returns

returns [gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.ByteArray](#)

6.58 gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2 Class Reference

Public Member Functions

- [ByteArray](#) [identityRequestGetChallenge](#) (@WebParam(name="identityRequest") [ByteArray](#) identityRequest, @WebParam(name="endorsementCertificate") [ByteArray](#) endorsementCertificate)
- [ByteArray](#) [identityRequestSubmitResponse](#) (@WebParam(name="identityRequestResponseToChallenge") [ByteArray](#) identityRequestResponseToChallenge)
- [ByteArray](#) [requestGetEC](#) (@WebParam(name="encryptedEkMod") [ByteArray](#) encryptedEkMod, [ByteArray](#) encryptedSessionKey, int ecValidDays)

Static Public Member Functions

- static
StatefulWebServiceManager
< [HisPrivacyCAWebService2](#) > [getManager](#) ()
- static void [setManager](#) (StatefulWebServiceManager< [HisPrivacyCAWebService2](#) > [manager](#))

Static Public Attributes

- static
StatefulWebServiceManager
< [HisPrivacyCAWebService2](#) > [manager](#)

6.58.1 Member Function Documentation

- 6.58.1.1 static StatefulWebServiceManager<HisPrivacyCAWebService2> gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2.getManager () [static]
- 6.58.1.2 [ByteArray](#) gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2.identityRequestGetChallenge (@WebParam(name="identityRequest") [ByteArray](#) *identityRequest*, @WebParam(name="endorsementCertificate") [ByteArray](#) *endorsementCertificate*)
- 6.58.1.3 [ByteArray](#) gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2.identityRequestSubmitResponse (@WebParam(name="identityRequestResponseToChallenge") [ByteArray](#) *identityRequestResponseToChallenge*)
- 6.58.1.4 [ByteArray](#) gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2.requestGetEC (@WebParam(name="encryptedEkMod") [ByteArray](#) *encryptedEkMod*, [ByteArray](#) *encryptedSessionKey*, int *ecValidDays*)
- 6.58.1.5 static void gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2.setManager (StatefulWebServiceManager< [HisPrivacyCAWebService2](#) > *manager*) [static]

6.58.2 Member Data Documentation

- 6.58.2.1 StatefulWebServiceManager<HisPrivacyCAWebService2> gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2.manager [static]

Needed for stateful web services. StatefulWebServiceManager javadoc

6.59 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.HisPrivacyCAWebService2FactoryService Interface Reference

Public Member Functions

- W3CEndpointReference [getHisPrivacyCAWebService2](#) ()

6.59.1 Detailed Description

This class was generated by the JAX-WS RI. JAX-WS RI 2.1.7-b01- Generated source version: 2.1

6.59.2 Member Function Documentation

- 6.59.2.1 W3CEndpointReference gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.HisPrivacyCAWebService2FactoryService.getHisPrivacyCAWebService2 ()

Returns

returns javax.xml.ws.wsaddressing.W3CEndpointReference

6.60 gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2FactoryService Class Reference

Public Member Functions

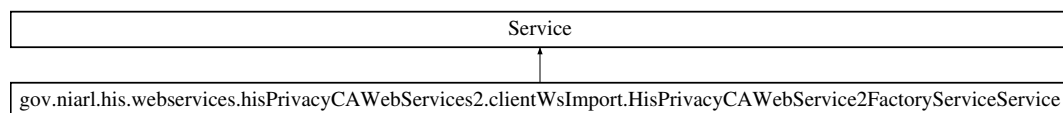
- W3CEndpointReference [getHisPrivacyCAWebService2](#) ()

6.60.1 Member Function Documentation

- 6.60.1.1 W3CEndpointReference gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2FactoryService.getHisPrivacyCAWebService2 ()

6.61 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.HisPrivacyCAWebService2FactoryServiceService Class Reference

Inheritance diagram for gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.HisPrivacyCAWebService2FactoryServiceService:



Public Member Functions

- [HisPrivacyCAWebService2FactoryServiceService](#) (URL wsdlLocation, QName serviceName)
- [HisPrivacyCAWebService2FactoryServiceService](#) ()
- [HisPrivacyCAWebService2FactoryService](#) [getHisPrivacyCAWebService2FactoryServicePort](#) ()
- [HisPrivacyCAWebService2FactoryService](#) [getHisPrivacyCAWebService2FactoryServicePort](#) (WebServiceFeature...features)

Static Private Attributes

- static final URL [HISPRIVACYCAWEBSERVICE2FACTORYSERVICESERVICE_WSDL_LOCATION](#)
- static final Logger [logger](#) = `Logger.getLogger(gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.HisPrivacyCAWebService2FactoryServiceService.class.getName())`

6.61.1 Detailed Description

This class was generated by the JAX-WS RI. JAX-WS RI 2.1.7-b01- Generated source version: 2.1

6.61.2 Constructor & Destructor Documentation

- 6.61.2.1 `gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.HisPrivacyCAWebService2FactoryServiceService.HisPrivacyCAWebService2FactoryServiceService (URL wsdlLocation, QName serviceName)`
- 6.61.2.2 `gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.HisPrivacyCAWebService2FactoryServiceService.HisPrivacyCAWebService2FactoryServiceService ()`

6.61.3 Member Function Documentation

- 6.61.3.1 `HisPrivacyCAWebService2FactoryService gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.HisPrivacyCAWebService2FactoryServiceService.getHisPrivacyCAWebService2FactoryServicePort ()`

Returns

returns [HisPrivacyCAWebService2FactoryService](#)

- 6.61.3.2 `HisPrivacyCAWebService2FactoryService gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.HisPrivacyCAWebService2FactoryServiceService.getHisPrivacyCAWebService2FactoryServicePort (WebServiceFeature... features)`

Parameters

<i>features</i>	A list of javax.xml.ws.WebServiceFeature to configure on the proxy. Supported features not in the <i>features</i> parameter will have their default values.
-----------------	---

Returns

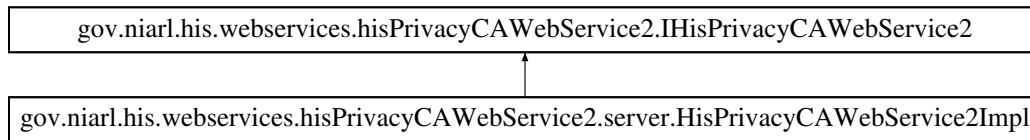
returns [HisPrivacyCAWebService2FactoryService](#)

6.61.4 Member Data Documentation

- 6.61.4.1 `final URL gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.HisPrivacyCAWebService2FactoryServiceService.HISPRIVACYCAWEBSERVICE2FACTORYSERVICESERVICE_WSDL_LOCATION [static], [private]`
- 6.61.4.2 `final Logger gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.HisPrivacyCAWebService2FactoryServiceService.logger = Logger.getLogger(gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.HisPrivacyCAWebService2FactoryServiceService.class.getName()) [static], [private]`

6.62 gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl Class Reference

Inheritance diagram for gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl:



Public Member Functions

- byte[] [identityRequestGetChallenge](#) (byte[] identityRequest, byte[] endorsementCertificate)
- byte[] [identityRequestSubmitResponse](#) (byte[] identityRequestResponseToChallenge)
- byte[] [requestGetEC](#) (byte[] encryptedEkMod, byte[] encryptedSessionKey, int ecValidDays)

Private Member Functions

- boolean [readPropertiesFile](#) () throws UnrecoverableKeyException, KeyStoreException, NoSuchAlgorithmException, CertificateException, IOException, javax.security.cert.CertificateException
- boolean [prepEndorsementCaHashMap](#) () throws KeyStoreException, NoSuchAlgorithmException, CertificateException, IOException, javax.security.cert.CertificateException

Static Private Member Functions

- static byte[] [createReturn](#) (TpmPubKey aik, RSAPublicKey pubEk, byte[] challengeRaw) throws InvalidKeyException, NoSuchAlgorithmException, NoSuchPaddingException, InvalidAlgorithmParameterException, IllegalBlockSizeException, BadPaddingException, TpmUnsignedConversionException, IOException
- static byte[] [decryptRSA](#) (byte[] src, PrivateKey rk) throws Exception
- static byte[] [decryptDES](#) (byte[] text, SecretKey key) throws Exception
- static byte[] [encryptDES](#) (byte[] text, SecretKey key) throws Exception

Private Attributes

- byte[] [identityRequestChallenge](#) = null
- RSAPrivateKey [caPrivKey](#) = null
- X509Certificate [caPubCert](#) = null
- int [validityDays](#) = 0
- boolean [propFileLoaded](#) = false
- Hashtable< Principal, RSAPublicKey > [endorsementCerts](#)
- X509Certificate [ekCert](#) = null

6.62.1 Member Function Documentation

- 6.62.1.1 static byte [] gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl.createReturn (TpmPubKey aik, RSAPublicKey pubEk, byte[] challengeRaw) throws InvalidKeyException, NoSuchAlgorithmException, NoSuchPaddingException, InvalidAlgorithmParameterException, IllegalBlockSizeException, BadPaddingException, TpmUnsignedConversionException, IOException [static], [private]

- 6.62.1.2 `static byte [] gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl.decryptDES (byte[] text, SecretKey key) throws Exception [static], [private]`
- 6.62.1.3 `static byte [] gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl.decryptRSA (byte[] src, PrivateKey rk) throws Exception [static], [private]`
- 6.62.1.4 `static byte [] gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl.encryptDES (byte[] text, SecretKey key) throws Exception [static], [private]`
- 6.62.1.5 `byte [] gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl.identityRequestGetChallenge (byte[] identityRequest, byte[] endorsementCertificate)`

Parameters

<i>identityRequest</i>	
<i>endorsement-Certificate</i>	

Returns

Implements [gov.niarl.his.webservices.hisPrivacyCAWebService2.IHisPrivacyCAWebService2](#).

- 6.62.1.6 `byte [] gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl.identityRequestSubmitResponse (byte[] identityRequestResponseToChallenge)`

Implements [gov.niarl.his.webservices.hisPrivacyCAWebService2.IHisPrivacyCAWebService2](#).

- 6.62.1.7 `boolean gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl.prepEndorsementCaHashMap () throws KeyStoreException, NoSuchAlgorithmException, CertificateException, IOException, javax.security.cert.CertificateException [private]`
- 6.62.1.8 `boolean gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl.readPropertiesFile () throws UnrecoverableKeyException, KeyStoreException, NoSuchAlgorithmException, CertificateException, IOException, javax.security.cert.CertificateException [private]`
- 6.62.1.9 `byte [] gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl.requestGetEC (byte[] encryptedEkMod, byte[] encryptedSessionKey, int ecValidDays)`

To be implement

Implements [gov.niarl.his.webservices.hisPrivacyCAWebService2.IHisPrivacyCAWebService2](#).

6.62.2 Member Data Documentation

- 6.62.2.1 `RSAPrivateKey gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl.caPrivKey = null [private]`
- 6.62.2.2 `X509Certificate gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl.caPubCert = null [private]`
- 6.62.2.3 `X509Certificate gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl.ekCert = null [private]`

6.62.2.4 `Hashtable<Principal, RSAPublicKey> gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl.endorsementCerts [private]`

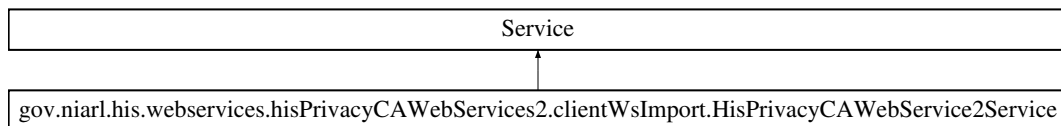
6.62.2.5 `byte [] gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl.identityRequestChallenge = null [private]`

6.62.2.6 `boolean gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl.propFileLoaded = false [private]`

6.62.2.7 `int gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl.validityDays = 0 [private]`

6.63 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.HisPrivacyCAWebService2Service Class Reference

Inheritance diagram for gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.HisPrivacyCAWebService2Service:



Public Member Functions

- [HisPrivacyCAWebService2Service](#) (URL wsdlLocation, QName serviceName)
- [HisPrivacyCAWebService2Service](#) ()
- [HisPrivacyCAWebService2 getHisPrivacyCAWebService2Port](#) ()
- [HisPrivacyCAWebService2 getHisPrivacyCAWebService2Port](#) (WebServiceFeature...features)

Static Private Attributes

- static final URL [HISPRIVACYCAWEBSERVICE2SERVICE_WSDL_LOCATION](#)
- static final Logger [logger](#) = Logger.getLogger(gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.HisPrivacyCAWebService2Service.class.getName())

6.63.1 Detailed Description

This class was generated by the JAX-WS RI. JAX-WS RI 2.1.7-b01- Generated source version: 2.1

6.63.2 Constructor & Destructor Documentation

6.63.2.1 `gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.HisPrivacyCAWebService2Service.HisPrivacyCAWebService2Service (URL wsdlLocation, QName serviceName)`

6.63.2.2 `gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.HisPrivacyCAWebService2Service.HisPrivacyCAWebService2Service ()`

6.63.3 Member Function Documentation

6.63.3.1 HisPrivacyCAWebService2 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.HisPrivacyCAWebService2Service.getHisPrivacyCAWebService2Port ()

Returns

returns [HisPrivacyCAWebService2](#)

6.63.3.2 HisPrivacyCAWebService2 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.HisPrivacyCAWebService2Service.getHisPrivacyCAWebService2Port (*WebServiceFeature... features*)

Parameters

<i>features</i>	A list of javax.xml.ws.WebServiceFeature to configure on the proxy. Supported features not in the <i>features</i> parameter will have their default values.
-----------------	---

Returns

returns [HisPrivacyCAWebService2](#)

6.63.4 Member Data Documentation

6.63.4.1 final URL gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.HisPrivacyCAWebService2Service.HISPRIVACYCAWEBSERVICE2SERVICE_WSDL_LOCATION [static], [private]

6.63.4.2 final Logger gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.HisPrivacyCAWebService2Service.logger = Logger.getLogger(gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.HisPrivacyCAWebService2Service.class.getName()) [static], [private]

6.64 gov.niarl.his.webservices.hisPrivacyCAWebService2.client.HisPrivacyCAWebServices2ClientInvoker Class Reference

Static Public Member Functions

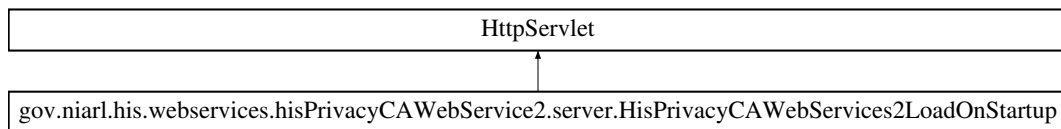
- static [IHisPrivacyCAWebService2](#) [getHisPrivacyCAWebService2](#) (String url)

6.64.1 Member Function Documentation

6.64.1.1 static IHisPrivacyCAWebService2 gov.niarl.his.webservices.hisPrivacyCAWebService2.client.HisPrivacyCAWebServices2ClientInvoker.getHisPrivacyCAWebService2 (String url) [static]

6.65 gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebServices2LoadOnStartup Class Reference

Inheritance diagram for gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebServices2LoadOnStartup:



Public Member Functions

- void `init` () throws ServletException

Static Private Attributes

- static final long `serialVersionUID` = 1L

6.65.1 Detailed Description

This class allows code to be run when Tomcat first runs the HisPrivacyCAWebServices2 webapp.

Author

schawki

6.65.2 Member Function Documentation

6.65.2.1 void gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebServices2LoadOnStartup.init ()
throws ServletException

This function will always run upon startup of the web service. The focus of the startup routine is to determine if this is the very first time the web service has run. It does this by looking for a PrivacyCA.p12 file, the holder of the private key and associated CA certificate used for signing AICs. If this file exists, nothing more is done. If the file does not exist, new files are created using the system's random number generator.

The list of files generated is:

- endorsement p12
- Privacy CA p12
- Privacy CA certificate
- Privacy CA properties
- HIS provisioner properties

The trust store is copied from within Tomcat's directory structure and placed with the generated files.

6.65.3 Member Data Documentation

6.65.3.1 final long gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebServices2LoadOnStartup.
`serialVersionUID` = 1L [static], [private]

6.66 gov.niarl.his.privacyca.HisRegisterIdentity Class Reference

Static Public Member Functions

- static void `main` (String[] args)

6.66.1 Detailed Description

This is part 3 of 3 for fully provisioning HIS on a Windows client. This class will register an identity provisioned using [HisIdentityProvisioner](#) and register that identity with an appraiser.

This class utilizes a properties file. It looks for a file by the name of "HISprovisioner.properties" in the directory from which Java was invoked.

The following values must be in the properties file:

- **HisRegistrationUrl** This is the entire path to the registration service.
- **TrustStore** This is the name of the trust store used to encrypt the web service connection. This file must be provided by the web server hosting the appraiser and placed into the path that the provisioner is run from ("./").
- **ClientPath** This is the path for the HIS client installation. The AIC (aic.cer) must be in this directory for registration to take place.

Author

schawki

6.66.2 Member Function Documentation

6.66.2.1 `static void gov.niarl.his.privacyca.HisRegisterIdentity.main (String[] args) [static]`

Entry point for the class

6.67 gov.niarl.hisAppraiser.integrityReport.HisReportData Class Reference

Public Member Functions

- [HisReportData](#) (String reportString)
- List< QuoteDataType > [getQuoteData](#) ()
- QuoteType [getQuote](#) ()
- byte[] [generatePcrSelect](#) ()
- byte[] [getOriginalPcrSelect](#) ()
- int [generatePcrSelectedCount](#) ()
- SortedSet< Integer > [generatePcrSelectedPositions](#) ()
- void [substitutePcrSelect](#) (byte[] pcrSelect)
- int [getPcrSizeOfSelect](#) ()
- void [substitutePcrSizeOfSelect](#) (int pcrSizeOfSelect)
- int [getPcrValueCount](#) ()
- byte[] [getPcrValue](#) (int pcrNumber)
- int [getPcrValueSize](#) ()
- SortedSet< Integer > [getPossiblePcrs](#) ()
- String [getQuoteFixedString](#) ()
- byte[] [getDigest](#) ()
- byte[] [getNonce](#) ()
- String [getMachineName](#) ()
- byte[] [getSignature](#) ()
- byte[] [getTpmQuoteVersion](#) ()
- String [getReportID](#) ()
- boolean [compareDigest](#) (byte[] digest)

Private Member Functions

- void [populatePcrValues](#) ()

Private Attributes

- ReportType [report](#)
- byte[] [pcrSelectSubstitute](#) = null
- Integer [pcrSizeOfSelectSubstitute](#) = null
- Hashtable< Integer, PcrValue > [pcrValuesTable](#) = null

Static Private Attributes

- static Logger [logger](#) = Logger.getLogger(HisReportData.class)

6.67.1 Detailed Description

This class generates data needed during report evaluation.

Author

syelama

Version

Crossbow

6.67.2 Constructor & Destructor Documentation

6.67.2.1 gov.niarl.hisAppraiser.integrityReport.HisReportData.HisReportData (String *reportString*)

Initialize with the report.

Parameters

<i>reportString</i>	XML report string.
---------------------	--------------------

6.67.3 Member Function Documentation

6.67.3.1 boolean gov.niarl.hisAppraiser.integrityReport.HisReportData.compareDigest (byte[] *digest*)

Compare digest with the report digest.

Returns

True if equal, false otherwise.

6.67.3.2 byte [] gov.niarl.hisAppraiser.integrityReport.HisReportData.generatePcrSelect ()

PCR select truncated or padded based on the size of select.

Returns

PCR select as byte[]

6.67.3.3 `int gov.niarl.hisAppraiser.integrityReport.HisReportData.generatePcrSelectedCount ()`

Retrieve PCR selected count from generated PCR select.

Returns

Number of selected PCRs

6.67.3.4 `SortedSet<Integer> gov.niarl.hisAppraiser.integrityReport.HisReportData.generatePcrSelectedPositions ()`

Generates a list of selected PCRs.

Returns

Sorted list of selected selected PCRs.

6.67.3.5 `byte [] gov.niarl.hisAppraiser.integrityReport.HisReportData.getDigest ()`

Digest stored in the report.

Returns

Digest value.

6.67.3.6 `String gov.niarl.hisAppraiser.integrityReport.HisReportData.getMachineName ()`

Machine name stored in the report.

Returns

Machine name value.

6.67.3.7 `byte [] gov.niarl.hisAppraiser.integrityReport.HisReportData.getNonce ()`

Nonce stored in the report.

Returns

Nonce value.

6.67.3.8 `byte [] gov.niarl.hisAppraiser.integrityReport.HisReportData.getOriginalPcrSelect ()`

PCR select from the report.

Returns

PCR select as byte[]

6.67.3.9 `int gov.niarl.hisAppraiser.integrityReport.HisReportData.getPcrSizeOfSelect ()`

Retrieve the currently used size of select.

Returns

the pcrSizeOfSelect

6.67.3.10 `byte [] gov.niarl.hisAppraiser.integrityReport.HisReportData.getPcrValue (int pcrNumber)`

Get PCR number i. populate PCR Values

Parameters

<i>i</i>	PCR number
----------	------------

Returns

PCR value

Exceptions

<i>RuntimeException</i>	if no PCR value exists.
-------------------------	-------------------------

6.67.3.11 `int gov.niarl.hisAppraiser.integrityReport.HisReportData.getPcrValueCount ()`

Number of PCRs in the report.

Returns

The number of PCR values.

6.67.3.12 `int gov.niarl.hisAppraiser.integrityReport.HisReportData.getPcrValueSize ()`

The length of each PCR.

Returns

The length of each PCR

6.67.3.13 `SortedSet<Integer> gov.niarl.hisAppraiser.integrityReport.HisReportData.getPossiblePcrs ()`

Possible values of PCR number.

Returns

SortedSet of integers.

6.67.3.14 `QuoteType gov.niarl.hisAppraiser.integrityReport.HisReportData.getQuote ()`

Retrieve first quote object from report.

Returns

Quote

6.67.3.15 `List<QuoteDataType> gov.niarl.hisAppraiser.integrityReport.HisReportData.getQuoteData ()`

Retrieve quote data object from report.

Returns

List of quote data

6.67.3.16 `String gov.niarl.hisAppraiser.integrityReport.HisReportData.getQuoteFixedString ()`

The fixed string related to the quote.

Returns

Text value of the fixed string.

6.67.3.17 `String gov.niarl.hisAppraiser.integrityReport.HisReportData.getReportID ()`

Retrieve the ID stored in the XML integrity report.

Returns

The unique ID string found in an XML integrity report.

6.67.3.18 `byte [] gov.niarl.hisAppraiser.integrityReport.HisReportData.getSignature ()`

Signature stored in the report.

Returns

Signature value.

6.67.3.19 `byte [] gov.niarl.hisAppraiser.integrityReport.HisReportData.getTpmQuoteVersion ()`

Create the quote version used at the beginning of the signed data.

Returns

Quote version data at the beginning of the signed data.

6.67.3.20 `void gov.niarl.hisAppraiser.integrityReport.HisReportData.populatePcrValues ()` [private]

Populate the PCR hash table.

6.67.3.21 `void gov.niarl.hisAppraiser.integrityReport.HisReportData.substitutePcrSelect (byte[] pcrSelect)`

Supply substitute value for the PCR select.

Parameters

<i>pcrSelect</i>	
------------------	--

6.67.3.22 void gov.niarl.hisAppraiser.integrityReport.HisReportData.substitutePcrSizeOfSelect (int *pcrSizeOfSelect*)

Supply substitute value for the PCR size of select.

Parameters

<i>pcrSizeOfSelect</i>	the pcrSizeOfSelect to set
------------------------	----------------------------

6.67.4 Member Data Documentation

6.67.4.1 Logger gov.niarl.hisAppraiser.integrityReport.HisReportData.logger = Logger.getLogger(HisReportData.class)
[static], [private]

6.67.4.2 byte [] gov.niarl.hisAppraiser.integrityReport.HisReportData.pcrSelectSubstitute = null [private]

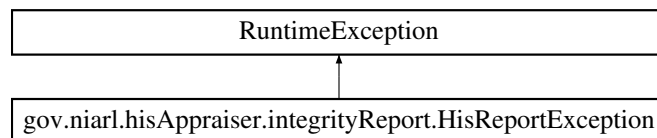
6.67.4.3 Integer gov.niarl.hisAppraiser.integrityReport.HisReportData.pcrSizeOfSelectSubstitute = null [private]

6.67.4.4 Hashtable<Integer, PcrValue> gov.niarl.hisAppraiser.integrityReport.HisReportData.pcrValuesTable = null
[private]

6.67.4.5 ReportType gov.niarl.hisAppraiser.integrityReport.HisReportData.report [private]

6.68 gov.niarl.hisAppraiser.integrityReport.HisReportException Class Reference

Inheritance diagram for gov.niarl.hisAppraiser.integrityReport.HisReportException:



Public Member Functions

- [HisReportException](#) ()
- [HisReportException](#) (String message, Throwable cause)
- [HisReportException](#) (String message)
- [HisReportException](#) (Throwable cause)

6.68.1 Detailed Description

Signals a do not store report exception.

Author

syelama

Version

Crossbow

6.68.2 Constructor & Destructor Documentation

6.68.2.1 `gov.niarl.hisAppraiser.integrityReport.HisReportException.HisReportException ()`

Default constructor

6.68.2.2 `gov.niarl.hisAppraiser.integrityReport.HisReportException.HisReportException (String message, Throwable cause)`

Parameters

<i>message</i>	
<i>cause</i>	

6.68.2.3 `gov.niarl.hisAppraiser.integrityReport.HisReportException.HisReportException (String message)`

Parameters

<i>message</i>	
----------------	--

6.68.2.4 `gov.niarl.hisAppraiser.integrityReport.HisReportException.HisReportException (Throwable cause)`

Parameters

<i>cause</i>	
--------------	--

6.69 `gov.niarl.hisAppraiser.integrityReport.HisReportUtil` Class Reference

Static Public Member Functions

- static synchronized ReportType [unmarshallReport](#) (String xmlReport)
- static X509Certificate [pemToX509Certificate](#) (String machineCertPEM)
- static String [getPCRDifferenceReport](#) ([AuditLog](#) auditLogDifferentThanPrevious, int pcrNumber)
- static void [submitReport](#) (String sid, String reportString, byte[] nonceInput, byte[] pcrSelectInput, String machineNameInput)

Static Private Attributes

- static Logger [logger](#) = Logger.getLogger(HisReportUtil.class)
- static Logger [ima_logger](#) = Logger.getLogger("hisAppraiser")

6.69.1 Detailed Description

This class is used by the HisReportParser and others for utility functions.

Author

syelama

Version

Crossbow

6.69.2 Member Function Documentation

6.69.2.1 static String gov.niarl.hisAppraiser.integrityReport.HisReportUtil.getPCRDifferenceReport (AuditLog auditLogDifferentThanPrevious, int pcrNumber) [static]

This function was used to create XML for a difference report when a detail link was clicked on the old portal.

Parameters

<i>auditLog-DifferentThan-Previous</i>	AuditLog entry from the database.
<i>pcrNumber</i>	PCR number for which the difference was requested.

Returns

XML string showing differences from the previous report PCR.

6.69.2.2 static X509Certificate gov.niarl.hisAppraiser.integrityReport.HisReportUtil.pemToX509Certificate (String machineCertPEM) [static]

Convert a PEM formatted certificate in X509 format.

Parameters

<i>machineCertPEM</i>	Machine certificate in PEM/text format.
-----------------------	---

Returns

An X509 certificate object.

6.69.2.3 **POL Mod** static void gov.niarl.hisAppraiser.integrityReport.HisReportUtil.submitReport (String sid, String reportString, byte[] nonceInput, byte[] pcrSelectInput, String machineNameInput) [static]

This function is used by both the login module and the web services to submit an integrity report. It calls alert creation functions and email functionality.

Modifications: The function checks if report contains measurements produced by IMA; if so they are extracted from the report and stored in the database (table IMA_measures).

Then the function verifies the trustworthiness of measurements: if the report contains the portion of a previously started file, the function reads from the database the information needed to verify the report; otherwise the report can be verified extending all measures inside.

If measurements are trustworthy the function writes them in a temporary file and queries the database for the analyses requested for the report. The function sets three environment variables that can be used by the external analysis tool: "OS" contains the OS name as defined in the MLE; "IMA" contains the absolute path of the temporary file containing IMA measurements; "ANALYSIS" contains name and parameters of the analysis as read from the attestation request.

Input sent to the analysis tool and output received from it is verified with regex read from table analysis_type and the output is written in table attest_request.

Parameters

<i>sid</i>	The SID sent from the client.
<i>reportString</i>	The integrity report sent form the client.

<i>nonceInput</i>	The nonce provided to the client.
<i>pcrSelectInput</i>	The PCR select provided to the client.
<i>machineName-Input</i>	The machine name sent from the client.

6.69.2.4 **static synchronized** `ReportType gov.niarl.hisAppraiser.integrityReport.HisReportUtil.unmarshallReport (String xmlReport) [static]`

This is a convenience method to un-marshal a report and return the top level JAXB element.

Parameters

<i>xmlReport</i>	XML string integrity report.
------------------	------------------------------

Returns

`ReportType` top level JAXB element.

6.69.3 Member Data Documentation

6.69.3.1 **Logger** `gov.niarl.hisAppraiser.integrityReport.HisReportUtil.ima_logger = Logger.getLogger("hisAppraiser") [static], [private]`

6.69.3.2 **Logger** `gov.niarl.hisAppraiser.integrityReport.HisReportUtil.logger = Logger.getLogger(HisReportUtil.class) [static], [private]`

6.70 gov.niarl.hisAppraiser.integrityReport.HisReportValidator Class Reference

Public Member Functions

- [HisReportValidator](#) (String reportString, byte[] nonceInput, byte[] pcrSelectInput, String machineNameInput, X509Certificate machineCertificate, String previousReportString)
- String [getPreviousReportDifferences](#) ()
- String [getErrors](#) ()
- int [getPcrValueCount](#) ()
- String [getPcrValue](#) (int i)
- boolean [isSignatureVerified](#) ()
- [HisReportData](#) [getHisReportData](#) ()

Static Public Member Functions

- static boolean [getPreviousReportDifference](#) (String previousReportDifferences, int i)
- static int [getErrorsCount](#) (String errorsString)
- static String [getPcrDescription](#) (int i, boolean html)

Static Public Attributes

- static final String [DIFFERENCE_SEPARATOR](#) = "|"
- static final String [ERROR_SEPARATOR](#) = "-----"

Private Member Functions

- byte[] [computeDigest](#) ()
- boolean [verifySignature](#) ()
- void [comparePreviousReport](#) (String previousReportString)

Static Private Attributes

- static Logger [logger](#) = Logger.getLogger(HisReportValidator.class)

6.70.1 Detailed Description

This class does the main work with the report when it comes into the web services or login modules.

Author

syelama

Version

Crossbow

6.70.2 Constructor & Destructor Documentation

6.70.2.1 `gov.niarl.hisAppraiser.integrityReport.HisReportValidator.HisReportValidator (String reportString, byte[] nonceInput, byte[] pcrSelectInput, String machineNameInput, X509Certificate machineCertificate, String previousReportString)`

The constructor does all the work for verifying the report and returning useful information.

Parameters

<i>reportString</i>	Only required parameter to the constructor containing the XML integrity report.
<i>nonceInput</i>	The nonce provided to the client in the first stage of submitting an integrity report.
<i>pcrSelectInput</i>	The PCR select provided to the client in the first stage of submitting an integrity report.
<i>machineName-Input</i>	The machine name provided by the client in the first stage of submitting an integrity report.
<i>machine-Certificate</i>	The X509Certificate stored in the database for the machine.
<i>previousReport-String</i>	Previous XML integrity report, if any, stored in the database for the machine.

6.70.3 Member Function Documentation

6.70.3.1 **POL Mod** `void gov.niarl.hisAppraiser.integrityReport.HisReportValidator.comparePreviousReport (String previousReportString) [private]`

Compare the PCRs of the previous report.

Modifications: If the report contains measurements produced by IMA, the function skips the comparison for PC-R10. This register is modified by IMA, therefore a difference from the previous report is not a sign of its unreliability.

Parameters

<i>previousReport-String</i>	XML string of the previous report.
------------------------------	------------------------------------

6.70.3.2 `byte [] gov.niarl.hisAppraiser.integrityReport.HisReportValidator.computeDigest () [private]`

Size of select + select + length of data + data

Returns

resulting byte array.

6.70.3.3 `String gov.niarl.hisAppraiser.integrityReport.HisReportValidator.getErrors ()`

After the constructor generates and stores errors in a list this function concatenates and returns them.

Returns

The errors generated from parsing an verification.

6.70.3.4 `static int gov.niarl.hisAppraiser.integrityReport.HisReportValidator.getErrorsCount (String errorsString) [static]`

Counts the number of errors given a generated error string.

Parameters

<i>errorsString</i>	An error string created from getErrors() .
---------------------	--

Returns

The number of errors within an error string.

6.70.3.5 `HisReportData gov.niarl.hisAppraiser.integrityReport.HisReportValidator.getHisReportData ()`

Data related to the submitted report.

Returns

the hisReportData

6.70.3.6 `static String gov.niarl.hisAppraiser.integrityReport.HisReportValidator.getPcrDescription (int i, boolean html) [static]`

PCR descriptions for several PCRs in text and HTML format.

Parameters

<i>i</i>	PCR for number needing description
<i>html</i>	if true return HTML formatted output else return plain text

Returns

HTML or plain text output

6.70.3.7 String gov.niarl.hisAppraiser.integrityReport.HisReportValidator.getPcrValue (int i)

Generate a hexadecimal string for a PCR.

Parameters

<i>i</i>	PCR number
----------	------------

Returns

String with the hexadecimal value of the PCR or an empty string for no entry.

6.70.3.8 int gov.niarl.hisAppraiser.integrityReport.HisReportValidator.getPcrValueCount ()

Number of PCRs in the report.

Returns

The number of PCR values.

6.70.3.9 static boolean gov.niarl.hisAppraiser.integrityReport.HisReportValidator.getPreviousReportDifference (String *previousReportDifferences*, int *i*) [static]

Determine whether there was a difference for a PCR given a delimited PCR difference string.

Parameters

<i>previousReportDifferences</i>	Delimited string containing PCRs which differed from the last report.
<i>i</i>	The PCR number for which you would like to know whether it differed from the last report.

Returns

Whether or not the PCR indicated by *i* differed from this report to the last report

6.70.3.10 String gov.niarl.hisAppraiser.integrityReport.HisReportValidator.getPreviousReportDifferences ()

Generate the contents of the previous differences

Returns

Delimited string containing PCRs which differed from the last report.

6.70.3.11 boolean gov.niarl.hisAppraiser.integrityReport.HisReportValidator.isSignatureVerified ()

Used to populate the signature verified field stored with the integrity reports.

Returns

Whether the signature was verified during parsing.

6.70.3.12 `boolean gov.niarl.hisAppraiser.integrityReport.HisReportValidator.verifySignature () [private]`

Create quote and verify signature.

Returns

True if signature verifies else false.

6.70.4 Member Data Documentation

6.70.4.1 `final String gov.niarl.hisAppraiser.integrityReport.HisReportValidator.DIFFERENCE_SEPARATOR = "|" [static]`

This is used in the database previous_differences field to separate PCR numbers.

6.70.4.2 `final String gov.niarl.hisAppraiser.integrityReport.HisReportValidator.ERROR_SEPARATOR = "-----" [static]`

This is used in the report_errors field in the to separate errors generated below.

6.70.4.3 `Logger gov.niarl.hisAppraiser.integrityReport.HisReportValidator.logger = Logger.getLogger(HisReportValidator.class) [static], [private]`

6.71 gov.niarl.his.privacyca.HisSetup Class Reference

Static Public Member Functions

- static void `main` (String[] args)
- static void `main` (String[] args)

6.71.1 Detailed Description

Deprecated

This method will create all new files for a HIS deployment.

The setup of the HisPrivacyCAWebServices2 Privacy CA replaces the functionality of this class. It currently does this by *using* this class.

Author

schawki

Deprecated

This method will create all new files for a HIS deployment.

The setup of the HisPrivacyCAWebServices2 Privacy CA replaces the functionality of this class. It currently does this by *using* this class.

Author

schawki

6.71.2 Member Function Documentation

6.71.2.1 `static void gov.niarl.his.privacyca.HisSetup.main (String[] args) [static]`

Parameters

<i>args</i>	
-------------	--

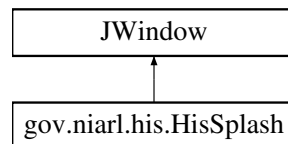
6.71.2.2 `static void gov.niarl.his.privacyca.HisSetup.main (String[] args) [static]`

Parameters

<i>args</i>	
-------------	--

6.72 gov.niarl.his.HisSplash Class Reference

Inheritance diagram for gov.niarl.his.HisSplash:



Public Member Functions

- [HisSplash](#) (int *d*, String *path*)
- void [showSplash](#) ()
- void [showSplashAndExit](#) ()

Private Attributes

- int [duration](#)

6.72.1 Detailed Description

Helper class that enables and shows the HIS splash image

Author

mcbrotz

6.72.2 Constructor & Destructor Documentation

6.72.2.1 `gov.niarl.his.HisSplash.HisSplash (int d, String path)`

Creates a new [HisSplash](#) object.

Parameters

<i>d</i>	The duration the splash screen is displayed for
<i>path</i>	The path to the image file to be displayed.

6.72.3 Member Function Documentation

6.72.3.1 void gov.niarl.his.HisSplash.showSplash ()

Shows the HIS Splash image inner class that displays and runs the splash screen in its own thread.

6.72.3.2 void gov.niarl.his.HisSplash.showSplashAndExit ()

Shows the HIS Splash image and exits. Used for the HIS branding mode.

6.72.4 Member Data Documentation

6.72.4.1 int gov.niarl.his.HisSplash.duration [private]

6.73 gov.niarl.hisAppraiser.hibernate.dao.HisSystemConstants Class Reference

Static Public Attributes

- static final long [DEFAULT_DELAY](#) = Long.parseLong([getSystemConstants\(\)](#).get("default_delay"))

Static Private Member Functions

- static synchronized HashMap<String, String> [getSystemConstants](#) ()

Static Private Attributes

- static HashMap<String, String> [HASH_MAP](#) = [getSystemConstants\(\)](#)

6.73.1 Detailed Description

This class serves as a central location for updates and queries against the SystemConstants table.

Author

syelama

Version

Crossbow

6.73.2 Member Function Documentation

6.73.2.1 static synchronized HashMap<String, String> gov.niarl.hisAppraiser.hibernate.dao.HisSystemConstants.getSystemConstants () [static], [private]

Generate a hash map from the SystemConstants table.

Returns

Hash map of the SystemConstants table.

6.73.3 Member Data Documentation

6.73.3.1 `final long gov.niarl.hisAppraiser.hibernate.dao.HisSystemConstants.DEFAULT_DELAY = Long.parseLong(getSystemConstants().get("default_delay"))` [static]

The delay linked to the

6.73.3.2 `HashMap<String, String> gov.niarl.hisAppraiser.hibernate.dao.HisSystemConstants.HASH_MAP = getSystemConstants()` [static], [private]

6.74 gov.niarl.his.privacyca.HisTpmProvisioner Class Reference

Static Public Member Functions

- static void `main` (String[] args)

Static Private Member Functions

- static byte[] `encryptDES` (byte[] text, SecretKey key) throws Exception
- static byte[] `encryptRSA` (byte[] text, PublicKey pubRSA) throws Exception
- static byte[] `decryptDES` (byte[] text, SecretKey key) throws Exception

6.74.1 Detailed Description

This is part 1 of 3 for fully provisioning HIS on a Windows client. This class does the initial provisioning of the TPM. This provisioning includes:

- Taking ownership of the TPM
- Creating an Endorsement Certificate
- Storing the Endorsement Certificate in the TPM's NVRAM

This class utilizes a properties file. It looks for a file by the name of "HISprovisioner.properties" in the directory from which Java was invoked.

The following values must be in the properties file:

- **TpmEndorsmentP12**
- **EndorsementP12Pass**
- **EcValidityDays**
- **TpmOwnerAuth** This must be a 40 digit (20 byte) hex code representing the owner auth data to be assigned.

Author

schawki

6.74.2 Member Function Documentation

6.74.2.1 `static byte [] gov.niarl.his.privacyca.HisTpmProvisioner.decryptDES (byte[] text, SecretKey key) throws Exception` [static], [private]

6.74.2.2 `static byte [] gov.niarl.his.privacyca.HisTpmProvisioner.encryptDES (byte[] text, SecretKey key) throws Exception` [static], [private]

6.74.2.3 `static byte [] gov.niarl.his.privacyca.HisTpmProvisioner.encryptRSA (byte[] text, PublicKey pubRSA) throws Exception` [static], [private]

6.74.2.4 `static void gov.niarl.his.privacyca.HisTpmProvisioner.main (String[] args)` [static]

Entry point into the program

6.75 gov.niarl.hisAppraiser.util.HisUtil Class Reference

Static Public Member Functions

- static synchronized void [loadBouncyCastleProvider](#) ()
- static Provider [getProvider](#) ()
- static byte[] [InputStreamToByteArray](#) (InputStream inputStream)
- static String [removeWhiteSpace](#) (String string)
- static byte[] [unHexString](#) (String string)
- static String [hexString](#) (byte[] byteArray)
- static int[] [byteArrayToUnsignedIntArray](#) (byte[] byteArray)
- static byte[] [generateSecureRandom](#) (int length)
- static byte[] [intToByteArray](#) (int input, int arrayLength)
- static SortedSet< Integer > [getSelected](#) (byte input)

Static Private Attributes

- static Provider [SECURITY_PROVIDER](#) = new BouncyCastleProvider()
- static boolean [BOUNCY_CASTLE_PROVIDER_LOADED](#) = false

6.75.1 Detailed Description

This class is a central location for utility functions used throughout HIS projects.

Author

syelama

Version

Crossbow

6.75.2 Member Function Documentation

6.75.2.1 `static int [] gov.niarl.hisAppraiser.util.HisUtil.byteArrayToUnsignedIntArray (byte[] byteArray)` [static]

Changes a byte array which is signed into an int array with values ranging from 0 to 255

Parameters

<i>byteArray</i>	Byte array to be converted to an unsigned representation.
------------------	---

Returns

An integer array with values ranging from 0 to 255.

6.75.2.2 `static byte [] gov.niarl.hisAppraiser.util.HisUtil.generateSecureRandom (int length) [static]`

Generate a secure byte array of a given length.

Parameters

<i>length</i>	Length of the needed byte array.
---------------	----------------------------------

Returns

Byte array of randomly generated numbers.

6.75.2.3 `static Provider gov.niarl.hisAppraiser.util.HisUtil.getProvider () [static]`

Returns

6.75.2.4 `static SortedSet<Integer> gov.niarl.hisAppraiser.util.HisUtil.getSelected (byte input) [static]`

Get the sorted selected positions in a byte with the left most position as zero.

Parameters

<i>input</i>	Byte to be evaluated
--------------	----------------------

Returns

Array of integer positions.

6.75.2.5 `static String gov.niarl.hisAppraiser.util.HisUtil.hexString (byte[] byteArray) [static]`

Turn a byte array into a hexadecimal string representation.

Parameters

<i>byteArray</i>	Byte array to be converted into a hexadecimal string representation.
------------------	--

Returns

A string containing a hexadecimal representation of a byte array without space or 0x's.

6.75.2.6 `static byte [] gov.niarl.hisAppraiser.util.HisUtil.InputStreamToByteArray (InputStream inputStream) [static]`

Blocking read of an entire input stream into a byte array.

Parameters

<i>inputStream</i>	Input stream to be read.
--------------------	--------------------------

Returns

Byte array contents of an input stream.

6.75.2.7 `static byte [] gov.niarl.hisAppraiser.util.HisUtil.toIntByteArray (int input, int arrayLength)` `[static]`

Converts an integer to a byte array of given length

Parameters

<i>input</i>	Integer to be converted
<i>arrayLength</i>	Length of the byte array to be returned, padded with zeros if necessary.

Returns

Byte array representation.

Exceptions

<i>RuntimeException</i>	if the input integer is larger than the byte array can hold.
-------------------------	--

6.75.2.8 `static synchronized void gov.niarl.hisAppraiser.util.HisUtil.loadBouncyCastleProvider ()` `[static]`

If not already loaded, load the Java Bouncy Castle security provider.

6.75.2.9 `static String gov.niarl.hisAppraiser.util.HisUtil.removeWhiteSpace (String string)` `[static]`

Removes white space from a string.

Parameters

<i>string</i>	String from which white space will be removed.
---------------	--

Returns

String without white space.

6.75.2.10 `static byte [] gov.niarl.hisAppraiser.util.HisUtil.unHexString (String string)` `[static]`

Turns a hexadecimal string representation to a byte array.

Parameters

<i>string</i>	Hexadecimal formatted string.
---------------	-------------------------------

Returns

Byte array generated from a hexadecimal string representation

6.75.3 Member Data Documentation

6.75.3.1 `boolean gov.niarl.hisAppraiser.util.HisUtil.BOUNCY_CASTLE_PROVIDER_LOADED = false` [static], [private]

6.75.3.2 `Provider gov.niarl.hisAppraiser.util.HisUtil.SECURITY_PROVIDER = new BouncyCastleProvider()` [static], [private]

6.76 gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisWebService Interface Reference

Public Member Functions

- [NonceSelect](#) `getNonce` (@WebParam(name="machineName", targetNamespace="") String machineName, @WebParam(name="userName", targetNamespace="") String userName)
- void [postIntegrityReport](#) (@WebParam(name="integrityReport", targetNamespace="") String integrityReport)

6.76.1 Detailed Description

This class was generated by the JAX-WS RI. JAX-WS RI 2.1.7-b01- Generated source version: 2.1

6.76.2 Member Function Documentation

6.76.2.1 **NonceSelect** `gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisWebService.getNonce` (@WebParam(name="machineName", targetNamespace="") String *machineName*, @WebParam(name="userName", targetNamespace="") String *userName*)

Parameters

<i>machineName</i>	
<i>userName</i>	

Returns

returns [gov.niarl.sal.webservices.hisWebServices.clientWsImport.NonceSelect](#)

6.76.2.2 `void gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisWebService.postIntegrityReport` (@WebParam(name="integrityReport", targetNamespace="") String *integrityReport*)

Parameters

<i>integrityReport</i>	
------------------------	--

6.77 gov.niarl.sal.webservices.hisWebService.server.HisWebService Class Reference

Public Member Functions

- [NonceSelect](#) `getNonce` (@WebParam(name="machineName") String machineName, @WebParam(name="userName") String userName)
- void [postIntegrityReport](#) (@WebParam(name="integrityReport") String integrityReport)

Static Public Member Functions

- static
StatefulWebServiceManager
< HisWebService > [getManager](#) ()
- static void [setManager](#) (StatefulWebServiceManager< HisWebService > [manager](#))

Static Public Attributes

- static
StatefulWebServiceManager
< HisWebService > [manager](#)

Static Private Attributes

- static Logger [logger](#) = Logger.getLogger(HisWebService.class)

6.77.1 Detailed Description

Stateful web service to request and consume integrity reports. enables integrity reports to be received and validated from the client.

Author

syelama

Version

Crossbow

6.77.2 Member Function Documentation

6.77.2.1 static StatefulWebServiceManager<HisWebService> gov.niarl.sal.webservices.hisWebService.server.HisWebService.[getManager](#) () [*static*]

Needed for stateful web services.

Returns

Related StatefulWebServiceManager.

6.77.2.2 **NonceSelect** gov.niarl.sal.webservices.hisWebService.server.HisWebService.[getNonce](#) (@WebParam(name="machineName") String *machineName*, @WebParam(name="userName") String *userName*)

Generates information needed by the clients to generate reports.

Parameters

<i>machineName</i>	Name of the machine.
<i>userName</i>	User's ID or name.

Returns

Information needed by the clients to submit an integrity report.

6.77.2.3 void gov.niarl.sal.webservices.hisWebService.server.HisWebService.postIntegrityReport (@WebParam(name="integrityReport") String *integrityReport*)

Receives and processes an integrity report.

Parameters

<i>integrityReport</i>	XML integrity report sent by the clients.
------------------------	---

6.77.2.4 static void gov.niarl.sal.webservices.hisWebService.server.HisWebService.setManager (StatefulWebServiceManager< HisWebService > *manager*) [static]

Needed for stateful web services.

Parameters

<i>manager</i>	Related StatefulWebServiceManager.
----------------	------------------------------------

6.77.3 Member Data Documentation

6.77.3.1 Logger gov.niarl.sal.webservices.hisWebService.server.HisWebService.logger = Logger.getLogger(HisWebService.class) [static],[private]

6.77.3.2 StatefulWebServiceManager<HisWebService> gov.niarl.sal.webservices.hisWebService.server.HisWebService.manager [static]

Needed for stateful web services. StatefulWebServiceManager javadoc

6.78 gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisWebServiceFactoryService Interface Reference

Public Member Functions

- W3CEndpointReference [getHisWebService](#) ()

6.78.1 Detailed Description

This class was generated by the JAX-WS RI. JAX-WS RI 2.1.7-b01- Generated source version: 2.1

6.78.2 Member Function Documentation

6.78.2.1 W3CEndpointReference gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisWebServiceFactoryService.getHisWebService ()

Returns

returns javax.xml.ws.wsaddressing.W3CEndpointReference

6.79 gov.niarl.sal.webservices.hisWebService.server.HisWebServiceFactoryService Class Reference

Public Member Functions

- W3CEndpointReference [getHisWebService](#) ()

6.79.1 Detailed Description

Class needed to create the stateful [HisWebService](#).

Author

syelama

Version

Crossbow

6.79.2 Member Function Documentation

6.79.2.1 W3CEndpointReference gov.niarl.sal.webservices.hisWebService.server.HisWebServiceFactoryService.getHisWebService ()

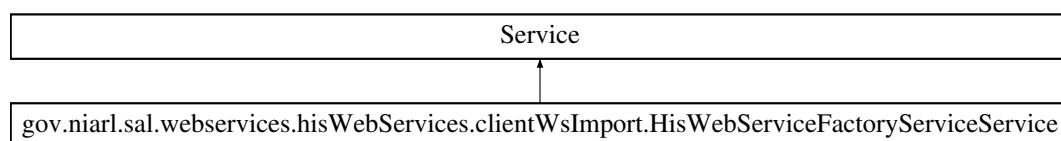
Creates a W3CEndpointReference needed by JAX-WS web services.

Returns

A reference to a stateful [HisWebService](#).

6.80 gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisWebServiceFactoryServiceService Class Reference

Inheritance diagram for gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisWebServiceFactoryServiceService:



Public Member Functions

- [HisWebServiceFactoryServiceService](#) (URL wsdlLocation, QName serviceName)
- [HisWebServiceFactoryServiceService](#) ()
- [HisWebServiceFactoryService](#) [getHisWebServiceFactoryServicePort](#) ()
- [HisWebServiceFactoryService](#) [getHisWebServiceFactoryServicePort](#) (WebServiceFeature...features)

Static Private Attributes

- static final URL [HISWEBSERVICEFACTORYSERVICESERVICE_WSDL_LOCATION](#)
- static final Logger [logger](#) = Logger.getLogger(gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisWebServiceFactoryServiceService.class.getName())

6.80.1 Detailed Description

This class was generated by the JAX-WS RI. JAX-WS RI 2.1.7-b01- Generated source version: 2.1

6.80.2 Constructor & Destructor Documentation

6.80.2.1 `gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisWebServiceFactoryService-Service.HisWebServiceFactoryServiceService (URL wsdlLocation, QName serviceName)`

6.80.2.2 `gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisWebServiceFactoryServiceService.HisWebServiceFactoryServiceService ()`

6.80.3 Member Function Documentation

6.80.3.1 `HisWebServiceFactoryService gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisWebServiceFactoryServiceService.getHisWebServiceFactoryServicePort ()`

Returns

returns [HisWebServiceFactoryService](#)

6.80.3.2 `HisWebServiceFactoryService gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisWebServiceFactoryServiceService.getHisWebServiceFactoryServicePort (WebServiceFeature... features)`

Parameters

<i>features</i>	A list of javax.xml.ws.WebServiceFeature to configure on the proxy. Supported features not in the <i>features</i> parameter will have their default values.
-----------------	---

Returns

returns [HisWebServiceFactoryService](#)

6.80.4 Member Data Documentation

6.80.4.1 `final URL gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisWebServiceFactoryServiceService.HISWEBSERVICEFACTORYSERVICESERVICE_WSDL_LOCATION [static], [private]`

6.80.4.2 `final Logger gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisWebServiceFactoryServiceService.logger = Logger.getLogger(gov.niarl.sal.webservices.hisWebServices.clientWslImport.HisWebServiceFactoryServiceService.class.getName()) [static], [private]`

6.81 gov.niarl.sal.webservices.hisWebService.client.HisWebServicesClientInvoker Class Reference

Static Public Member Functions

- static [HisWebService](#) `getHisWebService (String url)`
- static [HisEnrollmentWebService](#) `getHisEnrollmentWebService (String url)`
- static [HisPollingWebService](#) `getHisPollingWebService (String url)`

6.81.1 Detailed Description

Convenience class for clients to create web service objects.

Author

syelama

Version

Crossbow

6.81.2 Member Function Documentation

6.81.2.1 static HisEnrollmentWebService gov.niarl.sal.webservices.hisWebService.client.HisWebServicesClientInvoker.
getHisEnrollmentWebService (String url) [static]

Creates a HisEnrollmentWebService instance.

Parameters

url	The URL of the web application.
-----	---------------------------------

Returns

A HisEnrollmentWebService instance.

6.81.2.2 static HisPollingWebService gov.niarl.sal.webservices.hisWebService.client.HisWebServicesClientInvoker.getHis-
PollingWebService (String url) [static]

Creates a HisPollingWebService instance.

Parameters

url	The URL of the web application.
-----	---------------------------------

Returns

A HisPollingWebService instance.

6.81.2.3 static HisWebService gov.niarl.sal.webservices.hisWebService.client.HisWebServicesClientInvoker.getHisWeb-
Service (String url) [static]

Creates a stateful HisWebService object.

Parameters

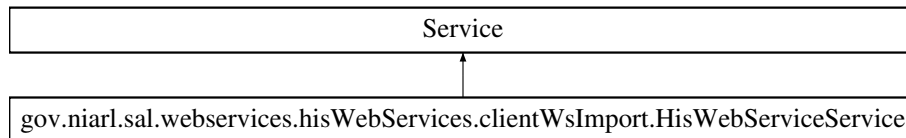
url	The URL of the web application.
-----	---------------------------------

Returns

A stateful HisWebService instance.

6.82 gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisWebServiceService Class Reference

Inheritance diagram for gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisWebServiceService:



Public Member Functions

- [HisWebServiceService](#) (URL wsdlLocation, QName serviceName)
- [HisWebServiceService](#) ()
- [HisWebService](#) getHisWebServicePort ()
- [HisWebService](#) getHisWebServicePort (WebServiceFeature...features)

Static Private Attributes

- static final URL [HISWEBSERVICESERVICE_WSDL_LOCATION](#)
- static final Logger [logger](#) = Logger.getLogger(gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisWebServiceService.class.getName())

6.82.1 Detailed Description

This class was generated by the JAX-WS RI. JAX-WS RI 2.1.7-b01- Generated source version: 2.1

6.82.2 Constructor & Destructor Documentation

6.82.2.1 `gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisWebServiceService.HisWebServiceService (URL wsdlLocation, QName serviceName)`

6.82.2.2 `gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisWebServiceService.HisWebServiceService ()`

6.82.3 Member Function Documentation

6.82.3.1 `HisWebService` `gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisWebServiceService.getHisWebServicePort ()`

Returns

returns [HisWebService](#)

6.82.3.2 HisWebService gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisWebServiceService.getHisWebServicePort (WebServiceFeature... features)

Parameters

<i>features</i>	A list of javax.xml.ws.WebServiceFeature to configure on the proxy. Supported features not in the <i>features</i> parameter will have their default values.
-----------------	---

Returns

returns [HisWebService](#)

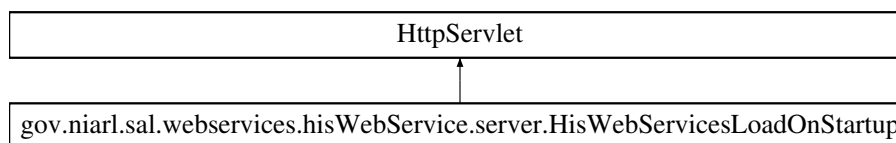
6.82.4 Member Data Documentation

6.82.4.1 final URL gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisWebServiceService.HISWEBSERVICESERVICE_WSDL_LOCATION [static], [private]

6.82.4.2 final Logger gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisWebServiceService.logger = Logger.getLogger(gov.niarl.sal.webservices.hisWebServices.clientWsImport.HisWebServiceService.class.getName()) [static], [private]

6.83 gov.niarl.sal.webservices.hisWebService.server.HisWebServicesLoadOnStartup Class Reference

Inheritance diagram for gov.niarl.sal.webservices.hisWebService.server.HisWebServicesLoadOnStartup:



Public Member Functions

- void [init](#) () throws ServletException

Static Private Attributes

- static Logger [logger](#) = Logger.getLogger(HisWebServicesLoadOnStartup.class)
- static final long [serialVersionUID](#) = 1L

6.83.1 Detailed Description

This class does functions needed at web server startup.

Author

syelama

Version

Crossbow

6.83.2 Member Function Documentation

6.83.2.1 void gov.niarl.sal.webservices.hisWebService.server.HisWebServicesLoadOnStartup.init () throws ServletException

6.83.3 Member Data Documentation

6.83.3.1 Logger gov.niarl.sal.webservices.hisWebService.server.HisWebServicesLoadOnStartup.logger =
Logger.getLogger(HisWebServicesLoadOnStartup.class) [static], [private]

6.83.3.2 final long gov.niarl.sal.webservices.hisWebService.server.HisWebServicesLoadOnStartup.serialVersionUID = 1L
[static], [private]

6.84 com.intel.openAttestation.AttestationService.hibernate.domain.HOST Class Reference

Public Member Functions

- Long [getID](#) ()
- void [setID](#) (Long iD)
- String [getHostName](#) ()
- void [setHostName](#) (String hostName)
- String [getIPAddress](#) ()
- void [setIPAddress](#) (String iPAddress)
- String [getPort](#) ()
- void [setPort](#) (String port)
- String [getEmail](#) ()
- void [setEmail](#) (String email)
- String [getAddOn_Connection_String](#) ()
- void [setAddOn_Connection_String](#) (String addOn_Connection_String)
- String [getDescription](#) ()
- void [setDescription](#) (String description)

Private Attributes

- Long [ID](#)
- String [HostName](#)
- String [IPAddress](#)
- String [Port](#)
- String [Email](#)
- String [AddOn_Connection_String](#)
- String [Description](#)

6.84.1 Detailed Description

Java class linked to the [HOST](#) table.

Author

intel

Version

OpenAttestation

6.84.2 Member Function Documentation

- 6.84.2.1 String `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.getAddOn_Connection_String ()`
- 6.84.2.2 String `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.getDescription ()`
- 6.84.2.3 String `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.getEmail ()`
- 6.84.2.4 String `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.getHostName ()`
- 6.84.2.5 Long `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.getID ()`
- 6.84.2.6 String `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.getIPAddress ()`
- 6.84.2.7 String `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.getPort ()`
- 6.84.2.8 void `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.setAddOn_Connection_String (String addOn_Connection_String)`
- 6.84.2.9 void `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.setDescription (String description)`
- 6.84.2.10 void `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.setEmail (String email)`
- 6.84.2.11 void `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.setHostName (String hostName)`
- 6.84.2.12 void `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.setID (Long iD)`
- 6.84.2.13 void `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.setIPAddress (String iPAddress)`
- 6.84.2.14 void `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.setPort (String port)`

6.84.3 Member Data Documentation

- 6.84.3.1 String `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.AddOn_Connection_String` [private]
- 6.84.3.2 String `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.Description` [private]
- 6.84.3.3 String `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.Email` [private]
- 6.84.3.4 String `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.HostName` [private]
- 6.84.3.5 Long `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.ID` [private]
- 6.84.3.6 String `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.IPAddress` [private]
- 6.84.3.7 String `com.intel.openAttestation.AttestationService.hibernate.domain.HOST.Port` [private]

6.85 com.intel.openAttestation.manifest.hibernate.domain.HOST Class Reference

Public Member Functions

- Long [getID](#) ()
- void [setID](#) (Long iD)
- String [getHostName](#) ()
- void [setHostName](#) (String hostName)

- String [getIPAddress](#) ()
- void [setIPAddress](#) (String iPAAddress)
- String [getPort](#) ()
- void [setPort](#) (String port)
- String [getEmail](#) ()
- void [setEmail](#) (String email)
- String [getAddOn_Connection_String](#) ()
- void [setAddOn_Connection_String](#) (String addOn_Connection_String)
- String [getDescription](#) ()
- void [setDescription](#) (String description)

Private Attributes

- Long [ID](#)
- String [HostName](#)
- String [IPAddress](#)
- String [Port](#)
- String [Email](#)
- String [AddOn_Connection_String](#)
- String [Description](#)

6.85.1 Detailed Description

Java class linked to the [HOST](#) table.

Author

intel

Version

OpenAttestation

6.85.2 Member Function Documentation

6.85.2.1 String com.intel.openAttestation.manifest.hibernate.domain.HOST.getAddOn_Connection_String ()

6.85.2.2 String com.intel.openAttestation.manifest.hibernate.domain.HOST.getDescription ()

6.85.2.3 String com.intel.openAttestation.manifest.hibernate.domain.HOST.getEmail ()

6.85.2.4 String com.intel.openAttestation.manifest.hibernate.domain.HOST.getHostName ()

6.85.2.5 Long com.intel.openAttestation.manifest.hibernate.domain.HOST.getID ()

6.85.2.6 String com.intel.openAttestation.manifest.hibernate.domain.HOST.getIPAddress ()

6.85.2.7 String com.intel.openAttestation.manifest.hibernate.domain.HOST.getPort ()

6.85.2.8 void com.intel.openAttestation.manifest.hibernate.domain.HOST.setAddOn_Connection_String (String *addOn_Connection_String*)

6.85.2.9 void com.intel.openAttestation.manifest.hibernate.domain.HOST.setDescription (String *description*)

6.85.2.10 void com.intel.openAttestation.manifest.hibernate.domain.HOST.setEmail (String *email*)

6.85.2.11 void com.intel.openAttestation.manifest.hibernate.domain.HOST.setHostName (String *hostName*)

6.85.2.12 void com.intel.openAttestation.manifest.hibernate.domain.HOST.setID (Long *iD*)

6.85.2.13 void com.intel.openAttestation.manifest.hibernate.domain.HOST.setIPAddress (String *iPAddress*)

6.85.2.14 void com.intel.openAttestation.manifest.hibernate.domain.HOST.setPort (String *port*)

6.85.3 Member Data Documentation

6.85.3.1 String com.intel.openAttestation.manifest.hibernate.domain.HOST.AddOn_Connection_String [private]

6.85.3.2 String com.intel.openAttestation.manifest.hibernate.domain.HOST.Description [private]

6.85.3.3 String com.intel.openAttestation.manifest.hibernate.domain.HOST.Email [private]

6.85.3.4 String com.intel.openAttestation.manifest.hibernate.domain.HOST.HostName [private]

6.85.3.5 Long com.intel.openAttestation.manifest.hibernate.domain.HOST.ID [private]

6.85.3.6 String com.intel.openAttestation.manifest.hibernate.domain.HOST.IPAddress [private]

6.85.3.7 String com.intel.openAttestation.manifest.hibernate.domain.HOST.Port [private]

6.86 gov.niarl.hisAppraiser.hibernate.domain.HOST Class Reference

Public Member Functions

- Long [getID](#) ()
- void [setID](#) (Long iD)
- String [getHostName](#) ()
- void [setHostName](#) (String hostName)
- String [getIPAddress](#) ()
- void [setIPAddress](#) (String iPAddress)
- String [getPort](#) ()
- void [setPort](#) (String port)
- String [getEmail](#) ()
- void [setEmail](#) (String email)
- String [getAddOn_Connection_String](#) ()
- void [setAddOn_Connection_String](#) (String addOn_Connection_String)
- String [getDescription](#) ()
- void [setDescription](#) (String description)

Private Attributes

- Long [ID](#)
- String [HostName](#)
- String [IPAddress](#)
- String [Port](#)
- String [Email](#)
- String [AddOn_Connection_String](#)
- String [Description](#)

6.86.1 Member Function Documentation

- 6.86.1.1 String gov.niarl.hisAppraiser.hibernate.domain.HOST.getAddOn_Connection_String ()
- 6.86.1.2 String gov.niarl.hisAppraiser.hibernate.domain.HOST.getDescription ()
- 6.86.1.3 String gov.niarl.hisAppraiser.hibernate.domain.HOST.getEmail ()
- 6.86.1.4 String gov.niarl.hisAppraiser.hibernate.domain.HOST.getHostName ()
- 6.86.1.5 Long gov.niarl.hisAppraiser.hibernate.domain.HOST.getID ()
- 6.86.1.6 String gov.niarl.hisAppraiser.hibernate.domain.HOST.getIPAddress ()
- 6.86.1.7 String gov.niarl.hisAppraiser.hibernate.domain.HOST.getPort ()
- 6.86.1.8 void gov.niarl.hisAppraiser.hibernate.domain.HOST.setAddOn_Connection_String (String *addOn_Connection_String*)
- 6.86.1.9 void gov.niarl.hisAppraiser.hibernate.domain.HOST.setDescription (String *description*)
- 6.86.1.10 void gov.niarl.hisAppraiser.hibernate.domain.HOST.setEmail (String *email*)
- 6.86.1.11 void gov.niarl.hisAppraiser.hibernate.domain.HOST.setHostName (String *hostName*)
- 6.86.1.12 void gov.niarl.hisAppraiser.hibernate.domain.HOST.setID (Long *iD*)
- 6.86.1.13 void gov.niarl.hisAppraiser.hibernate.domain.HOST.setIPAddress (String *iPAddress*)
- 6.86.1.14 void gov.niarl.hisAppraiser.hibernate.domain.HOST.setPort (String *port*)

6.86.2 Member Data Documentation

- 6.86.2.1 String gov.niarl.hisAppraiser.hibernate.domain.HOST.AddOn_Connection_String [private]
- 6.86.2.2 String gov.niarl.hisAppraiser.hibernate.domain.HOST.Description [private]
- 6.86.2.3 String gov.niarl.hisAppraiser.hibernate.domain.HOST.Email [private]
- 6.86.2.4 String gov.niarl.hisAppraiser.hibernate.domain.HOST.HostName [private]
- 6.86.2.5 Long gov.niarl.hisAppraiser.hibernate.domain.HOST.ID [private]
- 6.86.2.6 String gov.niarl.hisAppraiser.hibernate.domain.HOST.IPAddress [private]
- 6.86.2.7 String gov.niarl.hisAppraiser.hibernate.domain.HOST.Port [private]

6.87 com.intel.openAttestation.AttestationService.bean.Host Class Reference

Public Member Functions

- String [getTrust_lvl](#) ()
- void [setTrust_lvl](#) (String [trust_lvl](#))
- String [getError_details](#) ()
- void [setError_details](#) (String [error_details](#))
- List< [PCRValue](#) > [getPcr_values](#) ()

- void [setPcr_values](#) (List< [PCRValue](#) > [pcr_values](#))
- Date [getVtime](#) ()
- void [setVtime](#) (Date [vtime](#))
- String [getHost_name](#) ()
- void [setHost_name](#) (String [host_name](#))
- String [getURL](#) ()
- void [setURL](#) (String [url](#))
- List< [RespDetails](#) > [getDetails](#) ()
- void [setDetails](#) (List< [RespDetails](#) > [details](#))

Private Attributes

- String [host_name](#)
- String [trust_lvl](#)
- String [error_details](#)
- List< [PCRValue](#) > [pcr_values](#) = new ArrayList<[PCRValue](#)>()
- Date [vtime](#)
- String [URL](#)
- List< [RespDetails](#) > [details](#) = new ArrayList<[RespDetails](#)>()

6.87.1 Detailed Description

This class maps a JSON element used by the RESTful services [Host](#) and [PollHost](#). The service is realised with Jersey, that uses Jackson to convert Java objects to/from JSON.

6.87.2 Member Function Documentation

6.87.2.1 **POL New** List<[RespDetails](#)> [com.intel.openAttestation.AttestationService.bean.Host.getDetails](#) ()

Gets the current value of element details.

Returns

The value of element details.

6.87.2.2 String [com.intel.openAttestation.AttestationService.bean.Host.getError_details](#) ()

Gets the current value of element error_details.

Returns

The value of element error_details.

6.87.2.3 String [com.intel.openAttestation.AttestationService.bean.Host.getHost_name](#) ()

Gets the current value of element host_name.

Returns

The value of element host_name.

6.87.2.4 List<PCRValue> com.intel.openAttestation.AttestationService.bean.Host.getPcr_values ()

Gets the current value of element pcr_values.

Returns

The value of element pcr_values.

6.87.2.5 String com.intel.openAttestation.AttestationService.bean.Host.getTrust_lvl ()

Gets the current value of element trust_lvl.

Returns

The value of element trust_lvl.

6.87.2.6 **POL New** String com.intel.openAttestation.AttestationService.bean.Host.getURL ()

Gets the current value of element URL.

Returns

The value of element URL.

6.87.2.7 Date com.intel.openAttestation.AttestationService.bean.Host.getVtime ()

Gets the current value of element vtime.

Returns

The value of element vtime.

6.87.2.8 **POL New** void com.intel.openAttestation.AttestationService.bean.Host.setDetails (List< RespDetails > details)

Sets the value of element details.

Parameters

<i>details</i>	The value of element details
----------------	------------------------------

6.87.2.9 void com.intel.openAttestation.AttestationService.bean.Host.setError_details (String error_details)

Sets the value of element error_details.

Parameters

<i>error_details</i>	The value of element error_details
----------------------	------------------------------------

6.87.2.10 void com.intel.openAttestation.AttestationService.bean.Host.setHost_name (String host_name)

Sets the value of element host_name.

Parameters

<i>host_name</i>	The value of element host_name
------------------	--------------------------------

6.87.2.11 void com.intel.openAttestation.AttestationService.bean.Host.setPcr_values (List< PCRValue > *pcr_values*)

Sets the value of element pcr_values.

Parameters

<i>pcr_values</i>	The value of element pcr_values
-------------------	---------------------------------

6.87.2.12 void com.intel.openAttestation.AttestationService.bean.Host.setTrust_lvl (String *trust_lvl*)

Sets the value of element trust_lvl.

Parameters

<i>trust_lvl</i>	The value of element trust_lvl
------------------	--------------------------------

6.87.2.13 **POL New** void com.intel.openAttestation.AttestationService.bean.Host.setURL (String *url*)

Sets the value of element URL.

Parameters

<i>url</i>	The value of element URL
------------	--------------------------

6.87.2.14 void com.intel.openAttestation.AttestationService.bean.Host.setVtime (Date *vtime*)

Sets the value of element vtime.

Parameters

<i>vtime</i>	The value of element vtime
--------------	----------------------------

6.87.3 Member Data Documentation

6.87.3.1 List<RespDetails> com.intel.openAttestation.AttestationService.bean.Host.details = new ArrayList<RespDetails>() [private]

6.87.3.2 String com.intel.openAttestation.AttestationService.bean.Host.error_details [private]

6.87.3.3 String com.intel.openAttestation.AttestationService.bean.Host.host_name [private]

6.87.3.4 List<PCRValue> com.intel.openAttestation.AttestationService.bean.Host.pcr_values = new ArrayList<PCRValue>() [private]

6.87.3.5 String com.intel.openAttestation.AttestationService.bean.Host.trust_lvl [private]

6.87.3.6 String com.intel.openAttestation.AttestationService.bean.Host.URL [private]

6.87.3.7 Date com.intel.openAttestation.AttestationService.bean.Host.vtime [private]

6.88 gov.niarl.hisAppraiser.hibernate.domain.HOST_MLE Class Reference

Public Member Functions

- Long [getID](#) ()
- void [setID](#) (Long iD)
- [HOST](#) [getHost](#) ()
- void [setHost](#) ([HOST](#) host)
- [MLE](#) [getMle](#) ()
- void [setMle](#) ([MLE](#) mle)

Private Attributes

- Long [ID](#)
- [HOST](#) [host](#)
- [MLE](#) [mle](#)

6.88.1 Member Function Documentation

6.88.1.1 [HOST](#) gov.niarl.hisAppraiser.hibernate.domain.HOST_MLE.[getHost](#) ()

6.88.1.2 Long gov.niarl.hisAppraiser.hibernate.domain.HOST_MLE.[getID](#) ()

6.88.1.3 [MLE](#) gov.niarl.hisAppraiser.hibernate.domain.HOST_MLE.[getMle](#) ()

6.88.1.4 void gov.niarl.hisAppraiser.hibernate.domain.HOST_MLE.[setHost](#) ([HOST](#) *host*)

6.88.1.5 void gov.niarl.hisAppraiser.hibernate.domain.HOST_MLE.[setID](#) (Long *iD*)

6.88.1.6 void gov.niarl.hisAppraiser.hibernate.domain.HOST_MLE.[setMle](#) ([MLE](#) *mle*)

6.88.2 Member Data Documentation

6.88.2.1 [HOST](#) gov.niarl.hisAppraiser.hibernate.domain.HOST_MLE.[host](#) [private]

6.88.2.2 Long gov.niarl.hisAppraiser.hibernate.domain.HOST_MLE.[ID](#) [private]

6.88.2.3 [MLE](#) gov.niarl.hisAppraiser.hibernate.domain.HOST_MLE.[mle](#) [private]

6.89 com.intel.openAttestation.AttestationService.bean.HostBean Class Reference

Public Member Functions

- Long [getID](#) ()
- void [setID](#) (Long iD)
- String [getPort](#) ()
- void [setPort](#) (String port)
- String [getHostName](#) ()
- void [setHostName](#) (String hostName)
- String [getIPAddress](#) ()
- void [setIPAddress](#) (String iPAddress)

- String [getAddOn_Connection_String](#) ()
- void [setAddOn_Connection_String](#) (String addOn_Connection_String)
- String [getEmail](#) ()
- void [setEmail](#) (String email)
- String [getDescription](#) ()
- void [setDescription](#) (String description)
- String [getBIOSName](#) ()
- void [setBIOSName](#) (String BIOSName)
- String [getBIOSVersion](#) ()
- void [setBIOSVersion](#) (String BIOSVersion)
- String [getBIOSOem](#) ()
- void [setBIOSOem](#) (String BIOSOem)
- String [getVMMVersion](#) ()
- void [setVMMVersion](#) (String vMMVersion)
- String [getVMMOSName](#) ()
- void [setVMMOSName](#) (String vMMOSName)
- String [getVMMOSVersion](#) ()
- void [setVMMOSVersion](#) (String vMMOSVersion)
- String [getVMMName](#) ()
- void [setVMMName](#) (String vMMName)

Private Attributes

- Long [ID](#)
- String [HostName](#)
- String [IPAddress](#)
- String [Port](#)
- String [Email](#)
- String [AddOn_Connection_String](#)
- String [Description](#)
- String [BIOSName](#)
- String [BIOSVersion](#)
- String [BIOSOem](#)
- String [VMMName](#)
- String [VMMVersion](#)
- String [VMMOSName](#)
- String [VMMOSVersion](#)

6.89.1 Member Function Documentation

- 6.89.1.1 String [com.intel.openAttestation.AttestationService.bean.HostBean.getAddOn_Connection_String](#) ()
- 6.89.1.2 String [com.intel.openAttestation.AttestationService.bean.HostBean.getBIOSName](#) ()
- 6.89.1.3 String [com.intel.openAttestation.AttestationService.bean.HostBean.getBIOSOem](#) ()
- 6.89.1.4 String [com.intel.openAttestation.AttestationService.bean.HostBean.getBIOSVersion](#) ()
- 6.89.1.5 String [com.intel.openAttestation.AttestationService.bean.HostBean.getDescription](#) ()
- 6.89.1.6 String [com.intel.openAttestation.AttestationService.bean.HostBean.getEmail](#) ()
- 6.89.1.7 String [com.intel.openAttestation.AttestationService.bean.HostBean.getHostName](#) ()

- 6.89.1.8 Long com.intel.openAttestation.AttestationService.bean.HostBean.getID ()
- 6.89.1.9 String com.intel.openAttestation.AttestationService.bean.HostBean.getIPAddress ()
- 6.89.1.10 String com.intel.openAttestation.AttestationService.bean.HostBean.getPort ()
- 6.89.1.11 String com.intel.openAttestation.AttestationService.bean.HostBean.getVMMName ()
- 6.89.1.12 String com.intel.openAttestation.AttestationService.bean.HostBean.getVMMOSName ()
- 6.89.1.13 String com.intel.openAttestation.AttestationService.bean.HostBean.getVMMOSVersion ()
- 6.89.1.14 String com.intel.openAttestation.AttestationService.bean.HostBean.getVMMVersion ()
- 6.89.1.15 void com.intel.openAttestation.AttestationService.bean.HostBean.setAddOn_Connection_String (String *addOn_Connection_String*)
- 6.89.1.16 void com.intel.openAttestation.AttestationService.bean.HostBean.setBIOSName (String *biosName*)
- 6.89.1.17 void com.intel.openAttestation.AttestationService.bean.HostBean.setBIOSOem (String *biosOem*)
- 6.89.1.18 void com.intel.openAttestation.AttestationService.bean.HostBean.setBIOSVersion (String *biosVersion*)
- 6.89.1.19 void com.intel.openAttestation.AttestationService.bean.HostBean.setDescription (String *description*)
- 6.89.1.20 void com.intel.openAttestation.AttestationService.bean.HostBean.setEmail (String *email*)
- 6.89.1.21 void com.intel.openAttestation.AttestationService.bean.HostBean.setHostName (String *hostName*)
- 6.89.1.22 void com.intel.openAttestation.AttestationService.bean.HostBean.setID (Long *iD*)
- 6.89.1.23 void com.intel.openAttestation.AttestationService.bean.HostBean.setIPAddress (String *iPAddress*)
- 6.89.1.24 void com.intel.openAttestation.AttestationService.bean.HostBean.setPort (String *port*)
- 6.89.1.25 void com.intel.openAttestation.AttestationService.bean.HostBean.setVMMName (String *vMMName*)
- 6.89.1.26 void com.intel.openAttestation.AttestationService.bean.HostBean.setVMMOSName (String *vMMOSName*)
- 6.89.1.27 void com.intel.openAttestation.AttestationService.bean.HostBean.setVMMOSVersion (String *vMMOSVersion*)
- 6.89.1.28 void com.intel.openAttestation.AttestationService.bean.HostBean.setVMMVersion (String *vMMVersion*)

6.89.2 Member Data Documentation

- 6.89.2.1 String com.intel.openAttestation.AttestationService.bean.HostBean.AddOn_Connection_String [private]
- 6.89.2.2 String com.intel.openAttestation.AttestationService.bean.HostBean.BIOSName [private]
- 6.89.2.3 String com.intel.openAttestation.AttestationService.bean.HostBean.BIOSOem [private]
- 6.89.2.4 String com.intel.openAttestation.AttestationService.bean.HostBean.BIOSVersion [private]
- 6.89.2.5 String com.intel.openAttestation.AttestationService.bean.HostBean.Description [private]
- 6.89.2.6 String com.intel.openAttestation.AttestationService.bean.HostBean.Email [private]

- 6.89.2.7 String `com.intel.openAttestation.AttestationService.bean.HostBean.HostName` [private]
- 6.89.2.8 Long `com.intel.openAttestation.AttestationService.bean.HostBean.ID` [private]
- 6.89.2.9 String `com.intel.openAttestation.AttestationService.bean.HostBean.IPAddress` [private]
- 6.89.2.10 String `com.intel.openAttestation.AttestationService.bean.HostBean.Port` [private]
- 6.89.2.11 String `com.intel.openAttestation.AttestationService.bean.HostBean.VMMName` [private]
- 6.89.2.12 String `com.intel.openAttestation.AttestationService.bean.HostBean.VMMOSName` [private]
- 6.89.2.13 String `com.intel.openAttestation.AttestationService.bean.HostBean.VMMOSVersion` [private]
- 6.89.2.14 String `com.intel.openAttestation.AttestationService.bean.HostBean.VMMVersion` [private]

6.90 `com.intel.openAttestation.AttestationService.hibernate.dao.HOSTDAO` Class Reference

Public Member Functions

- [HOSTDAO](#) ()
- [HOST addHOSTEntry](#) ([HOST](#) HostEntry)
- [HOST updatehostEntry](#) ([HOST](#) host)
- [HOST DeleteHOSTEntry](#) (String HostName)
- boolean [isHOSTExisted](#) (String Name)
- long [getHostId](#) (String HostName)
- List< [AttestRequest](#) > [getRequestsByRequestId](#) (String requestId)
- [MachineCert](#) [getMachineCert](#) (String machineName)
- void [saveRequest](#) ([AttestRequest](#) req)
- [AttestRequest](#) [getLastAttestedRequest](#) (String hostName)
- [AttestRequest](#) [updateRequest](#) ([AttestRequest](#) req)
- [AttestRequest](#) [getRequestById](#) (Long id)
- boolean [checkOEM](#) (HashMap< String, String > attributes)
- void [addHostMle](#) ([HOST_MLE](#) hostMle)
- void [DeleteHostMle](#) ([HOST](#) host)

6.90.1 Detailed Description

This class serves as a central location for updates and queries against the host table

Author

intel

Version

OpenAttestation

6.90.2 Constructor & Destructor Documentation

6.90.2.1 `com.intel.openAttestation.AttestationService.hibernate.dao.HOSTDAO.HOSTDAO ()`

Constructor to start a hibernate transaction in case one has not already been started

6.90.3 Member Function Documentation

6.90.3.1 **HOST** com.intel.openAttestation.AttestationService.hibernate.dao.HOSTDAO.addHOSTEntry (*HOST HostEntry*)

6.90.3.2 void com.intel.openAttestation.AttestationService.hibernate.dao.HOSTDAO.addHostMle (*HOST_MLE hostMle*)

6.90.3.3 boolean com.intel.openAttestation.AttestationService.hibernate.dao.HOSTDAO.checkOEM (*HashMap< String, String> attributes*)

6.90.3.4 **HOST** com.intel.openAttestation.AttestationService.hibernate.dao.HOSTDAO.DeleteHOSTEntry (*String HostName*)

6.90.3.5 void com.intel.openAttestation.AttestationService.hibernate.dao.HOSTDAO.DeleteHostMle (*HOST host*)

6.90.3.6 long com.intel.openAttestation.AttestationService.hibernate.dao.HOSTDAO.getHostId (*String HostName*)

get hostID by HostName

Returns

6.90.3.7 **AttestRequest** com.intel.openAttestation.AttestationService.hibernate.dao.HOSTDAO.getLastAttestedRequest (*String hostName*)

6.90.3.8 **MachineCert** com.intel.openAttestation.AttestationService.hibernate.dao.HOSTDAO.getMachineCert (*String machineName*)

Obtain the active MachineCert row for a given machine name.

Parameters

<i>machineName</i>	Name of the machine of interest.
--------------------	----------------------------------

Returns

The MachineCert entry or null if the machine name has no active registrations

6.90.3.9 **AttestRequest** com.intel.openAttestation.AttestationService.hibernate.dao.HOSTDAO.getRequestById (*Long id*)

get request by id

Parameters

<i>id</i>	
-----------	--

Returns

6.90.3.10 **List<AttestRequest>** com.intel.openAttestation.AttestationService.hibernate.dao.HOSTDAO.getRequestsBy-RequestId (*String requestId*)

get requests by requestId

Parameters

<i>requestId</i>	
------------------	--

Returns

6.90.3.11 `boolean com.intel.openAttestation.AttestationService.hibernate.dao.HOSTDAO.isHOSTExisted (String Name)`

6.90.3.12 `void com.intel.openAttestation.AttestationService.hibernate.dao.HOSTDAO.saveRequest (AttestRequest req)`

save a request for given request

Parameters

<i>req</i>	
------------	--

6.90.3.13 `HOST com.intel.openAttestation.AttestationService.hibernate.dao.HOSTDAO.updatehostEntry (HOST host)`

6.90.3.14 `AttestRequest com.intel.openAttestation.AttestationService.hibernate.dao.HOSTDAO.updateRequest (AttestRequest req)`

6.91 com.intel.openAttestation.AttestationService.resource.HOSTResource Class Reference

Public Member Functions

- Response [addHOST](#) (@Context UriInfo uriInfo, [HostBean](#) hostFullObj,@Context javax.servlet.http.HttpServletRequest request)
- Response [updatehostEntry](#) (@Context UriInfo uriInfo, [HostBean](#) hostFullObj,@Context javax.servlet.http.HttpServletRequest request)
- Response [delhostEntry](#) (@QueryParam("hostName") String Name,@Context UriInfo uriInfo)
- Response [pollHosts](#) (@Context UriInfo uriInfo, [ReqAttestationBean](#) reqAttestation,@Context javax.servlet.http.HttpServletRequest request)

Static Public Member Functions

- static String [addRequests](#) ([ReqAttestationBean](#) reqAttestation, String requestHost, boolean isSync)
- static List< [AttestRequest](#) > [getRequestsByReqId](#) (String requestId)
- static boolean [isAllAttested](#) (String requestId)
- static [AttestRequest](#) [loadRequest](#) (Long id)

Static Private Attributes

- static Logger [logger](#) = Logger.getLogger("OpenAttestation")

6.91.1 Detailed Description

RESTful web service interface to work with HOST DB.

Author

wchen106 & lijuan

6.91.2 Member Function Documentation

6.91.2.1 Response com.intel.openAttestation.AttestationService.resource.HOSTResource.addHOST (@Context UriInfo *uriInfo*, HostBean *hostFullObj*, @Context javax.servlet.http.HttpServletRequest *request*)

Inserts new entry in HOST table. This function verifies that received values are valid and that proposed BIOS or OEM exists; if validation succeeded it writes the new entry on the database.

Parameters

<i>uriInfo</i>	An object UriInfo requested by RESTful service implementation
<i>analysisType-Bean</i>	The value to be inserted
<i>request</i>	An object HttpServletRequest used for RESTful service implementation

Returns

String "True" if request succeeded, error details otherwise.

6.91.2.2 **POL Mod** static String com.intel.openAttestation.AttestationService.resource.HOSTResource.addRequests (ReqAttestationBean *reqAttestation*, String *requestHost*, boolean *isSync*) [static]

Adds one entry to the table attest_request for each host found in the attestation request. Each entry shares the same requestId, that's returned by the function.

Modifications: The field next_action of table attest_request is set to SEND_REPORT if no previous valid report is found for requested host; otherwise its value equals the field next_measure (table audit_log) of the latest valid report.

Parameters

<i>reqAttestation</i>	The attestation request received by pollHost()
<i>requestHost</i>	The name of the host that requested the attestation
<i>isSync</i>	A boolean defining the type of request

Returns

The requestId of new entries.

6.91.2.3 Response com.intel.openAttestation.AttestationService.resource.HOSTResource.delhostEntry (@QueryParam("hostName") String *Name*, @Context UriInfo *uriInfo*)

Deletes an entry from HOST table. This function verifies that received name is valid and if so it deletes the corresponding entry from the database.

Parameters

<i>Name</i>	The identifier of the element to be deleted
<i>uriInfo</i>	An object UriInfo requested by RESTful service implementation

Returns

String "True" if request succeeded, error details otherwise.

6.91.2.4 `static List<AttestRequest> com.intel.openAttestation.AttestationService.resource.HOSTResource.getRequestsByReqId (String requestId) [static]`

Gets requests by specific requestId.

Parameters

<i>requestId</i>	The requestId of attestation request in table attest_request
------------------	--

Returns

The entries in table attest_request that match given requestId.

6.91.2.5 `static boolean com.intel.openAttestation.AttestationService.resource.HOSTResource.isAllAttested (String requestId) [static]`

Decides whether all hosts has attested for a given requestId.

Parameters

<i>requestId</i>	The requestId of attestation request in table attest_request
------------------	--

Returns

True if all has attested, else false.

6.91.2.6 `static AttestRequest com.intel.openAttestation.AttestationService.resource.HOSTResource.loadRequest (Long id) [static]`

Gets newest request by id.

Parameters

<i>id</i>	The id of attestation request in table attest_request
-----------	---

Returns

The requested entry.

6.91.2.7 `Response com.intel.openAttestation.AttestationService.resource.HOSTResource.pollHosts (@Context UriInfo uriInfo, ReqAttestationBean reqAttestation, @Context javax.servlet.http.HttpServletRequest request)`

Synchronous attest model: client sends hosts and pcrmask to be attested, server attest these hosts and return specific PCR values. in this model, the client will always wait the response of server

Parameters

<i>uriInfo</i>	An object UriInfo requested by RESTful service implementation
<i>reqAttestation</i>	The attestation request sent by the user
<i>request</i>	An object HttpServletRequest used for RESTful service implementation

Returns

JSON for the attestation results.

6.91.2.8 Response `com.intel.openAttestation.AttestationService.resource.HOSTResource.updatehostEntry (@Context UriInfo uriInfo, HostBean hostFullObj, @Context javax.servlet.http.HttpServletRequest request)`

Edits an entry in HOST table. This function verifies that received values are valid and that proposed BIOS or OEM exists; if validation succeeded it updates the entry according with the received object.

Parameters

<i>uriInfo</i>	An object UriInfo requested by RESTful service implementation
<i>analysisType-Bean</i>	The value to be edited
<i>request</i>	An object HttpServletRequest used for RESTful service implementation

Returns

String "True" if request succeeded, error details otherwise.

6.91.3 Member Data Documentation

6.91.3.1 Logger `com.intel.openAttestation.AttestationService.resource.HOSTResource.logger = Logger.getLogger("OpenAttestation")` `[static]`, `[private]`

6.92 gov.niarl.his.privacyca.IdentityOS Class Reference

Static Public Member Functions

- static int `osType ()`
- static boolean `isWindows ()`
- static boolean `isUnix ()`

6.92.1 Member Function Documentation

6.92.1.1 static boolean `gov.niarl.his.privacyca.IdentityOS.isUnix ()` `[static]`

6.92.1.2 static boolean `gov.niarl.his.privacyca.IdentityOS.isWindows ()` `[static]`

6.92.1.3 static int `gov.niarl.his.privacyca.IdentityOS.osType ()` `[static]`

6.93 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.Identity-RequestGetChallenge Class Reference

Public Member Functions

- `ByteArray getIdentityRequest ()`
- void `setIdentityRequest (ByteArray value)`
- `ByteArray getEndorsementCertificate ()`
- void `setEndorsementCertificate (ByteArray value)`

Protected Attributes

- [ByteArray](#) identityRequest
- [ByteArray](#) endorsementCertificate

6.93.1 Detailed Description

Java class for identityRequestGetChallenge complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="identityRequestGetChallenge">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="identityRequest" type="{http://server.hisPrivacyCAWebService2.webservices.h
        <element name="endorsementCertificate" type="{http://server.hisPrivacyCAWebService2.webse
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

6.93.2 Member Function Documentation

6.93.2.1 [ByteArray](#) gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.IdentityRequestGetChallenge.get-EndorsementCertificate ()

Gets the value of the endorsementCertificate property.

Returns

possible object is [ByteArray](#)

6.93.2.2 [ByteArray](#) gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.IdentityRequestGetChallenge.getIdentityRequest ()

Gets the value of the identityRequest property.

Returns

possible object is [ByteArray](#)

6.93.2.3 void gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.IdentityRequestGetChallenge.set-EndorsementCertificate ([ByteArray](#) value)

Sets the value of the endorsementCertificate property.

Parameters

<i>value</i>	allowed object is ByteArray
--------------	---

6.94 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.IdentityRequestGetChallenge-Response Class

Reference

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6.93.2.4 void gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.IdentityRequestGetChallenge.setIdentityRequest ([ByteArray](#) value)

Sets the value of the identityRequest property.

Parameters

value	allowed object is ByteArray
-------	---

6.93.3 Member Data Documentation

6.93.3.1 [ByteArray](#) gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.IdentityRequestGetChallenge.endorsementCertificate [protected]

6.93.3.2 [ByteArray](#) gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.IdentityRequestGetChallenge.identityRequest [protected]

6.94 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.IdentityRequestGetChallengeResponse Class Reference

Public Member Functions

- [ByteArray](#) getIdentityRequestChallenge ()
- void setIdentityRequestChallenge ([ByteArray](#) value)

Protected Attributes

- [ByteArray](#) identityRequestChallenge

6.94.1 Detailed Description

Java class for identityRequestGetChallengeResponse complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="identityRequestGetChallengeResponse">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="identityRequestChallenge" type="{http://server.hisPrivacyCAWebService2.webs}</sequence>
      </restriction>
    </complexContent>
  </complexType>
```

6.94.2 Member Function Documentation

6.94.2.1 [ByteArray](#) gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.IdentityRequestGetChallengeResponse.getIdentityRequestChallenge ()

Gets the value of the identityRequestChallenge property.

Returns

possible object is [ByteArray](#)

6.94.2.2 void gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.IdentityRequestGetChallengeResponse.set-IdentityRequestChallenge ([ByteArray](#) *value*)

Sets the value of the identityRequestChallenge property.

Parameters

<i>value</i>	allowed object is ByteArray
--------------	---

6.94.3 Member Data Documentation

6.94.3.1 [ByteArray](#) gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.IdentityRequestGetChallengeResponse.identityRequestChallenge [protected]

6.95 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.IdentityRequestSubmitResponse Class Reference

Public Member Functions

- [ByteArray](#) getIdentityRequestResponseToChallenge ()
- void setIdentityRequestResponseToChallenge ([ByteArray](#) *value*)

Protected Attributes

- [ByteArray](#) identityRequestResponseToChallenge

6.95.1 Detailed Description

Java class for identityRequestSubmitResponse complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="identityRequestSubmitResponse">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="identityRequestResponseToChallenge" type="{http://server.hisPrivacyCAWebServices2}identityRequestResponseToChallenge" />
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

6.95.2 Member Function Documentation

6.95.2.1 [ByteArray](#) gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.IdentityRequestSubmitResponse.getIdentityRequestResponseToChallenge ()

Gets the value of the identityRequestResponseToChallenge property.

Returns

possible object is [ByteArray](#)

6.96 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.IdentityRequestSubmitResponseResponse Class

Reference

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6.95.2.2 void gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.IdentityRequestSubmitResponse.setIdentityRequestResponseToChallenge ([ByteArray](#) *value*)

Sets the value of the identityRequestResponseToChallenge property.

Parameters

<i>value</i>	allowed object is ByteArray
--------------	---

6.95.3 Member Data Documentation

6.95.3.1 [ByteArray](#) gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.IdentityRequestSubmitResponse.identityRequestResponseToChallenge [protected]

6.96 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.IdentityRequestSubmitResponseResponse Class Reference

Public Member Functions

- [ByteArray](#) getEncryptedCertificate ()
- void setEncryptedCertificate ([ByteArray](#) *value*)

Protected Attributes

- [ByteArray](#) encryptedCertificate

6.96.1 Detailed Description

Java class for identityRequestSubmitResponseResponse complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="identityRequestSubmitResponseResponse">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="encryptedCertificate" type="{http://server.hisPrivacyCAWebService2.webservices}encryptedCertificate" />
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

6.96.2 Member Function Documentation

6.96.2.1 [ByteArray](#) gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.IdentityRequestSubmitResponseResponse.getEncryptedCertificate ()

Gets the value of the encryptedCertificate property.

Returns

possible object is [ByteArray](#)

6.96.2.2 void gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.IdentityRequestSubmitResponseResponse.
setEncryptedCertificate ([ByteArray](#) *value*)

Sets the value of the encryptedCertificate property.

Parameters

<i>value</i>	allowed object is ByteArray
--------------	---

6.96.3 Member Data Documentation

6.96.3.1 [ByteArray](#) gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWslImport.IdentityRequestSubmitResponse-
Response.encryptedCertificate [protected]

6.97 gov.niarl.his.privacyca.idResponse Class Reference

Public Member Functions

- [idResponse](#) ([TpmAsymCaContents](#) asym, [TpmSymCaAttestation](#) sym)
- [byte\[\] toByteArray](#) () throws [TpmUtils.TpmUnsignedConversionException](#), [PrivacyCaException](#)
- [TpmAsymCaContents getAsymPart](#) ()
- [TpmSymCaAttestation getSymPart](#) ()
- void [setAsymPart](#) ([TpmAsymCaContents](#) newPart)
- void [setSymPart](#) ([TpmSymCaAttestation](#) newPart)
- [idResponse](#) ([TpmAsymCaContents](#) asym, [TpmSymCaAttestation](#) sym)
- [byte\[\] toByteArray](#) () throws [TpmUtils.TpmUnsignedConversionException](#), [PrivacyCaException](#)
- [TpmAsymCaContents getAsymPart](#) ()
- [TpmSymCaAttestation getSymPart](#) ()
- void [setAsymPart](#) ([TpmAsymCaContents](#) newPart)
- void [setSymPart](#) ([TpmSymCaAttestation](#) newPart)

Private Attributes

- [TpmAsymCaContents asymPart](#)
- [TpmSymCaAttestation symPart](#)

6.97.1 Detailed Description

This class is needed to provide a return type for the `utils.processIdentityRequest` function that includes both the Symmetric and Asymmetric parts of the Privacy CA's response. It is simply a holding container. The data is not manipulated in any way, except as needed for formatting.

Author

schawki

6.97.2 Constructor & Destructor Documentation

6.97.2.1 gov.niarl.his.privacyca.idResponse.idResponse ([TpmAsymCaContents](#) *asym*, [TpmSymCaAttestation](#) *sym*)

Create a new [idResponse](#) of the supplied TPM_ASYM_CA_CONTENTS and TPM_SYM_CA_ATTESTATION structures.

Parameters

<i>asym</i>	TPM_ASYM_CA_CONTENTS
<i>sym</i>	TPM_SYM_CA_ATTESTATION

6.97.2.2 gov.niarl.his.privacyca.idResponse.idResponse (TpmAsymCaContents *asym*, TpmSymCaAttestation *sym*)

Create a new [idResponse](#) of the supplied TPM_ASYM_CA_CONTENTS and TPM_SYM_CA_ATTESTATION structures.

Parameters

<i>asym</i>	TPM_ASYM_CA_CONTENTS
<i>sym</i>	TPM_SYM_CA_ATTESTATION

6.97.3 Member Function Documentation**6.97.3.1** TpmAsymCaContents gov.niarl.his.privacyca.idResponse.getAsymPart ()

Asym getter function.

Returns

Asymmetric portion of [idResponse](#).

6.97.3.2 TpmAsymCaContents gov.niarl.his.privacyca.idResponse.getAsymPart ()

Asym getter function.

Returns

Asymmetric portion of [idResponse](#).

6.97.3.3 TpmSymCaAttestation gov.niarl.his.privacyca.idResponse.getSymPart ()

Sym getter function.

Returns

Symmetric portion of [idResponse](#).

6.97.3.4 TpmSymCaAttestation gov.niarl.his.privacyca.idResponse.getSymPart ()

Sym getter function.

Returns

Symmetric portion of [idResponse](#).

6.97.3.5 void gov.niarl.his.privacyca.idResponse.setAsymPart (TpmAsymCaContents *newPart*)

Asym setter function.

Parameters

<i>newPart</i>	
----------------	--

6.97.3.6 void gov.niarl.his.privacyca.idResponse.setAsymPart (TpmAsymCaContents *newPart*)

Asym setter function.

Parameters

<i>newPart</i>	
----------------	--

6.97.3.7 void gov.niarl.his.privacyca.idResponse.setSymPart (TpmSymCaAttestation *newPart*)

Sym setter function.

Parameters

<i>newPart</i>	
----------------	--

6.97.3.8 void gov.niarl.his.privacyca.idResponse.setSymPart (TpmSymCaAttestation *newPart*)

Sym setter function.

Parameters

<i>newPart</i>	
----------------	--

6.97.3.9 byte [] gov.niarl.his.privacyca.idResponse.toByteArray () throws TpmUtils.TpmUnsignedConversionException, PrivacyCaException

If needed, this function provides a byte array of the Asym and Sym parts of the response concatenated together.

Returns

Byte array form of the [idResponse](#) (asym + sym).

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	Thrown if bad data is encountered when assembling the byte array.
PrivacyCaException	Thrown if either part is not complete and ready to be turned into a byte array.

6.97.3.10 byte [] gov.niarl.his.privacyca.idResponse.toByteArray () throws TpmUtils.TpmUnsignedConversionException, PrivacyCaException

If needed, this function provides a byte array of the Asym and Sym parts of the response concatenated together.

Returns

Byte array form of the [idResponse](#) (asym + sym).

Exceptions

<i>TpmUtils.TpmUnsigned-ConversionException</i>	Thrown if bad data is encountered when assembling the byte array.
<i>PrivacyCaException</i>	Thrown if either part is not complete and ready to be turned into a byte array.

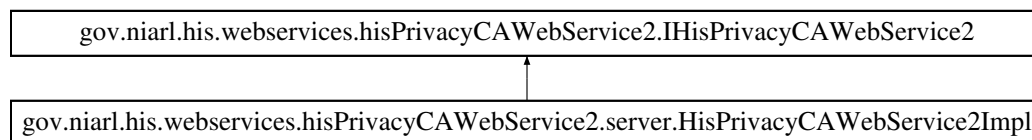
6.97.4 Member Data Documentation

6.97.4.1 **TpmAsymCaContents** gov.niarl.his.privacyca.idResponse.asymPart [private]

6.97.4.2 **TpmSymCaAttestation** gov.niarl.his.privacyca.idResponse.symPart [private]

6.98 gov.niarl.his.webservices.hisPrivacyCAWebService2.IHisPrivacyCAWebService2 Interface Reference

Inheritance diagram for gov.niarl.his.webservices.hisPrivacyCAWebService2.IHisPrivacyCAWebService2:



Public Member Functions

- byte[] [identityRequestGetChallenge](#) (byte[] identityRequest, byte[] endorsementCertificate)
- byte[] [identityRequestSubmitResponse](#) (byte[] identityRequestResponseToChallenge)
- byte[] [requestGetEC](#) (byte[] encryptedEkMod, byte[] encryptedDeskey, int ecValidDays)

6.98.1 Detailed Description

This interface defines the web service functions.

Author

schawki

6.98.2 Member Function Documentation

6.98.2.1 byte [] gov.niarl.his.webservices.hisPrivacyCAWebService2.IHisPrivacyCAWebService2.identityRequestGetChallenge (byte[] identityRequest, byte[] endorsementCertificate)

Parameters

<i>identityRequest</i>	
<i>endorsement-Certificate</i>	

Returns

Implemented in [gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl](#).

6.98.2.2 `byte [] gov.niarl.his.webservices.hisPrivacyCAWebService2.IHisPrivacyCAWebService2.identityRequestSubmitResponse (byte[] identityRequestResponseToChallenge)`

Implemented in [gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl](#).

6.98.2.3 `byte [] gov.niarl.his.webservices.hisPrivacyCAWebService2.IHisPrivacyCAWebService2.requestGetEC (byte[] encryptedEkMod, byte[] encryptedDeskey, int ecValidDays)`

Implemented in [gov.niarl.his.webservices.hisPrivacyCAWebService2.server.HisPrivacyCAWebService2Impl](#).

6.99 **POL New** gov.niarl.hisAppraiser.hibernate.domain.IMAMeasures Class Reference

Public Member Functions

- [IMAMeasures](#) ()
- [IMAMeasures](#) ([AuditLog](#) report, String IMA)
- Long [getId](#) ()
- void [setId](#) (Long id)
- String [getIMA](#) ()
- void [setIMA](#) (String ima)
- [AuditLog](#) [getReport](#) ()
- void [setReport](#) ([AuditLog](#) report)

6.99.1 Detailed Description

This class is required by Hibernate for mapping of table IMA_measures.

Author

Nicola Barresi (POL)

6.99.2 Constructor & Destructor Documentation

6.99.2.1 `gov.niarl.hisAppraiser.hibernate.domain.IMAMeasures.IMAMeasures ()`

Default Constructor.

6.99.2.2 `gov.niarl.hisAppraiser.hibernate.domain.IMAMeasures.IMAMeasures (AuditLog report, String IMA)`

Constructor setting the value of fields audit_id and IMA_row in table IMA_measures.

Parameters

<i>report</i>	The object AuditLog that maps field audit_id
<i>IMA</i>	The value of field IMA_row

6.99.3 Member Function Documentation

6.99.3.1 `Long gov.niarl.hisAppraiser.hibernate.domain.IMAMeasures.getId ()`

Gets the current value of field id in table IMA_measures.

Returns

The value of field id.

6.99.3.2 String gov.niarl.hisAppraiser.hibernate.domain.IMAMeasures.getIMA ()

Gets the current value of field IMA_row in table IMA_measures.

Returns

The value of field IMA_row.

6.99.3.3 AuditLog gov.niarl.hisAppraiser.hibernate.domain.IMAMeasures.getReport ()

Gets the current value of field audit_id in table IMA_measures.

Returns

The object [AuditLog](#) that maps field audit_id.

6.99.3.4 void gov.niarl.hisAppraiser.hibernate.domain.IMAMeasures.setId (Long id)

Sets the value of field id in table IMA_measures.

Parameters

<i>id</i>	The value of field id
-----------	-----------------------

6.99.3.5 void gov.niarl.hisAppraiser.hibernate.domain.IMAMeasures.setIMA (String ima)

Sets the value of field IMA_row in table IMA_measures.

Parameters

<i>ima</i>	The value of field IMA_row
------------	----------------------------

6.99.3.6 void gov.niarl.hisAppraiser.hibernate.domain.IMAMeasures.setReport (AuditLog report)

Sets the value of field audit_id in table IMA_measures.

Parameters

<i>report</i>	The object AuditLog that maps field audit_id
---------------	--

6.100 **POL New** gov.niarl.hisAppraiser.hibernate.dao.IMAMeasuresDao Class Reference

Public Member Functions

- [IMAMeasuresDao](#) ()
- void [saveMeasure](#) ([IMAMeasures](#) imaMeasure)
- [IMAMeasures](#) [getIMAMeasure](#) (long id)

- String [getIMAMeasureByAuditID](#) (long id)

6.100.1 Detailed Description

This class serves as a central location for updates and queries against the IMA_measures table.

Author

Nicola Barresi (POL)

6.100.2 Constructor & Destructor Documentation

6.100.2.1 `gov.niarl.hisAppraiser.hibernate.dao.IMAMeasuresDao.IMAMeasuresDao ()`

Constructor starting a Hibernate transaction in case one has not been started yet.

6.100.3 Member Function Documentation

6.100.3.1 `IMAMeasures gov.niarl.hisAppraiser.hibernate.dao.IMAMeasuresDao.getIMAMeasure (long id)`

Retrieves an IMAMeasures entry based on the primary key. The function gets current Hibernate session and queries the database looking for the requested primary key.

Parameters

<i>id</i>	The id or primary key of the needed IMAMeasures entry
-----------	---

Returns

The IMAMeasures entry retrieved from the database.

6.100.3.2 `String gov.niarl.hisAppraiser.hibernate.dao.IMAMeasuresDao.getIMAMeasureByAuditID (long id)`

Retrieves all IMAMeasures linked to a given AuditLog. The function gets current Hibernate session and queries the database looking for entries whose audit_log_id field matches the received one. The value of field IMA_row for all of the retrieved entries are concatenated in a string and returned.

Parameters

<i>id</i>	The audit_log_id of the needed IMAMeasures entries
-----------	--

Returns

The concatenated values of IMA_row fields retrieved from the database.

6.100.3.3 `void gov.niarl.hisAppraiser.hibernate.dao.IMAMeasuresDao.saveMeasure (IMAMeasures imaMeasure)`

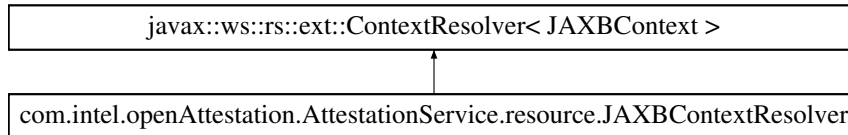
Saves an IMAMeasures. The function gets current Hibernate session, saves object received as input and finally commits the transaction.

Parameters

<i>imaMeasure</i>	IMAMeasures entry to save
-------------------	---------------------------

6.101 com.intel.openAttestation.AttestationService.resource.JAXBContextResolver Class Reference

Inheritance diagram for com.intel.openAttestation.AttestationService.resource.JAXBContextResolver:



Public Member Functions

- [JAXBContextResolver](#) () throws Exception
- JAXBContext [getContext](#) (Class<?> objectType)

Private Attributes

- JAXBContext [context](#)
- Class[] [types](#) = {Host.class, AttestationResponseFault.class, PCRValue.class, ReqAttestationBean.class, RequestBean.class, RespSyncBean.class}

6.101.1 Constructor & Destructor Documentation

- 6.101.1.1 com.intel.openAttestation.AttestationService.resource.JAXBContextResolver.JAXBContextResolver () throws Exception

6.101.2 Member Function Documentation

- 6.101.2.1 JAXBContext com.intel.openAttestation.AttestationService.resource.JAXBContextResolver.getContext (Class<?> objectType)

6.101.3 Member Data Documentation

- 6.101.3.1 JAXBContext com.intel.openAttestation.AttestationService.resource.JAXBContextResolver.context [private]
- 6.101.3.2 Class [] com.intel.openAttestation.AttestationService.resource.JAXBContextResolver.types = {Host.class, AttestationResponseFault.class, PCRValue.class, ReqAttestationBean.class, RequestBean.class, RespSyncBean.class} [private]

6.102 gov.niarl.his.privacyca.LPSliveCdPrep Class Reference

Static Public Member Functions

- static void [main](#) (String[] args)

6.102.1 Detailed Description

This class is used to setup an LPS bootable CD. This should be run during the boot process. No unique data for any particular machine is stored on the LPS CD, as the CD may be used on many different machines. the HIS client requires that each machine have a unique machine name, which must be associated with a particular TPM. The

client must have provisioned an AIK and registered the corresponding AIC with the HIS appraiser using the unique machine name. This is true for all HIS clients. LPS/bootable-CD HIS clients differ from traditional HIS clients in that the unique name is derived from the TPM's Endorsement Key (EK), and the AIK is stored in the TPM's NVRAM. The main function in this class is supposed to set the hostname on the system, extract the AIK from the TPM's NVRAM, and set that AIK for use by the normal HIS Standalone Client.

This class is designed to run even if the machine booting to the LPS CD has not been provisioned. However, if this is done the AIK will not be properly registered. The failure to load and register an AIK on the system will not be obvious to a user on the system. Even though the hostname could be derived without being provisioned, this program will set the hostname to "LPS-NoProvision" if the AIK could not be found. This should indicate to the user that the machine must be provisioned for HIS.

Registration can be performed by running the LPSprovisioner class.

Author

schawki

6.102.2 Member Function Documentation

6.102.2.1 `static void gov.niarl.his.privacyca.LPSliveCdPrep.main (String[] args) [static]`

Entry point into the program.

6.103 gov.niarl.hisAppraiser.hibernate.domain.MachineCert Class Reference

Public Member Functions

- Long [getId](#) ()
- void [setId](#) (Long id)
- String [getMachineName](#) ()
- void [setMachineName](#) (String machineName)
- String [getCertificate](#) ()
- void [setCertificate](#) (String certificate)
- Boolean [getActive](#) ()
- void [setActive](#) (Boolean active)
- Date [getTimestamp](#) ()
- void [setTimestamp](#) (Date timestamp)
- [MachineCert](#) [getPrivacyCaMachineCert](#) ()
- void [setPrivacyCaMachineCert](#) ([MachineCert](#) privacyCaMachineCert)
- Date [getLastPoll](#) ()
- void [setLastPoll](#) (Date lastPoll)
- Integer [getNextAction](#) ()
- void [setNextAction](#) (Integer nextAction)
- String [getPollArgs](#) ()
- void [setPollArgs](#) (String pollArgs)

Static Public Attributes

- static final String [PRIVACY_CA_NAME](#) = "_privacyca"

6.103.1 Detailed Description

Java class linked to the [MachineCert](#) table.

Author

syelama

Version

Crossbow

6.103.2 Member Function Documentation

6.103.2.1 Boolean gov.niarl.hisAppraiser.hibernate.domain.MachineCert.getActive ()

Returns

the active

6.103.2.2 String gov.niarl.hisAppraiser.hibernate.domain.MachineCert.getCertificate ()

Returns

the certificate

6.103.2.3 Long gov.niarl.hisAppraiser.hibernate.domain.MachineCert.getId ()

Returns

the id

6.103.2.4 Date gov.niarl.hisAppraiser.hibernate.domain.MachineCert.getLastPoll ()

Returns

the lastPoll

6.103.2.5 String gov.niarl.hisAppraiser.hibernate.domain.MachineCert.getMachineName ()

Returns

the machineName

6.103.2.6 Integer gov.niarl.hisAppraiser.hibernate.domain.MachineCert.getNextAction ()

Returns

the nextAction

6.103.2.7 String gov.niarl.hisAppraiser.hibernate.domain.MachineCert.getPollArgs ()

Returns

the pollArgs

6.103.2.8 **MachineCert** gov.niarl.hisAppraiser.hibernate.domain.MachineCert.getPrivacyCaMachineCert ()

Returns

the privacyCaMachineCert

6.103.2.9 **Date** gov.niarl.hisAppraiser.hibernate.domain.MachineCert.getTimestamp ()

Returns

the timestamp

6.103.2.10 **void** gov.niarl.hisAppraiser.hibernate.domain.MachineCert.setActive (**Boolean** *active*)

Parameters

<i>active</i>	the active to set
---------------	-------------------

6.103.2.11 **void** gov.niarl.hisAppraiser.hibernate.domain.MachineCert.setCertificate (**String** *certificate*)

Parameters

<i>certificate</i>	the certificate to set
--------------------	------------------------

6.103.2.12 **void** gov.niarl.hisAppraiser.hibernate.domain.MachineCert.setId (**Long** *id*)

Parameters

<i>id</i>	the id to set
-----------	---------------

6.103.2.13 **void** gov.niarl.hisAppraiser.hibernate.domain.MachineCert.setLastPoll (**Date** *lastPoll*)

Parameters

<i>lastPoll</i>	the lastPoll to set
-----------------	---------------------

6.103.2.14 **void** gov.niarl.hisAppraiser.hibernate.domain.MachineCert.setMachineName (**String** *machineName*)

Parameters

<i>machineName</i>	the machineName to set
--------------------	------------------------

6.103.2.15 **void** gov.niarl.hisAppraiser.hibernate.domain.MachineCert.setNextAction (**Integer** *nextAction*)

Parameters

<i>nextAction</i>	the nextAction to set
-------------------	-----------------------

6.103.2.16 **void** gov.niarl.hisAppraiser.hibernate.domain.MachineCert.setPollArgs (**String** *pollArgs*)

Parameters

<i>pollArgs</i>	the pollArgs to set
-----------------	---------------------

6.103.2.17 void gov.niarl.hisAppraiser.hibernate.domain.MachineCert.setPrivacyCaMachineCert (MachineCert
privacyCaMachineCert)

Parameters

<i>privacyCa-MachineCert</i>	the privacyCaMachineCert to set
------------------------------	---------------------------------

6.103.2.18 void gov.niarl.hisAppraiser.hibernate.domain.MachineCert.setTimestamp (Date *timestamp*)

Parameters

<i>timestamp</i>	the timestamp to set
------------------	----------------------

6.103.3 Member Data Documentation

6.103.3.1 final String gov.niarl.hisAppraiser.hibernate.domain.MachineCert.PRIVACY_CA_NAME = "_privacyca" [static]

Central location to set the machine name linked to the privacy CA

6.104 Main Class Reference

Static Public Member Functions

- static void [main](#) ()

6.104.1 Detailed Description

The main class is used for testing purposes only. It acts as a client to connect to the web service. It cannot fully interact with the web service because it does not interact with a TPM or TPM emulator.

Author

schawki

6.104.2 Member Function Documentation

6.104.2.1 static void Main.main () [static]

Entry point into the program.

6.105 gov.niarl.hisAppraiser.hibernate.dao.MeasureDao Class Reference

Public Member Functions

- [MeasureDao](#) ()
- void [saveMeasureLog](#) (MeasureLog measureLog, TxtLog txtLog, List< [Module](#) > modules)

- List< String > [getModuleNamesByMeasureLog](#) ([MeasureLog](#) *measureLog*)
- List< String > [getModuleNames](#) ()

6.105.1 Constructor & Destructor Documentation

6.105.1.1 `gov.niarl.hisAppraiser.hibernate.dao.MeasureDao.MeasureDao ()`

6.105.2 Member Function Documentation

6.105.2.1 List<String> `gov.niarl.hisAppraiser.hibernate.dao.MeasureDao.getModuleNames ()`

6.105.2.2 List<String> `gov.niarl.hisAppraiser.hibernate.dao.MeasureDao.getModuleNamesByMeasureLog (MeasureLog measureLog)`

6.105.2.3 `void gov.niarl.hisAppraiser.hibernate.dao.MeasureDao.saveMeasureLog (MeasureLog measureLog, TxtLog txtLog, List< Module > modules)`

This saves an [MeasureLog](#)

Parameters

<i>measureLog</i>	MeasureLog entry to save
-------------------	--

6.106 gov.niarl.hisAppraiser.hibernate.domain.MeasureLog Class Reference

Public Member Functions

- Long [getId](#) ()
- void [setId](#) (Long *id*)
- [AuditLog](#) [getAuditLog](#) ()
- void [setAuditLog](#) ([AuditLog](#) *auditLog*)
- Integer [getTxtStatus](#) ()
- void [setTxtStatus](#) (Integer *txtStatus*)

Private Attributes

- Long *id*
- [AuditLog](#) *auditLog*
- Integer *txtStatus*

6.106.1 Member Function Documentation

6.106.1.1 `AuditLog gov.niarl.hisAppraiser.hibernate.domain.MeasureLog.getAuditLog ()`

6.106.1.2 `Long gov.niarl.hisAppraiser.hibernate.domain.MeasureLog.getId ()`

6.106.1.3 `Integer gov.niarl.hisAppraiser.hibernate.domain.MeasureLog.getTxtStatus ()`

6.106.1.4 `void gov.niarl.hisAppraiser.hibernate.domain.MeasureLog.setAuditLog (AuditLog auditLog)`

6.106.1.5 `void gov.niarl.hisAppraiser.hibernate.domain.MeasureLog.setId (Long id)`

6.106.1.6 void gov.niarl.hisAppraiser.hibernate.domain.MeasureLog.setTextStatus (Integer *txtStatus*)

6.106.2 Member Data Documentation

6.106.2.1 AuditLog gov.niarl.hisAppraiser.hibernate.domain.MeasureLog.auditLog [private]

6.106.2.2 Long gov.niarl.hisAppraiser.hibernate.domain.MeasureLog.id [private]

6.106.2.3 Integer gov.niarl.hisAppraiser.hibernate.domain.MeasureLog.txtStatus [private]

6.107 com.intel.openAttestation.manifest.hibernate.domain.MLE Class Reference

Public Member Functions

- Long [getMLEID](#) ()
- void [setMLEID](#) (Long mLEID)
- String [getName](#) ()
- void [setName](#) (String name)
- String [getVersion](#) ()
- void [setVersion](#) (String version)
- OEM [getOem](#) ()
- void [setOem](#) (OEM oem)
- OS [getOs](#) ()
- void [setOs](#) (OS os)
- String [getAttestation_Type](#) ()
- void [setAttestation_Type](#) (String attestation_Type)
- String [getMLE_Type](#) ()
- void [setMLE_Type](#) (String mLE_Type)
- String [getDescription](#) ()
- void [setDescription](#) (String description)

Private Attributes

- Long [MLEID](#)
- String [Name](#)
- String [Version](#)
- OEM [oem](#)
- OS [os](#)
- String [Attestation_Type](#)
- String [MLE_Type](#)
- String [Description](#)

6.107.1 Member Function Documentation

6.107.1.1 String com.intel.openAttestation.manifest.hibernate.domain.MLE.getAttestation_Type ()

6.107.1.2 String com.intel.openAttestation.manifest.hibernate.domain.MLE.getDescription ()

6.107.1.3 String com.intel.openAttestation.manifest.hibernate.domain.MLE.getMLE_Type ()

6.107.1.4 Long com.intel.openAttestation.manifest.hibernate.domain.MLE.getMLEID ()

6.107.1.5 String com.intel.openAttestation.manifest.hibernate.domain.MLE.getName ()

- 6.107.1.6 OEM com.intel.openAttestation.manifest.hibernate.domain.MLE.getOem ()
- 6.107.1.7 OS com.intel.openAttestation.manifest.hibernate.domain.MLE.getOs ()
- 6.107.1.8 String com.intel.openAttestation.manifest.hibernate.domain.MLE.getVersion ()
- 6.107.1.9 void com.intel.openAttestation.manifest.hibernate.domain.MLE.setAttestation_Type (String *attestation_Type*)
- 6.107.1.10 void com.intel.openAttestation.manifest.hibernate.domain.MLE.setDescription (String *description*)
- 6.107.1.11 void com.intel.openAttestation.manifest.hibernate.domain.MLE.setMLE_Type (String *mLE_Type*)
- 6.107.1.12 void com.intel.openAttestation.manifest.hibernate.domain.MLE.setMLEID (Long *mLEID*)
- 6.107.1.13 void com.intel.openAttestation.manifest.hibernate.domain.MLE.setName (String *name*)
- 6.107.1.14 void com.intel.openAttestation.manifest.hibernate.domain.MLE.setOem (OEM *oem*)
- 6.107.1.15 void com.intel.openAttestation.manifest.hibernate.domain.MLE.setOs (OS *os*)
- 6.107.1.16 void com.intel.openAttestation.manifest.hibernate.domain.MLE.setVersion (String *version*)

6.107.2 Member Data Documentation

- 6.107.2.1 String com.intel.openAttestation.manifest.hibernate.domain.MLE.Attestation_Type [private]
- 6.107.2.2 String com.intel.openAttestation.manifest.hibernate.domain.MLE.Description [private]
- 6.107.2.3 String com.intel.openAttestation.manifest.hibernate.domain.MLE.MLE_Type [private]
- 6.107.2.4 Long com.intel.openAttestation.manifest.hibernate.domain.MLE.MLEID [private]
- 6.107.2.5 String com.intel.openAttestation.manifest.hibernate.domain.MLE.Name [private]
- 6.107.2.6 OEM com.intel.openAttestation.manifest.hibernate.domain.MLE.oem [private]
- 6.107.2.7 OS com.intel.openAttestation.manifest.hibernate.domain.MLE.os [private]
- 6.107.2.8 String com.intel.openAttestation.manifest.hibernate.domain.MLE.Version [private]

6.108 gov.niarl.hisAppraiser.hibernate.domain.MLE Class Reference

Public Member Functions

- Long [getMLEID](#) ()
- void [setMLEID](#) (Long mLEID)
- String [getName](#) ()
- void [setName](#) (String name)
- String [getVersion](#) ()
- void [setVersion](#) (String version)
- OEM [getOem](#) ()
- void [setOem](#) (OEM oem)
- OS [getOs](#) ()
- void [setOs](#) (OS os)
- String [getAttestation_Type](#) ()

- void [setAttestation_Type](#) (String *attestation_Type*)
- String [getMLE_Type](#) ()
- void [setMLE_Type](#) (String *mLE_Type*)
- String [getDescription](#) ()
- void [setDescription](#) (String *description*)

Private Attributes

- Long [MLEID](#)
- String [Name](#)
- String [Version](#)
- OEM [oem](#)
- OS [os](#)
- String [Attestation_Type](#)
- String [MLE_Type](#)
- String [Description](#)

6.108.1 Member Function Documentation

- 6.108.1.1 String gov.niarl.hisAppraiser.hibernate.domain.MLE.getAttestation_Type ()
- 6.108.1.2 String gov.niarl.hisAppraiser.hibernate.domain.MLE.getDescription ()
- 6.108.1.3 String gov.niarl.hisAppraiser.hibernate.domain.MLE.getMLE_Type ()
- 6.108.1.4 Long gov.niarl.hisAppraiser.hibernate.domain.MLE.getMLEID ()
- 6.108.1.5 String gov.niarl.hisAppraiser.hibernate.domain.MLE.getName ()
- 6.108.1.6 OEM gov.niarl.hisAppraiser.hibernate.domain.MLE.getOem ()
- 6.108.1.7 OS gov.niarl.hisAppraiser.hibernate.domain.MLE.getOs ()
- 6.108.1.8 String gov.niarl.hisAppraiser.hibernate.domain.MLE.getVersion ()
- 6.108.1.9 void gov.niarl.hisAppraiser.hibernate.domain.MLE.setAttestation_Type (String *attestation_Type*)
- 6.108.1.10 void gov.niarl.hisAppraiser.hibernate.domain.MLE.setDescription (String *description*)
- 6.108.1.11 void gov.niarl.hisAppraiser.hibernate.domain.MLE.setMLE_Type (String *mLE_Type*)
- 6.108.1.12 void gov.niarl.hisAppraiser.hibernate.domain.MLE.setMLEID (Long *mLEID*)
- 6.108.1.13 void gov.niarl.hisAppraiser.hibernate.domain.MLE.setName (String *name*)
- 6.108.1.14 void gov.niarl.hisAppraiser.hibernate.domain.MLE.setOem (OEM *oem*)
- 6.108.1.15 void gov.niarl.hisAppraiser.hibernate.domain.MLE.setOs (OS *os*)
- 6.108.1.16 void gov.niarl.hisAppraiser.hibernate.domain.MLE.setVersion (String *version*)

6.108.2 Member Data Documentation

- 6.108.2.1 String gov.niarl.hisAppraiser.hibernate.domain.MLE.Attestation_Type [private]

- 6.108.2.2 String gov.niarl.hisAppraiser.hibernate.domain.MLE.Description [private]
- 6.108.2.3 String gov.niarl.hisAppraiser.hibernate.domain.MLE.MLE_Type [private]
- 6.108.2.4 Long gov.niarl.hisAppraiser.hibernate.domain.MLE.MLEID [private]
- 6.108.2.5 String gov.niarl.hisAppraiser.hibernate.domain.MLE.Name [private]
- 6.108.2.6 OEM gov.niarl.hisAppraiser.hibernate.domain.MLE.oem [private]
- 6.108.2.7 OS gov.niarl.hisAppraiser.hibernate.domain.MLE.os [private]
- 6.108.2.8 String gov.niarl.hisAppraiser.hibernate.domain.MLE.Version [private]

6.109 com.intel.openAttestation.manifest.bean.MLE_Manifest Class Reference

Public Member Functions

- String [getName](#) ()
- void [setName](#) (String name)
- String [getValue](#) ()
- void [setValue](#) (String value)

Private Attributes

- String [Name](#)
- String [Value](#)

6.109.1 Member Function Documentation

- 6.109.1.1 String com.intel.openAttestation.manifest.bean.MLE_Manifest.getName ()
- 6.109.1.2 String com.intel.openAttestation.manifest.bean.MLE_Manifest.getValue ()
- 6.109.1.3 void com.intel.openAttestation.manifest.bean.MLE_Manifest.setName (String *name*)
- 6.109.1.4 void com.intel.openAttestation.manifest.bean.MLE_Manifest.setValue (String *value*)

6.109.2 Member Data Documentation

- 6.109.2.1 String com.intel.openAttestation.manifest.bean.MLE_Manifest.Name [private]
- 6.109.2.2 String com.intel.openAttestation.manifest.bean.MLE_Manifest.Value [private]

6.110 com.intel.openAttestation.manifest.bean.MLEBean Class Reference

Public Member Functions

- String [getName](#) ()
- void [setName](#) (String name)
- String [getVersion](#) ()
- void [setVersion](#) (String version)
- String [getOsName](#) ()

- void [setOsName](#) (String osName)
- String [getOsVersion](#) ()
- void [setOsVersion](#) (String osVersion)
- String [getOemName](#) ()
- void [setOemName](#) (String oemName)
- String [getOemDescription](#) ()
- void [setOemDescription](#) (String oemDescription)
- String [getAttestation_Type](#) ()
- void [setAttestation_Type](#) (String attestation_Type)
- String [getMLE_Type](#) ()
- void [setMLE_Type](#) (String mLE_Type)
- String [getDescription](#) ()
- void [setDescription](#) (String description)
- List< [MLE_Manifest](#) > [getMLE_Manifests](#) ()
- void [setMLE_Manifests](#) (List< [MLE_Manifest](#) > mLE_Manifests)

Private Attributes

- String [Name](#)
- String [Version](#)
- String [OsName](#)
- String [OsVersion](#)
- String [OemName](#)
- String [OemDescription](#)
- String [Attestation_Type](#)
- String [MLE_Type](#)
- String [Description](#)
- List< [MLE_Manifest](#) > [MLE_Manifests](#)

6.110.1 Member Function Documentation

6.110.1.1 String com.intel.openAttestation.manifest.bean.MLEBean.getAttestation_Type ()

6.110.1.2 String com.intel.openAttestation.manifest.bean.MLEBean.getDescription ()

6.110.1.3 List<[MLE_Manifest](#)> com.intel.openAttestation.manifest.bean.MLEBean.getMLe_Manifests ()

6.110.1.4 String com.intel.openAttestation.manifest.bean.MLEBean.getMLe_Type ()

6.110.1.5 String com.intel.openAttestation.manifest.bean.MLEBean.getName ()

6.110.1.6 String com.intel.openAttestation.manifest.bean.MLEBean.getOemDescription ()

6.110.1.7 String com.intel.openAttestation.manifest.bean.MLEBean.getOemName ()

6.110.1.8 String com.intel.openAttestation.manifest.bean.MLEBean.getOsName ()

6.110.1.9 String com.intel.openAttestation.manifest.bean.MLEBean.getOsVersion ()

6.110.1.10 String com.intel.openAttestation.manifest.bean.MLEBean.getVersion ()

6.110.1.11 void com.intel.openAttestation.manifest.bean.MLEBean.setAttestation_Type (String *attestation_Type*)

6.110.1.12 void com.intel.openAttestation.manifest.bean.MLEBean.setDescription (String *description*)

- 6.110.1.13 void com.intel.openAttestation.manifest.bean.MLEBean.setMLE_Manifests (List< MLE_Manifest > mLE_Manifests)
- 6.110.1.14 void com.intel.openAttestation.manifest.bean.MLEBean.setMLE_Type (String mLE_Type)
- 6.110.1.15 void com.intel.openAttestation.manifest.bean.MLEBean.setName (String name)
- 6.110.1.16 void com.intel.openAttestation.manifest.bean.MLEBean.setOemDescription (String oemDescription)
- 6.110.1.17 void com.intel.openAttestation.manifest.bean.MLEBean.setOemName (String oemName)
- 6.110.1.18 void com.intel.openAttestation.manifest.bean.MLEBean.setOsName (String osName)
- 6.110.1.19 void com.intel.openAttestation.manifest.bean.MLEBean.setOsVersion (String osVersion)
- 6.110.1.20 void com.intel.openAttestation.manifest.bean.MLEBean.setVersion (String version)

6.110.2 Member Data Documentation

- 6.110.2.1 String com.intel.openAttestation.manifest.bean.MLEBean.Attestation_Type [private]
- 6.110.2.2 String com.intel.openAttestation.manifest.bean.MLEBean.Description [private]
- 6.110.2.3 List<MLE_Manifest> com.intel.openAttestation.manifest.bean.MLEBean.MLE_Manifests [private]
- 6.110.2.4 String com.intel.openAttestation.manifest.bean.MLEBean.MLE_Type [private]
- 6.110.2.5 String com.intel.openAttestation.manifest.bean.MLEBean.Name [private]
- 6.110.2.6 String com.intel.openAttestation.manifest.bean.MLEBean.OemDescription [private]
- 6.110.2.7 String com.intel.openAttestation.manifest.bean.MLEBean.OemName [private]
- 6.110.2.8 String com.intel.openAttestation.manifest.bean.MLEBean.OsName [private]
- 6.110.2.9 String com.intel.openAttestation.manifest.bean.MLEBean.OsVersion [private]
- 6.110.2.10 String com.intel.openAttestation.manifest.bean.MLEBean.Version [private]

6.111 com.intel.openAttestation.AttestationService.hibernate.dao.MLEDAO Class Reference

Public Member Functions

- [MLEDAO](#) ()
- [MLE getMLE](#) (HostBean hostFullObj, int order)
- void [updateMle](#) (MLE mle)

6.111.1 Detailed Description

This class serves as a central location for updates and queries against the OEM table

Author

Lijuan

Version

OpenAttestation

6.111.2 Constructor & Destructor Documentation

6.111.2.1 com.intel.openAttestation.AttestationService.hibernate.dao.MLEDAO.MLEDAO ()

Constructor to start a hibernate transaction in case one has not already been started

6.111.3 Member Function Documentation

6.111.3.1 MLE com.intel.openAttestation.AttestationService.hibernate.dao.MLEDAO.getMLE (*HostBean hostFullObj*, *int order*)

6.111.3.2 void com.intel.openAttestation.AttestationService.hibernate.dao.MLEDAO.updateMle (*MLE mle*)

6.112 com.intel.openAttestation.manifest.hibernate.dao.MLEDAO Class Reference

Public Member Functions

- [MLEDAO \(\)](#)
- [MLE queryMLEidByNameAndVersionAndOEMid](#) (String Name, String Version, String OEMname)
- [MLE queryMLEidByNameAndVersionAndOSid](#) (String Name, String Version, String OSname, String OSversion)
- boolean [isOEMExisted](#) (String Name)
- boolean [isMLEExisted](#) (String Name, String version)
- [OEM addOEMEntry](#) (OEM OEMEntry)
- [MLE addMLEEntry](#) (MLE MLEEntry)
- [MLE getMLE](#) (String Name, String Version)
- void [editMLEDesc](#) (String mleName, String mleVersion, String description)
- void [DeleteOEMEntry](#) (String OEMName)
- [MLE DeleteMLEEntry](#) (String name, String version)
- boolean [isMLEExisted](#) (String name, String version, String osName, String osVersion, String oemName)
- [OEM queryOEMByNameAndVersionAndOEMid](#) (String Name, String Version, String OEMname)
- [OS queryOSByNameAndVersionAndOSid](#) (String Name, String Version, String OSname, String OSversion)
- List< [MLE](#) > [getAlIMLEEntries](#) ()
- [OEM queryOEMByMLEID](#) (long id)
- [OS queryOSByMLEID](#) (long id)
- [MLE queryMLEByCriteria](#) (String criteria, String type, Long mleID)

6.112.1 Constructor & Destructor Documentation

6.112.1.1 com.intel.openAttestation.manifest.hibernate.dao.MLEDAO.MLEDAO ()

Constructor to start a hibernate transaction in case one has not already been started

6.112.2 Member Function Documentation

- 6.112.2.1 **MLE** com.intel.openAttestation.manifest.hibernate.dao.MLEDAO.addMLEEntry (**MLE** *MLEEntry*)
- 6.112.2.2 **OEM** com.intel.openAttestation.manifest.hibernate.dao.MLEDAO.addOEMEntry (**OEM** *OEMEntry*)
- 6.112.2.3 **MLE** com.intel.openAttestation.manifest.hibernate.dao.MLEDAO.DeleteMLEEntry (*String name*, *String version*)
- 6.112.2.4 **void** com.intel.openAttestation.manifest.hibernate.dao.MLEDAO.DeleteOEMEntry (*String OEMName*)
- 6.112.2.5 **void** com.intel.openAttestation.manifest.hibernate.dao.MLEDAO.editMLEDesc (*String mleName*, *String mleVersion*, *String description*)
- 6.112.2.6 **List<MLE>** com.intel.openAttestation.manifest.hibernate.dao.MLEDAO.getAllMLEEntries ()
- 6.112.2.7 **MLE** com.intel.openAttestation.manifest.hibernate.dao.MLEDAO.getMLE (*String Name*, *String Version*)
- 6.112.2.8 **boolean** com.intel.openAttestation.manifest.hibernate.dao.MLEDAO.isMLEExisted (*String Name*, *String version*)
- 6.112.2.9 **boolean** com.intel.openAttestation.manifest.hibernate.dao.MLEDAO.isMLEExisted (*String name*, *String version*, *String osName*, *String osVersion*, *String oemName*)
- 6.112.2.10 **boolean** com.intel.openAttestation.manifest.hibernate.dao.MLEDAO.isOEMExisted (*String Name*)
- 6.112.2.11 **MLE** com.intel.openAttestation.manifest.hibernate.dao.MLEDAO.queryMLEByCriteria (*String criteria*, *String type*, *Long mleID*)
- 6.112.2.12 **MLE** com.intel.openAttestation.manifest.hibernate.dao.MLEDAO.queryMLEidByNameAndVersionAndOEMid (*String Name*, *String Version*, *String OEMname*)
- 6.112.2.13 **MLE** com.intel.openAttestation.manifest.hibernate.dao.MLEDAO.queryMLEidByNameAndVersionAndOSid (*String Name*, *String Version*, *String OSname*, *String OSversion*)
- 6.112.2.14 **OEM** com.intel.openAttestation.manifest.hibernate.dao.MLEDAO.queryOEMByMLEID (*long id*)
- 6.112.2.15 **OEM** com.intel.openAttestation.manifest.hibernate.dao.MLEDAO.queryOEMByNameAndVersionAndOEMid (*String Name*, *String Version*, *String OEMname*)
- 6.112.2.16 **OS** com.intel.openAttestation.manifest.hibernate.dao.MLEDAO.queryOSByMLEID (*long id*)
- 6.112.2.17 **OS** com.intel.openAttestation.manifest.hibernate.dao.MLEDAO.queryOSByNameAndVersionAndOSid (*String Name*, *String Version*, *String OSname*, *String OSversion*)

6.113 com.intel.openAttestation.manifest.resource.MLEResource Class Reference

Public Member Functions

- Response [addMLE](#) (@Context UriInfo uriInfo, [MLEBean](#) mleBean, @Context javax.servlet.http.HttpServletRequest request)
- Response [updateMLE](#) (@Context UriInfo uriInfo, [MLEBean](#) mleBean, @Context javax.servlet.http.HttpServletRequest request)
- Response [delMLEEntry](#) (@QueryParam("mleName") String name, @QueryParam("mleVersion") String version, @QueryParam("osName") String osName, @QueryParam("osVersion") String osVersion, @QueryParam("oemName") String oemName, @Context UriInfo uriInfo)
- List< [MLEBean](#) > [searchMLE](#) (@QueryParam("searchCriteria") String criteria)

- [MLEBean](#) [getMLEEntry](#) (@QueryParam("mleName") String name,@QueryParam("mleVersion") String version,@QueryParam("osName") String osName,@QueryParam("osVersion") String osVersion,@QueryParam("oemName") String oemName,@Context UriInfo uriInfo)

6.113.1 Detailed Description

RESTful web service interface to work with MLE DB.

Author

6.113.2 Member Function Documentation

- 6.113.2.1 Response `com.intel.openAttestation.manifest.resource.MLEResource.addMLE (@Context UriInfo uriInfo, MLEBean mleBean, @Context javax.servlet.http.HttpServletRequest request)`
- 6.113.2.2 Response `com.intel.openAttestation.manifest.resource.MLEResource.delMLEEntry (@QueryParam("mleName") String name, @QueryParam("mleVersion") String version, @QueryParam("osName") String osName, @QueryParam("osVersion") String osVersion, @QueryParam("oemName") String oemName, @Context UriInfo uriInfo)`
- 6.113.2.3 [MLEBean](#) `com.intel.openAttestation.manifest.resource.MLEResource.getMLEEntry (@QueryParam("mleName") String name, @QueryParam("mleVersion") String version, @QueryParam("osName") String osName, @QueryParam("osVersion") String osVersion, @QueryParam("oemName") String oemName, @Context UriInfo uriInfo)`
- 6.113.2.4 `List<MLEBean> com.intel.openAttestation.manifest.resource.MLEResource.searchMLE (@QueryParam("searchCriteria") String criteria)`
- 6.113.2.5 Response `com.intel.openAttestation.manifest.resource.MLEResource.updateMLE (@Context UriInfo uriInfo, MLEBean mleBean, @Context javax.servlet.http.HttpServletRequest request)`

6.114 gov.niarl.hisAppraiser.hibernate.domain.Module Class Reference

Public Member Functions

- Long [getId](#) ()
- void [setId](#) (Long [id](#))
- [MeasureLog](#) [getMeasureLog](#) ()
- void [setMeasureLog](#) ([MeasureLog](#) [measureLog](#))
- String [getModuleName](#) ()
- void [setModuleName](#) (String [moduleName](#))
- String [getModuleValue](#) ()
- void [setModuleValue](#) (String [moduleValue](#))
- Integer [getPcrNumber](#) ()
- void [setPcrNumber](#) (Integer [pcrNumber](#))

Private Attributes

- Long [id](#)
- [MeasureLog](#) [measureLog](#)
- String [moduleName](#)
- String [moduleValue](#)
- Integer [pcrNumber](#)

6.114.1 Member Function Documentation

- 6.114.1.1 Long gov.niarl.hisAppraiser.hibernate.domain.Module.getId ()
- 6.114.1.2 MeasureLog gov.niarl.hisAppraiser.hibernate.domain.Module.getMeasureLog ()
- 6.114.1.3 String gov.niarl.hisAppraiser.hibernate.domain.Module.getModuleName ()
- 6.114.1.4 String gov.niarl.hisAppraiser.hibernate.domain.Module.getModuleValue ()
- 6.114.1.5 Integer gov.niarl.hisAppraiser.hibernate.domain.Module.getPcrNumber ()
- 6.114.1.6 void gov.niarl.hisAppraiser.hibernate.domain.Module.setId (Long *id*)
- 6.114.1.7 void gov.niarl.hisAppraiser.hibernate.domain.Module.setMeasureLog (MeasureLog *measureLog*)
- 6.114.1.8 void gov.niarl.hisAppraiser.hibernate.domain.Module.setModuleName (String *moduleName*)
- 6.114.1.9 void gov.niarl.hisAppraiser.hibernate.domain.Module.setModuleValue (String *moduleValue*)
- 6.114.1.10 void gov.niarl.hisAppraiser.hibernate.domain.Module.setPcrNumber (Integer *pcrNumber*)

6.114.2 Member Data Documentation

- 6.114.2.1 Long gov.niarl.hisAppraiser.hibernate.domain.Module.id [private]
- 6.114.2.2 MeasureLog gov.niarl.hisAppraiser.hibernate.domain.Module.measureLog [private]
- 6.114.2.3 String gov.niarl.hisAppraiser.hibernate.domain.Module.moduleName [private]
- 6.114.2.4 String gov.niarl.hisAppraiser.hibernate.domain.Module.moduleValue [private]
- 6.114.2.5 Integer gov.niarl.hisAppraiser.hibernate.domain.Module.pcrNumber [private]

6.115 gov.niarl.sal.webservices.hisWebService.server.domain.NonceSelect Class Reference

Public Member Functions

- Quote [getQuote](#) ()
- void [setQuote](#) (Quote quote)
- byte[] [getNonce](#) ()
- void [setNonce](#) (byte[] nonce)
- byte[] [getSelect](#) ()
- void [setSelect](#) (byte[] select)

6.115.1 Detailed Description

This class is return from the [HisWebService](#) and contains information needed by the client to generate integrity reports.

Author

syelama

Version

Crossbow

6.115.2 Member Function Documentation

6.115.2.1 `byte [] gov.niarl.sal.webservices.hisWebService.server.domain.NonceSelect.getNonce ()`

Returns

the nonce

6.115.2.2 `Quote gov.niarl.sal.webservices.hisWebService.server.domain.NonceSelect.getQuote ()`

Returns

the quote

6.115.2.3 `byte [] gov.niarl.sal.webservices.hisWebService.server.domain.NonceSelect.select ()`

Returns

the select

6.115.2.4 `void gov.niarl.sal.webservices.hisWebService.server.domain.NonceSelect.setNonce (byte[] nonce)`

Parameters

<i>nonce</i>	the nonce to set
--------------	------------------

6.115.2.5 `void gov.niarl.sal.webservices.hisWebService.server.domain.NonceSelect.setQuote (Quote quote)`

Parameters

<i>quote</i>	the quote to set
--------------	------------------

6.115.2.6 `void gov.niarl.sal.webservices.hisWebService.server.domain.NonceSelect.setSelect (byte[] select)`

Parameters

<i>select</i>	the select to set
---------------	-------------------

6.116 gov.niarl.sal.webservices.hisWebServices.clientWsImport.NonceSelect Class Reference

Public Member Functions

- `byte[] getNonce ()`
- `void setNonce (byte[] value)`
- `Quote getQuote ()`
- `void setQuote (Quote value)`
- `byte[] select ()`

- void [setSelect](#) (byte[] value)

Protected Attributes

- byte[] [nonce](#)
- [Quote](#) [quote](#)
- byte[] [select](#)

6.116.1 Detailed Description

Java class for nonceSelect complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="nonceSelect">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="nonce" type="{http://www.w3.org/2001/XMLSchema}base64Binary" minOccurs="0"/>
        <element name="quote" type="{http://server.hisWebService.webservices.sal.niarl.gov/}quote" minOccurs="0"/>
        <element name="select" type="{http://www.w3.org/2001/XMLSchema}base64Binary" minOccurs="0"/>
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

6.116.2 Member Function Documentation

6.116.2.1 byte [] gov.niarl.sal.webservices.hisWebServices.clientWsImport.NonceSelect.getNonce ()

Gets the value of the nonce property.

Returns

possible object is byte[]

6.116.2.2 Quote gov.niarl.sal.webservices.hisWebServices.clientWsImport.NonceSelect.getQuote ()

Gets the value of the quote property.

Returns

possible object is [Quote](#)

6.116.2.3 byte [] gov.niarl.sal.webservices.hisWebServices.clientWsImport.NonceSelect.getSelect ()

Gets the value of the select property.

Returns

possible object is byte[]

6.116.2.4 void gov.niarl.sal.webservices.hisWebServices.clientWslImport.NonceSelect.setNonce (byte[] value)

Sets the value of the nonce property.

Parameters

value	allowed object is byte[]
-------	--------------------------

6.116.2.5 void gov.niarl.sal.webservices.hisWebServices.clientWslImport.NonceSelect.setQuote (Quote value)

Sets the value of the quote property.

Parameters

value	allowed object is Quote
-------	---

6.116.2.6 void gov.niarl.sal.webservices.hisWebServices.clientWslImport.NonceSelect.setSelect (byte[] value)

Sets the value of the select property.

Parameters

value	allowed object is byte[]
-------	--------------------------

6.116.3 Member Data Documentation

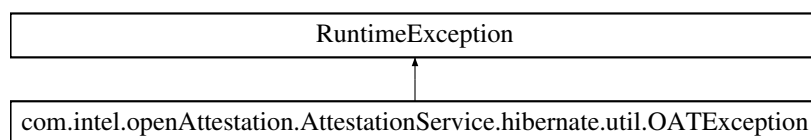
6.116.3.1 byte [] gov.niarl.sal.webservices.hisWebServices.clientWslImport.NonceSelect.nonce [protected]

6.116.3.2 Quote gov.niarl.sal.webservices.hisWebServices.clientWslImport.NonceSelect.quote [protected]

6.116.3.3 byte [] gov.niarl.sal.webservices.hisWebServices.clientWslImport.NonceSelect.select [protected]

6.117 com.intel.openAttestation.AttestationService.hibernate.util.OATException Class Reference

Inheritance diagram for com.intel.openAttestation.AttestationService.hibernate.util.OATException:



Public Member Functions

- [OATException](#) (Throwable cause)

Static Private Attributes

- static final long [serialVersionUID](#) = 1L

6.117.1 Constructor & Destructor Documentation

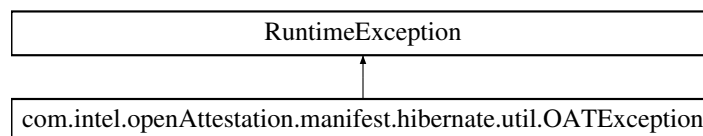
6.117.1.1 `com.intel.openAttestation.AttestationService.hibernate.util.OATException.OATException (Throwable cause)`

6.117.2 Member Data Documentation

6.117.2.1 `final long com.intel.openAttestation.AttestationService.hibernate.util.OATException serialVersionUID = 1L`
`[static], [private]`

6.118 com.intel.openAttestation.manifest.hibernate.util.OATException Class Reference

Inheritance diagram for `com.intel.openAttestation.manifest.hibernate.util.OATException`:



Public Member Functions

- [OATException](#) (Throwable cause)

Static Private Attributes

- static final long [serialVersionUID](#) = 1L

6.118.1 Constructor & Destructor Documentation

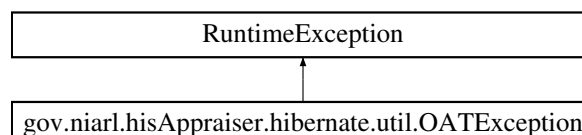
6.118.1.1 `com.intel.openAttestation.manifest.hibernate.util.OATException.OATException (Throwable cause)`

6.118.2 Member Data Documentation

6.118.2.1 `final long com.intel.openAttestation.manifest.hibernate.util.OATException serialVersionUID = 1L` `[static],`
`[private]`

6.119 gov.niarl.hisAppraiser.hibernate.util.OATException Class Reference

Inheritance diagram for `gov.niarl.hisAppraiser.hibernate.util.OATException`:



Public Member Functions

- [OATException](#) (Throwable cause)

Static Private Attributes

- static final long [serialVersionUID](#) = 1L

6.119.1 Constructor & Destructor Documentation

6.119.1.1 [gov.niarl.hisAppraiser.hibernate.util.OATException.OATException \(Throwable cause \)](#)

6.119.2 Member Data Documentation

6.119.2.1 final long [gov.niarl.hisAppraiser.hibernate.util.OATException.serialVersionUID](#) = 1L [static], [private]

6.120 gov.niarl.sal.webservices.hisWebServices.clientWsImport.ObjectFactory Class Reference

Public Member Functions

- [ObjectFactory \(\)](#)
- [GetNextActionResponse createGetNextActionResponse \(\)](#)
- [ActionDelay createActionDelay \(\)](#)
- [GetNextAction createGetNextAction \(\)](#)
- JAXBELEMENT< [GetNextAction](#) > [createGetNextAction \(GetNextAction value\)](#)
- JAXBELEMENT< [GetNextActionResponse](#) > [createGetNextActionResponse \(GetNextActionResponse value\)](#)

Static Private Attributes

- static final QName [_GetNextAction_QNAME](#) = new QName("http://server.hisWebService.webservices.sal-niarl.gov/", "getNextAction")
- static final QName [_GetNextActionResponse_QNAME](#) = new QName("http://server.hisWebService-webservices.sal-niarl.gov/", "getNextActionResponse")

6.120.1 Detailed Description

This object contains factory methods for each Java content interface and Java element interface generated in the [gov.niarl.sal.webservices.hisWebServices.clientWsImport](#) package.

An [ObjectFactory](#) allows you to programatically construct new instances of the Java representation for XML content. The Java representation of XML content can consist of schema derived interfaces and classes representing the binding of schema type definitions, element declarations and model groups. Factory methods for each of these are provided in this class.

6.120.2 Constructor & Destructor Documentation

6.120.2.1 [gov.niarl.sal.webservices.hisWebServices.clientWsImport.ObjectFactory.ObjectFactory \(\)](#)

Create a new [ObjectFactory](#) that can be used to create new instances of schema derived classes for package: [gov.niarl.sal.webservices.hisWebServices.clientWsImport](#)

6.120.3 Member Function Documentation

6.120.3.1 **ActionDelay** gov.niarl.sal.webservices.hisWebServices.clientWsImport.ObjectFactory.createActionDelay ()

Create an instance of [ActionDelay](#)

6.120.3.2 **GetNextAction** gov.niarl.sal.webservices.hisWebServices.clientWsImport.ObjectFactory.createGetNextAction ()

Create an instance of [GetNextAction](#)

6.120.3.3 **JAXBElement<GetNextAction>** gov.niarl.sal.webservices.hisWebServices.clientWsImport.ObjectFactory.createGetNextAction (*GetNextAction value*)

Create an instance of [JAXBElement](#)

<

[GetNextAction](#)

>

}

6.120.3.4 **GetNextActionResponse** gov.niarl.sal.webservices.hisWebServices.clientWsImport.ObjectFactory.createGetNextActionResponse ()

Create an instance of [GetNextActionResponse](#)

6.120.3.5 **JAXBElement<GetNextActionResponse>** gov.niarl.sal.webservices.hisWebServices.clientWsImport.ObjectFactory.createGetNextActionResponse (*GetNextActionResponse value*)

Create an instance of [JAXBElement](#)

<

[GetNextActionResponse](#)

>

}

6.120.4 Member Data Documentation

6.120.4.1 **final QName** gov.niarl.sal.webservices.hisWebServices.clientWsImport.ObjectFactory._GetNextAction_QNAME = new QName("http://server.hisWebService.webservices.sal.niarl.gov/", "getNextAction") [static],[private]

6.120.4.2 **final QName** gov.niarl.sal.webservices.hisWebServices.clientWsImport.ObjectFactory._GetNextActionResponse_QNAME = new QName("http://server.hisWebService.webservices.sal.niarl.gov/", "getNextActionResponse") [static],[private]

6.121 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.ObjectFactory Class Reference

Public Member Functions

- [ObjectFactory](#) ()
- [GetHisPrivacyCAWebService2](#) createGetHisPrivacyCAWebService2 ()
- [GetHisPrivacyCAWebService2Response](#) createGetHisPrivacyCAWebService2Response ()
- [JAXBElement](#)
 - < [GetHisPrivacyCAWebService2](#) > createGetHisPrivacyCAWebService2 ([GetHisPrivacyCAWebService2](#) value)
- [JAXBElement](#)
 - < [GetHisPrivacyCAWebService2Response](#) > createGetHisPrivacyCAWebService2Response ([GetHisPrivacyCAWebService2Response](#) value)

Static Private Attributes

- static final [QName](#) [_GetHisPrivacyCAWebService2_QNAME](#) = new [QName](#)("http://server.hisPrivacyCAWebService2.webservices.his.niarl.gov/", "getHisPrivacyCAWebService2")
- static final [QName](#) [_GetHisPrivacyCAWebService2Response_QNAME](#) = new [QName](#)("http://server.hisPrivacyCAWebService2.webservices.his.niarl.gov/", "getHisPrivacyCAWebService2Response")

6.121.1 Detailed Description

This object contains factory methods for each Java content interface and Java element interface generated in the [gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport](#) package.

An [ObjectFactory](#) allows you to programatically construct new instances of the Java representation for XML content. The Java representation of XML content can consist of schema derived interfaces and classes representing the binding of schema type definitions, element declarations and model groups. Factory methods for each of these are provided in this class.

6.121.2 Constructor & Destructor Documentation

6.121.2.1 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.ObjectFactory.ObjectFactory ()

Create a new [ObjectFactory](#) that can be used to create new instances of schema derived classes for package: [gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport](#)

6.121.3 Member Function Documentation

6.121.3.1 GetHisPrivacyCAWebService2 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.ObjectFactory.createGetHisPrivacyCAWebService2 ()

Create an instance of [GetHisPrivacyCAWebService2](#)

6.121.3.2 JAXBElement<GetHisPrivacyCAWebService2> gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.ObjectFactory.createGetHisPrivacyCAWebService2 ([GetHisPrivacyCAWebService2](#) value)

Create an instance of [JAXBElement](#)

<

[GetHisPrivacyCAWebService2](#)

>

}

6.121.3.3 **GetHisPrivacyCAWebService2Response** gov.niarl.his.webservices.hisPrivacyCA-
WebServices2.clientWsImport.ObjectFactory.createGetHisPrivacyCAWebService2Response ()

Create an instance of [GetHisPrivacyCAWebService2Response](#)

6.121.3.4 **JAXBElement<GetHisPrivacyCAWebService2Response>** gov.niarl.his.webservices.his-
PrivacyCAWebServices2.clientWsImport.ObjectFactory.createGetHisPrivacyCAWebService2Response (
GetHisPrivacyCAWebService2Response value)

Create an instance of [JAXBElement](#)

<

[GetHisPrivacyCAWebService2Response](#)

>

}

6.121.4 Member Data Documentation

6.121.4.1 final QName gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.ObjectFactory._GetHisPrivacy-
CAWebService2_QNAME = new QName("http://server.hisPrivacyCAWebService2.webservices.his.niarl.gov/",
"getHisPrivacyCAWebService2") [static], [private]

6.121.4.2 final QName gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.ObjectFactory._GetHisPrivacyCA-
WebService2Response_QNAME = new QName("http://server.hisPrivacyCAWebService2.webservices.his.niarl.gov/",
"getHisPrivacyCAWebService2Response") [static], [private]

6.122 com.intel.openAttestation.manifest.hibernate.domain.OEM Class Reference

Public Member Functions

- [OEM](#) ()
- [OEM](#) (Long ID, String name, String desc)
- Long [getOEMID](#) ()
- void [setOEMID](#) (Long id)
- String [getName](#) ()
- void [setName](#) (String name)
- String [getDescription](#) ()
- void [setDescription](#) (String desc)
- String [validateDataFormat](#) ()

6.122.1 Detailed Description

Java class linked to the PCR_manifest table.

Author

intel

Version

OpenAttestation

6.122.2 Constructor & Destructor Documentation

6.122.2.1 `com.intel.openAttestation.manifest.hibernate.domain.OEM.OEM ()`

6.122.2.2 `com.intel.openAttestation.manifest.hibernate.domain.OEM.OEM (Long ID, String name, String desc)`

6.122.3 Member Function Documentation

6.122.3.1 `String com.intel.openAttestation.manifest.hibernate.domain.OEM.getDescription ()`

6.122.3.2 `String com.intel.openAttestation.manifest.hibernate.domain.OEM.getName ()`

6.122.3.3 `Long com.intel.openAttestation.manifest.hibernate.domain.OEM.getOEMID ()`

6.122.3.4 `void com.intel.openAttestation.manifest.hibernate.domain.OEM.setDescription (String desc)`

6.122.3.5 `void com.intel.openAttestation.manifest.hibernate.domain.OEM.setName (String name)`

6.122.3.6 `void com.intel.openAttestation.manifest.hibernate.domain.OEM.setOEMID (Long id)`

6.122.3.7 `String com.intel.openAttestation.manifest.hibernate.domain.OEM.validateDataFormat ()`

validate

Returns

6.123 gov.niarl.hisAppraiser.hibernate.domain.OEM Class Reference

Public Member Functions

- [OEM](#) ()
- [OEM](#) (Long ID, String name, String desc)
- Long [getOEMID](#) ()
- void [setOEMID](#) (Long id)
- String [getName](#) ()
- void [setName](#) (String name)
- String [getDescription](#) ()
- void [setDescription](#) (String desc)
- String [validateDataFormat](#) ()

6.123.1 Detailed Description

Java class linked to the PCR_manifest table.

Author

intel

Version

OpenAttestation

6.123.2 Constructor & Destructor Documentation

6.123.2.1 `gov.niarl.hisAppraiser.hibernate.domain.OEM.OEM ()`

6.123.2.2 `gov.niarl.hisAppraiser.hibernate.domain.OEM.OEM (Long ID, String name, String desc)`

6.123.3 Member Function Documentation

6.123.3.1 `String gov.niarl.hisAppraiser.hibernate.domain.OEM.getDescription ()`

6.123.3.2 `String gov.niarl.hisAppraiser.hibernate.domain.OEM.getName ()`

6.123.3.3 `Long gov.niarl.hisAppraiser.hibernate.domain.OEM.getOEMID ()`

6.123.3.4 `void gov.niarl.hisAppraiser.hibernate.domain.OEM.setDescription (String desc)`

6.123.3.5 `void gov.niarl.hisAppraiser.hibernate.domain.OEM.setName (String name)`

6.123.3.6 `void gov.niarl.hisAppraiser.hibernate.domain.OEM.setOEMID (Long id)`

6.123.3.7 `String gov.niarl.hisAppraiser.hibernate.domain.OEM.validateDataFormat ()`

validate

Returns

6.124 com.intel.openAttestation.manifest.hibernate.dao.OEMDAO Class Reference

Public Member Functions

- [OEMDAO \(\)](#)
- [OEM addOEMEntry \(OEM OEMEntry\)](#)
- void [editOEMEntry \(OEM oemEntry\)](#)
- void [DeleteOEMEntry \(String Name\)](#)
- boolean [isOEMExisted \(String Name\)](#)
- [OEM getOEM \(String Name\)](#)
- boolean [isRefMle \(String name\)](#)
- List< [OEM](#) > [getAlloEMEntries \(\)](#)

6.124.1 Detailed Description

This class serves as a central location for updates and queries against the OEM table

Author

intel

Version

OpenAttestation

6.124.2 Constructor & Destructor Documentation

6.124.2.1 com.intel.openAttestation.manifest.hibernate.dao.OEMDAO.OEMDAO ()

Constructor to start a hibernate transaction in case one has not already been started

6.124.3 Member Function Documentation

6.124.3.1 OEM com.intel.openAttestation.manifest.hibernate.dao.OEMDAO.addOEMEntry (OEM OEMEntry)

6.124.3.2 void com.intel.openAttestation.manifest.hibernate.dao.OEMDAO.DeleteOEMEntry (String Name)

6.124.3.3 void com.intel.openAttestation.manifest.hibernate.dao.OEMDAO.editOEMEntry (OEM oemEntry)

6.124.3.4 List<OEM> com.intel.openAttestation.manifest.hibernate.dao.OEMDAO.getAllOEMEntries ()

6.124.3.5 OEM com.intel.openAttestation.manifest.hibernate.dao.OEMDAO.getOEM (String Name)

6.124.3.6 boolean com.intel.openAttestation.manifest.hibernate.dao.OEMDAO.isOEMExisted (String Name)

6.124.3.7 boolean com.intel.openAttestation.manifest.hibernate.dao.OEMDAO.isRefMle (String name)

6.125 com.intel.openAttestation.manifest.resource.OEMResource Class Reference

Public Member Functions

- Response [addOEM](#) (@Context UriInfo uriInfo, [OEM](#) oem,@Context javax.servlet.http.HttpServletRequest request)
- Response [editOEM](#) (@Context UriInfo uriInfo, [OEM](#) oem,@Context javax.servlet.http.HttpServletRequest request)
- Response [deloemEntry](#) (@QueryParam("Name") String Name,@Context UriInfo uriInfo)
- List< [OEM](#) > [getOEMEntry](#) (@QueryParam("index") String index,@QueryParam("CompName") String name,@QueryParam("CompDesc") String desc)

6.125.1 Detailed Description

RESTful web service interface to work with OEM DB.

Author

xmei1

6.125.2 Member Function Documentation

6.125.2.1 Response com.intel.openAttestation.manifest.resource.OEMResource.addOEM (@Context UriInfo *uriInfo*, OEM *oem*, @Context javax.servlet.http.HttpServletRequest *request*)

6.125.2.2 Response com.intel.openAttestation.manifest.resource.OEMResource.delOemEntry (@QueryParam("Name") String *Name*, @Context UriInfo *uriInfo*)

6.125.2.3 Response com.intel.openAttestation.manifest.resource.OEMResource.editOEM (@Context UriInfo *uriInfo*, OEM *oem*, @Context javax.servlet.http.HttpServletRequest *request*)

6.125.2.4 List<OEM> com.intel.openAttestation.manifest.resource.OEMResource.getOEMEntry (@QueryParam("index") String *index*, @QueryParam("CompName") String *name*, @QueryParam("CompDesc") String *desc*)

6.126 com.intel.openAttestation.manifest.bean.OpenAttestationResponseFault Class Reference

Public Member Functions

- [OpenAttestationResponseFault](#) ()
- [OpenAttestationResponseFault](#) (int *error_code*)
- int [getError_code](#) ()
- void [setError_code](#) (int *code*)
- String [getError_message](#) ()
- void [setError_message](#) (String *message*)

6.126.1 Constructor & Destructor Documentation

6.126.1.1 com.intel.openAttestation.manifest.bean.OpenAttestationResponseFault.OpenAttestationResponseFault ()

6.126.1.2 com.intel.openAttestation.manifest.bean.OpenAttestationResponseFault.OpenAttestationResponseFault (int *error_code*)

6.126.2 Member Function Documentation

6.126.2.1 int com.intel.openAttestation.manifest.bean.OpenAttestationResponseFault.getError_code ()

6.126.2.2 String com.intel.openAttestation.manifest.bean.OpenAttestationResponseFault.getError_message ()

6.126.2.3 void com.intel.openAttestation.manifest.bean.OpenAttestationResponseFault.setError_code (int *code*)

6.126.2.4 void com.intel.openAttestation.manifest.bean.OpenAttestationResponseFault.setError_message (String *message*)

6.127 com.intel.openAttestation.AttestationService.bean.OpenAttestationResponse-Fault Class Reference

Public Member Functions

- [OpenAttestationResponseFault](#) ()
- [OpenAttestationResponseFault](#) (int *error_code*)
- int [getError_code](#) ()
- void [setError_code](#) (int *code*)
- String [getError_message](#) ()
- void [setError_message](#) (String *message*)
- String [getDetail](#) ()
- void [setDetail](#) (String *detail*)

Private Attributes

- int [error_code](#)
- String [error_message](#)
- String [detail](#)

6.127.1 Constructor & Destructor Documentation

6.127.1.1 `com.intel.openAttestation.AttestationService.bean.OpenAttestationResponseFault.OpenAttestationResponseFault ()`

6.127.1.2 `com.intel.openAttestation.AttestationService.bean.OpenAttestationResponseFault.OpenAttestationResponseFault (int error_code)`

6.127.2 Member Function Documentation

6.127.2.1 `String com.intel.openAttestation.AttestationService.bean.OpenAttestationResponseFault.getDetail ()`

6.127.2.2 `int com.intel.openAttestation.AttestationService.bean.OpenAttestationResponseFault.getError_code ()`

6.127.2.3 `String com.intel.openAttestation.AttestationService.bean.OpenAttestationResponseFault.getError_message ()`

6.127.2.4 `void com.intel.openAttestation.AttestationService.bean.OpenAttestationResponseFault.setDetail (String detail)`

6.127.2.5 `void com.intel.openAttestation.AttestationService.bean.OpenAttestationResponseFault.setError_code (int code)`

6.127.2.6 `void com.intel.openAttestation.AttestationService.bean.OpenAttestationResponseFault.setError_message (String message)`

6.127.3 Member Data Documentation

6.127.3.1 `String com.intel.openAttestation.AttestationService.bean.OpenAttestationResponseFault.detail [private]`

6.127.3.2 `int com.intel.openAttestation.AttestationService.bean.OpenAttestationResponseFault.error_code [private]`

6.127.3.3 `String com.intel.openAttestation.AttestationService.bean.OpenAttestationResponseFault.error_message [private]`

6.128 gov.niarl.hisAppraiser.hibernate.domain.OS Class Reference

Public Member Functions

- [OS](#) ()
- [OS](#) (Long ID, String name, String version, String desc)
- Long [getID](#) ()
- void [setID](#) (Long id)
- String [getName](#) ()
- void [setName](#) (String name)
- String [getVersion](#) ()
- void [setVersion](#) (String version)
- String [getDescription](#) ()
- void [setDescription](#) (String desc)
- String [validateDataFormat](#) ()

6.128.1 Detailed Description

Java class linked to the PCR_manifest table.

Author

intel

Version

OpenAttestation

6.128.2 Constructor & Destructor Documentation

6.128.2.1 `gov.niarl.hisAppraiser.hibernate.domain.OS.OS ()`

6.128.2.2 `gov.niarl.hisAppraiser.hibernate.domain.OS.OS (Long ID, String name, String version, String desc)`

6.128.3 Member Function Documentation

6.128.3.1 `String gov.niarl.hisAppraiser.hibernate.domain.OS.getDescription ()`

6.128.3.2 `Long gov.niarl.hisAppraiser.hibernate.domain.OS.getID ()`

6.128.3.3 `String gov.niarl.hisAppraiser.hibernate.domain.OS.getName ()`

6.128.3.4 `String gov.niarl.hisAppraiser.hibernate.domain.OS.getVersion ()`

6.128.3.5 `void gov.niarl.hisAppraiser.hibernate.domain.OS.setDescription (String desc)`

6.128.3.6 `void gov.niarl.hisAppraiser.hibernate.domain.OS.setID (Long id)`

6.128.3.7 `void gov.niarl.hisAppraiser.hibernate.domain.OS.setName (String name)`

6.128.3.8 `void gov.niarl.hisAppraiser.hibernate.domain.OS.setVersion (String version)`

6.128.3.9 `String gov.niarl.hisAppraiser.hibernate.domain.OS.validateDataFormat ()`

validate

Returns

6.129 com.intel.openAttestation.manifest.hibernate.domain.OS Class Reference

Public Member Functions

- [OS](#) ()
- [OS](#) (Long ID, String name, String version, String desc)
- Long [getID](#) ()
- void [setID](#) (Long id)
- String [getName](#) ()
- void [setName](#) (String name)
- String [getVersion](#) ()
- void [setVersion](#) (String version)
- String [getDescription](#) ()
- void [setDescription](#) (String desc)
- String [validateDataFormat](#) ()

6.129.1 Detailed Description

Java class linked to the PCR_manifest table.

Author

intel

Version

OpenAttestation

6.129.2 Constructor & Destructor Documentation

6.129.2.1 com.intel.openAttestation.manifest.hibernate.domain.OS.OS ()

6.129.2.2 com.intel.openAttestation.manifest.hibernate.domain.OS.OS (Long ID, String name, String version, String desc)

6.129.3 Member Function Documentation

6.129.3.1 String com.intel.openAttestation.manifest.hibernate.domain.OS.getDescription ()

6.129.3.2 Long com.intel.openAttestation.manifest.hibernate.domain.OS.getID ()

6.129.3.3 String com.intel.openAttestation.manifest.hibernate.domain.OS.getName ()

6.129.3.4 String com.intel.openAttestation.manifest.hibernate.domain.OS.getVersion ()

6.129.3.5 void com.intel.openAttestation.manifest.hibernate.domain.OS.setDescription (String desc)

6.129.3.6 void com.intel.openAttestation.manifest.hibernate.domain.OS.setID (Long id)

6.129.3.7 void com.intel.openAttestation.manifest.hibernate.domain.OS.setName (String name)

6.129.3.8 void com.intel.openAttestation.manifest.hibernate.domain.OS.setVersion (String version)

6.129.3.9 String com.intel.openAttestation.manifest.hibernate.domain.OS.validateDataFormat ()

validate

Returns

6.130 com.intel.openAttestation.manifest.hibernate.dao.OSDAO Class Reference

Public Member Functions

- [OSDAO](#) ()
- void [addOSEntry](#) (OS osEntry)
- void [editOSEntry](#) (OS osEntry)
- void [deleteOSEntry](#) (String osName, String osVersion)
- boolean [isOSExisted](#) (String osName, String osVersion)
- [OS](#) [getOS](#) (String Name, String Version)
- boolean [isRefMle](#) (String name, String version)
- List< [OS](#) > [getAllOSEntries](#) ()

6.130.1 Detailed Description

This class serves as a central location for updates and queries against the OEM table

Author

intel

Version

OpenAttestation

6.130.2 Constructor & Destructor Documentation

6.130.2.1 `com.intel.openAttestation.manifest.hibernate.dao.OSDAO.OSDAO ()`

Constructor to start a hibernate transaction in case one has not already been started

6.130.3 Member Function Documentation

6.130.3.1 `void com.intel.openAttestation.manifest.hibernate.dao.OSDAO.addOSEntry (OS osEntry)`

6.130.3.2 `void com.intel.openAttestation.manifest.hibernate.dao.OSDAO.deleteOSEntry (String osName, String osVersion)`

6.130.3.3 `void com.intel.openAttestation.manifest.hibernate.dao.OSDAO.editOSEntry (OS osEntry)`

6.130.3.4 `List<OS> com.intel.openAttestation.manifest.hibernate.dao.OSDAO.getAllOSEntries ()`

6.130.3.5 `OS com.intel.openAttestation.manifest.hibernate.dao.OSDAO.getOS (String Name, String Version)`

6.130.3.6 `boolean com.intel.openAttestation.manifest.hibernate.dao.OSDAO.isOSExisted (String osName, String osVersion)`

6.130.3.7 `boolean com.intel.openAttestation.manifest.hibernate.dao.OSDAO.isRefMle (String name, String version)`

6.131 `com.intel.openAttestation.manifest.resource.OSResource` Class Reference

Public Member Functions

- Response [addOS](#) (@Context UriInfo uriInfo, [OS](#) os,@Context javax.servlet.http.HttpServletRequest request)
- Response [editOEM](#) (@Context UriInfo uriInfo, [OS](#) os,@Context javax.servlet.http.HttpServletRequest request)
- Response [delOS](#) (@QueryParam("Name") String Name,@QueryParam("Version") String Version,@Context UriInfo uriInfo)
- List< [OS](#) > [getOSEntry](#) (@QueryParam("index") String index,@QueryParam("CompName") String name,@QueryParam("CompDesc") String desc)

6.131.1 Detailed Description

RESTful web service interface to work with OEM DB.

Author

xmei1

6.131.2 Member Function Documentation

- 6.131.2.1 Response `com.intel.openAttestation.manifest.resource.OSResource.addOS (@Context UriInfo urInfo, OS os, @Context javax.servlet.http.HttpServletRequest request)`
- 6.131.2.2 Response `com.intel.openAttestation.manifest.resource.OSResource.delOS (@QueryParam("Name") String Name, @QueryParam("Version") String Version, @Context UriInfo urInfo)`
- 6.131.2.3 Response `com.intel.openAttestation.manifest.resource.OSResource.editOEM (@Context UriInfo urInfo, OS os, @Context javax.servlet.http.HttpServletRequest request)`
- 6.131.2.4 `List<OS> com.intel.openAttestation.manifest.resource.OSResource.getOSEntry (@QueryParam("index") String index, @QueryParam("CompName") String name, @QueryParam("CompDesc") String desc)`

6.132 gov.niarl.hisAppraiser.hibernate.domain.PCRManifest Class Reference

Public Member Functions

- [PCRManifest](#) ()
- [PCRManifest](#) (Long index)
- [PCRManifest](#) (Long index, Integer number, String value, String desc, Date createTime, String createRequestHost, Date lastUpdateTime, String lastUpdateRequestHost)
- Long [getIndex](#) ()
- void [setIndex](#) (Long index)
- Integer [getPCRNumber](#) ()
- void [setPCRNumber](#) (Integer pCRNumber)
- String [getPCRValue](#) ()
- void [setPCRValue](#) (String pCRValue)
- String [getPCRDsc](#) ()
- void [setPCRDsc](#) (String pCRDesc)
- Date [getCreateTime](#) ()
- void [setCreateTime](#) (Date createTime)
- Date [getLastUpdateTime](#) ()
- void [setLastUpdateTime](#) (Date lastUpdateTime)
- String [getCreateRequestHost](#) ()
- void [setCreateRequestHost](#) (String createRequestHost)
- String [getLastUpdateRequestHost](#) ()
- void [setLastUpdateRequestHost](#) (String lastUpdateRequestHost)
- String [validateDataFormat](#) ()

6.132.1 Detailed Description

Java class linked to the PCR_manifest table.

Author

intel

Version

OpenAttestation

6.132.2 Constructor & Destructor Documentation

- 6.132.2.1 `gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.PCRManifest ()`
- 6.132.2.2 `gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.PCRManifest (Long index)`
- 6.132.2.3 `gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.PCRManifest (Long index, Integer number, String value, String desc, Date createTime, String createRequestHost, Date lastUpdateTime, String lastUpdateRequestHost)`

6.132.3 Member Function Documentation

- 6.132.3.1 `String gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.getCreateRequestHost ()`
- 6.132.3.2 `Date gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.getCreateTime ()`
- 6.132.3.3 `Long gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.getIndex ()`
- 6.132.3.4 `String gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.getLastUpdateRequestHost ()`
- 6.132.3.5 `Date gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.getLastUpdateTime ()`
- 6.132.3.6 `String gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.getPCRDesc ()`
- 6.132.3.7 `Integer gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.getPCRNumber ()`
- 6.132.3.8 `String gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.getPCRValue ()`
- 6.132.3.9 `void gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.setCreateRequestHost (String createRequestHost)`
- 6.132.3.10 `void gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.setCreateTime (Date createTime)`
- 6.132.3.11 `void gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.setIndex (Long index)`
- 6.132.3.12 `void gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.setLastUpdateRequestHost (String lastUpdateRequestHost)`
- 6.132.3.13 `void gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.setLastUpdateTime (Date lastUpdateTime)`
- 6.132.3.14 `void gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.setPCRDesc (String pcrDesc)`
- 6.132.3.15 `void gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.setPCRNumber (Integer pcrNumber)`
- 6.132.3.16 `void gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.setPCRValue (String pcrValue)`
- 6.132.3.17 `String gov.niarl.hisAppraiser.hibernate.domain.PCRManifest.validateDataFormat ()`

validate

Returns

6.133 com.intel.openAttestation.AttestationService.bean.PCRValue Class Reference

Public Member Functions

- [PCRValue](#) ()
- [PCRValue](#) (Integer number, String value)
- Integer [getNumber](#) ()
- void [setNumber](#) (Integer number)
- String [getValue](#) ()
- void [setValue](#) (String value)

6.133.1 Constructor & Destructor Documentation

6.133.1.1 `com.intel.openAttestation.AttestationService.bean.PCRValue.PCRValue ()`

6.133.1.2 `com.intel.openAttestation.AttestationService.bean.PCRValue.PCRValue (Integer number, String value)`

6.133.2 Member Function Documentation

6.133.2.1 Integer `com.intel.openAttestation.AttestationService.bean.PCRValue.getNumber ()`

6.133.2.2 String `com.intel.openAttestation.AttestationService.bean.PCRValue.getValue ()`

6.133.2.3 void `com.intel.openAttestation.AttestationService.bean.PCRValue.setNumber (Integer number)`

6.133.2.4 void `com.intel.openAttestation.AttestationService.bean.PCRValue.setValue (String value)`

6.134 gov.niarl.hisAppraiser.hibernate.domain.PcrWhiteList Class Reference

Public Member Functions

- Long [getPcrWhiteListID](#) ()
- void [setPcrWhiteListID](#) (Long pcrWhiteListID)
- String [getPcrName](#) ()
- void [setPcrName](#) (String pcrName)
- String [getPcrDigest](#) ()
- void [setPcrDigest](#) (String pcrDigest)
- MLE [getMle](#) ()
- void [setMle](#) (MLE mle)

Private Attributes

- Long [PcrWhiteListID](#)
- String [pcrName](#)
- String [pcrDigest](#)
- MLE [mle](#)

6.134.1 Member Function Documentation

6.134.1.1 MLE `gov.niarl.hisAppraiser.hibernate.domain.PcrWhiteList.getMle ()`

6.134.1.2 String `gov.niarl.hisAppraiser.hibernate.domain.PcrWhiteList.getPcrDigest ()`

6.134.1.3 String `gov.niarl.hisAppraiser.hibernate.domain.PcrWhiteList.getPcrName ()`

- 6.134.1.4 Long gov.niarl.hisAppraiser.hibernate.domain.PcrWhiteList.getPcrWhiteListID ()
- 6.134.1.5 void gov.niarl.hisAppraiser.hibernate.domain.PcrWhiteList.setMle (MLE mle)
- 6.134.1.6 void gov.niarl.hisAppraiser.hibernate.domain.PcrWhiteList.setPcrDigest (String pcrDigest)
- 6.134.1.7 void gov.niarl.hisAppraiser.hibernate.domain.PcrWhiteList.setPcrName (String pcrName)
- 6.134.1.8 void gov.niarl.hisAppraiser.hibernate.domain.PcrWhiteList.setPcrWhiteListID (Long pcrWhiteListID)

6.134.2 Member Data Documentation

- 6.134.2.1 MLE gov.niarl.hisAppraiser.hibernate.domain.PcrWhiteList.mle [private]
- 6.134.2.2 String gov.niarl.hisAppraiser.hibernate.domain.PcrWhiteList.pcrDigest [private]
- 6.134.2.3 String gov.niarl.hisAppraiser.hibernate.domain.PcrWhiteList.pcrName [private]
- 6.134.2.4 Long gov.niarl.hisAppraiser.hibernate.domain.PcrWhiteList.PcrWhiteListID [private]

6.135 com.intel.openAttestation.manifest.hibernate.domain.PcrWhiteList Class Reference

Public Member Functions

- Long [getPcrWhiteListID](#) ()
- void [setPcrWhiteListID](#) (Long pcrWhiteListID)
- String [getPcrName](#) ()
- void [setPcrName](#) (String pcrName)
- String [getPcrDigest](#) ()
- void [setPcrDigest](#) (String pcrDigest)
- MLE [getMle](#) ()
- void [setMle](#) (MLE mle)

Private Attributes

- Long [PcrWhiteListID](#)
- String [pcrName](#)
- String [pcrDigest](#)
- MLE [mle](#)

6.135.1 Member Function Documentation

- 6.135.1.1 MLE com.intel.openAttestation.manifest.hibernate.domain.PcrWhiteList.getMle ()
- 6.135.1.2 String com.intel.openAttestation.manifest.hibernate.domain.PcrWhiteList.getPcrDigest ()
- 6.135.1.3 String com.intel.openAttestation.manifest.hibernate.domain.PcrWhiteList.getPcrName ()
- 6.135.1.4 Long com.intel.openAttestation.manifest.hibernate.domain.PcrWhiteList.getPcrWhiteListID ()
- 6.135.1.5 void com.intel.openAttestation.manifest.hibernate.domain.PcrWhiteList.setMle (MLE mle)

- 6.135.1.6 void com.intel.openAttestation.manifest.hibernate.domain.PcrWhiteList.setPcrDigest (String *pcrDigest*)
- 6.135.1.7 void com.intel.openAttestation.manifest.hibernate.domain.PcrWhiteList.setPcrName (String *pcrName*)
- 6.135.1.8 void com.intel.openAttestation.manifest.hibernate.domain.PcrWhiteList.setPcrWhiteListID (Long *pcrWhiteListID*)

6.135.2 Member Data Documentation

- 6.135.2.1 MLE com.intel.openAttestation.manifest.hibernate.domain.PcrWhiteList.mle [private]
- 6.135.2.2 String com.intel.openAttestation.manifest.hibernate.domain.PcrWhiteList.pcrDigest [private]
- 6.135.2.3 String com.intel.openAttestation.manifest.hibernate.domain.PcrWhiteList.pcrName [private]
- 6.135.2.4 Long com.intel.openAttestation.manifest.hibernate.domain.PcrWhiteList.PcrWhiteListID [private]

6.136 com.intel.openAttestation.manifest.bean.PcrWhiteListBean Class Reference

Public Member Functions

- String [getPcrName](#) ()
- void [setPcrName](#) (String [pcrName](#))
- String [getPcrDigest](#) ()
- void [setPcrDigest](#) (String [pcrDigest](#))
- String [getMLEName](#) ()
- void [setMLEName](#) (String [mLEName](#))
- String [getMLEVersion](#) ()
- void [setMLEVersion](#) (String [mLEVersion](#))
- String [getOEMName](#) ()
- void [setOEMName](#) (String [oEMName](#))
- String [getOSName](#) ()
- void [setOSName](#) (String [oSName](#))
- String [getOSVersion](#) ()
- void [setOSVersion](#) (String [oSVersion](#))

Private Attributes

- String [pcrName](#)
- String [pcrDigest](#)
- String [MLEName](#)
- String [MLEVersion](#)
- String [OEMName](#)
- String [OSName](#)
- String [OSVersion](#)

6.136.1 Member Function Documentation

- 6.136.1.1 String com.intel.openAttestation.manifest.bean.PcrWhiteListBean.getMLEName ()
- 6.136.1.2 String com.intel.openAttestation.manifest.bean.PcrWhiteListBean.getMLEVersion ()
- 6.136.1.3 String com.intel.openAttestation.manifest.bean.PcrWhiteListBean.getOEMName ()

- 6.136.1.4 String com.intel.openAttestation.manifest.bean.PcrWhiteListBean.getOSName ()
- 6.136.1.5 String com.intel.openAttestation.manifest.bean.PcrWhiteListBean.getOSVersion ()
- 6.136.1.6 String com.intel.openAttestation.manifest.bean.PcrWhiteListBean.getPcrDigest ()
- 6.136.1.7 String com.intel.openAttestation.manifest.bean.PcrWhiteListBean.getPcrName ()
- 6.136.1.8 void com.intel.openAttestation.manifest.bean.PcrWhiteListBean.setMLEName (String *mLEName*)
- 6.136.1.9 void com.intel.openAttestation.manifest.bean.PcrWhiteListBean.setMLEVersion (String *mLEVersion*)
- 6.136.1.10 void com.intel.openAttestation.manifest.bean.PcrWhiteListBean.setOEMName (String *oEMName*)
- 6.136.1.11 void com.intel.openAttestation.manifest.bean.PcrWhiteListBean.setOSName (String *oSName*)
- 6.136.1.12 void com.intel.openAttestation.manifest.bean.PcrWhiteListBean.setOSVersion (String *oSVersion*)
- 6.136.1.13 void com.intel.openAttestation.manifest.bean.PcrWhiteListBean.setPcrDigest (String *pcrDigest*)
- 6.136.1.14 void com.intel.openAttestation.manifest.bean.PcrWhiteListBean.setPcrName (String *pcrName*)

6.136.2 Member Data Documentation

- 6.136.2.1 String com.intel.openAttestation.manifest.bean.PcrWhiteListBean.MLEName [private]
- 6.136.2.2 String com.intel.openAttestation.manifest.bean.PcrWhiteListBean.MLEVersion [private]
- 6.136.2.3 String com.intel.openAttestation.manifest.bean.PcrWhiteListBean.OEMName [private]
- 6.136.2.4 String com.intel.openAttestation.manifest.bean.PcrWhiteListBean.OSName [private]
- 6.136.2.5 String com.intel.openAttestation.manifest.bean.PcrWhiteListBean.OSVersion [private]
- 6.136.2.6 String com.intel.openAttestation.manifest.bean.PcrWhiteListBean.pcrDigest [private]
- 6.136.2.7 String com.intel.openAttestation.manifest.bean.PcrWhiteListBean.pcrName [private]

6.137 com.intel.openAttestation.manifest.hibernate.dao.PcrWhiteListDAO Class Reference

Public Member Functions

- [PcrWhiteListDAO](#) ()
- void [addPcrEntry](#) ([PcrWhiteList](#) pcrEntry)
- void [editPcrEntry](#) ([PcrWhiteList](#) pcrEntry)
- void [deletePcrEntry](#) (String pcrName, Long mleid)
- boolean [isPcrExisted](#) (String pcrName, Long mleid)
- [PcrWhiteList](#) [queryPcrByOEMid](#) (String Name, String Version, String OEMname, String PcrName)
- [PcrWhiteList](#) [queryPcrByOSid](#) (String Name, String Version, String OSname, String OSversion, String PcrName)
- void [deletePcrByMleid](#) (Long mleid)
- [PcrWhiteList](#) [getPcr](#) (String pcrName, Long mleid)
- void [addPcrList](#) (List< [PcrWhiteList](#) > pcrList)
- List< [PcrWhiteList](#) > [queryPcrByMLEid](#) (long mleid)

6.137.1 Detailed Description

This class serves as a central location for updates and queries against the OEM table

Author

intel

Version

OpenAttestation

6.137.2 Constructor & Destructor Documentation

6.137.2.1 `com.intel.openAttestation.manifest.hibernate.dao.PcrWhiteListDAO.PcrWhiteListDAO ()`

Constructor to start a hibernate transaction in case one has not already been started

6.137.3 Member Function Documentation

6.137.3.1 `void com.intel.openAttestation.manifest.hibernate.dao.PcrWhiteListDAO.addPcrEntry (PcrWhiteList pcrEntry)`

6.137.3.2 `void com.intel.openAttestation.manifest.hibernate.dao.PcrWhiteListDAO.addPcrList (List< PcrWhiteList > pcrList)`

6.137.3.3 `void com.intel.openAttestation.manifest.hibernate.dao.PcrWhiteListDAO.deletePcrByMleID (Long mleID)`

6.137.3.4 `void com.intel.openAttestation.manifest.hibernate.dao.PcrWhiteListDAO.deletePcrEntry (String pcrName, Long mleID)`

6.137.3.5 `void com.intel.openAttestation.manifest.hibernate.dao.PcrWhiteListDAO.editPcrEntry (PcrWhiteList pcrEntry)`

6.137.3.6 `PcrWhiteList com.intel.openAttestation.manifest.hibernate.dao.PcrWhiteListDAO.getPcr (String pcrName, Long mleID)`

6.137.3.7 `boolean com.intel.openAttestation.manifest.hibernate.dao.PcrWhiteListDAO.isPcrExisted (String pcrName, Long mleID)`

6.137.3.8 `List<PcrWhiteList> com.intel.openAttestation.manifest.hibernate.dao.PcrWhiteListDAO.queryPcrByMLEid (long mleID)`

6.137.3.9 `PcrWhiteList com.intel.openAttestation.manifest.hibernate.dao.PcrWhiteListDAO.queryPcrByOEMid (String Name, String Version, String OEMname, String PcrName)`

6.137.3.10 `PcrWhiteList com.intel.openAttestation.manifest.hibernate.dao.PcrWhiteListDAO.queryPcrByOSid (String Name, String Version, String OSname, String OSversion, String PcrName)`

6.138 com.intel.openAttestation.manifest.resource.PcrWhiteListResource Class Reference

Public Member Functions

- Response [addPcrWhiteList](#) (@Context UriInfo uriInfo, [PcrWhiteListBean](#) pcrbean,@Context javax.servlet.http.HttpServletRequest request)

- Response [editPcrWhiteList](#) (@Context UriInfo uriInfo, [PcrWhiteListBean](#) pcrbean,@Context javax.servlet.http.HttpServletRequest request)
- Response [delPcrWhiteList](#) (@QueryParam("pcrName") String pcrName,@QueryParam("mleName") String mleName,@QueryParam("mleVersion") String mleVersion,@QueryParam("oemName") String oemName,@QueryParam("osName") String osName,@QueryParam("osVersion") String osVersion,@Context UriInfo uriInfo)

6.138.1 Detailed Description

RESTful web service interface to work with OEM DB.

Author

xmei1

6.138.2 Member Function Documentation

- 6.138.2.1 Response `com.intel.openAttestation.manifest.resource.PcrWhiteListResource.addPcrWhiteList (@Context UriInfo uriInfo, PcrWhiteListBean pcrbean, @Context javax.servlet.http.HttpServletRequest request)`
- 6.138.2.2 Response `com.intel.openAttestation.manifest.resource.PcrWhiteListResource.delPcrWhiteList (@QueryParam("pcrName") String pcrName, @QueryParam("mleName") String mleName, @QueryParam("mleVersion") String mleVersion, @QueryParam("oemName") String oemName, @QueryParam("osName") String osName, @QueryParam("osVersion") String osVersion, @Context UriInfo uriInfo)`
- 6.138.2.3 Response `com.intel.openAttestation.manifest.resource.PcrWhiteListResource.editPcrWhiteList (@Context UriInfo uriInfo, PcrWhiteListBean pcrbean, @Context javax.servlet.http.HttpServletRequest request)`

6.139 gov.niarl.sal.webservices.hisWebServices.clientWsImport.PostIntegrityReport Class Reference

Public Member Functions

- String [getIntegrityReport](#) ()
- void [setIntegrityReport](#) (String value)

Protected Attributes

- String [integrityReport](#)

6.139.1 Detailed Description

Java class for postIntegrityReport complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="postIntegrityReport">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="integrityReport" type="{http://www.w3.org/2001/XMLSchema}string" minOccurs="0"/>
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```


6.139.2 Member Function Documentation

6.139.2.1 String gov.niarl.sal.webservices.hisWebServices.clientWsImport.PostIntegrityReport.getIntegrityReport ()

Gets the value of the integrityReport property.

Returns

possible object is [String](#)

6.139.2.2 void gov.niarl.sal.webservices.hisWebServices.clientWsImport.PostIntegrityReport.setIntegrityReport (String value)

Sets the value of the integrityReport property.

Parameters

<i>value</i>	allowed object is String
--------------	--

6.139.3 Member Data Documentation

6.139.3.1 String gov.niarl.sal.webservices.hisWebServices.clientWsImport.PostIntegrityReport.integrityReport [protected]

6.140 gov.niarl.sal.webservices.hisWebServices.clientWsImport.PostIntegrityReport-Response Class Reference

6.140.1 Detailed Description

Java class for postIntegrityReportResponse complex type.

The following schema fragment specifies the expected content contained within this class.

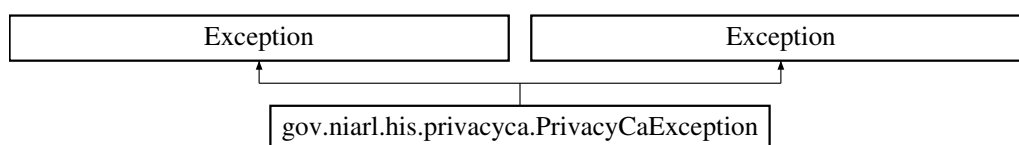
```

<complexType name="postIntegrityReportResponse">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
      </sequence>
    </restriction>
  </complexContent>
</complexType>

```

6.141 gov.niarl.his.privacyca.PrivacyCaException Class Reference

Inheritance diagram for gov.niarl.his.privacyca.PrivacyCaException:



Public Member Functions

- [PrivacyCaException](#) (String msg)
- [PrivacyCaException](#) (String msg)

Static Private Attributes

- static final long [serialVersionUID](#) = 0

6.141.1 Detailed Description

This exception is intended to be used to throw Privacy CA-specific exceptions.

Author

schawki

6.141.2 Constructor & Destructor Documentation

6.141.2.1 `gov.niarl.his.privacyca.PrivacyCaException.PrivacyCaException (String msg)`

Create the exception using a message string.

Parameters

<i>msg</i>	Custom message for the exception
------------	----------------------------------

6.141.2.2 `gov.niarl.his.privacyca.PrivacyCaException.PrivacyCaException (String msg)`

Create the exception using a message string.

Parameters

<i>msg</i>	Custom message for the exception
------------	----------------------------------

6.141.3 Member Data Documentation

6.141.3.1 `static final long gov.niarl.his.privacyca.PrivacyCaException.serialVersionUID = 0` `[static], [private]`

6.142 `gov.niarl.sal.webservices.hisWebServices.clientWslImport.Quote` Enum Reference

Public Member Functions

- [Quote](#) (String v)
- String [value](#) ()

Static Public Member Functions

- static [Quote fromValue](#) (String v)

Public Attributes

- [XmlEnumValue](#)

Private Attributes

- final String [value](#)

6.142.1 Detailed Description

Java class for quote.

The following schema fragment specifies the expected content contained within this class.

```
<simpleType name="quote">
  <restriction base="{http://www.w3.org/2001/XMLSchema}string">
    <enumeration value="QUOTE1"/>
    <enumeration value="QUOTE2"/>
  </restriction>
</simpleType>
```

6.142.2 Constructor & Destructor Documentation

6.142.2.1 gov.niarl.sal.webservices.hisWebServices.clientWslImport.Quote.Quote (String v)

6.142.3 Member Function Documentation

6.142.3.1 static Quote gov.niarl.sal.webservices.hisWebServices.clientWslImport.Quote.fromValue (String v) [static]

6.142.3.2 String gov.niarl.sal.webservices.hisWebServices.clientWslImport.Quote.value ()

6.142.4 Member Data Documentation

6.142.4.1 final String gov.niarl.sal.webservices.hisWebServices.clientWslImport.Quote.value [private]

6.142.4.2 gov.niarl.sal.webservices.hisWebServices.clientWslImport.Quote.XmlEnumValue

Initial value:

```
= ("QUOTE1")
  QUOTE_1 ("QUOTE1")
```

6.143 gov.niarl.his.privacyca.RegisterPrivacyCa Class Reference

Static Public Member Functions

- static void [main](#) (String[] args)

6.143.1 Detailed Description

Deprecated

This class is to be used for registration of the Privacy CA to the HIS appraiser.

The HisPrivacyCAWebServices2 auto-enrolls itself. This can still be used with the first-generation Privacy CA.

Properties file named "HISprovisioner.properties" is expected with the following values:

- **HisRegistrationUrl** The complete URL to the appraiser's web service.
- **TrustStore** The path and file name of the trust store, often named "TrustStore.jks."
- **PrivacyCaCertFile** The path to and file name of the Privacy CA's certificate, in X.509 form. This is usually a ".cer" or ".crt" file.

Author

schawki

6.143.2 Member Function Documentation

6.143.2.1 `static void gov.niarl.his.privacyca.RegisterPrivacyCa.main (String[] args) [static]`

Entry point into the program.

6.144 com.intel.openAttestation.AttestationService.bean.RegAttestationBean Class Reference

Public Member Functions

- [ReqAttestationBean](#) ()
- List< String > [getHosts](#) ()
- void [setHosts](#) (List< String > hosts)
- Long [getTimeThreshold](#) ()
- void [setTimeThreshold](#) (Long timeThreshold)
- String [getPCRmask](#) ()
- void [setPCRmask](#) (String pCRmask)
- String [getAnalysisType](#) ()
- void [setAnalysisType](#) (String analysisType)

Private Attributes

- List< String > [hosts](#)
- Long [timeThreshold](#)
- String [PCRmask](#)
- String [analysisType](#)

6.144.1 Detailed Description

This class maps a JSON element used by the RESTful services [Host](#) and [PollHost](#). The service is realised with Jersey, that uses Jackson to convert Java objects to/from JSON.

6.144.2 Constructor & Destructor Documentation

6.144.2.1 `com.intel.openAttestation.AttestationService.bean.RegAttestationBean.RegAttestationBean ()`

Default constructor.

6.144.3 Member Function Documentation

6.144.3.1 **POL New** String com.intel.openAttestation.AttestationService.bean.ReqAttestationBean.getAnalysisType ()

Gets the current value of element analysisType.

Returns

The value of element analysisType.

6.144.3.2 List<String> com.intel.openAttestation.AttestationService.bean.ReqAttestationBean.getHosts ()

Gets the current value of element hosts.

Returns

The value of element hosts.

6.144.3.3 String com.intel.openAttestation.AttestationService.bean.ReqAttestationBean.getPCRmask ()

Gets the current value of element PCRmask.

Returns

The value of element PCRmask.

6.144.3.4 Long com.intel.openAttestation.AttestationService.bean.ReqAttestationBean.getTimeThreshold ()

Gets the current value of element timeThreshold.

Returns

The value of element timeThreshold.

6.144.3.5 **POL New** void com.intel.openAttestation.AttestationService.bean.ReqAttestationBean.setAnalysisType (String *analysisType*)

Sets the value of element analysisType.

Parameters

<i>analysisType</i>	The value of element analysisType
---------------------	-----------------------------------

6.144.3.6 void com.intel.openAttestation.AttestationService.bean.ReqAttestationBean.setHosts (List<String> *hosts*)

Sets the value of element hosts.

Parameters

<i>hosts</i>	The value of element hosts
--------------	----------------------------

6.144.3.7 void com.intel.openAttestation.AttestationService.bean.RegAttestationBean.setPCRmask (String *pCRmask*)

Sets the value of element PCRmask.

Parameters

<i>pCRmask</i>	The value of element PCRmask
----------------	------------------------------

6.144.3.8 void com.intel.openAttestation.AttestationService.bean.RegAttestationBean.setTimeThreshold (Long *timeThreshold*)

Sets the value of element timeThreshold.

Parameters

<i>timeThreshold</i>	The value of element timeThreshold
----------------------	------------------------------------

6.144.4 Member Data Documentation

6.144.4.1 String com.intel.openAttestation.AttestationService.bean.RegAttestationBean.analysisType [private]

6.144.4.2 List<String> com.intel.openAttestation.AttestationService.bean.RegAttestationBean.hosts [private]

6.144.4.3 String com.intel.openAttestation.AttestationService.bean.RegAttestationBean.PCRmask [private]

6.144.4.4 Long com.intel.openAttestation.AttestationService.bean.RegAttestationBean.timeThreshold [private]

6.145 com.intel.openAttestation.AttestationService.bean.RequestBean Class Reference

Public Member Functions

- String [getRequestId](#) ()
- void [setRequestId](#) (String [requestId](#))
- String [getHosts](#) ()
- void [setHosts](#) (String [hosts](#))
- Long [getCount](#) ()
- void [setCount](#) (Long [count](#))
- String [getPCRMask](#) ()
- void [setPCRMask](#) (String [pCRMask](#))

Private Attributes

- String [requestId](#)
- String [hosts](#)
- Long [count](#)
- String [PCRMask](#)

6.145.1 Member Function Documentation

6.145.1.1 Long com.intel.openAttestation.AttestationService.bean.RequestBean.getCount ()

6.145.1.2 String com.intel.openAttestation.AttestationService.bean.RequestBean.getHosts ()

- 6.145.1.3 String com.intel.openAttestation.AttestationService.bean.RequestBean.getPCRMask ()
- 6.145.1.4 String com.intel.openAttestation.AttestationService.bean.RequestBean.getRequestId ()
- 6.145.1.5 void com.intel.openAttestation.AttestationService.bean.RequestBean.setCount (Long *count*)
- 6.145.1.6 void com.intel.openAttestation.AttestationService.bean.RequestBean.setHosts (String *hosts*)
- 6.145.1.7 void com.intel.openAttestation.AttestationService.bean.RequestBean.setPCRMask (String *pCRMMask*)
- 6.145.1.8 void com.intel.openAttestation.AttestationService.bean.RequestBean.setRequestId (String *requestId*)

6.145.2 Member Data Documentation

- 6.145.2.1 Long com.intel.openAttestation.AttestationService.bean.RequestBean.count [private]
- 6.145.2.2 String com.intel.openAttestation.AttestationService.bean.RequestBean.hosts [private]
- 6.145.2.3 String com.intel.openAttestation.AttestationService.bean.RequestBean.PCRMMask [private]
- 6.145.2.4 String com.intel.openAttestation.AttestationService.bean.RequestBean.requestId [private]

6.146 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.Request-GetEC Class Reference

Public Member Functions

- [ByteArray](#) [getEncryptedEkMod](#) ()
- void [setEncryptedEkMod](#) ([ByteArray](#) value)
- [ByteArray](#) [getArg1](#) ()
- void [setArg1](#) ([ByteArray](#) value)
- int [getArg2](#) ()
- void [setArg2](#) (int value)

Protected Attributes

- [ByteArray](#) [encryptedEkMod](#)
- [ByteArray](#) [arg1](#)
- int [arg2](#)

6.146.1 Detailed Description

Java class for requestGetEC complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="requestGetEC">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="encryptedEkMod" type="{http://server.hisPrivacyCAWebService2.webservices.his.niarl.gov}encryptedEkMod"/>
        <element name="arg1" type="{http://server.hisPrivacyCAWebService2.webservices.his.niarl.gov}arg1"/>
        <element name="arg2" type="{http://www.w3.org/2001/XMLSchema}int"/>
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

```
</complexContent>
</complexType>
```

6.146.2 Member Function Documentation

6.146.2.1 **ByteArray** gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.RequestGetEC.getArg1 ()

Gets the value of the arg1 property.

Returns

possible object is [ByteArray](#)

6.146.2.2 **int** gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.RequestGetEC.getArg2 ()

Gets the value of the arg2 property.

6.146.2.3 **ByteArray** gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.RequestGetEC.getEncryptedEkMod ()

Gets the value of the encryptedEkMod property.

Returns

possible object is [ByteArray](#)

6.146.2.4 **void** gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.RequestGetEC.setArg1 (**ByteArray** *value*)

Sets the value of the arg1 property.

Parameters

<i>value</i>	allowed object is ByteArray
--------------	---

6.146.2.5 **void** gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.RequestGetEC.setArg2 (**int** *value*)

Sets the value of the arg2 property.

6.146.2.6 **void** gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.RequestGetEC.setEncryptedEkMod (**ByteArray** *value*)

Sets the value of the encryptedEkMod property.

Parameters

<i>value</i>	allowed object is ByteArray
--------------	---

6.146.3 Member Data Documentation

- 6.146.3.1 **ByteArray** gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.RequestGetEC.arg1
[protected]
- 6.146.3.2 **int** gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.RequestGetEC.arg2 [protected]
- 6.146.3.3 **ByteArray** gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.RequestGetEC.encryptedEkMod
[protected]

6.147 gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.Request- GetECResponse Class Reference

Public Member Functions

- [ByteArray](#) [getRequestGetEC](#) ()
- void [setRequestGetEC](#) ([ByteArray](#) value)

Protected Attributes

- [ByteArray](#) [requestGetEC](#)

6.147.1 Detailed Description

Java class for requestGetECResponse complex type.

The following schema fragment specifies the expected content contained within this class.

```
<complexType name="requestGetECResponse">
  <complexContent>
    <restriction base="{http://www.w3.org/2001/XMLSchema}anyType">
      <sequence>
        <element name="requestGetEC" type="{http://server.hisPrivacyCAWebService2.webservices.his.
      </sequence>
    </restriction>
  </complexContent>
</complexType>
```

6.147.2 Member Function Documentation

6.147.2.1 **ByteArray** gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.RequestGetECResponse.get- RequestGetEC ()

Gets the value of the requestGetEC property.

Returns

possible object is [ByteArray](#)

6.147.2.2 **void** gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.RequestGetECResponse.setRequestGetEC ([ByteArray](#) value)

Sets the value of the requestGetEC property.

Parameters

value	allowed object is ByteArray
-------	---

6.147.3 Member Data Documentation

6.147.3.1 `ByteArray gov.niarl.his.webservices.hisPrivacyCAWebServices2.clientWsImport.RequestGetECResponse.request-GetEC` [protected]

6.148 **POL New** `com.intel.openAttestation.AttestationService.bean.RespDetails` Class Reference

Public Member Functions

- String `getAnalysis_name` ()
- void `setAnalysis_name` (String `analysis_name`)
- String `getResult` ()
- void `setResult` (String `result`)
- String `getVerbose_result` ()
- void `setVerbose_result` (String `verbose_result`)
- String `getOutput` ()
- void `setOutput` (String `output`)

Private Attributes

- String `analysis_name`
- String `result`
- String `verbose_result`
- String `output`

6.148.1 Detailed Description

This class maps a JSON element used by the RESTful services [Host](#) and [PollHost](#). The service is realised with Jersey, that uses Jackson to convert Java objects to/from JSON.

Author

Nicola Barresi (POL)

6.148.2 Member Function Documentation

6.148.2.1 String `com.intel.openAttestation.AttestationService.bean.RespDetails.getAnalysis_name` ()

Gets the current value of element `analysis_name`.

Returns

The value of element `analysis_name`.

6.148.2.2 String `com.intel.openAttestation.AttestationService.bean.RespDetails.getOutput` ()

Gets the current value of element `output`.

Returns

The value of element `output`.

6.148.2.3 String com.intel.openAttestation.AttestationService.bean.RespDetails.getResult ()

Gets the current value of element result.

Returns

The value of element result.

6.148.2.4 String com.intel.openAttestation.AttestationService.bean.RespDetails.getVerbose_result ()

Gets the current value of element verbose_result.

Returns

The value of element verbose_result.

6.148.2.5 void com.intel.openAttestation.AttestationService.bean.RespDetails.setAnalysis_name (String analysis_name)

Sets the value of element analysis_name.

Parameters

<i>analysis_name</i>	The value of element analysis_name
----------------------	------------------------------------

6.148.2.6 void com.intel.openAttestation.AttestationService.bean.RespDetails.setOutput (String output)

Sets the value of element output.

Parameters

<i>output</i>	The value of element output
---------------	-----------------------------

6.148.2.7 void com.intel.openAttestation.AttestationService.bean.RespDetails.setResult (String result)

Sets the value of element result.

Parameters

<i>result</i>	The value of element result
---------------	-----------------------------

6.148.2.8 void com.intel.openAttestation.AttestationService.bean.RespDetails.setVerbose_result (String verbose_result)

Sets the value of element verbose_result.

Parameters

<i>verbose_result</i>	The value of element verbose_result
-----------------------	-------------------------------------

6.148.3 Member Data Documentation**6.148.3.1** String com.intel.openAttestation.AttestationService.bean.RespDetails.analysis_name [private]

6.148.3.2 String `com.intel.openAttestation.AttestationService.bean.RespDetails.output` [private]

6.148.3.3 String `com.intel.openAttestation.AttestationService.bean.RespDetails.result` [private]

6.148.3.4 String `com.intel.openAttestation.AttestationService.bean.RespDetails.verbose_result` [private]

6.149 com.intel.openAttestation.AttestationService.bean.RespSyncBean Class Reference

Public Member Functions

- List< [Host](#) > [getHosts](#) ()
- void [setHosts](#) (List< [Host](#) > *hosts*)

Private Attributes

- List< [Host](#) > *hosts*

6.149.1 Member Function Documentation

6.149.1.1 List<[Host](#)> `com.intel.openAttestation.AttestationService.bean.RespSyncBean.getHosts ()`

6.149.1.2 void `com.intel.openAttestation.AttestationService.bean.RespSyncBean.setHosts (List< Host > hosts)`

6.149.2 Member Data Documentation

6.149.2.1 List<[Host](#)> `com.intel.openAttestation.AttestationService.bean.RespSyncBean.hosts` [private]

6.150 com.intel.openAttestation.AttestationService.util.ResultConverter Class Reference

Static Public Member Functions

- static [AttestResult](#) [getResultFromInt](#) (int *i*)
- static int [getIntFromResult](#) ([AttestResult](#) *result*)
- static String [getStringFromInt](#) (int *i*)

Static Private Attributes

- static [HashMap](#)< Integer, [AttestResult](#) > [integerResultHashMap](#)
- static [HashMap](#)< [AttestResult](#), Integer > [ResultIntegerHashMap](#) = new [HashMap](#)<[AttestResult](#), Integer>()

6.150.1 Member Function Documentation

6.150.1.1 static int `com.intel.openAttestation.AttestationService.util.ResultConverter.getIntFromResult (AttestResult result)`
[static]

Converts an Action enumeration into the related integer.

Parameters

<i>action</i>	Enumeration value.
---------------	--------------------

Returns

Integer related to the enumeration.

6.150.1.2 `static AttestResult com.intel.openAttestation.AttestationService.util.ResultConverter.getResultFromInt (int i)`
[static]

Converts a integer into an Action enumeration.

Parameters

<i>i</i>	Integer linked to an action.
----------	------------------------------

Returns

Action enumeration related to an integer.

6.150.1.3 `static String com.intel.openAttestation.AttestationService.util.ResultConverter.getStringFromInt (int i)`
[static]

6.150.2 Member Data Documentation

6.150.2.1 `HashMap<Integer,AttestResult> com.intel.openAttestation.AttestationService.util.ResultConverter.integerResult-HashMap` [static],[private]

Initial value:

```
= new HashMap<Integer, AttestResult>() {
    private static final long serialVersionUID = 1L;
    {
        put(0, AttestResult.UN_TRUSTED);
        put(1, AttestResult.TRUSTED);
        put(2, AttestResult.UN_KNOWN);
        put(3, AttestResult.TIME_OUT);
        put(4, AttestResult.PENDING);
    }
}
```

6.150.2.2 `HashMap<AttestResult, Integer> com.intel.openAttestation.AttestationService.util.ResultConverter.ResultIntegerHashMap = new HashMap<AttestResult, Integer>()` [static],[private]

6.151 gov.niarl.hisAppraiser.hibernate.util.ResultConverter Class Reference**Static Public Member Functions**

- static AttestResult [getResultFromInt](#) (int i)
- static int [getIntFromResult](#) (AttestResult result)

Static Private Attributes

- static HashMap< Integer, AttestResult > [integerResultHashMap](#)
- static HashMap< AttestResult, Integer > [ResultIntegerHashMap](#) = new HashMap<AttestResult, Integer>()

6.151.1 Member Function Documentation

6.151.1.1 static int gov.niarl.hisAppraiser.hibernate.util.ResultConverter.getIntFromResult (AttestResult *result*) [static]

Converts an Action enumeration into the related integer.

Parameters

<i>action</i>	Enumeration value.
---------------	--------------------

Returns

Integer related to the enumeration.

6.151.1.2 static AttestResult gov.niarl.hisAppraiser.hibernate.util.ResultConverter.getResultFromInt (int *i*) [static]

Converts a integer into an Action enumeration.

Parameters

<i>i</i>	Integer linked to an action.
----------	------------------------------

Returns

Action enumeration related to an integer.

6.151.2 Member Data Documentation

6.151.2.1 HashMap<Integer,AttestResult> gov.niarl.hisAppraiser.hibernate.util.ResultConverter.integerResultHashMap [static],[private]

Initial value:

```
= new HashMap<Integer, AttestResult>() {
    private static final long serialVersionUID = 1L;
    {
        put(0, AttestResult.UN_TRUSTED);
        put(1, AttestResult.TRUSTED);
        put(2, AttestResult.UN_KNOWN);
        put(3, AttestResult.TIME_OUT);
        put(4, AttestResult.PENDING);
    }
}
```

6.151.2.2 HashMap<AttestResult, Integer> gov.niarl.hisAppraiser.hibernate.util.ResultConverter.ResultIntegerHashMap = new HashMap<AttestResult, Integer>() [static],[private]

6.152 gov.niarl.his.StandaloneHIS Class Reference

Public Member Functions

- [StandaloneHIS](#) (String path, boolean splash, boolean brand) throws Exception
- void [dynamicPoll](#) ()
- void [checkIntegrity](#) () throws Exception

Static Public Member Functions

- static String [removeWhiteSpace](#) (String string)
- static byte[] [unHexString](#) (String string)
- static String [hexString](#) (byte[] byteArray)
- static void [main](#) (String[] args)
- static String [generateUUID](#) (String version)

Static Public Attributes

- static String [UUID_VERSION](#) = "1"
- static final String [SNAPSHOT_PREFIX](#) = "S"
- static final String [QUOTE_PREFIX](#) = "Q"
- static final short [QUOTE_VERSION_MAJOR](#) = 0x01
- static final short [QUOTE_VERSION_MINOR](#) = 0x01
- static final short [QUOTE_VERSION_REV_MAJOR](#) = 0x00
- static final short [QUOTE_VERSION_REV_MINOR](#) = 0x00
- static final String [SNAPSHOT_REV_LEVEL](#) = "0"
- static final byte[] [DEFAULT_PCR_BITMASK](#) = {(byte)0xff, (byte)0xff, (byte)0xff}
- static final String [DEFAULT_TIMEOUT_VALUE](#) = "10"
- static final String [MODE_FLAG](#) = "-mode"
- static final String [NONCE_FLAG](#) = "-nonce"
- static final String [BITMASK_FLAG](#) = "-mask"
- static final String [KEY_AUTH_FLAG](#) = "-key_auth"
- static final String [KEY_INDEX_FLAG](#) = "-key_index"
- static final String [LOG4J_PROPERTIES_FILE](#) = "log4j.properties"
- static Logger [s_logger](#)
- static final String [TPM_QUOTE_EXECUTABLE_NAME_LABEL](#) = "TpmQuoteExecutableName"
- static final String [TPM_QUOTE_EXECUTABLE_PATH_LABEL](#) = "TpmQuoteExecutablePath"
- static final String [VENDOR_GUID_LABEL](#) = "VendorGUID"
- static final String [VENDOR_NAME_LABEL](#) = "Vendor"
- static final String [MODEL_NAME_LABEL](#) = "ModelName"
- static final String [MODEL_NUMBER_LABEL](#) = "ModelNumber"
- static final String [VERSION_MAJOR_LABEL](#) = "ModelMajorRev"
- static final String [VERSION_MINOR_LABEL](#) = "ModelMinorRev"
- static final String [WEB_SERVICE_URL_LABEL](#) = "WebServiceUrl"
- static final String [MODEL_SN_LABEL](#) = "ModelSerialNumber"
- static final String [MODEL_PATCH_LEVEL_LABEL](#) = "PatchLevel"
- static final String [MODEL_MFG_DATE_LABEL](#) = "MfgDate"
- static final String [BLOCKING_TIMEOUT_LABEL](#) = "BlockingTimeout"
- static final String [KEY_AUTH_LABEL](#) = "KeyAuth"
- static final String [KEY_INDEX_LABEL](#) = "KeyIndex"
- static final String [TRUST_STORE_LABEL](#) = "TrustStore"
- static final String [SPLASH_IMAGE_LABEL](#) = "SplashImage"
- static final String [POLLING_PERIOD_LABEL](#) = "PollingPeriod"
- static final String [UUID_VERSION_LABEL](#) = "UUIDversion"
- static final String [OS_TYPE_LABEL](#) = "OSType"
- static final String [VERIFY_COMMAND_LABEL](#) = "VerifyClientAction"

- static final String [CLEAN_COMMAND_LABEL](#) = "CleanClientAction"
- static final String [WINDOWS_OS_TAG](#) = "W"
- static final String [LINUX_OS_TAG](#) = "X"
- static final String [DEFAULT_HIS_PATH](#) = "/OAT/"
- static final String [PROPERTIES_NAME](#) = "OAT.properties"
- static final String [PROPERTIES_EXTENSION](#) = ".properties"
- static final String [DEFAULT_KEY_AUTH](#) = "0123456789012345678901234567890123456789"
- static final String [DEFAULT_KEY_INDEX](#) = "1"
- static final String [DEFAULT_POLLING_VALUE](#) = "30"
- static final String [TPM_QUOTE_MODE](#) = "5"
- static final String [TPM_QUOTE1_MODE](#) = "56"
- static final String [TPM_QUOTE2_MODE](#) = "24"
- static final String [ERROR_MESSAGE_ID](#) = "0001"
- static final String [UNLOCK_SCREEN_MESSAGE_ID](#) = "0002"
- static final String [WINDOWS_REBOOT_CMD](#) = "shutdown -r"
- static final String [LINUX_REBOOT_CMD](#) = "shutdown -r 15"
- static final String [EXPECTED_QUOTE_VERSION_TAG](#) = "01010000"
- static final String [QUOTE_FIXED](#) = "QUOT"
- static final int [PCR_FIELD_SIZE](#) = 2
- static final int [PCR_LENGTH_SIZE](#) = 2
- static final int [PCR_SIZE](#) = 20
- static final int [QUOTE_SIZE](#) = 48
- static final int [QUOTE_VERSION_SIZE](#) = 4
- static final int [QUOTE_FIXED_SIZE](#) = 4
- static final int [PCR_HASH_SIZE](#) = 20
- static final int [NONCE_SIZE](#) = 20
- static final int [SIGNATURE_SIZE](#) = 256
- static final int [QUOTE2_SIZE_BASE](#) = 49
- static final byte[] [EXPECTED_QUOTE2_VERSION_TAG](#) = {(byte)0x00, (byte)0x36}
- static final String [QUOTE2_FIXED](#) = "QUT2"
- static final String [QUOTE2_FILLER_BYTE](#) = "01"
- static final int [QUOTE2_VERSION_SIZE](#) = 2
- static final int [QUOTE2_BITMASK_LENGTH_SIZE](#) = 2

Private Member Functions

- SnapshotType [createIMASnapshot](#) (String id)
- String [runTPMrequest](#) (String tpmInput)
- ReportType [createIntegrityReport](#) (String hostName)
- ReportType [createEmptyReport](#) (String message, String messageTag)
- SnapshotType [createSnapshot](#) (String id, String taggedMessage)
- QuoteDataType [createQuoteDataEntry](#) (String reportId, PcrCompositeType pcrComposite, QuoteSignatureType quoteSignature, byte[] nonce, byte[] pcrHash, short quoteVersion)
- QuoteDataType [parseQuote](#) (int quoteVer, int pcrNumber, String reportID) throws IOException
- void [getReportParams](#) (String userName, String compName)
- void [sendIntegrityReport](#) (ReportType reportType) throws Exception
- void [restartComputer](#) (int osType)
- boolean [sendErrorReport](#) (String errMsg)
- void [commandProcessor](#) (String commandLabel, String args)

Private Attributes

- byte[] [pcrBitmask](#)

6.152.1 Detailed Description

[StandaloneHIS](#) is a self contained client application for the Host Integrity at Startup (HIS) system. This application can be run as any other and will query the local Trusted Platform Module (TPM) for host integrity measurements in the form of a signed Quote.

The HIS Client makes use of binary TPM Interface Module to access the TPM via a system call, a TCG defined XML integrity report format and web service stype communications with a back end HIS server.

The HIS Client can be run in a once through mode that runs the reporting process and then terminates or an On Demand mode that sets the process to poll for instructions via web services. The On Demand mode has expanded the range of functions that the HIS Client can carry out including capabilities for system reboot (in order to generate fresh measurements) and process specially configured commands in order to handle scenarios with virtualized guest environments.

The HIS Client application uses log4j logging as well as sending special Error Reports to the back end server. In addition to this certain errors also print to Std Out or Std Err to better enable field debugging.

The HIS Client also makes use of a HIS.properties file located in the root of the application path supplied as an argument. This property file contains all of the Client's configuration data. While defaults can be substituted lack of a proper configuration will cause the HIS Client to not function.

Other dependencies include both a binary TPM interface module and splash screen image, the location of which are pointed to in the HIS.properties file.

Author

mcbrotz

6.152.2 Constructor & Destructor Documentation

6.152.2.1 gov.niarl.his.StandaloneHIS.StandaloneHIS (String *path*, boolean *splash*, boolean *brand*) throws Exception

Constructor. Loads HIS property file, various properties and other global variables

Parameters

<i>path</i>	The path to where the HIS files have been installed
<i>splash</i>	Is the splash scteen to be displayed
<i>brand</i>	Is HIS in branding mode

Exceptions

<i>java.lang.Exception</i>	Thown is HIS has a problem
----------------------------	----------------------------

6.152.3 Member Function Documentation

6.152.3.1 **POL Mod** void gov.niarl.his.StandaloneHIS.checkIntegrity () throws Exception

Method performs a system integrity check by calling the TPM and returning the Report.

Modifications: The function calls new method [createIMASnapshot\(\)](#), in this way IMA measurements are included in the report.

Exceptions

<i>java.lang.Exception</i>	
----------------------------	--

6.152.3.2 void gov.niarl.his.StandaloneHIS.commandProcessor (String *commandLabel*, String *args*) [private]

Processes generic commands from the on demand system. Takes in an index which points to a command in a properties file and applies the arguments.

Parameters

<i>commandLabel</i>	The command index in the properties file
<i>args</i>	The arguments applied to the command

6.152.3.3 ReportType gov.niarl.his.StandaloneHIS.createEmptyReport (String *message*, String *messageTag*) [private]

Creates an empty report with no quote structure. This is used in case there is an issue accessing the TPM or no TPM is installed.

Parameters

<i>message</i>	a message proviging the reason for the empty report
<i>messageTag</i>	a code setting the class of message sent in the Empty report

Returns

the empty integrity report with message in the snapshot

6.152.3.4 **POL New** SnapshotType gov.niarl.his.StandaloneHIS.createIMASnapshot (String *id*) [private]

This function creates a snapshot containing measurements realized by IMA, read by file /sys/kernel/security/ima/ascii_runtime_measurements. If the report has to contain all of the measurements (received action is SEND_REPORT) the function reads the file entirely; otherwise the next measure received by polling web service is compared with the one stored in a configuration file. If two values are the same, machine and validator are synchronized and measurements file is read from requested row; if they are different all measurements are sent.

Parameters

<i>id</i>	The ID number for the overall integrity report.
-----------	---

6.152.3.5 ReportType gov.niarl.his.StandaloneHIS.createIntegrityReport (String *hostName*) [private]

Generates the base XML integrity report accouting to the TCG Integrity Report 1.0 Scheema Report needs to have the Quote and Snapshot data added to it later

Parameters

<i>hostName</i>	The hostname of the machine
-----------------	-----------------------------

6.152.3.6 QuoteDataType gov.niarl.his.StandaloneHIS.createQuoteDataEntry (String *reportId*, PcrCompositeType *pcrComposite*, QuoteSignatureType *quoteSignature*, byte[] *nonce*, byte[] *pcrHash*, short *quoteVersion*) [private]

Takes raw PCR data and constructs a QuoteData element that conrains the a PCR value quote and a corresponding signature.

Parameters

<i>id</i>	The report ID to for use by the Quote Data object.
<i>pcrComposite</i>	This object is loaded with all of the PCR values from the TPM
<i>quoteSignature</i>	The object containing the TPM signature over the returned PCR data
<i>nonce</i>	The nonce returned with the TPM quote
<i>pcrHash</i>	a hash of all the returned PCR values which is signed in the quote

6.152.3.7 SnapshotType gov.niarl.his.StandaloneHIS.createSnapshot (String *id*, String *taggedMessage*) [private]

This creates the system snapshot object. The snapshot can contain a listing of all the system components and their various attributes Only one component is required along with various snapshot ID. Each component element itself have a large list of optional data that pertains solely to that component.

This method is currently only filling in the single required component element with default values.

Also used for the error report by stuffing the error report into the Value Type field.

The PcrHash must be added seperately.

Parameters

<i>id</i>	The ID number for the overall integrity report.
<i>taggedMessage</i>	A message string tagged with an appropriate value for use in Error reports or to send other information to the server

6.152.3.8 **POL Mod** void gov.niarl.his.StandaloneHIS.dynamicPoll ()

This function sets up the HIS application into a dynamic polling mode where the app will poll a web service to determine if it needs to send back a report.

The poll interval is set within the property file and defaults to 30 seconds.

Modifications: The function accept one more action, REPOST_START, introduced by scalability mechanism; if the machine receive a REPOST_START the function reads next measure to be sent and stores its value in a dedicated property.

6.152.3.9 static String gov.niarl.his.StandaloneHIS.generateUUID (String *version*) [static]

Generated a UUID vased on the supplied version number. Currently UUID versions 1, 3 and 4 are supported. Unsupported versions will result in a default value being returned.

Parameters

<i>version</i>	the version number of the UUID to be geerated. Ver 1, 3 and 4 supported.
----------------	--

Returns

a properly formatted UUID

6.152.3.10 void gov.niarl.his.StandaloneHIS.getReportParams (String *userName*, String *compName*) [private]

Makes a web service call to get the parameters for the Integrity check. The parameters include a Quote type (1 or 2) nonce and PCR selection and are customized for the computer and user.

Parameters

<i>userName</i>	The username of the principal logging in
<i>compName</i>	The name of the workstation being logged into

6.152.3.11 `static String gov.niarl.his.StandaloneHIS.hexString (byte[] byteArray) [static]`

Turn a byte array into a hexadecimal string representation.

Parameters

<i>byteArray</i>	Byte array to be converted into a hexadecimal string representation.
------------------	--

Returns

A string containing a hexadecimal representation of a byte array without space or 0x's.

6.152.3.12 `static void gov.niarl.his.StandaloneHIS.main (String[] args) [static]`

[Main](#) method for running the application.

Parameters

<i>args</i>	the command line arguments The first parameter is the working directory. The second is the flag to handle the splash screen: -s if the splash screen is to be displayed -b if the splash screen is to be displayed without running the TPM report -d if the HIS client is to be run in dynamic mode (disables splash screen) The parameters can be used individually, but only one of each
-------------	--

6.152.3.13 `QuoteDataType gov.niarl.his.StandaloneHIS.parseQuote (int quoteVer, int pcrNumber, String reportID) throws IOException [private]`

Parses a raw TPM version 1 quote (in Hex String format) and puts the PCR values into an TCG Integrity report

This function does not attempt to check if the Quote values are valid

Parameters

<i>quoteVer</i>	The version of quote to parse against, Quote or Quote 2
<i>pcrNumber</i>	The number of PCR values being returned
<i>reportID</i>	The Report ID.

Returns

A Quote Data object containing the data parsed from the TPM output

Exceptions

<i>java.io.IOException</i>	
----------------------------	--

6.152.3.14 static String gov.niarl.his.StandaloneHIS.removeWhiteSpace (String *string*) [static]

Removes white space from a string.

Parameters

<i>string</i>	String from which white space will be removed.
---------------	--

Returns

String without white space.

6.152.3.15 void gov.niarl.his.StandaloneHIS.restartComputer (int *osType*) [private]

Performs a system call to reboot the system to enable fresh measurements to be taken. This is not intended as a sophisticated administrative tool, only a quick and dirty proof of concept/

Parameters

<i>osType</i>	The type of OS running the application
---------------	--

6.152.3.16 String gov.niarl.his.StandaloneHIS.runTPMrequest (String *tpmInput*) [private]

Invokes the auto-registration process that sends the AIC to the back end if the back end has indicated that it lacks it. Makes a runtime call to the TPM executable interface and captures its output.

Parameters

<i>tpmInput</i>	The input string to the TPM Quote function
-----------------	--

6.152.3.17 boolean gov.niarl.his.StandaloneHIS.sendErrorReport (String *errMsg*) [private]

A wrapper method to log and send an error report with the specified error message.

Parameters

<i>errMsg</i>	The error message
---------------	-------------------

Returns

true for success, false for a sending error

6.152.3.18 void gov.niarl.his.StandaloneHIS.sendIntegrityReport (ReportType *reportType*) throws Exception [private]

Marshalls the integrity report object into a string format and sends it to the server via a web service.

Parameters

<i>reportType</i>	The integrity report to be sent
-------------------	---------------------------------

6.152.3.19 `static byte [] gov.niarl.his.StandaloneHIS.unHexString (String string) [static]`

Turns a hexadecimal string representation to a byte array.

Parameters

<i>string</i>	Hexadecimal formatted string.
---------------	-------------------------------

Returns

Byte array generated from a hexadecimal string representation

6.152.4 Member Data Documentation

6.152.4.1 `final String gov.niarl.his.StandaloneHIS.BITMASK_FLAG = "-mask" [static]`

6.152.4.2 `final String gov.niarl.his.StandaloneHIS.BLOCKING_TIMEOUT_LABEL = "BlockingTimeout" [static]`

6.152.4.3 `final String gov.niarl.his.StandaloneHIS.CLEAN_COMMAND_LABEL = "CleanClientAction" [static]`

6.152.4.4 `final String gov.niarl.his.StandaloneHIS.DEFAULT_HIS_PATH = "/OAT/" [static]`

6.152.4.5 `final String gov.niarl.his.StandaloneHIS.DEFAULT_KEY_AUTH = "0123456789012345678901234567890123456789" [static]`

6.152.4.6 `final String gov.niarl.his.StandaloneHIS.DEFAULT_KEY_INDEX = "1" [static]`

6.152.4.7 `final byte [] gov.niarl.his.StandaloneHIS.DEFAULT_PCR_BITMASK = {(byte)0xff, (byte)0xff, (byte)0xff} [static]`

6.152.4.8 `final String gov.niarl.his.StandaloneHIS.DEFAULT_POLLING_VALUE = "30" [static]`

6.152.4.9 `final String gov.niarl.his.StandaloneHIS.DEFAULT_TIMEOUT_VALUE = "10" [static]`

6.152.4.10 `final String gov.niarl.his.StandaloneHIS.ERROR_MESSAGE_ID = "0001" [static]`

6.152.4.11 `final byte [] gov.niarl.his.StandaloneHIS.EXPECTED_QUOTE2_VERSION_TAG = {(byte)0x00, (byte)0x36} [static]`

6.152.4.12 `final String gov.niarl.his.StandaloneHIS.EXPECTED_QUOTE_VERSION_TAG = "01010000" [static]`

6.152.4.13 `final String gov.niarl.his.StandaloneHIS.KEY_AUTH_FLAG = "-key_auth" [static]`

6.152.4.14 `final String gov.niarl.his.StandaloneHIS.KEY_AUTH_LABEL = "KeyAuth" [static]`

6.152.4.15 `final String gov.niarl.his.StandaloneHIS.KEY_INDEX_FLAG = "-key_index" [static]`

6.152.4.16 `final String gov.niarl.his.StandaloneHIS.KEY_INDEX_LABEL = "KeyIndex" [static]`

6.152.4.17 `final String gov.niarl.his.StandaloneHIS.LINUX_OS_TAG = "X" [static]`

6.152.4.18 `final String gov.niarl.his.StandaloneHIS.LINUX_REBOOT_CMD = "shutdown -r 15" [static]`

6.152.4.19 `final String gov.niarl.his.StandaloneHIS.LOG4J_PROPERTIES_FILE = "log4j.properties" [static]`

6.152.4.20 `final String gov.niarl.his.StandaloneHIS.MODE_FLAG = "-mode" [static]`

6.152.4.21 final String gov.niari.his.StandaloneHIS.MODEL_MFG_DATE_LABEL = "MfgDate" [static]

6.152.4.22 final String gov.niari.his.StandaloneHIS.MODEL_NAME_LABEL = "ModelName" [static]

6.152.4.23 final String gov.niari.his.StandaloneHIS.MODEL_NUMBER_LABEL = "ModelNumber" [static]

6.152.4.24 final String gov.niari.his.StandaloneHIS.MODEL_PATCH_LEVEL_LABEL = "PatchLevel" [static]

6.152.4.25 final String gov.niari.his.StandaloneHIS.MODEL_SN_LABEL = "ModelSerialNumber" [static]

6.152.4.26 final String gov.niari.his.StandaloneHIS.NONCE_FLAG = "-nonce" [static]

6.152.4.27 final int gov.niari.his.StandaloneHIS.NONCE_SIZE = 20 [static]

6.152.4.28 final String gov.niari.his.StandaloneHIS.OS_TYPE_LABEL = "OSType" [static]

6.152.4.29 final int gov.niari.his.StandaloneHIS.PCR_FIELD_SIZE = 2 [static]

6.152.4.30 final int gov.niari.his.StandaloneHIS.PCR_HASH_SIZE = 20 [static]

6.152.4.31 final int gov.niari.his.StandaloneHIS.PCR_LENGTH_SIZE = 2 [static]

6.152.4.32 final int gov.niari.his.StandaloneHIS.PCR_SIZE = 20 [static]

6.152.4.33 byte [] gov.niari.his.StandaloneHIS.pcrBitmask [private]

6.152.4.34 final String gov.niari.his.StandaloneHIS.POLLING_PERIOD_LABEL = "PollingPeriod" [static]

6.152.4.35 final String gov.niari.his.StandaloneHIS.PROPERTIES_EXTENSION = ".properties" [static]

6.152.4.36 final String gov.niari.his.StandaloneHIS.PROPERTIES_NAME = "OAT.properties" [static]

6.152.4.37 final int gov.niari.his.StandaloneHIS.QUOTE2_BITMASK_LENGTH_SIZE = 2 [static]

6.152.4.38 final String gov.niari.his.StandaloneHIS.QUOTE2_FILLER_BYTE = "01" [static]

6.152.4.39 final String gov.niari.his.StandaloneHIS.QUOTE2_FIXED = "QUT2" [static]

6.152.4.40 final int gov.niari.his.StandaloneHIS.QUOTE2_SIZE_BASE = 49 [static]

6.152.4.41 final int gov.niari.his.StandaloneHIS.QUOTE2_VERSION_SIZE = 2 [static]

6.152.4.42 final String gov.niari.his.StandaloneHIS.QUOTE_FIXED = "QUOT" [static]

6.152.4.43 final int gov.niari.his.StandaloneHIS.QUOTE_FIXED_SIZE = 4 [static]

6.152.4.44 final String gov.niari.his.StandaloneHIS.QUOTE_PREFIX = "Q" [static]

6.152.4.45 final int gov.niari.his.StandaloneHIS.QUOTE_SIZE = 48 [static]

6.152.4.46 final short gov.niari.his.StandaloneHIS.QUOTE_VERSION_MAJOR = 0x01 [static]

6.152.4.47 final short gov.niari.his.StandaloneHIS.QUOTE_VERSION_MINOR = 0x01 [static]

6.152.4.48 final short gov.niari.his.StandaloneHIS.QUOTE_VERSION_REV_MAJOR = 0x00 [static]

```

6.152.4.49  final short gov.niarl.his.StandaloneHIS.QUOTE_VERSION_REV_MINOR = 0x00  [static]

6.152.4.50  final int gov.niarl.his.StandaloneHIS.QUOTE_VERSION_SIZE = 4  [static]

6.152.4.51  Logger gov.niarl.his.StandaloneHIS.s.logger  [static]

6.152.4.52  final int gov.niarl.his.StandaloneHIS.SIGNATURE_SIZE = 256  [static]

6.152.4.53  final String gov.niarl.his.StandaloneHIS.SNAPSHOT_PREFIX = "S"  [static]

6.152.4.54  final String gov.niarl.his.StandaloneHIS.SNAPSHOT_REV_LEVEL = "0"  [static]

6.152.4.55  final String gov.niarl.his.StandaloneHIS.SPLASH_IMAGE_LABEL = "SplashImage"  [static]

6.152.4.56  final String gov.niarl.his.StandaloneHIS.TPM_QUOTE1_MODE = "56"  [static]

6.152.4.57  final String gov.niarl.his.StandaloneHIS.TPM_QUOTE2_MODE = "24"  [static]

6.152.4.58  final String gov.niarl.his.StandaloneHIS.TPM_QUOTE_EXECUTABLE_NAME_LABEL = "TpmQuoteExecutableName"
            [static]

6.152.4.59  final String gov.niarl.his.StandaloneHIS.TPM_QUOTE_EXECUTABLE_PATH_LABEL = "TpmQuoteExecutablePath"
            [static]

6.152.4.60  final String gov.niarl.his.StandaloneHIS.TPM_QUOTE_MODE = "5"  [static]

6.152.4.61  final String gov.niarl.his.StandaloneHIS.TRUST_STORE_LABEL = "TrustStore"  [static]

6.152.4.62  final String gov.niarl.his.StandaloneHIS.UNLOCK_SCREEN_MESSAGE_ID = "0002"  [static]

6.152.4.63  String gov.niarl.his.StandaloneHIS.UUID_VERSION = "1"  [static]

6.152.4.64  final String gov.niarl.his.StandaloneHIS.UUID_VERSION_LABEL = "UUIDversion"  [static]

6.152.4.65  final String gov.niarl.his.StandaloneHIS.VENDOR_GUID_LABEL = "VendorGUID"  [static]

6.152.4.66  final String gov.niarl.his.StandaloneHIS.VENDOR_NAME_LABEL = "Vendor"  [static]

6.152.4.67  final String gov.niarl.his.StandaloneHIS.VERIFY_COMMAND_LABEL = "VerifyClientAction"  [static]

6.152.4.68  final String gov.niarl.his.StandaloneHIS.VERSION_MAJOR_LABEL = "ModelMajorRev"  [static]

6.152.4.69  final String gov.niarl.his.StandaloneHIS.VERSION_MINOR_LABEL = "ModelMinorRev"  [static]

6.152.4.70  final String gov.niarl.his.StandaloneHIS.WEB_SERVICE_URL_LABEL = "WebServiceUrl"  [static]

6.152.4.71  final String gov.niarl.his.StandaloneHIS.WINDOWS_OS_TAG = "W"  [static]

6.152.4.72  final String gov.niarl.his.StandaloneHIS.WINDOWS_REBOOT_CMD = "shutdown -r"  [static]

```

6.153 gov.niarl.hisAppraiser.hibernate.domain.SystemConstants Class Reference

Public Member Functions

- Long [getId](#) ()
- void [setId](#) (Long id)

- String [getKeyId](#) ()
- void [setKeyId](#) (String keyId)
- String [getValue](#) ()
- void [setValue](#) (String value)
- String [getDescription](#) ()
- void [setDescription](#) (String description)

6.153.1 Detailed Description

Java class linked to the [MachineCert](#) table.

Author

syelama

Version

Crossbow

6.153.2 Member Function Documentation

6.153.2.1 String gov.niarl.hisAppraiser.hibernate.domain.SystemConstants.getDescription ()

Returns

the description

6.153.2.2 Long gov.niarl.hisAppraiser.hibernate.domain.SystemConstants.getId ()

Returns

the id

6.153.2.3 String gov.niarl.hisAppraiser.hibernate.domain.SystemConstants.getKeyId ()

Returns

the keyId

6.153.2.4 String gov.niarl.hisAppraiser.hibernate.domain.SystemConstants.getValue ()

Returns

the value

6.153.2.5 void gov.niarl.hisAppraiser.hibernate.domain.SystemConstants.setDescription (String *description*)

Parameters

<i>description</i>	the description to set
--------------------	------------------------

6.153.2.6 void gov.niarl.hisAppraiser.hibernate.domain.SystemConstants.setId (Long *id*)

Parameters

<i>id</i>	the id to set
-----------	---------------

6.153.2.7 void gov.niarl.hisAppraiser.hibernate.domain.SystemConstants.setKeyId (String *keyId*)

Parameters

<i>keyId</i>	the keyId to set
--------------	------------------

6.153.2.8 void gov.niarl.hisAppraiser.hibernate.domain.SystemConstants.setValue (String *value*)

Parameters

<i>value</i>	the value to set
--------------	------------------

6.154 gov.niarl.his.privacyca.TpmAsymCaContents Class Reference

Public Member Functions

- [TpmAsymCaContents](#) ()
- void [setSymmetricKey](#) ([TpmSymmetricKey](#) newKey)
- void [setDigest](#) ([TpmPubKey](#) aik) throws [NoSuchAlgorithmException](#), [TpmUtils.TpmUnsignedConversionException](#)
- void [encrypt](#) ([RSAPublicKey](#) ekPubKey, boolean TroustersModeBlankOeap) throws [NoSuchPaddingException](#), [NoSuchAlgorithmException](#), [InvalidKeyException](#), [InvalidAlgorithmParameterException](#), [IllegalBlockSizeException](#), [BadPaddingException](#), [TpmUtils.TpmUnsignedConversionException](#), [PrivacyCaException](#)
- byte[] [toByteArray](#) () throws [PrivacyCaException](#)
- [TpmAsymCaContents](#) ()
- void [setSymmetricKey](#) ([TpmSymmetricKey](#) newKey)
- void [setDigest](#) ([TpmPubKey](#) aik) throws [NoSuchAlgorithmException](#), [TpmUtils.TpmUnsignedConversionException](#)
- void [encrypt](#) ([RSAPublicKey](#) ekPubKey, boolean TroustersModeBlankOeap) throws [NoSuchPaddingException](#), [NoSuchAlgorithmException](#), [InvalidKeyException](#), [InvalidAlgorithmParameterException](#), [IllegalBlockSizeException](#), [BadPaddingException](#), [TpmUtils.TpmUnsignedConversionException](#), [PrivacyCaException](#)
- byte[] [toByteArray](#) () throws [PrivacyCaException](#)

Private Member Functions

- byte[] [toPlaintextByteArray](#) () throws [TpmUtils.TpmUnsignedConversionException](#), [PrivacyCaException](#)
- byte[] [toPlaintextByteArray](#) () throws [TpmUtils.TpmUnsignedConversionException](#), [PrivacyCaException](#)

Private Attributes

- [TpmSymmetricKey](#) symKey = null
- byte[] [tpmDigest](#) = null
- byte[] [encrypted](#) = null

6.154.1 Detailed Description

This class is the Java version of the C-style structure `TPM_ASYM_CA_CONTENTS`, as specified by the TCG. It contains all of the member variables specified by the TCG, and any applicable functions. This structure is normally created by the Privacy CA, is encrypted using a TPM's public EK, and holds the symmetric key needed to decrypt a paired [TpmSymCaAttestation](#).

Author

schawki

6.154.2 Constructor & Destructor Documentation

6.154.2.1 `gov.niarl.his.privacyca.TpmAsymCaContents.TpmAsymCaContents ()`

6.154.2.2 `gov.niarl.his.privacyca.TpmAsymCaContents.TpmAsymCaContents ()`

6.154.3 Member Function Documentation

6.154.3.1 `void gov.niarl.his.privacyca.TpmAsymCaContents.encrypt (RSAPublicKey ekPubKey, boolean TrousersModeBlankOeap)` throws `NoSuchPaddingException`, `NoSuchAlgorithmException`, `InvalidKeyException`, `InvalidAlgorithmParameterException`, `IllegalBlockSizeException`, `BadPaddingException`, `TpmUtils.TpmUnsignedConversionException`, `PrivacyCaException`

Encrypt the [TpmAsymCaContents](#) for return to the TPM. The symmetric key and digest must be set for this function to run without Exception.

Parameters

<i>ekPubKey</i>	The EK public key, extracted form the EK certificate included in the identity request/proof.
-----------------	--

Exceptions

<i>NoSuchPaddingException</i>	Encryption error.
<i>NoSuchAlgorithmException</i>	Encryption error.
<i>InvalidKeyException</i>	Encryption error.
<i>InvalidAlgorithmParameterException</i>	Encryption error.
<i>IllegalBlockSizeException</i>	Encryption error.
<i>BadPaddingException</i>	Encryption error.
<i>TpmUtils.TpmUnsignedConversionException</i>	Error in converting structures to byte arrays (bad data, most likely).
PrivacyCaException	All required prerequisites were not met.

6.154.3.2 `void gov.niarl.his.privacyca.TpmAsymCaContents.encrypt (RSAPublicKey ekPubKey, boolean TrousersModeBlankOeap)` throws `NoSuchPaddingException`, `NoSuchAlgorithmException`, `InvalidKeyException`, `InvalidAlgorithmParameterException`, `IllegalBlockSizeException`, `BadPaddingException`, `TpmUtils.TpmUnsignedConversionException`, `PrivacyCaException`

Encrypt the [TpmAsymCaContents](#) for return to the TPM. The symmetric key and digest must be set for this function to run without Exception.

Parameters

<i>ekPubKey</i>	The EK public key, extracted form the EK certificate included in the identity request/proof.
-----------------	--

Exceptions

<i>NoSuchPaddingException</i>	Encryption error.
<i>NoSuchAlgorithmException</i>	Encryption error.
<i>InvalidKeyException</i>	Encryption error.
<i>InvalidAlgorithmParameterException</i>	Encryption error.
<i>IllegalBlockSizeException</i>	Encryption error.
<i>BadPaddingException</i>	Encryption error.
<i>TpmUtils.TpmUnsignedConversionException</i>	Error in converting structures to byte arrays (bad data, most likely).
<i>PrivacyCaException</i>	All required prerequisites were not met.

6.154.3.3 void gov.niarl.his.privacyca.TpmAsymCaContents.setDigest (*TpmPubKey aik*) throws *NoSuchAlgorithmException*, *TpmUtils.TpmUnsignedConversionException*

Set the TPM digest. This is required before the *TpmAsymCaContents* structure can be encrypted.

Parameters

<i>aik</i>	The AIK in the form of a <i>TpmPubKeu</i> .
------------	---

Exceptions

<i>NoSuchAlgorithmException</i>	Thrown if the <i>MessageDigest</i> class doesn't know what "SHA-1" means.
<i>TpmUtils.TpmUnsignedConversionException</i>	Thrown if there is a problem converting the AIK to a byte array.

6.154.3.4 void gov.niarl.his.privacyca.TpmAsymCaContents.setDigest (*TpmPubKey aik*) throws *NoSuchAlgorithmException*, *TpmUtils.TpmUnsignedConversionException*

Set the TPM digest. This is required before the *TpmAsymCaContents* structure can be encrypted.

Parameters

<i>aik</i>	The AIK in the form of a <i>TpmPubKeu</i> .
------------	---

Exceptions

<i>NoSuchAlgorithmException</i>	Thrown if the <i>MessageDigest</i> class doesn't know what "SHA-1" means.
<i>TpmUtils.TpmUnsignedConversionException</i>	Thrown if there is a problem converting the AIK to a byte array.

6.154.3.5 void gov.niarl.his.privacyca.TpmAsymCaContents.setSymmetricKey (*TpmSymmetricKey newKey*)

Set the *TpmSymmetricKey* member data.

Parameters

<i>newKey</i>	
---------------	--

6.154.3.6 void gov.niarl.his.privacyca.TpmAsymCaContents.setSymmetricKey ([TpmSymmetricKey newKey](#))

Set the [TpmSymmetricKey](#) member data.

Parameters

newKey	
------------------------	--

6.154.3.7 byte [] gov.niarl.his.privacyca.TpmAsymCaContents.toByteArray () throws **PrivacyCaException**

Get the encrypted [TpmAsymCaContents](#) as a byte array suitable for delivery to the TPM with TPM_ActivateIdentity.

Returns

A byte array form of the [TpmAsymCaContents](#).

Exceptions

PrivacyCaException	Throws if the structure is not ready to be sent back to the TPM.
------------------------------------	--

6.154.3.8 byte [] gov.niarl.his.privacyca.TpmAsymCaContents.toByteArray () throws **PrivacyCaException**

Get the encrypted [TpmAsymCaContents](#) as a byte array suitable for delivery to the TPM with TPM_ActivateIdentity.

Returns

A byte array form of the [TpmAsymCaContents](#).

Exceptions

PrivacyCaException	Throws if the structure is not ready to be sent back to the TPM.
------------------------------------	--

6.154.3.9 byte [] gov.niarl.his.privacyca.TpmAsymCaContents.toPlaintextByteArray () throws **TpmUtils.TpmUnsignedConversionException**, **PrivacyCaException** [private]

Return a byte array of the plaintext structure suitable for encryption. All prerequisites must be met, which are just populating all of the private member variables.

Returns

the plaintext byte array.

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	Thrown if there is a problem in assembling the array.
PrivacyCaException	If the prereqs are not met.

6.154.3.10 `byte [] gov.niarl.his.privacyca.TpmAsymCaContents.toPlaintextByteArray () throws
TpmUtils.TpmUnsignedConversionException, PrivacyCaException [private]`

Return a byte array of the plaintext structure suitable for encryption. All prerequisites must be met, which are just populating all of the private member variables.

Returns

the plaintext byte array.

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	Thrown if there is a problem in assembling the array.
<i>PrivacyCaException</i>	If the prereqs are not met.

6.154.4 Member Data Documentation

6.154.4.1 `byte [] gov.niarl.his.privacyca.TpmAsymCaContents.encrypted = null [private]`

6.154.4.2 `TpmSymmetricKey gov.niarl.his.privacyca.TpmAsymCaContents.symKey = null [private]`

6.154.4.3 `byte [] gov.niarl.his.privacyca.TpmAsymCaContents.tpmDigest = null [private]`

6.155 gov.niarl.his.privacyca.TpmClient Class Reference

Static Public Member Functions

- static void [provisionTpm](#) (byte[] ownerAuth, RSAPrivateKey caPrivKey, X509Certificate caCert, int ecValidDays) throws IOException, TpmModuleException, InvalidKeyException, CertificateEncodingException, NoSuchAlgorithmException, InvalidKeySpecException, SignatureException, NoSuchProviderException

6.155.1 Detailed Description

This class provides macro-level client provisioning functions, such as taking ownership, provisioning the EC, and creating a new identity key. All functions are statically called.

Author

schawki

6.155.2 Member Function Documentation

6.155.2.1 `static void gov.niarl.his.privacyca.TpmClient.provisionTpm (byte[] ownerAuth, RSAPrivateKey caPrivKey, X509Certificate caCert, int ecValidDays) throws IOException, TpmModuleException, InvalidKeyException, CertificateEncodingException, NoSuchAlgorithmException, InvalidKeySpecException, SignatureException, NoSuchProviderException [static]`

This function combines taking ownership and creating an endorsement key (EK) certificate (EC). This function essentially serves as the Certificate Authority for the EC.

Parameters

<i>ownerAuth</i>	20-byte owner auth string, needed to retrieve the EK.
<i>caPrivKey</i>	The RSA private key needed to sign the EC.
<i>caCert</i>	The CA certificate associated with the caPrivKey.
<i>ecValidDays</i>	The number of days before EC expires. This should be about the same time as the expected lifetime/use of the computer holding the TPM.

Exceptions

<i>IOException</i>	Thrown for a number of reasons dealing with communication to the TPM, creation of random numbers, and file access.
<i>TpmModuleException</i>	Thrown if there is a problem communicating to the TPM through the TPM Module.
<i>InvalidKeyException</i>	Error when creating the EC.
<i>CertificateEncodingException</i>	Error when creating the EC.
<i>NoSuchAlgorithmException</i>	Error when creating the EC.
<i>InvalidKeySpecException</i>	Error when creating the EC.
<i>SignatureException</i>	Error when creating the EC.
<i>NoSuchProviderException</i>	Error using the BouncyCastle provider, needed for creation of the certificate.

6.156 gov.niarl.his.privacyca.TpmIdentity Class Reference

Public Member Functions

- [TpmIdentity](#) ()
- [TpmIdentity](#) (byte[] idReq, byte[] aikMod, byte[] aikBlob)
- void [setIdIdentityRequest](#) (byte[] idReq)
- void [setAikModulus](#) (byte[] aikMod)
- void [setAikBlob](#) (byte[] aikBlob)
- byte[] [getIdIdentityRequest](#) ()
- byte[] [getAikModulus](#) ()
- byte[] [getAikBlob](#) ()

Private Attributes

- byte[] [identityRequestBytes](#) = null
- byte[] [aikModulus](#) = null
- byte[] [aikKeyBytes](#) = null

6.156.1 Detailed Description

This class was created to hold all return values for running `collateIdentityRequest`.

Author

schawki

6.156.2 Constructor & Destructor Documentation

6.156.2.1 gov.niarl.his.privacyca.TpmIdentity.TpmIdentity ()

Create a new [TpmIdentity](#) with no data set.

6.156.2.2 `gov.niarl.his.privacyca.TpmIdentity.TpmIdentity (byte[] idReq, byte[] aikMod, byte[] aikBlob)`

Create a new [TpmIdentity](#), setting the Identity Request, AIK modulus, and AIK key blob.

Parameters

<i>idReq</i>	The Identity Request, as returned from <code>CollateIdentityRequest</code> , in raw byte form.
<i>aikMod</i>	The AIK modulus.
<i>aikBlob</i>	The AIK in the form of a <code>TPM_KEY</code> .

6.156.3 Member Function Documentation

6.156.3.1 `byte [] gov.niarl.his.privacyca.TpmIdentity.getAikBlob ()`

Get the store AIK key blob.

Returns

Stored AIK key blob in raw byte form, or null.

6.156.3.2 `byte [] gov.niarl.his.privacyca.TpmIdentity.getAikModulus ()`

Get the stored AIK modulus.

Returns

Stored AIK modulus in raw byte form, or null.

6.156.3.3 `byte [] gov.niarl.his.privacyca.TpmIdentity.getIdentityRequest ()`

Get the stored Identity Request.

Returns

Stored Identity Request in raw bytes, or null

6.156.3.4 `void gov.niarl.his.privacyca.TpmIdentity.setAikBlob (byte[] aikBlob)`

Set the AIK key blob in raw byte form.

Parameters

<i>aikBlob</i>	
----------------	--

6.156.3.5 `void gov.niarl.his.privacyca.TpmIdentity.setAikModulus (byte[] aikMod)`

Set the AIK modulus.

Parameters

<i>aikMod</i>	AIK modulus in byte form.
---------------	---------------------------

6.156.3.6 void gov.niarl.his.privacyca.TpmIdentity.setIdentityRequest (byte[] *idReq*)

Set the Identity Request.

Parameters

<i>idReq</i>	Identity Request in raw byte form.
--------------	------------------------------------

6.156.4 Member Data Documentation

6.156.4.1 byte [] gov.niarl.his.privacyca.TpmIdentity.aikKeyBytes = null [private]

6.156.4.2 byte [] gov.niarl.his.privacyca.TpmIdentity.aikModulus = null [private]

6.156.4.3 byte [] gov.niarl.his.privacyca.TpmIdentity.identityRequestBytes = null [private]

6.157 gov.niarl.his.privacyca.TpmIdentityProof Class Reference

Public Member Functions

- boolean [getIVmode](#) ()
- void [setIVmode](#) (boolean newMode)
- boolean [getSymkeyEncscheme](#) ()
- void [setSymkeyEncscheme](#) (boolean newScheme)
- boolean [getOeapMode](#) ()
- void [getOeapMode](#) (boolean newMode)
- [TpmIdentityProof](#) (byte[] blob, boolean IV, boolean symKey, boolean oaep) throws PrivacyCaException, TpmUtils.TpmUnsignedConversionException, TpmUtils.TpmBytestreamResourceException
- [TpmIdentityProof](#) (byte[] idLabel, byte[] idBinding, [TpmPubKey](#) AIK, byte[] ekCertBytes, byte[] platformCertBytes, byte[] conformanceCertBytes, boolean IV, boolean symKey, boolean oaep)
- byte[] [toByteArray](#) () throws TpmUtils.TpmUnsignedConversionException
- String [toString](#) ()
- boolean [checkValidity](#) (RSAPublicKey caPubKey) throws NoSuchAlgorithmException, TpmUtils.TpmUnsignedConversionException, InvalidKeyException, InvalidKeySpecException, SignatureException
- [TpmPubKey](#) [getAik](#) ()
- byte[] [getVer](#) ()
- byte[] [getIdLabelBytes](#) ()
- byte[] [getIdBindingBytes](#) ()
- byte[] [getEkCredBytes](#) ()
- X509Certificate [getEkCred](#) () throws CertificateException
- byte[] [getPlatformCredBytes](#) ()
- X509Certificate [getPlatformCred](#) () throws CertificateException, java.security.cert.CertificateException, java.security.cert.CertificateEncodingException
- byte[] [getConformCredBytes](#) ()
- X509Certificate [getConformCred](#) () throws CertificateException, java.security.cert.CertificateException, java.security.cert.CertificateEncodingException
- boolean [getIVmode](#) ()
- void [setIVmode](#) (boolean newMode)
- boolean [getSymkeyEncscheme](#) ()
- void [setSymkeyEncscheme](#) (boolean newScheme)
- boolean [getOeapMode](#) ()
- void [getOeapMode](#) (boolean newMode)
- [TpmIdentityProof](#) (byte[] blob, boolean IV, boolean symKey, boolean oaep) throws PrivacyCaException, TpmUtils.TpmUnsignedConversionException, TpmUtils.TpmBytestreamResourceException

- [TpmIdentityProof](#) (byte[] idLabel, byte[] idBinding, [TpmPubKey](#) Aik, byte[] ekCertBytes, byte[] platformCertBytes, byte[] conformanceCertBytes, boolean IV, boolean symKey, boolean oaep)
- byte[] [toByteArray](#) () throws [TpmUtils.TpmUnsignedConversionException](#)
- String [toString](#) ()
- boolean [checkValidity](#) (RSAPublicKey caPubKey) throws [NoSuchAlgorithmException](#), [TpmUtils.TpmUnsignedConversionException](#), [InvalidKeyException](#), [InvalidKeySpecException](#), [SignatureException](#)
- [TpmPubKey](#) [getAik](#) ()
- byte[] [getVer](#) ()
- byte[] [getIdLabelBytes](#) ()
- byte[] [getIdBindingBytes](#) ()
- byte[] [getEkCredBytes](#) ()
- [X509Certificate](#) [getEkCred](#) () throws [CertificateException](#)
- byte[] [getPlatformCredBytes](#) ()
- [X509Certificate](#) [getPlatformCred](#) () throws [CertificateException](#), [java.security.cert.CertificateException](#), [java.security.cert.CertificateEncodingException](#)
- byte[] [getConformCredBytes](#) ()
- [X509Certificate](#) [getConformCred](#) () throws [CertificateException](#), [java.security.cert.CertificateException](#), [java.security.cert.CertificateEncodingException](#)

Private Member Functions

- [X509Certificate](#) [getCertFromBytes](#) (byte[] certBytes) throws [CertificateException](#), [java.security.cert.CertificateException](#), [java.security.cert.CertificateEncodingException](#)
- [X509Certificate](#) [getCertFromBytes](#) (byte[] certBytes) throws [CertificateException](#), [java.security.cert.CertificateException](#), [java.security.cert.CertificateEncodingException](#)

Private Attributes

- byte[] [structVer](#)
- [TpmPubKey](#) [Aik](#)
- byte[] [idLabelBytes](#)
- byte[] [idBindingBytes](#)
- byte[] [ekCredBytes](#)
- byte[] [platformCredBytes](#)
- byte[] [conformCredBytes](#)
- boolean [TrousersModeIV](#) = false
- boolean [TrousersModeSymkeyEncscheme](#) = false
- boolean [TrousersModeBlankOaep](#) = false

6.157.1 Detailed Description

See `TPM_IDENTITY_PROOF`

The [TpmIdentityProof](#) is the plain-text incarnation of a TPM's request for an AIK credential. The data contained in the identity proof is used to verify the integrity of the request, and to construct an AIK credential.

The `TPM_IDENTITY_PROOF` structure, as defined by the TCG, contains the following elements:

- **TPM_STRUCT_VER**, which is a byte array always equal to 0x01010000
- **AIK** in the form of a `TPM_PUBKEY` ([TpmPubKey](#) class)
- **Identity label** The requested name for the identity. This will (probably) be placed in the Subject Alternative Name field in the AIC by the Privacy CA, per specification.

- **Identity binding** This is the signature, made using the private AIK, of a hash made of the TPM_IDENTITY_CONTENTS structure (see note below).
- **Endorsement Certificate** (optional) This really should be a required item, but isn't.
- **Platform Certificate** (optional)
- **Conformance Certificate** (optional)

This class adds additional flags to clarify discrepancies that have been observed among TSS implementations. These flags include:

- **TrousersModeIV** (boolean) Though both NTRU and TrouSerS place the initialization vector for symmetrically encrypted data within, but at the beginning of, the encrypted data blob, the specification states that the IV should be recorded within the TPM_KEY_PARMS structure for the symmetric key. Setting this boolean to TRUE indicates the use of "TrouSerS-style placement."
- **TrousersModeSymkeyEncscheme** (boolean) TrouSerS (but not NTRU) incorrectly sets the symmetric encryption scheme to TPM_ES_NONE. The correct scheme to use is TPM_ES_SYM_CBC_PKCS5PAD. Both NTRU and TrouSerS *use* this scheme for encryption, but TrouSerS records it as otherwise.
- **TrousersModeBlankOeap** (boolean) TrouSerS incorrectly encrypts the asymmetric blob, as it uses a blank OEAP password. The password should be "TCPA".

Developer note: Methods in this class are responsible for working with all aspects of the TPM_IDENTITY_CONTENTS structure. A future version of the TPM support code may include a TpmIdentityContents class, which would greatly simplify the code in this class.

This class can be used by a Privacy CA for parsing an incoming request, but it can also be used by a client for constructing a new request.

Author

schawki

See Also

[TpmIdentityRequest](#)

6.157.2 Constructor & Destructor Documentation

6.157.2.1 `gov.niarl.his.privacyca.TpmIdentityProof.TpmIdentityProof (byte[] blob, boolean IV, boolean symKey, boolean oeap)` throws `PrivacyCaException`, `TpmUtils.TpmUnsignedConversionException`, `TpmUtils.TpmBytestreamResourceException`

Create new [TpmIdentityProof](#) object by parsing the decrypted data from a TPM_IDENTITY_REQ. Information gathered while parsing and decrypting the Identity Request is needed to properly parse the Identity Proof. Also, that information may be useful when crafting the response to the client.

Parameters

<i>blob</i>	The decrypted form of the sym blob from the Identity Request.
<i>IV</i>	Set to TRUE if the IV was placed at the beginning of the symblob of the Identity Request instead of in the key parameters.
<i>symKey</i>	Set to TRUE if the symmetric encryption scheme was set to TPM_ES_NONE in the Identity Request.
<i>oeap</i>	Set to TRUE if the OEAP password was blank.

Exceptions

PrivacyCaException	
TpmUtils.TpmUnsignedConversionException	
TpmUtils.TpmBytestreamResourceException	

6.157.2.2 `gov.niarl.his.privacyca.TpmIdentityProof.TpmIdentityProof (byte[] idLabel, byte[] idBinding, TpmPubKey AIK, byte[] ekCertBytes, byte[] platformCertBytes, byte[] conformanceCertBytes, boolean IV, boolean symKey, boolean oaep)`

Create a new [TpmIdentityProof](#) by supplying all of the necessary elements to construct one from scratch.

Parameters

<i>idLabel</i>	The requested Identity Label. This is usually assigned as the Subject Alternative Name in the AIC. Supply as ASCII string in byte array.
<i>idBinding</i>	The identity binding is supplied from the TPM by running TPM_MakeIdentity (available via TCS, not TSP). Should be 256 byte (signature made using 2048 bit AIK).
<i>AIK</i>	The AIK in TpmPubKey form. This should also be supplied from the TPM using TPM_MakeIdentity.
<i>ekCertBytes</i>	(Optional) Endorsement Certificate (EC), usually as an X.509 certificate, as a byte array. Null is acceptable.
<i>platformCertBytes</i>	(Optional) Platform Certificate, usually as an X.509 certificate, as a byte array. Null is acceptable.
<i>conformanceCertBytes</i>	(Optional) Conformance Certificate, usually as an X.509 certificate, as a byte array. Null is acceptable.
<i>IV</i>	TrouSerS IV placement mode flag. Recommended setting is TRUE.
<i>symKey</i>	TrouSerS symmetric encryption scheme flag. Recommended setting is FALSE.
<i>oaep</i>	TrouSerS use of blank OAEP password flag. Recommended setting is FALSE.

6.157.2.3 `gov.niarl.his.privacyca.TpmIdentityProof.TpmIdentityProof (byte[] blob, boolean IV, boolean symKey, boolean oaep)` throws [PrivacyCaException](#), [TpmUtils.TpmUnsignedConversionException](#), [TpmUtils.TpmBytestreamResourceException](#)

Create new [TpmIdentityProof](#) object by parsing the decrypted data from a TPM_IDENTITY_REQ. Information gathered while parsing and decrypting the Identity Request is needed to properly parse the Identity Proof. Also, that information may be useful when crafting the response to the client.

Parameters

<i>blob</i>	The decrypted form of the sym blob from the Identity Request.
<i>IV</i>	Set to TRUE if the IV was placed at the beginning of the symblob of the Identity Request instead of in the key parameters.
<i>symKey</i>	Set to TRUE if the symmetric encryption scheme was set to TPM_ES_NONE in the Identity Request.
<i>oaep</i>	Set to TRUE if the OAEP password was blank.

Exceptions

PrivacyCaException	
TpmUtils.TpmUnsignedConversionException	
TpmUtils.TpmBytestreamResourceException	

6.157.2.4 `gov.niarl.his.privacyca.TpmIdentityProof.TpmIdentityProof (byte[] idLabel, byte[] idBinding, TpmPubKey AIK, byte[] ekCertBytes, byte[] platformCertBytes, byte[] conformanceCertBytes, boolean IV, boolean symKey, boolean oaep)`

Create a new [TpmIdentityProof](#) by supplying all of the necessary elements to construct one from scratch.

Parameters

<i>idLabel</i>	The requested Identity Label. This is usually assigned as the Subject Alternative Name in the AIC. Supply as ASCII string in byte array.
<i>idBinding</i>	The identity binding is supplied from the TPM by running TPM_MakeIdentity (available via TCS, not TSP). Should be 256 byte (signature made using 2048 bit AIK).
<i>AIK</i>	The AIK in TpmPubKey form. This should also be supplied from the TPM using TPM_MakeIdentity.
<i>ekCertBytes</i>	(Optional) Endorsement Certificate (EC), usually as an X.509 certificate, as a byte array. Null is acceptable.
<i>platformCert-Bytes</i>	(Optional) Platform Certificate, usually as an X.509 certificate, as a byte array. Null is acceptable.
<i>conformance-CertBytes</i>	(Optional) Conformance Certificate, usually as an X.509 certificate, as a byte array. Null is acceptable.
<i>IV</i>	TrouSerS IV placement mode flag. Recommended setting is TRUE.
<i>symKey</i>	TrouSerS symmetric encryption scheme flag. Recommended setting is FALSE.
<i>oaep</i>	TrouSerS use of blank OAEP password flag. Recommended setting is FALSE.

6.157.3 Member Function Documentation

6.157.3.1 `boolean gov.niarl.his.privacyca.TpmIdentityProof.checkValidity (RSAPublicKey caPubKey)` throws `NoSuchAlgorithmException`, `TpmUtils.TpmUnsignedConversionException`, `InvalidKeyException`, `InvalidKeySpecException`, `SignatureException`

Use the identity binding (the signature value of the TPM_IDENTITY_CONTENTS structure) to determine the validity of the request.

The TPM_IDENTITY_CONTENTS structure contains the public AIK and a hash of the idLabel and the Privacy CA's public key.

Parameters

<i>caPubKey</i>	The Privacy CA's public key.
-----------------	------------------------------

Returns

True if the identity binding checks out, **false** if it does not.

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>TpmUtils.TpmUnsigned-ConversionException</i>	
<i>InvalidKeyException</i>	
<i>InvalidKeySpecException</i>	
<i>SignatureException</i>	

6.157.3.2 **boolean** gov.niarl.his.privacyca.TpmIdentityProof.checkValidity (**RSAPublicKey** *caPubKey*) throws **NoSuchAlgorithmException**, **TpmUtils.TpmUnsignedConversionException**, **InvalidKeyException**, **InvalidKeySpecException**, **SignatureException**

Use the identity binding (the signature value of the TPM_IDENTITY_CONTENTS structure) to determine the validity of the request.

The TPM_IDENTITY_CONTENTS structure contains the public AIK and a hash of the idLabel and the Privacy CA's public key.

Parameters

<i>caPubKey</i>	The Privacy CA's public key.
-----------------	------------------------------

Returns

True if the identity binding checks out, **false** if it does not.

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>InvalidKeyException</i>	
<i>InvalidKeySpecException</i>	
<i>SignatureException</i>	

6.157.3.3 **TpmPubKey** gov.niarl.his.privacyca.TpmIdentityProof.getAik ()

Get the AIK stored in the request.

Returns

The AIK as a [TpmPubKey](#).

6.157.3.4 **TpmPubKey** gov.niarl.his.privacyca.TpmIdentityProof.getAik ()

Get the AIK stored in the request.

Returns

The AIK as a [TpmPubKey](#).

6.157.3.5 **X509Certificate** gov.niarl.his.privacyca.TpmIdentityProof.getCertFromBytes (**byte[]** *certBytes*) throws **CertificateException**, **java.security.cert.CertificateException**, **java.security.cert.CertificateEncodingException** [*private*]

Convert from a byte array to a Java X509 Certificate. By default, all of the Privacy CA functions use javax.security.cert.X509Certificate. The conversion process requires the creation of a java.security.cert.X509Certificate. Although these two are identical in structure, their member functions are different, and are seen by Java as different. This function performs the conversion process between the two.

Parameters

<i>certBytes</i>	The byte array to convert.
------------------	----------------------------

Returns

A javax.security.cert.X509Certificate.

Exceptions

<i>CertificateException</i>	
<i>java.security.cert.CertificateException</i>	
<i>java.security.cert.CertificateEncodingException</i>	

6.157.3.6 X509Certificate gov.niarl.his.privacyca.TpmlIdentityProof.getCertFromBytes (byte[] *certBytes*) throws CertificateException, java.security.cert.CertificateException, java.security.cert.CertificateEncodingException
[private]

Convert from a byte array to a Java X509 Certificate. By default, all of the Privacy CA functions use javax.security.cert.X509Certificate. The conversion process requires the creation of a java.security.cert.X509Certificate. Although these two are identical in structure, their member functions are different, and are seen by Java as different. This function performs the conversion process between the two.

Parameters

<i>certBytes</i>	The byte array to convert.
------------------	----------------------------

Returns

A javax.security.cert.X509Certificate.

Exceptions

<i>CertificateException</i>	
<i>java.security.cert.CertificateException</i>	
<i>java.security.cert.CertificateEncodingException</i>	

6.157.3.7 X509Certificate gov.niarl.his.privacyca.TpmlIdentityProof.getConformCred () throws CertificateException, java.security.cert.CertificateException, java.security.cert.CertificateEncodingException

CC stored in the Identity Proof, if present, in the form of an X509Certificate object.

Returns

The Conformance Credential as a Java X509Certificate. If not present, will throw exception.

Exceptions

<i>CertificateException</i>	
<i>java.security.cert.CertificateException</i>	
<i>java.security.cert.CertificateEncodingException</i>	

6.157.3.8 **X509Certificate** gov.niarl.his.privacyca.TpmlIdentityProof.getConformCred () throws **CertificateException**, **java.security.cert.CertificateException**, **java.security.cert.CertificateEncodingException**

CC stored in the Identity Proof, if present, in the form of an X509Certificate object.

Returns

The Conformance Credential as a Java X509Certificate. If not present, will throw exception.

Exceptions

<i>CertificateException</i>	
<i>java.security.cert.CertificateException</i>	
<i>java.security.cert.CertificateEncodingException</i>	

6.157.3.9 **byte []** gov.niarl.his.privacyca.TpmlIdentityProof.getConformCredBytes ()

CC stored in the Identity Proof, if present, in the form of raw bytes.

Returns

The Conformance Credential as a byte array. May be **null**.

6.157.3.10 **byte []** gov.niarl.his.privacyca.TpmlIdentityProof.getConformCredBytes ()

CC stored in the Identity Proof, if present, in the form of raw bytes.

Returns

The Conformance Credential as a byte array. May be **null**.

6.157.3.11 **X509Certificate** gov.niarl.his.privacyca.TpmlIdentityProof.getEkCred () throws **CertificateException**

EC stored in the Identity Proof, if present, in the form of an X509Certificate object.

Returns

The EK certificate as a java X509Certificate.

Exceptions

<i>CertificateException</i>	
-----------------------------	--

6.157.3.12 **X509Certificate** gov.niarl.his.privacyca.TpmlIdentityProof.getEkCred () throws **CertificateException**

EC stored in the Identity Proof, if present, in the form of an X509Certificate object.

Returns

The EK certificate as a java X509Certificate.

Exceptions

<i>CertificateException</i>	
-----------------------------	--

6.157.3.13 `byte [] gov.niarl.his.privacyca.TpmlIdentityProof.getEkCredBytes ()`

EC stored in the Identity Proof, if present, in the form of raw bytes.

Returns

The X509 Endorsement Key Certificate as a byte array. This must be present to complete the Privacy CA process.

6.157.3.14 `byte [] gov.niarl.his.privacyca.TpmlIdentityProof.getEkCredBytes ()`

EC stored in the Identity Proof, if present, in the form of raw bytes.

Returns

The X509 Endorsement Key Certificate as a byte array. This must be present to complete the Privacy CA process.

6.157.3.15 `byte [] gov.niarl.his.privacyca.TpmlIdentityProof.getIdBindingBytes ()`

Return the Identity Binding. It should be the signature of the Identity Contents made using the AIK. Should always be 256 bytes.

Returns

The identity binding, as extracted directly from the identity proof.

6.157.3.16 `byte [] gov.niarl.his.privacyca.TpmlIdentityProof.getIdBindingBytes ()`

Return the Identity Binding. It should be the signature of the Identity Contents made using the AIK. Should always be 256 bytes.

Returns

The identity binding, as extracted directly from the identity proof.

6.157.3.17 `byte [] gov.niarl.his.privacyca.TpmlIdentityProof.getIdLableBytes ()`

Get the Identity Label string (in ASCII byte array) as stored in the Identity Proof.

Returns

The identity label as a byte string (ASCII).

6.157.3.18 `byte [] gov.niarl.his.privacyca.TpmlIdentityProof.getIdLableBytes ()`

Get the Identity Label string (in ASCII byte array) as stored in the Identity Proof.

Returns

The identity label as a byte string (ASCII).

6.157.3.19 `boolean gov.niarl.his.privacyca.TpmIdentityProof.getIVmode ()`

Get the TrousersModelIV status. A value of TRUE indicates that the IV placement is inside, and at the beginning of, the symmetrically encrypted blob and not in the symmetric key parameters. This will almost always be set at TRUE.

Returns

The status of the flag.

6.157.3.20 `boolean gov.niarl.his.privacyca.TpmIdentityProof.getIVmode ()`

Get the TrousersModelIV status. A value of TRUE indicates that the IV placement is inside, and at the beginning of, the symmetrically encrypted blob and not in the symmetric key parameters. This will almost always be set at TRUE.

Returns

The status of the flag.

6.157.3.21 `boolean gov.niarl.his.privacyca.TpmIdentityProof.getOeapMode ()`

Get the TrousersModeBlankOeap flag. A value of TRUE indicates that the identity proof was constructed by TrouSerS, and is not compliant with the specification.

Returns

The status of the flag.

6.157.3.22 `boolean gov.niarl.his.privacyca.TpmIdentityProof.getOeapMode ()`

Get the TrousersModeBlankOeap flag. A value of TRUE indicates that the identity proof was constructed by TrouSerS, and is not compliant with the specification.

Returns

The status of the flag.

6.157.3.23 `void gov.niarl.his.privacyca.TpmIdentityProof.setOeapMode (boolean newMode)`

Set the TrousersModeBlankOeap flag. A value of TRUE indicates that the identity proof was constructed by TrouSerS, and is not compliant with the specification.

Parameters

<i>newMode</i>	Set to TRUE to emulate an identity proof constructed by TrouSerS; set to FALSE to comply with the specification.
----------------	--

6.157.3.24 `void gov.niarl.his.privacyca.TpmIdentityProof.setOeapMode (boolean newMode)`

Set the TrousersModeBlankOeap flag. A value of TRUE indicates that the identity proof was constructed by TrouSerS, and is not compliant with the specification.

Parameters

<i>newMode</i>	Set to TRUE to emulate an identity proof constructed by TrouSerS; set to FALSE to comply with the specification.
----------------	--

6.157.3.25 X509Certificate gov.niarl.his.privacyca.TpmlIdentityProof.getPlatformCred () throws CertificateException, java.security.cert.CertificateException, java.security.cert.CertificateEncodingException

PC stored in the Identity Proof, if present, in the form of an X509Certificate object.

Returns

The Platform Certificate as a Java X509Certificate. If not present, will throw exception.

Exceptions

<i>CertificateException</i>	
<i>java.security.cert.CertificateException</i>	
<i>java.security.cert.CertificateEncodingException</i>	

6.157.3.26 X509Certificate gov.niarl.his.privacyca.TpmlIdentityProof.getPlatformCred () throws CertificateException, java.security.cert.CertificateException, java.security.cert.CertificateEncodingException

PC stored in the Identity Proof, if present, in the form of an X509Certificate object.

Returns

The Platform Certificate as a Java X509Certificate. If not present, will throw exception.

Exceptions

<i>CertificateException</i>	
<i>java.security.cert.CertificateException</i>	
<i>java.security.cert.CertificateEncodingException</i>	

6.157.3.27 byte [] gov.niarl.his.privacyca.TpmlIdentityProof.getPlatformCredBytes ()

PC stored in the Identity Proof, if present, in the form of raw bytes.

Returns

The Platform Certificate as a byte array. May be **null**.

6.157.3.28 byte [] gov.niarl.his.privacyca.TpmlIdentityProof.getPlatformCredBytes ()

PC stored in the Identity Proof, if present, in the form of raw bytes.

Returns

The Platform Certificate as a byte array. May be **null**.

6.157.3.29 `boolean gov.niarl.his.privacyca.TpmIdentityProof.getSymkeyEncscheme ()`

Get the TrousersModeSymkeyEncscheme status. A value of TRUE indicates that the identity proof was constructed by TrouSerS, and is not compliant with the specification.

Returns

The status of the flag.

6.157.3.30 `boolean gov.niarl.his.privacyca.TpmIdentityProof.getSymkeyEncscheme ()`

Get the TrousersModeSymkeyEncscheme status. A value of TRUE indicates that the identity proof was constructed by TrouSerS, and is not compliant with the specification.

Returns

The status of the flag.

6.157.3.31 `byte [] gov.niarl.his.privacyca.TpmIdentityProof.getVer ()`

Get the TPM_STRUCTURE_VER. Should always be 0x01010000.

Returns

The four-byte TpmStructVer.

6.157.3.32 `byte [] gov.niarl.his.privacyca.TpmIdentityProof.getVer ()`

Get the TPM_STRUCTURE_VER. Should always be 0x01010000.

Returns

The four-byte TpmStructVer.

6.157.3.33 `void gov.niarl.his.privacyca.TpmIdentityProof.setIVmode (boolean newMode)`

Set the TrousersModelV status. A value of TRUE indicates that the IV placement is inside, and at the beginning of, the symmetrically encrypted blob and not in the symmetric key parameters. This will almost always be set at TRUE.

Parameters

<i>newMode</i>	Set to TRUE for greatest compatibility; set to FALSE for compliance to specification.
----------------	---

6.157.3.34 `void gov.niarl.his.privacyca.TpmIdentityProof.setIVmode (boolean newMode)`

Set the TrousersModelV status. A value of TRUE indicates that the IV placement is inside, and at the beginning of, the symmetrically encrypted blob and not in the symmetric key parameters. This will almost always be set at TRUE.

Parameters

<i>newMode</i>	Set to TRUE for greatest compatibility; set to FALSE for compliance to specification.
----------------	---

6.157.3.35 void gov.niarl.his.privacyca.TpmIdentityProof.setSymkeyEncscheme (boolean *newScheme*)

Set the TrousersModeSymkeyEncscheme flag. This *should* always be set to FALSE.

Parameters

<i>newScheme</i>	Set to TRUE to emulate an identity proof created by TrouSerS; set to FALSE to comply with the specification.
------------------	--

6.157.3.36 void gov.niarl.his.privacyca.TpmIdentityProof.setSymkeyEncscheme (boolean *newScheme*)

Set the TrousersModeSymkeyEncscheme flag. This *should* always be set to FALSE.

Parameters

<i>newScheme</i>	Set to TRUE to emulate an identity proof created by TrouSerS; set to FALSE to comply with the specification.
------------------	--

6.157.3.37 byte [] gov.niarl.his.privacyca.TpmIdentityProof.toByteArray () throws TpmUtils.TpmUnsignedConversionException

Get the Identity Proof in the form of a byte array.

Returns

Entire Identity Proof in the form of a byte array.

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	Thrown if there are any out-of-bounds problems converting from (signed) Java long to UINT32.
--	--

6.157.3.38 byte [] gov.niarl.his.privacyca.TpmIdentityProof.toByteArray () throws TpmUtils.TpmUnsignedConversionException

Get the Identity Proof in the form of a byte array.

Returns

Entire Identity Proof in the form of a byte array.

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	Thrown if there are any out-of-bounds problems converting from (signed) Java long to UINT32.
--	--

6.157.3.39 String gov.niarl.his.privacyca.TpmIdentityProof.toString ()

Display the parsed contents of the request in a form suitable for display on console or in log file. This is intended to be used when troubleshooting.

Returns

Multi-line human readable breakdown of identity proof contents

6.157.3.40 String gov.niarl.his.privacyca.TpmIdentityProof.toString ()

Display the parsed contents of the request in a form suitable for display on console or in log file. This is intended to be used when troubleshooting.

Returns

Multi-line human readable breakdown of identity proof contents

6.157.4 Member Data Documentation

6.157.4.1 **TpmPubKey** gov.niarl.his.privacyca.TpmIdentityProof.Aik [private]

6.157.4.2 **byte []** gov.niarl.his.privacyca.TpmIdentityProof.conformCredBytes [private]

6.157.4.3 **byte []** gov.niarl.his.privacyca.TpmIdentityProof.ekCredBytes [private]

6.157.4.4 **byte []** gov.niarl.his.privacyca.TpmIdentityProof.idBindingBytes [private]

6.157.4.5 **byte []** gov.niarl.his.privacyca.TpmIdentityProof.idLabelBytes [private]

6.157.4.6 **byte []** gov.niarl.his.privacyca.TpmIdentityProof.platformCredBytes [private]

6.157.4.7 **byte []** gov.niarl.his.privacyca.TpmIdentityProof.structVer [private]

6.157.4.8 **boolean** gov.niarl.his.privacyca.TpmIdentityProof.TrousersModeBlankOeap = false [private]

6.157.4.9 **boolean** gov.niarl.his.privacyca.TpmIdentityProof.TrousersModeIV = false [private]

6.157.4.10 **boolean** gov.niarl.his.privacyca.TpmIdentityProof.TrousersModeSymkeyEncscheme = false [private]

6.158 gov.niarl.his.privacyca.TpmIdentityRequest Class Reference

Public Member Functions

- **byte[]** [getAsymBlob](#) ()
- **byte[]** [getSymBlob](#) ()
- **boolean** [getIVmode](#) ()
- **void** [setIVmode](#) (boolean newMode)
- **boolean** [getSymkeyEncscheme](#) ()
- **void** [setSymkeyEncscheme](#) (boolean newScheme)
- **boolean** [getOeapMode](#) ()
- **void** [getOeapMode](#) (boolean newMode)
- **TpmIdentityRequest** (byte[] blob) throws TpmUtils.TpmUnsignedConversionException, TpmUtils.Tpm-BytestreamResourceException, PrivacyCaException
- **TpmIdentityRequest** (TpmIdentityProof newIdProof, RSAPublicKey caKey) throws IOException, IllegalBlock-SizeException, BadPaddingException, InvalidKeyException, InvalidAlgorithmParameterException, NoSuch-AlgorithmException, NoSuchPaddingException, TpmUtils.TpmUnsignedConversionException
- **TpmIdentityRequest** (TpmIdentityProof newIdProof, RSAPublicKey caKey, byte[] key, byte[] iv) throws Illegal-Block-SizeException, BadPaddingException, InvalidKeyException, InvalidAlgorithmParameterException, No-SuchAlgorithmException, NoSuchPaddingException, TpmUtils.TpmUnsignedConversionException
- **TpmIdentityRequest** (TpmIdentityProof newIdProof, RSAPublicKey caKey, **TpmKeyParams** newAsym-Algorithm, **TpmKeyParams** newSymAlgorithm) throws IOException, IllegalBlock-SizeException, BadPadding-Exception, InvalidKeyException, InvalidAlgorithmParameterException, NoSuchAlgorithmException, NoSuch-PaddingException, TpmUtils.TpmUnsignedConversionException

- [TpmIdentityRequest](#) ([TpmIdentityProof](#) newIdProof, [RSAPublicKey](#) caKey, [TpmKeyParams](#) newAsymAlgorithm, [TpmKeyParams](#) newSymAlgorithm, byte[] key) throws [IllegalBlockSizeException](#), [BadPaddingException](#), [InvalidKeyException](#), [InvalidAlgorithmParameterException](#), [NoSuchAlgorithmException](#), [NoSuchPaddingException](#), [TpmUtils.TpmUnsignedConversionException](#)
- [TpmIdentityRequest](#) (byte[] newIdProof, [RSAPublicKey](#) caKey, boolean TrouSerS) throws [IllegalBlockSizeException](#), [BadPaddingException](#), [InvalidKeyException](#), [InvalidAlgorithmParameterException](#), [NoSuchAlgorithmException](#), [NoSuchPaddingException](#), [TpmUtils.TpmUnsignedConversionException](#), [IOException](#)
- byte[] [toByteArray](#) () throws [TpmUtils.TpmUnsignedConversionException](#)
- [TpmKeyParams](#) [getAsymKeyParams](#) ()
- [TpmKeyParams](#) [getSymKeyParams](#) ()
- String [toString](#) ()
- [TpmIdentityProof](#) [decrypt](#) ([RSAPrivateKey](#) privCaKey) throws [InvalidKeyException](#), [IllegalBlockSizeException](#), [InvalidAlgorithmParameterException](#), [TpmUtils.TpmUnsignedConversionException](#), [NoSuchAlgorithmException](#), [BadPaddingException](#), [NoSuchPaddingException](#), [PrivacyCaException](#), [TpmUtils.Tpm-BytestreamResourceException](#)
- byte[] [decryptRaw](#) ([RSAPrivateKey](#) privCaKey) throws [InvalidKeyException](#), [IllegalBlockSizeException](#), [InvalidAlgorithmParameterException](#), [TpmUtils.TpmUnsignedConversionException](#), [NoSuchAlgorithmException](#), [BadPaddingException](#), [NoSuchPaddingException](#), [PrivacyCaException](#), [TpmUtils.Tpm-BytestreamResourceException](#)
- byte[] [getAsymBlob](#) ()
- byte[] [getSymBlob](#) ()
- boolean [getIVmode](#) ()
- void [setIVmode](#) (boolean newMode)
- boolean [getSymkeyEncscheme](#) ()
- void [setSymkeyEncscheme](#) (boolean newScheme)
- boolean [getOeapMode](#) ()
- void [getOeapMode](#) (boolean newMode)
- [TpmIdentityRequest](#) (byte[] blob) throws [TpmUtils.TpmUnsignedConversionException](#), [TpmUtils.Tpm-BytestreamResourceException](#), [PrivacyCaException](#)
- [TpmIdentityRequest](#) ([TpmIdentityProof](#) newIdProof, [RSAPublicKey](#) caKey) throws [IOException](#), [IllegalBlockSizeException](#), [BadPaddingException](#), [InvalidKeyException](#), [InvalidAlgorithmParameterException](#), [NoSuchAlgorithmException](#), [NoSuchPaddingException](#), [TpmUtils.TpmUnsignedConversionException](#)
- [TpmIdentityRequest](#) ([TpmIdentityProof](#) newIdProof, [RSAPublicKey](#) caKey, byte[] key, byte[] iv) throws [IllegalBlockSizeException](#), [BadPaddingException](#), [InvalidKeyException](#), [InvalidAlgorithmParameterException](#), [NoSuchAlgorithmException](#), [NoSuchPaddingException](#), [TpmUtils.TpmUnsignedConversionException](#)
- [TpmIdentityRequest](#) ([TpmIdentityProof](#) newIdProof, [RSAPublicKey](#) caKey, [TpmKeyParams](#) newAsymAlgorithm, [TpmKeyParams](#) newSymAlgorithm) throws [IOException](#), [IllegalBlockSizeException](#), [BadPaddingException](#), [InvalidKeyException](#), [InvalidAlgorithmParameterException](#), [NoSuchAlgorithmException](#), [NoSuchPaddingException](#), [TpmUtils.TpmUnsignedConversionException](#)
- [TpmIdentityRequest](#) ([TpmIdentityProof](#) newIdProof, [RSAPublicKey](#) caKey, [TpmKeyParams](#) newAsymAlgorithm, [TpmKeyParams](#) newSymAlgorithm, byte[] key) throws [IllegalBlockSizeException](#), [BadPaddingException](#), [InvalidKeyException](#), [InvalidAlgorithmParameterException](#), [NoSuchAlgorithmException](#), [NoSuchPaddingException](#), [TpmUtils.TpmUnsignedConversionException](#)
- [TpmIdentityRequest](#) (byte[] newIdProof, [RSAPublicKey](#) caKey, boolean TrouSerS) throws [IllegalBlockSizeException](#), [BadPaddingException](#), [InvalidKeyException](#), [InvalidAlgorithmParameterException](#), [NoSuchAlgorithmException](#), [NoSuchPaddingException](#), [TpmUtils.TpmUnsignedConversionException](#), [IOException](#)
- byte[] [toByteArray](#) () throws [TpmUtils.TpmUnsignedConversionException](#)
- [TpmKeyParams](#) [getAsymKeyParams](#) ()
- [TpmKeyParams](#) [getSymKeyParams](#) ()
- String [toString](#) ()
- [TpmIdentityProof](#) [decrypt](#) ([RSAPrivateKey](#) privCaKey) throws [InvalidKeyException](#), [IllegalBlockSizeException](#), [InvalidAlgorithmParameterException](#), [TpmUtils.TpmUnsignedConversionException](#), [NoSuchAlgorithmException](#), [BadPaddingException](#), [NoSuchPaddingException](#), [PrivacyCaException](#), [TpmUtils.Tpm-BytestreamResourceException](#)
- byte[] [decryptRaw](#) ([RSAPrivateKey](#) privCaKey) throws [InvalidKeyException](#), [IllegalBlockSizeException](#), [InvalidAlgorithmParameterException](#), [TpmUtils.TpmUnsignedConversionException](#), [NoSuchAlgorithmException](#), [BadPaddingException](#), [NoSuchPaddingException](#), [PrivacyCaException](#), [TpmUtils.Tpm-BytestreamResourceException](#)

Private Member Functions

- [TpmSymmetricKey encryptSym](#) (byte[] proof, byte[] key, byte[] iv) throws NoSuchPaddingException, NoSuchAlgorithmException, InvalidAlgorithmParameterException, InvalidKeyException, BadPaddingException, IllegalBlockSizeException
- void [encryptAsym](#) ([TpmSymmetricKey](#) symKey, RSAPublicKey caKey) throws NoSuchPaddingException, NoSuchAlgorithmException, InvalidAlgorithmParameterException, InvalidKeyException, TpmUtils.TpmUnsignedConversionException, BadPaddingException, IllegalBlockSizeException
- [TpmSymmetricKey decryptAsym](#) (RSAPrivateKey privCaKey) throws NoSuchPaddingException, InvalidKeyException, BadPaddingException, TpmUtils.TpmUnsignedConversionException, NoSuchAlgorithmException, IllegalBlockSizeException, InvalidAlgorithmParameterException, TpmUtils.TpmBytestreamResourceException, PrivacyCaException
- [TpmIdentityProof decryptSym](#) ([TpmSymmetricKey](#) symKey) throws NoSuchAlgorithmException, NoSuchPaddingException, InvalidAlgorithmParameterException, TpmUtils.TpmUnsignedConversionException, - InvalidKeyException, BadPaddingException, IllegalBlockSizeException, PrivacyCaException, TpmUtils.TpmBytestreamResourceException
- byte[] [decryptSymRaw](#) ([TpmSymmetricKey](#) symKey) throws NoSuchAlgorithmException, NoSuchPaddingException, InvalidAlgorithmParameterException, TpmUtils.TpmUnsignedConversionException, InvalidKeyException, BadPaddingException, IllegalBlockSizeException, PrivacyCaException, TpmUtils.TpmBytestreamResourceException
- void [findlv](#) () throws PrivacyCaException
- [TpmSymmetricKey encryptSym](#) (byte[] proof, byte[] key, byte[] iv) throws NoSuchPaddingException, NoSuchAlgorithmException, InvalidAlgorithmParameterException, InvalidKeyException, BadPaddingException, IllegalBlockSizeException
- void [encryptAsym](#) ([TpmSymmetricKey](#) symKey, RSAPublicKey caKey) throws NoSuchPaddingException, NoSuchAlgorithmException, InvalidAlgorithmParameterException, InvalidKeyException, TpmUtils.TpmUnsignedConversionException, BadPaddingException, IllegalBlockSizeException
- [TpmSymmetricKey decryptAsym](#) (RSAPrivateKey privCaKey) throws NoSuchPaddingException, InvalidKeyException, BadPaddingException, TpmUtils.TpmUnsignedConversionException, NoSuchAlgorithmException, IllegalBlockSizeException, InvalidAlgorithmParameterException, TpmUtils.TpmBytestreamResourceException, PrivacyCaException
- [TpmIdentityProof decryptSym](#) ([TpmSymmetricKey](#) symKey) throws NoSuchAlgorithmException, NoSuchPaddingException, InvalidAlgorithmParameterException, TpmUtils.TpmUnsignedConversionException, - InvalidKeyException, BadPaddingException, IllegalBlockSizeException, PrivacyCaException, TpmUtils.TpmBytestreamResourceException
- byte[] [decryptSymRaw](#) ([TpmSymmetricKey](#) symKey) throws NoSuchAlgorithmException, NoSuchPaddingException, InvalidAlgorithmParameterException, TpmUtils.TpmUnsignedConversionException, InvalidKeyException, BadPaddingException, IllegalBlockSizeException, PrivacyCaException, TpmUtils.TpmBytestreamResourceException
- void [findlv](#) () throws PrivacyCaException

Static Private Member Functions

- static [TpmKeyParams createDefaultAsymAlgorithm](#) ()
- static [TpmKeyParams createDefaultSymAlgorithm](#) (byte[] iv)
- static [TpmKeyParams createDefaultAsymAlgorithm](#) ()
- static [TpmKeyParams createDefaultSymAlgorithm](#) (byte[] iv)

Private Attributes

- byte[] [asymBlob](#)
- byte[] [symBlob](#)
- [TpmKeyParams](#) [asymAlgorithm](#)
- [TpmKeyParams](#) [symAlgorithm](#)
- boolean [TrousersModeIV](#) = false
- boolean [TrousersModeSymkeyEncscheme](#) = false
- boolean [TrousersModeBlankOeap](#) = false

6.158.1 Detailed Description

The [TpmIdentityRequest](#) class is based on the TPM_IDENTITY_REQUEST structure and includes associated methods. An identity request is generally created by running the TSS function **Tspi_TPM_CollateIdentityRequest**. The request contains two parts: a symmetrically encrypted identity proof (TPM_IDENTITY_PROOF); and an asymmetrically encrypted portion containing the key used to encrypt the symmetric portion. This class contains functionality to decode and decrypt the identity request and return an identity proof. There is also functionality to create a new request, given an identity proof and the key needed to encrypt it.

Different implementations of the TSS create slightly different formats of identity requests. The two version of TSS researched in the development of this class were NTru's CTSS v1.2.1.29 and IBM's TrouSerS v

Author

schawki

6.158.2 Constructor & Destructor Documentation

6.158.2.1 `gov.niarl.his.privacyca.TpmIdentityRequest.TpmIdentityRequest (byte[] blob)` throws `TpmUtils.TpmUnsignedConversionException`, `TpmUtils.TpmBytestreamResouceException`, `PrivacyCaException`

Create a new [TpmIdentityRequest](#) object by initializing with a byte blob from the output of `Tspi_TPM_CollateIdentityRequest`.

Parameters

<i>blob</i>	The byte blob form of the identity request.
-------------	---

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>TpmUtils.TpmBytestreamResouceException</i>	
PrivacyCaException	

6.158.2.2 `gov.niarl.his.privacyca.TpmIdentityRequest.TpmIdentityRequest (TpmIdentityProof newIdProof, RSAPublicKey caKey)` throws `IOException`, `IllegalBlockSizeException`, `BadPaddingException`, `InvalidKeyException`, `InvalidAlgorithmParameterException`, `NoSuchAlgorithmException`, `NoSuchPaddingException`, `TpmUtils.TpmUnsignedConversionException`

Create a new [TpmIdentityRequest](#) by supplying a [TpmIdentityProof](#) and the Privacy CA's public key. A symmetric key and IV will be randomly created.

Parameters

<i>newIdProof</i>	A TpmIdentityProof object
<i>caKey</i>	The Privacy CA's private key

Exceptions

<i>IOException</i>	
<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	
<i>InvalidKeyException</i>	
<i>InvalidAlgorithmParameterException</i>	

<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>TpmUtils.TpmUnsignedConversionException</i>	

6.158.2.3 gov.niarl.his.privacyca.TpmIdentityRequest.TpmIdentityRequest ([TpmIdentityProof](#) *newIdProof*, [RSAPublicKey](#) *caKey*, [byte\[\]](#) *key*, [byte\[\]](#) *iv*) throws [IllegalBlockSizeException](#), [BadPaddingException](#), [InvalidKeyException](#), [InvalidAlgorithmParameterException](#), [NoSuchAlgorithmException](#), [NoSuchPaddingException](#), [TpmUtils.TpmUnsignedConversionException](#)

Create a new [TpmIdentityRequest](#) by supplying a [TpmIdentityProof](#), the Privacy CA's public key, a symmetric key, and an IV.

Parameters

<i>newIdProof</i>	A TpmIdentityProof object
<i>caKey</i>	The Privacy CA's private key
<i>key</i>	Symmetric key to use for encrypting the request (will itself be encrypted using the Privacy CA public key)
<i>iv</i>	Initialization Vector to be used for symmetric encryption

Exceptions

<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	
<i>InvalidKeyException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>TpmUtils.TpmUnsignedConversionException</i>	

6.158.2.4 gov.niarl.his.privacyca.TpmIdentityRequest.TpmIdentityRequest ([TpmIdentityProof](#) *newIdProof*, [RSAPublicKey](#) *caKey*, [TpmKeyParams](#) *newAsymAlgorithm*, [TpmKeyParams](#) *newSymAlgorithm*) throws [IOException](#), [IllegalBlockSizeException](#), [BadPaddingException](#), [InvalidKeyException](#), [InvalidAlgorithmParameterException](#), [NoSuchAlgorithmException](#), [NoSuchPaddingException](#), [TpmUtils.TpmUnsignedConversionException](#)

Create a new [TpmIdentityRequest](#) by supplying a [TpmIdentityProof](#), the Privacy CA's public key, a symmetric key, and an IV.

Parameters

<i>newIdProof</i>	A TpmIdentityProof object
<i>caKey</i>	The Privacy CA's private key
<i>newAsymAlgorithm</i>	Asymmetric encryption information in the form of a TpmKeyParams object
<i>newSymAlgorithm</i>	Symmetric encryption information in the form of a TpmKeyParams object

Exceptions

<i>IOException</i>	
<i>IllegalBlockSizeException</i>	

<i>BadPaddingException</i>	
<i>InvalidKeyException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>TpmUtils.TpmUnsignedConversionException</i>	

6.158.2.5 gov.niarl.his.privacyca.TpmIdentityRequest.TpmIdentityRequest (*TpmIdentityProof newIdProof*, *RSAPublicKey caKey*, *TpmKeyParams newAsymAlgorithm*, *TpmKeyParams newSymAlgorithm*, *byte[] key*) throws *IllegalBlockSizeException*, *BadPaddingException*, *InvalidKeyException*, *InvalidAlgorithmParameterException*, *NoSuchAlgorithmException*, *NoSuchPaddingException*, *TpmUtils.TpmUnsignedConversionException*

6.158.2.6 gov.niarl.his.privacyca.TpmIdentityRequest.TpmIdentityRequest (*byte[] newIdProof*, *RSAPublicKey caKey*, *boolean TrouSerS*) throws *IllegalBlockSizeException*, *BadPaddingException*, *InvalidKeyException*, *InvalidAlgorithmParameterException*, *NoSuchAlgorithmException*, *NoSuchPaddingException*, *TpmUtils.TpmUnsignedConversionException*, *IOException*

Create a new Identity Request using an arbitrary byte blob as an Identity Proof and random AES 256 key and IV. This function is intended to be used to wrap data in the form of an Identity Request that may not be an Identity Proof. An example of this may be an Endorsement Credential.

Parameters

<i>newIdProof</i>	Arbitrary byte blob to take the position of an Identity Proof.
<i>caKey</i>	Privacy CA's public key
<i>TrouSerS</i>	true if request should be structured like one TrouSerS would create, false if request should be structured like one NTRU would create.

Exceptions

<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	
<i>InvalidKeyException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>IOException</i>	

6.158.2.7 gov.niarl.his.privacyca.TpmIdentityRequest.TpmIdentityRequest (*byte[] blob*) throws *TpmUtils.TpmUnsignedConversionException*, *TpmUtils.TpmBytestreamResourceException*, *PrivacyCaException*

Create a new [TpmIdentityRequest](#) object by initializing with a byte blob from the output of *Tspi_TPM_CollatIdentityRequest*.

Parameters

<i>blob</i>	The byte blob form of the identity request.
-------------	---

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>TpmUtils.TpmBytestreamResourceException</i>	
PrivacyCaException	

6.158.2.8 `gov.niarl.his.privacyca.TpmIdentityRequest.TpmIdentityRequest (TpmIdentityProof newIdProof, RSAPublicKey caKey)` throws `IOException`, `IllegalBlockSizeException`, `BadPaddingException`, `InvalidKeyException`, `InvalidAlgorithmParameterException`, `NoSuchAlgorithmException`, `NoSuchPaddingException`, `TpmUtils.TpmUnsignedConversionException`

Create a new [TpmIdentityRequest](#) by supplying a [TpmIdentityProof](#) and the Privacy CA's public key. A symmetric key and IV will be randomly created.

Parameters

<i>newIdProof</i>	A TpmIdentityProof object
<i>caKey</i>	The Privacy CA's private key

Exceptions

<i>IOException</i>	
<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	
<i>InvalidKeyException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>TpmUtils.TpmUnsignedConversionException</i>	

6.158.2.9 `gov.niarl.his.privacyca.TpmIdentityRequest.TpmIdentityRequest (TpmIdentityProof newIdProof, RSAPublicKey caKey, byte[] key, byte[] iv)` throws `IllegalBlockSizeException`, `BadPaddingException`, `InvalidKeyException`, `InvalidAlgorithmParameterException`, `NoSuchAlgorithmException`, `NoSuchPaddingException`, `TpmUtils.TpmUnsignedConversionException`

Create a new [TpmIdentityRequest](#) by supplying a [TpmIdentityProof](#), the Privacy CA's public key, a symmetric key, and an IV.

Parameters

<i>newIdProof</i>	A TpmIdentityProof object
<i>caKey</i>	The Privacy CA's private key
<i>key</i>	Symmetric key to use for encrypting the request (will itself be encrypted using the Privacy CA public key)
<i>iv</i>	Initialization Vector to be used for symmetric encryption

Exceptions

<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	
<i>InvalidKeyException</i>	

<i>InvalidAlgorithmParameterException</i>	
<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>TpmUtils.TpmUnsignedConversionException</i>	

6.158.2.10 gov.niarl.his.privacyca.TpmIdentityRequest.TpmIdentityRequest (**TpmIdentityProof** *newIdProof*, **RSAPublicKey** *caKey*, **TpmKeyParams** *newAsymAlgorithm*, **TpmKeyParams** *newSymAlgorithm*) throws **IOException**, **IllegalBlockSizeException**, **BadPaddingException**, **InvalidKeyException**, **InvalidAlgorithmParameterException**, **NoSuchAlgorithmException**, **NoSuchPaddingException**, **TpmUtils.TpmUnsignedConversionException**

Create a new **TpmIdentityRequest** by supplying a **TpmIdentityProof**, the Privacy CA's public key, a symmetric key, and an IV.

Parameters

<i>newIdProof</i>	A TpmIdentityProof object
<i>caKey</i>	The Privacy CA's private key
<i>newAsymAlgorithm</i>	Asymmetric encryption information in the form of a TpmKeyParams object
<i>newSymAlgorithm</i>	Symmetric encryption information in the form of a TpmKeyParams object

Exceptions

<i>IOException</i>	
<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	
<i>InvalidKeyException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>TpmUtils.TpmUnsignedConversionException</i>	

6.158.2.11 gov.niarl.his.privacyca.TpmIdentityRequest.TpmIdentityRequest (**TpmIdentityProof** *newIdProof*, **RSAPublicKey** *caKey*, **TpmKeyParams** *newAsymAlgorithm*, **TpmKeyParams** *newSymAlgorithm*, **byte[]** *key*) throws **IllegalBlockSizeException**, **BadPaddingException**, **InvalidKeyException**, **InvalidAlgorithmParameterException**, **NoSuchAlgorithmException**, **NoSuchPaddingException**, **TpmUtils.TpmUnsignedConversionException**

6.158.2.12 gov.niarl.his.privacyca.TpmIdentityRequest.TpmIdentityRequest (**byte[]** *newIdProof*, **RSAPublicKey** *caKey*, **boolean** *TrouSerS*) throws **IllegalBlockSizeException**, **BadPaddingException**, **InvalidKeyException**, **InvalidAlgorithmParameterException**, **NoSuchAlgorithmException**, **NoSuchPaddingException**, **TpmUtils.TpmUnsignedConversionException**, **IOException**

Create a new Identity Request using an arbitrary byte blob as an Identity Proof and random AES 256 key and IV. This function is intended to be used to wrap data in the form of an Identity Request that may not be an Identity Proof. An example of this may be an Endorsement Credential.

Parameters

<i>newIdProof</i>	Arbitrary byte blob to take the position of an Identity Proof.
-------------------	--

<i>caKey</i>	Privacy CA's public key
<i>TrouSerS</i>	true if request should be structured like one TrouSerS would create, false if request should be structured like one NTRU would create.

Exceptions

<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	
<i>InvalidKeyException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>IOException</i>	

6.158.3 Member Function Documentation

6.158.3.1 `static TpmKeyParams gov.niarl.his.privacyca.TpmIdentityRequest.createDefaultAsymAlgorithm ()`
`[static], [private]`

Create a default [TpmKeyParams](#) for the asym portion of the request.

Returns

6.158.3.2 `static TpmKeyParams gov.niarl.his.privacyca.TpmIdentityRequest.createDefaultAsymAlgorithm ()`
`[static], [private]`

Create a default [TpmKeyParams](#) for the asym portion of the request.

Returns

6.158.3.3 `static TpmKeyParams gov.niarl.his.privacyca.TpmIdentityRequest.createDefaultSymAlgorithm (byte[] iv)`
`[static], [private]`

Create a default [TpmKeyParams](#) for the sym portion of the request. This will include the IV, as per the specification, but this IV will most likely be moved to a TrouSerS-like location when the request is encrypted.

Parameters

<i>iv</i>	128-bit (16 byte) initialization vector
-----------	---

Returns

6.158.3.4 `static TpmKeyParams gov.niarl.his.privacyca.TpmIdentityRequest.createDefaultSymAlgorithm (byte[] iv)`
`[static], [private]`

Create a default [TpmKeyParams](#) for the sym portion of the request. This will include the IV, as per the specification, but this IV will most likely be moved to a TrouSerS-like location when the request is encrypted.

Parameters

<i>iv</i>	128-bit (16 byte) initialization vector
-----------	---

Returns

6.158.3.5 `TpmIdentityProof gov.niarl.his.privacyca.TpmIdentityRequest.decrypt (RSAPrivateKey privCaKey)` throws `InvalidKeyException`, `IllegalBlockSizeException`, `InvalidAlgorithmParameterException`, `TpmUtils.TpmUnsignedConversionException`, `NoSuchAlgorithmException`, `BadPaddingException`, `NoSuchPaddingException`, `PrivacyCaException`, `TpmUtils.TpmBytestreamResourceException`

Decrypt the identity request to get the identity proof.

Parameters

<i>privCaKey</i>	The Privacy CA's private key.
------------------	-------------------------------

Returns

An identity proof.

Exceptions

<i>InvalidKeyException</i>	
<i>IllegalBlockSizeException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>NoSuchAlgorithmException</i>	
<i>BadPaddingException</i>	
<i>NoSuchPaddingException</i>	
PrivacyCaException	
<i>TpmUtils.TpmBytestreamResourceException</i>	

6.158.3.6 `TpmIdentityProof gov.niarl.his.privacyca.TpmIdentityRequest.decrypt (RSAPrivateKey privCaKey)` throws `InvalidKeyException`, `IllegalBlockSizeException`, `InvalidAlgorithmParameterException`, `TpmUtils.TpmUnsignedConversionException`, `NoSuchAlgorithmException`, `BadPaddingException`, `NoSuchPaddingException`, `PrivacyCaException`, `TpmUtils.TpmBytestreamResourceException`

Decrypt the identity request to get the identity proof.

Parameters

<i>privCaKey</i>	The Privacy CA's private key.
------------------	-------------------------------

Returns

An identity proof.

Exceptions

<i>InvalidKeyException</i>	
<i>IllegalBlockSizeException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>NoSuchAlgorithmException</i>	
<i>BadPaddingException</i>	
<i>NoSuchPaddingException</i>	
PrivacyCaException	
<i>TpmUtils.TpmBytestreamResourceException</i>	

6.158.3.7 `TpmSymmetricKey gov.niarl.his.privacyca.TpmIdentityRequest.decryptAsym (RSAPrivateKey privCaKey)` throws `NoSuchPaddingException`, `InvalidKeyException`, `BadPaddingException`, `TpmUtils.TpmUnsignedConversionException`, `NoSuchAlgorithmException`, `IllegalBlockSizeException`, `InvalidAlgorithmParameterException`, `TpmUtils.TpmBytestreamResourceException`, `PrivacyCaException` [private]

Decrypt the asymmetric portion of the request to get the key needed to decrypt the symmetric portion.

Parameters

<i>privCaKey</i>	The Privacy CA's private key.
------------------	-------------------------------

Returns

Exceptions

<i>NoSuchPaddingException</i>	
<i>InvalidKeyException</i>	
<i>BadPaddingException</i>	
<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>NoSuchAlgorithmException</i>	
<i>IllegalBlockSizeException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>TpmUtils.TpmBytestreamResourceException</i>	

6.158.3.8 `TpmSymmetricKey gov.niarl.his.privacyca.TpmIdentityRequest.decryptAsym (RSAPrivateKey privCaKey)` throws `NoSuchPaddingException`, `InvalidKeyException`, `BadPaddingException`, `TpmUtils.TpmUnsignedConversionException`, `NoSuchAlgorithmException`, `IllegalBlockSizeException`, `InvalidAlgorithmParameterException`, `TpmUtils.TpmBytestreamResourceException`, `PrivacyCaException` [private]

Decrypt the asymmetric portion of the request to get the key needed to decrypt the symmetric portion.

Parameters

<i>privCaKey</i>	The Privacy CA's private key.
------------------	-------------------------------

Returns

Exceptions

<i>NoSuchPaddingException</i>	
<i>InvalidKeyException</i>	
<i>BadPaddingException</i>	
<i>TpmUtils.TpmUnsigned-ConversionException</i>	
<i>NoSuchAlgorithmException</i>	
<i>IllegalBlockSizeException</i>	
<i>InvalidAlgorithmParameter-Exception</i>	
<i>TpmUtils.TpmBytestream-ResouceException</i>	

6.158.3.9 byte [] gov.niarl.his.privacyca.TpmIdentityRequest.decryptRaw (RSAPrivateKey *privCaKey*)
 throws *InvalidKeyException*, *IllegalBlockSizeException*, *InvalidAlgorithmParameterException*,
TpmUtils.TpmUnsignedConversionException, *NoSuchAlgorithmException*, *BadPaddingException*,
NoSuchPaddingException, *PrivacyCaException*, *TpmUtils.TpmBytestreamResouceException*

Decrypts the Identity Request, and DOES NOT assume the contents are an Identity Proof.

Parameters

<i>privCaKey</i>	Privacy CA's private key
------------------	--------------------------

Returns

Raw byte blob

Exceptions

<i>InvalidKeyException</i>	
<i>IllegalBlockSizeException</i>	
<i>InvalidAlgorithmParameter-Exception</i>	
<i>TpmUtils.TpmUnsigned-ConversionException</i>	
<i>NoSuchAlgorithmException</i>	
<i>BadPaddingException</i>	
<i>NoSuchPaddingException</i>	
<i>PrivacyCaException</i>	
<i>TpmUtils.TpmBytestream-ResouceException</i>	

6.158.3.10 `byte [] gov.niarl.his.privacyca.TpmIdentityRequest.decryptRaw (RSAPrivateKey privCaKey)`
 throws `InvalidKeyException`, `IllegalBlockSizeException`, `InvalidAlgorithmParameterException`,
`TpmUtils.TpmUnsignedConversionException`, `NoSuchAlgorithmException`, `BadPaddingException`,
`NoSuchPaddingException`, `PrivacyCaException`, `TpmUtils.TpmBytestreamResouceException`

Decrypts the Identity Request, and DOES NOT assume the contents are an Identity Proof.

Parameters

<i>privCaKey</i>	Privacy CA's private key
------------------	--------------------------

Returns

Raw byte blob

Exceptions

<i>InvalidKeyException</i>	
<i>IllegalBlockSizeException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>NoSuchAlgorithmException</i>	
<i>BadPaddingException</i>	
<i>NoSuchPaddingException</i>	
<i>PrivacyCaException</i>	
<i>TpmUtils.TpmBytestreamResouceException</i>	

6.158.3.11 `TpmIdentityProof gov.niarl.his.privacyca.TpmIdentityRequest.decryptSym (TpmSymmetricKey symKey)`
 throws `NoSuchAlgorithmException`, `NoSuchPaddingException`, `InvalidAlgorithmParameterException`,
`TpmUtils.TpmUnsignedConversionException`, `InvalidKeyException`, `BadPaddingException`,
`IllegalBlockSizeException`, `PrivacyCaException`, `TpmUtils.TpmBytestreamResouceException` [private]

Decrypt the symmetric portion of the request to get the identity proof.

Parameters

<i>symKey</i>	The output of decryptAsym.
---------------	----------------------------

Returns

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>InvalidKeyException</i>	
<i>BadPaddingException</i>	
<i>IllegalBlockSizeException</i>	

PrivacyCaException	
<i>TpmUtils.TpmBytestream-ResouceException</i>	

6.158.3.12 TpmIdentityProof gov.niarl.his.privacyca.TpmIdentityRequest.decryptSym (**TpmSymmetricKey** *symKey*) throws **NoSuchAlgorithmException**, **NoSuchPaddingException**, **InvalidAlgorithmParameterException**, **TpmUtils.TpmUnsignedConversionException**, **InvalidKeyException**, **BadPaddingException**, **IllegalBlockSizeException**, **PrivacyCaException**, **TpmUtils.TpmBytestreamResouceException** [private]

Decrypt the symmetric portion of the request to get the identity proof.

Parameters

<i>symKey</i>	The output of decryptAsym.
---------------	----------------------------

Returns

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>InvalidAlgorithmParameter-Exception</i>	
<i>TpmUtils.TpmUnsigned-ConversionException</i>	
<i>InvalidKeyException</i>	
<i>BadPaddingException</i>	
<i>IllegalBlockSizeException</i>	
PrivacyCaException	
<i>TpmUtils.TpmBytestream-ResouceException</i>	

6.158.3.13 byte [] gov.niarl.his.privacyca.TpmIdentityRequest.decryptSymRaw (**TpmSymmetricKey** *symKey*) throws **NoSuchAlgorithmException**, **NoSuchPaddingException**, **InvalidAlgorithmParameterException**, **TpmUtils.TpmUnsignedConversionException**, **InvalidKeyException**, **BadPaddingException**, **IllegalBlockSizeException**, **PrivacyCaException**, **TpmUtils.TpmBytestreamResouceException** [private]

If the byte blob captured as an Identity Request was not an encrypted Identity Proof (which could be done to transfer data from client to Privacy CA outside of the specification), then this method of decrypting the symblob may be preferable.

Parameters

<i>symKey</i>	The TpmSymmetricKey as returned from decryptAsym()
---------------	--

Returns

Decrypted byte blob

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>InvalidKeyException</i>	
<i>BadPaddingException</i>	
<i>IllegalBlockSizeException</i>	
PrivacyCaException	
<i>TpmUtils.TpmBytestreamResourceException</i>	

6.158.3.14 `byte [] gov.niarl.his.privacyca.TpmIdentityRequest.decryptSymRaw (TpmSymmetricKey symKey)` throws `NoSuchAlgorithmException`, `NoSuchPaddingException`, `InvalidAlgorithmParameterException`, `TpmUtils.TpmUnsignedConversionException`, `InvalidKeyException`, `BadPaddingException`, `IllegalBlockSizeException`, `PrivacyCaException`, `TpmUtils.TpmBytestreamResourceException` [private]

If the byte blob captured as an Identity Request was not an encrypted Identity Proof (which could be done to transfer data from client to Privacy CA outside of the specification), then this method of decrypting the symblob may be preferable.

Parameters

<code>symKey</code>	The TpmSymmetricKey as returned from decryptAsym()
---------------------	--

Returns

Decrypted byte blob

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>InvalidKeyException</i>	
<i>BadPaddingException</i>	
<i>IllegalBlockSizeException</i>	
PrivacyCaException	
<i>TpmUtils.TpmBytestreamResourceException</i>	

6.158.3.15 `void gov.niarl.his.privacyca.TpmIdentityRequest.encryptAsym (TpmSymmetricKey symKey, RSAPublicKey caKey)` throws `NoSuchPaddingException`, `NoSuchAlgorithmException`, `InvalidAlgorithmParameterException`, `InvalidKeyException`, `TpmUtils.TpmUnsignedConversionException`, `BadPaddingException`, `IllegalBlockSizeException` [private]

Encrypt a [TpmSymmetricKey](#), as returned from the private [encryptSym\(\)](#) function, and store in the asymblob variable for this object.

Parameters

<i>symKey</i>	The TpmSymmetricKey as returned from encryptSym()
<i>caKey</i>	The Privacy CA's public key

Exceptions

<i>NoSuchPaddingException</i>	
<i>NoSuchAlgorithmException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>InvalidKeyException</i>	
<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>BadPaddingException</i>	
<i>IllegalBlockSizeException</i>	

6.158.3.16 void gov.niarl.his.privacyca.TpmIdentityRequest.encryptAsym ([TpmSymmetricKey](#) *symKey*, [RSAPublicKey](#) *caKey*) throws [NoSuchPaddingException](#), [NoSuchAlgorithmException](#), [InvalidAlgorithmParameterException](#), [InvalidKeyException](#), [TpmUtils.TpmUnsignedConversionException](#), [BadPaddingException](#), [IllegalBlockSizeException](#) [private]

Encrypt a [TpmSymmetricKey](#), as returned from the private [encryptSym\(\)](#) function, and store in the asymblob variable for this object.

Parameters

<i>symKey</i>	The TpmSymmetricKey as returned from encryptSym()
<i>caKey</i>	The Privacy CA's public key

Exceptions

<i>NoSuchPaddingException</i>	
<i>NoSuchAlgorithmException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>InvalidKeyException</i>	
<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>BadPaddingException</i>	
<i>IllegalBlockSizeException</i>	

6.158.3.17 [TpmSymmetricKey](#) gov.niarl.his.privacyca.TpmIdentityRequest.encryptSym ([byte\[\]](#) *proof*, [byte\[\]](#) *key*, [byte\[\]](#) *iv*) throws [NoSuchPaddingException](#), [NoSuchAlgorithmException](#), [InvalidAlgorithmParameterException](#), [InvalidKeyException](#), [BadPaddingException](#), [IllegalBlockSizeException](#) [private]

Encrypt the [TpmIdentityProof](#) using a specified key and IV; return the [TpmSymmetricKey](#) object. The encrypted portion will be stored in this object's symblob variable.

Parameters

<i>proof</i>	This is the TpmIdentityProof as a byte array (or anything else to encrypt as if it is an identity proof – useful for sending encrypted data to a Privacy CA outside of the specification).
<i>key</i>	128-bit (16 byte) AES key
<i>iv</i>	128-bit (16 byte) initialization vector

Returns

[TpmSymmetricKey](#) containing the used key

Exceptions

<i>NoSuchPaddingException</i>	
<i>NoSuchAlgorithmException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>InvalidKeyException</i>	
<i>BadPaddingException</i>	
<i>IllegalBlockSizeException</i>	

6.158.3.18 [TpmSymmetricKey](#) gov.niarl.his.privacyca.TpmIdentityRequest.encryptSym (byte[] *proof*, byte[] *key*, byte[] *iv*) throws *NoSuchPaddingException*, *NoSuchAlgorithmException*, *InvalidAlgorithmParameterException*, *InvalidKeyException*, *BadPaddingException*, *IllegalBlockSizeException* [private]

Encrypt the [TpmIdentityProof](#) using a specified key and IV; return the [TpmSymmetricKey](#) object. The encrypted portion will be stored in this object's symblob variable.

Parameters

<i>proof</i>	This is the TpmIdentityProof as a byte array (or anything else to encrypt as if it is an identity proof – useful for sending encrypted data to a Privacy CA outside of the specification).
<i>key</i>	128-bit (16 byte) AES key
<i>iv</i>	128-bit (16 byte) initialization vector

Returns

[TpmSymmetricKey](#) containing the used key

Exceptions

<i>NoSuchPaddingException</i>	
<i>NoSuchAlgorithmException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>InvalidKeyException</i>	
<i>BadPaddingException</i>	
<i>IllegalBlockSizeException</i>	

6.158.3.19 void gov.niarl.his.privacyca.TpmIdentityRequest.findIv () throws *PrivacyCaException* [private]

This must be run to properly identify the location of the symmetric encryption Initialization Vector. If TrouSerS-style formatting is used on the request, the IV is not in the symmetric key parameters, but rather at the head of the symmetrically encrypted blob. In order to decrypt consistently, regardless of the format use, this procedure will adjust from TrouSerS-style to 1.2 spec compliant style. A flag is set when parsing (in the constructor) so that the particular style is recorded. This will be used when constructing a response.

Exceptions

PrivacyCaException	
------------------------------------	--

6.158.3.20 void gov.niarl.his.privacyca.TpmIdentityRequest.findIv () throws PrivacyCaException [private]

This must be run to properly identify the location of the symmetric encryption Initialization Vector. If TrouSerS-style formatting is used on the request, the IV is not in the symmetric key parameters, but rather at the head of the symmetrically encrypted blob. In order to decrypt consistently, regardless of the format use, this procedure will adjust from TrouSerS-style to 1.2 spec compliant style. A flag is set when parsing (in the constructor) so that the particular style is recorded. This will be used when constructing a response.

Exceptions

PrivacyCaException	
------------------------------------	--

6.158.3.21 byte [] gov.niarl.his.privacyca.TpmIdentityRequest.getAsymBlob ()

6.158.3.22 byte [] gov.niarl.his.privacyca.TpmIdentityRequest.getAsymBlob ()

6.158.3.23 TpmKeyParams gov.niarl.his.privacyca.TpmIdentityRequest.getAsymKeyParams ()

Returns

The asym key_parms.

6.158.3.24 TpmKeyParams gov.niarl.his.privacyca.TpmIdentityRequest.getAsymKeyParams ()

Returns

The asym key_parms.

6.158.3.25 boolean gov.niarl.his.privacyca.TpmIdentityRequest.getIvmode ()

Get a copy of the flag used to indicate the placement of the initialization vector used for this request.

Returns

True indicates that the placement is the first part of the symmetrically encrypted blob; **false** indicates that the placement is within the TPM_SYMMETRIC_KEY_PARMS portion of the TPM_KEY_PARMS structure used to describe the symmetric key usage.

6.158.3.26 boolean gov.niarl.his.privacyca.TpmIdentityRequest.getIvmode ()

Get a copy of the flag used to indicate the placement of the initialization vector used for this request.

Returns

True indicates that the placement is the first part of the symmetrically encrypted blob; **false** indicates that the placement is within the TPM_SYMMETRIC_KEY_PARMS portion of the TPM_KEY_PARMS structure used to describe the symmetric key usage.

6.158.3.27 boolean gov.niarl.his.privacyca.TpmIdentityRequest.getOeapMode ()

Get the status of the TrouSerS OEAP flag. TrouSerS (at least in the version available through Yum) uses a blank OEAP password when performing asymmetric encryption. The password should be "TCPA".

Returns

TRUE if TrouSerS use of a blank OEAP password is in use; FALSE if the correct password is used.

6.158.3.28 `boolean gov.niarl.his.privacyca.TpmIdentityRequest.getOeapMode ()`

Get the status of the TrouSerS OEAP flag. TrouSerS (at least in the version available through Yum) uses a blank OEAP password when performing asymmetric encryption. The password should be "TCPA".

Returns

TRUE if TrouSerS use of a blank OEAP password is in use; FALSE if the correct password is used.

6.158.3.29 `void gov.niarl.his.privacyca.TpmIdentityRequest.getOeapMode (boolean newMode)`

Set the status of the TrouSerS OEAP flag.

Parameters

<i>newMode</i>	Set to TRUE to emulate TrouSerS use of a blank OEAP password; set to FALSE to comply with the specification.
----------------	--

6.158.3.30 `void gov.niarl.his.privacyca.TpmIdentityRequest.getOeapMode (boolean newMode)`

Set the status of the TrouSerS OEAP flag.

Parameters

<i>newMode</i>	Set to TRUE to emulate TrouSerS use of a blank OEAP password; set to FALSE to comply with the specification.
----------------	--

6.158.3.31 `byte [] gov.niarl.his.privacyca.TpmIdentityRequest.getSymBlob ()`

6.158.3.32 `byte [] gov.niarl.his.privacyca.TpmIdentityRequest.getSymBlob ()`

6.158.3.33 `boolean gov.niarl.his.privacyca.TpmIdentityRequest.getSymkeyEncscheme ()`

Get a status of the flag that indicates the usage of the encryption mode used for symmetric encryption. Based on observation, all TSS implementations use

Returns

TRUE if TrouSerS use of TPM_ES_NONE is used; FALSE if consistent with the specification.

6.158.3.34 `boolean gov.niarl.his.privacyca.TpmIdentityRequest.getSymkeyEncscheme ()`

Get a status of the flag that indicates the usage of the encryption mode used for symmetric encryption. Based on observation, all TSS implementations use

Returns

TRUE if TrouSerS use of TPM_ES_NONE is used; FALSE if consistent with the specification.

6.158.3.35 `TpmKeyParams gov.niarl.his.privacyca.TpmlIdentityRequest.getSymKeyParams ()`

Returns

The sym algorithm key_parms.

6.158.3.36 `TpmKeyParams gov.niarl.his.privacyca.TpmlIdentityRequest.getSymKeyParams ()`

Returns

The sym algorithm key_parms.

6.158.3.37 `void gov.niarl.his.privacyca.TpmlIdentityRequest.setIVmode (boolean newMode)`

Set the flag used to dictate the placement of the initialization vector for this request.

Parameters

<i>newMode</i>	True indicates that the placement be the first part of the symmetrically encrypted blob; false indicates that the placement be within the TPM_SYMMETRIC_KEY_PARMS portion of the TPM_KEY_PARMS structure used to describe the symmetric key usage.
----------------	--

6.158.3.38 `void gov.niarl.his.privacyca.TpmlIdentityRequest.setIVmode (boolean newMode)`

Set the flag used to dictate the placement of the initialization vector for this request.

Parameters

<i>newMode</i>	True indicates that the placement be the first part of the symmetrically encrypted blob; false indicates that the placement be within the TPM_SYMMETRIC_KEY_PARMS portion of the TPM_KEY_PARMS structure used to describe the symmetric key usage.
----------------	--

6.158.3.39 `void gov.niarl.his.privacyca.TpmlIdentityRequest.setSymkeyEncscheme (boolean newScheme)`

Set the status of the TrouSerS encryption scheme flag.

Parameters

<i>newScheme</i>	Set to TRUE to emulate TrouSerS' use of TPM_ES_NONE; set to FALSE to comply with the specification.
------------------	---

6.158.3.40 `void gov.niarl.his.privacyca.TpmlIdentityRequest.setSymkeyEncscheme (boolean newScheme)`

Set the status of the TrouSerS encryption scheme flag.

Parameters

<i>newScheme</i>	Set to TRUE to emulate TrouSerS' use of TPM_ES_NONE; set to FALSE to comply with the specification.
------------------	---

6.158.3.41 `byte [] gov.niarl.his.privacyca.TpmIdentityRequest.toByteArray ()` throws `TpmUtils.TpmUnsignedConversionException`

Dump the Identity Request as a byte array in the form that it can be sent to a Privacy CA (or as it came from the client, assembled by a TSS)

Returns

Byte array containing the Identity Request

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
--	--

6.158.3.42 `byte [] gov.niarl.his.privacyca.TpmIdentityRequest.toByteArray ()` throws `TpmUtils.TpmUnsignedConversionException`

Dump the Identity Request as a byte array in the form that it can be sent to a Privacy CA (or as it came from the client, assembled by a TSS)

Returns

Byte array containing the Identity Request

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
--	--

6.158.3.43 `String gov.niarl.his.privacyca.TpmIdentityRequest.toString ()`

Returns

A textual report of the contents of the identity request.

6.158.3.44 `String gov.niarl.his.privacyca.TpmIdentityRequest.toString ()`

Returns

A textual report of the contents of the identity request.

6.158.4 Member Data Documentation

6.158.4.1 `TpmKeyParams gov.niarl.his.privacyca.TpmIdentityRequest.asymAlgorithm` [private]

6.158.4.2 `byte [] gov.niarl.his.privacyca.TpmIdentityRequest.asymBlob` [private]

6.158.4.3 `TpmKeyParams gov.niarl.his.privacyca.TpmIdentityRequest.symAlgorithm` [private]

6.158.4.4 `byte [] gov.niarl.his.privacyca.TpmIdentityRequest.symBlob` [private]

6.158.4.5 `boolean gov.niarl.his.privacyca.TpmIdentityRequest.TrousersModeBlankOeap = false` [private]

6.158.4.6 boolean gov.niarl.his.privacyca.TpmIdentityRequest.TrousersModelV = false [private]

6.158.4.7 boolean gov.niarl.his.privacyca.TpmIdentityRequest.TrousersModeSymkeyEncscheme = false [private]

6.159 gov.niarl.his.privacyca.TpmIntegrityReport Class Reference

Public Member Functions

- [TpmIntegrityReport](#) ()
- void [addPCR](#) (byte[] newPCRbytes)
- void [addPCR](#) (PCR newPCR)
- void [setQuote](#) (byte[] newQuote)
- void [setSignature](#) (byte[] newSig)
- boolean [checkSignature](#) (RSAPublicKey aik, byte[] nonce, byte[] pcrBitMask, boolean printResults) throws TpmIntegrityReportException, TpmUtils.TpmUnsignedConversionException, NoSuchAlgorithmException, - InvalidKeyException, SignatureException

Private Member Functions

- int [countbits](#) (byte[] mask)

Private Attributes

- Vector< PCR > [PCRlist](#) = new Vector<PCR>()
- byte[] [quote](#)
- byte[] [signature](#)

6.159.1 Detailed Description

This class was created to test the functionality the TPM Module quote routine. Although there may not be a production need for this function, it does contain a routine that can determine the validity of a quote and signature by recreating the quote using nonce, and raw PCR values, then verify using the public key in the AIK certificate.

Author

schawki

6.159.2 Constructor & Destructor Documentation

6.159.2.1 gov.niarl.his.privacyca.TpmIntegrityReport.TpmIntegrityReport ()

Create a new [TpmIntegrityReport](#), ready to accept data.

6.159.3 Member Function Documentation

6.159.3.1 void gov.niarl.his.privacyca.TpmIntegrityReport.addPCR (byte[] newPCRbytes)

Add a PCR value (these should be added in the order that they were requested from the TPM).

Parameters

<i>newPCRbytes</i>	The new PCR value as a 20-byte array.
--------------------	---------------------------------------

6.159.3.2 void gov.niarl.his.privacyca.TpmIntegrityReport.addPCR (PCR *newPCR*)

Add a PCR value (these should be added in the order that they were requested from the TPM).

Parameters

<i>newPCR</i>	The new PCR vale as a PCR structure.
---------------	--------------------------------------

6.159.3.3 boolean gov.niarl.his.privacyca.TpmIntegrityReport.checkSignature (RSAPublicKey *aik*, byte[] *nonce*, byte[] *pcrBitMask*, boolean *printResults*) throws TpmIntegrityReportException, TpmUtils.TpmUnsignedConversionException, NoSuchAlgorithmException, InvalidKeyException, SignatureException

Check the integrity report for both consistency and validity. The Quote is reconstructed using the PCR values and nonce that should have been used by the TPM to generate the original quote. Also, validate the signature using the AIK certificate of the TPM that generated the report. If either the consistency or validity fails, **false** is returned.

Parameters

<i>aik</i>	The AIK public key from the AIK certificate.
<i>nonce</i>	The nonce passed to the TPM.
<i>pcrBitMask</i>	The PRC bitmask that defines the registers requested.

Returns

True if both consistency and validity tests pass, **false** otherwise.

Exceptions

<i>TpmIntegrityReportException</i>	Thrown if the bitmask is not 3 bytes long.
<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>NoSuchAlgorithmException</i>	
<i>InvalidKeyException</i>	
<i>SignatureException</i>	

6.159.3.4 int gov.niarl.his.privacyca.TpmIntegrityReport.countbits (byte[] *mask*) [private]

6.159.3.5 void gov.niarl.his.privacyca.TpmIntegrityReport.setQuote (byte[] *newQuote*)

Set the quote.

Parameters

<i>newQuote</i>	The 48 byte quote.
-----------------	--------------------

6.159.3.6 void gov.niarl.his.privacyca.TpmIntegrityReport.setSignature (byte[] *newSig*)

Set the quote signature.

Parameters

<i>newSig</i>	The 256 byte signature.
---------------	-------------------------

6.159.4 Member Data Documentation

6.159.4.1 `Vector<PCR> gov.niarl.his.privacyca.TpmIntegrityReport.PCRlist = new Vector<PCR>() [private]`

6.159.4.2 `byte [] gov.niarl.his.privacyca.TpmIntegrityReport.quote [private]`

6.159.4.3 `byte [] gov.niarl.his.privacyca.TpmIntegrityReport.signature [private]`

6.160 gov.niarl.his.privacyca.TpmKey Class Reference

Public Member Functions

- [TpmKey](#) ()
- [TpmKey](#) (byte[] blob) throws [TpmBytestreamResourceException](#), [TpmUnsignedConversionException](#)
- byte[] [getModulus](#) ()
- void [setStructVer](#) (byte[] newStructVer)
- byte[] [getStructVer](#) ()
- void [setTpmKeyUsage](#) (short newTpmKeyUsage)
- short [getTpmKeyUsage](#) ()
- void [setTpmKeyFlags](#) (int newTpmKeyFlags)
- int [getTpmKeyFlags](#) ()
- void [setTpmAuthDataUsage](#) (byte newTpmAuthDataUsage)
- byte [getTpmAuthDataUsage](#) ()
- void [setKeyParams](#) ([TpmKeyParams](#) newKeyParams)
- [TpmKeyParams](#) [getKeyParams](#) ()
- void [setPcrInfo](#) (byte[] newPcrInfo)
- byte[] [getPcrInfo](#) ()
- void [setTpmStorePubkey](#) (byte[] newTpmStorePubkey)
- byte[] [getTpmStorePubkey](#) ()
- void [setEncryptedData](#) (byte[] newEncryptedData)
- byte[] [getEncryptedData](#) ()
- byte[] [toByteArray](#) () throws [TpmUnsignedConversionException](#)

Private Attributes

- byte[] [structVer](#) = {(byte)0x01, (byte)0x01, (byte)0x00, (byte)0x00}
- short [tpmKeyUsage](#) = 0
- int [tpmKeyFlags](#) = 0
- byte [tpmAuthDataUsage](#) = (byte)0x00
- [TpmKeyParams](#) [keyParams](#) = null
- byte[] [pcrInfo](#) = null
- byte[] [tpmStorePubkey](#) = null
- byte[] [encryptedData](#) = null

6.160.1 Detailed Description

This class is for the TCG's TPM_KEY structure.

Author

schawki

6.160.2 Constructor & Destructor Documentation

6.160.2.1 gov.niarl.his.privacyca.TpmKey.TpmKey ()

Create a new [TpmKey](#) with no default values.

6.160.2.2 gov.niarl.his.privacyca.TpmKey.TpmKey (byte[] blob) throws TpmBytestreamResouceException, TpmUnsignedConversionException

Create a new [TpmKey](#) by extracting values from a byte blob.

Parameters

<i>blob</i>	Raw blob representing a TPM_KEY.
-------------	----------------------------------

Exceptions

<i>TpmBytestreamResouce-Exception</i>	
<i>TpmUnsignedConversion-Exception</i>	

6.160.3 Member Function Documentation

6.160.3.1 byte [] gov.niarl.his.privacyca.TpmKey.getEncryptedData ()

Get the encrypted portion of the key.

Returns

6.160.3.2 TpmKeyParams gov.niarl.his.privacyca.TpmKey.getKeyParms ()

Get the TPM_KEY_PARMS for the key.

Returns

6.160.3.3 byte [] gov.niarl.his.privacyca.TpmKey.getModulus ()

Get the stored key modulus.

Returns

6.160.3.4 byte [] gov.niarl.his.privacyca.TpmKey.getPcrInfo ()

Get the PCR info. If null, the key is not bound to PCR info.

Returns

6.160.3.5 `byte [] gov.niarl.his.privacyca.TpmKey.getStructVer ()`

Get the TPM_STRUCT_VER.

Returns

6.160.3.6 `byte gov.niarl.his.privacyca.TpmKey.getTpmAuthDataUsage ()`

Get the key auth data usage.

Returns

6.160.3.7 `int gov.niarl.his.privacyca.TpmKey.getTpmKeyFlags ()`

Get the key flags.

Returns

6.160.3.8 `short gov.niarl.his.privacyca.TpmKey.getTpmKeyUsage ()`

Get the key usage value.

Returns

6.160.3.9 `byte [] gov.niarl.his.privacyca.TpmKey.getTpmStorePubkey ()`

Get the stored TPM_STORE_PUBKEY.

Returns

6.160.3.10 `void gov.niarl.his.privacyca.TpmKey.setEncryptedData (byte[] newEncryptedData)`

Set the encrypted data portion of the key. This should generally be provided by the TPM itself.

Parameters

<i>newEncryptedData</i>	
-------------------------	--

6.160.3.11 void gov.niarl.his.privacyca.TpmKey.setKeyParms (TpmKeyParams newKeyParms)

Set the TPM_KEY_PARMS using a [TpmKeyParams](#) object.

Parameters

<i>newKeyParms</i>	
--------------------	--

6.160.3.12 void gov.niarl.his.privacyca.TpmKey.setPcrInfo (byte[] newPcrInfo)

Set the PCR info for the key. As per the spec, if the key is not bound by PCR info, this should be null (size 0). If the key is bound by PCR info, the newPcrInfo parameter should be set as the serialized form of TPM_PCR_INFO, as defined in section 8.3 of the TPM [Main](#) Part 2: Structures document.

Parameters

<i>newPcrInfo</i>	
-------------------	--

6.160.3.13 void gov.niarl.his.privacyca.TpmKey.setStructVer (byte[] newStructVer)

Set the TPM_STRUCT_VER, should always be 0x01010000.

Parameters

<i>newStructVer</i>	
---------------------	--

6.160.3.14 void gov.niarl.his.privacyca.TpmKey.setTpmAuthDataUsage (byte newTpmAuthDataUsage)

Set the key auth data usage. See the TPM [Main](#) Specification Part 2: Structures, section 5.9 for detailed information about TPM_AUTH_DATA_USAGE.

Parameters

<i>newTpmAuth- DataUsage</i>	
----------------------------------	--

6.160.3.15 void gov.niarl.his.privacyca.TpmKey.setTpmKeyFlags (int newTpmKeyFlags)

Set the key flags. See the TPM [Main](#) Specification Part 2: Structures, section 5.9 for detailed information about TPM_KEY_FLAGS.

Parameters

<i>newTpmKey- Flags</i>	
-----------------------------	--

6.160.3.16 void gov.niarl.his.privacyca.TpmKey.setTpmKeyUsage (short newTpmKeyUsage)

Set the key usage. See the TPM [Main](#) Specification Part 2: Structures, section 5.8 for detailed information about TPM_KEY_USAGE.

Parameters

<i>newTpmKey-Usage</i>	
------------------------	--

6.160.3.17 void gov.niarl.his.privacyca.TpmKey.setTpmStorePubkey (byte[] *newTpmStorePubkey*)

Set the raw public key information. This is the modulus only, as the public exponent is stored in the TPM_KEY_PARAMS section.

Parameters

<i>newTpmStore-Pubkey</i>	
---------------------------	--

6.160.3.18 byte [] gov.niarl.his.privacyca.TpmKey.toByteArray () throws TpmUnsignedConversionException

Serialize the [TpmKey](#) object in the form of a TPM_KEY structure.

Returns

Exceptions

<i>TpmUnsignedConversion-Exception</i>	
--	--

6.160.4 Member Data Documentation

6.160.4.1 byte [] gov.niarl.his.privacyca.TpmKey.encryptedData = null [private]

6.160.4.2 TpmKeyParams gov.niarl.his.privacyca.TpmKey.keyParams = null [private]

6.160.4.3 byte [] gov.niarl.his.privacyca.TpmKey.pcrInfo = null [private]

6.160.4.4 byte [] gov.niarl.his.privacyca.TpmKey.structVer = {(byte)0x01, (byte)0x01, (byte)0x00, (byte)0x00} [private]

6.160.4.5 byte gov.niarl.his.privacyca.TpmKey.tpmAuthDataUsage = (byte)0x00 [private]

6.160.4.6 int gov.niarl.his.privacyca.TpmKey.tpmKeyFlags = 0 [private]

6.160.4.7 short gov.niarl.his.privacyca.TpmKey.tpmKeyUsage = 0 [private]

6.160.4.8 byte [] gov.niarl.his.privacyca.TpmKey.tpmStorePubkey = null [private]

6.161 gov.niarl.his.privacyca.TpmKeyParams Class Reference

Public Member Functions

- [TpmKeyParams](#) ()
- [TpmKeyParams](#) (ByteArrayInputStream source) throws TpmUtils.TpmUnsignedConversionException, TpmUtils.TpmBytestreamResourceException
- void [setTrouSerSmode](#) (boolean state)

- boolean [getTrouSerSmode](#) ()
- byte[] [toByteArray](#) () throws `TpmUtils.TpmUnsignedConversionException`
- String [toString](#) ()
- int [getAlgorithmId](#) ()
- void [setAlgorithmId](#) (int newAlgId)
- short [getEncScheme](#) ()
- void [setEncScheme](#) (short newEncScheme)
- short [getSigScheme](#) ()
- void [setSigScheme](#) (short newSigScheme)
- [TpmKeySubParams](#) [getSubParams](#) ()
- void [setSubParams](#) ([TpmKeySubParams](#) newSubParams)
- [TpmKeyParams](#) ()
- [TpmKeyParams](#) (ByteArrayInputStream source) throws `TpmUtils.TpmUnsignedConversionException`, `TpmUtils.TpmBytestreamResourceException`
- void [setTrouSerSmode](#) (boolean state)
- boolean [getTrouSerSmode](#) ()
- byte[] [toByteArray](#) () throws `TpmUtils.TpmUnsignedConversionException`
- String [toString](#) ()
- int [getAlgorithmId](#) ()
- void [setAlgorithmId](#) (int newAlgId)
- short [getEncScheme](#) ()
- void [setEncScheme](#) (short newEncScheme)
- short [getSigScheme](#) ()
- void [setSigScheme](#) (short newSigScheme)
- [TpmKeySubParams](#) [getSubParams](#) ()
- void [setSubParams](#) ([TpmKeySubParams](#) newSubParams)

Static Public Member Functions

- static String [algToString](#) (int alg)
- static String [esToString](#) (short es, boolean [TrouSerSmode](#))
- static String [ssToString](#) (short ss)
- static String [algToString](#) (int alg)
- static String [esToString](#) (short es, boolean [TrouSerSmode](#))
- static String [ssToString](#) (short ss)

Static Public Attributes

- static final int [TPM_ALG_RSA](#) = 0x1
- static final int [TPM_ALG_DES](#) = 0x2
- static final int [TPM_ALG_3DES](#) = 0x3
- static final int [TPM_ALG_SHA](#) = 0x4
- static final int [TPM_ALG_HMAC](#) = 0x5
- static final int [TPM_ALG_AES](#) = 0x6
- static final int [TPM_ALG_AES128](#) = [TPM_ALG_AES](#)
- static final int [TPM_ALG_MGF1](#) = 0x7
- static final int [TPM_ALG_AES192](#) = 0x8
- static final int [TPM_ALG_AES256](#) = 0x9
- static final int [TPM_ALG_XOR](#) = 0xa
- static final short [TPM_ES_NONE](#) = 0x1
- static final short [TPM_ES_RSAESPKCSv15](#) = 0x2
- static final short [TPM_ES_RSAESOAEP_SHA1_MGF1](#) = 0x3
- static final short [TPM_ES_SYM_CNT](#) = 0x4
- static final short [TPM_ES_SYM_OFB](#) = 0x5

- static final short [TPM_ES_SYM_CBC_PKCS5PAD](#) = 0xff
- static final short [TPM_SS_NONE](#) = 0x1
- static final short [TPM_SS_RSASAPKCS1v15_SHA1](#) = 2
- static final short [TPM_SS_RSASAPKCS1v15_DER](#) = 3
- static final short [TPM_SS_RSASAPKCS1v15_INFO](#) = 4

Private Attributes

- int [algorithmId](#)
- short [encScheme](#)
- short [sigScheme](#)
- [TpmKeySubParams](#) [subParams](#) = null
- boolean [TpmKeySubParams](#) [trouSerSmode](#) = false

6.161.1 Detailed Description

This class is for the TCG's TPM_KEY_PARMS structure. Several other TCG values are defined here, as it seems appropriate to do so at the time.

Author

schawki

6.161.2 Constructor & Destructor Documentation

6.161.2.1 gov.niarl.his.privacyca.TpmKeyParams.TpmKeyParams ()

Create a new TpmKeyParams with no default values set.

6.161.2.2 gov.niarl.his.privacyca.TpmKeyParams.TpmKeyParams ([ByteArrayInputStream](#) *source*) throws [TpmUtils.TpmUnsignedConversionException](#), [TpmUtils.TpmBytestreamResouceException](#)

Create a new [TpmKeyParams](#) by extracting values from a [ByteArrayInputStream](#).

Parameters

<i>source</i>	The InputStream .
---------------	-----------------------------------

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>TpmUtils.TpmBytestreamResouceException</i>	

6.161.2.3 gov.niarl.his.privacyca.TpmKeyParams.TpmKeyParams ()

Create a new TpmKeyParams with no default values set.

6.161.2.4 `gov.niarl.his.privacyca.TpmKeyParams.TpmKeyParams (ByteArrayInputStream source)` throws `TpmUtils.TpmUnsignedConversionException`, `TpmUtils.TpmBytestreamResouceException`

Create a new [TpmKeyParams](#) by extracting values from a `ByteArrayInputStream`.

Parameters

<i>source</i>	The <code>InputStream</code> .
---------------	--------------------------------

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>TpmUtils.TpmBytestreamResouceException</i>	

6.161.3 Member Function Documentation

6.161.3.1 `static String gov.niarl.his.privacyca.TpmKeyParams.algToString (int alg)` [`static`]

Given an algorithm, return the text string. Useful for debugging and logging.

Parameters

<i>alg</i>	
------------	--

Returns

6.161.3.2 `static String gov.niarl.his.privacyca.TpmKeyParams.algToString (int alg)` [`static`]

Given an algorithm, return the text string. Useful for debugging and logging.

Parameters

<i>alg</i>	
------------	--

Returns

6.161.3.3 `static String gov.niarl.his.privacyca.TpmKeyParams.esToString (short es, boolean TrouSerSmode)` [`static`]

Given an encryption scheme, return the string. Useful for debugging and logging.

Parameters

<i>es</i>	
<i>TrouSerSmode</i>	

Returns

6.161.3.4 `static String gov.niarl.his.privacyca.TpmKeyParams.esToString (short es, boolean TrouSerSmode)` `[static]`

Given an encryption scheme, return the string. Useful for debugging and logging.

Parameters

<i>es</i>	
<i>TrouSerSmode</i>	

Returns

6.161.3.5 `int gov.niarl.his.privacyca.TpmKeyParams.getAlgorithmId ()`

Returns

The current algorithm ID value.

6.161.3.6 `int gov.niarl.his.privacyca.TpmKeyParams.getAlgorithmId ()`

Returns

The current algorithm ID value.

6.161.3.7 `short gov.niarl.his.privacyca.TpmKeyParams.getEncScheme ()`

Returns

The current encryption scheme value.

6.161.3.8 `short gov.niarl.his.privacyca.TpmKeyParams.getEncScheme ()`

Returns

The current encryption scheme value.

6.161.3.9 `short gov.niarl.his.privacyca.TpmKeyParams.getSigScheme ()`

Returns

The current signature scheme.

6.161.3.10 `short gov.niarl.his.privacyca.TpmKeyParams.getSigScheme ()`

Returns

The current signature scheme.

6.161.3.11 `TpmKeySubParams gov.niarl.his.privacyca.TpmKeyParams.getSubParams ()`

Returns

The currently assigned [TpmKeySubParams](#). Will be `null`, or a [TpmRsaKeyParams](#) or [TpmSymmetricKeyParams](#) structure.

6.161.3.12 **TpmKeySubParams** gov.niarl.his.privacyca.TpmKeyParams.getSubParams ()

Returns

The currently assigned [TpmKeySubParams](#). Will be **null**, or a [TpmRsaKeyParams](#) or [TpmSymmetricKeyParams](#) structure.

6.161.3.13 **boolean** gov.niarl.his.privacyca.TpmKeyParams.getTrouSerSmode ()

Returns

The current state of TrouSerS mode for this key params structure.

6.161.3.14 **boolean** gov.niarl.his.privacyca.TpmKeyParams.getTrouSerSmode ()

Returns

The current state of TrouSerS mode for this key params structure.

6.161.3.15 **void** gov.niarl.his.privacyca.TpmKeyParams.setAlgorithmId (int *newAlgId*)

Set a new algorithm ID value;

Parameters

<i>newAlgId</i>	The new value.
-----------------	----------------

6.161.3.16 **void** gov.niarl.his.privacyca.TpmKeyParams.setAlgorithmId (int *newAlgId*)

Set a new algorithm ID value;

Parameters

<i>newAlgId</i>	The new value.
-----------------	----------------

6.161.3.17 **void** gov.niarl.his.privacyca.TpmKeyParams.setEncScheme (short *newEncScheme*)

Set a new encryption scheme value;

Parameters

<i>newEncScheme</i>	The new value.
---------------------	----------------

6.161.3.18 **void** gov.niarl.his.privacyca.TpmKeyParams.setEncScheme (short *newEncScheme*)

Set a new encryption scheme value;

Parameters

<i>newEncScheme</i>	The new value.
---------------------	----------------

6.161.3.19 void gov.niarl.his.privacyca.TpmKeyParams.setSigScheme (short *newSigScheme*)

Set a new signature scheme value.

Parameters

<i>newSigScheme</i>	The new value.
---------------------	----------------

6.161.3.20 void gov.niarl.his.privacyca.TpmKeyParams.setSigScheme (short *newSigScheme*)

Set a new signature scheme value.

Parameters

<i>newSigScheme</i>	The new value.
---------------------	----------------

6.161.3.21 void gov.niarl.his.privacyca.TpmKeyParams.setSubParams (TpmKeySubParams *newSubParams*)

Set a new [TpmKeySubParams](#) structure.

Parameters

<i>newSubParams</i>	The new TpmRsaKeyParams or TpmSymmetricKeyParams structure.
---------------------	---

6.161.3.22 void gov.niarl.his.privacyca.TpmKeyParams.setSubParams (TpmKeySubParams *newSubParams*)

Set a new [TpmKeySubParams](#) structure.

Parameters

<i>newSubParams</i>	The new TpmRsaKeyParams or TpmSymmetricKeyParams structure.
---------------------	---

6.161.3.23 void gov.niarl.his.privacyca.TpmKeyParams.setTrouSerSmode (boolean *state*)

Manually set TrouSerS mode. **True** means that the symmetric IV will appear at the beginning of a symmetrically encrypted blob, while **false** means that it will appear within a SymmetricKeyParams structure. This value is used when determining the format of the byte arrays that are passed back from the Privacy CA. By default the Privacy CA will set this value based on the format of the incoming identity request.

Parameters

<i>state</i>	
--------------	--

6.161.3.24 void gov.niarl.his.privacyca.TpmKeyParams.setTrouSerSmode (boolean *state*)

Manually set TrouSerS mode. **True** means that the symmetric IV will appear at the beginning of a symmetrically encrypted blob, while **false** means that it will appear within a SymmetricKeyParams structure. This value is used when determining the format of the byte arrays that are passed back from the Privacy CA. By default the Privacy CA will set this value based on the format of the incoming identity request.

Parameters

<i>state</i>	
--------------	--

6.161.3.25 `static String gov.niarl.his.privacyca.TpmKeyParams.ssToString (short ss)` [*static*]

Given a signature scheme, return the string. Useful for debugging and logging.

Parameters

<i>ss</i>	
-----------	--

Returns

6.161.3.26 `static String gov.niarl.his.privacyca.TpmKeyParams.ssToString (short ss)` [*static*]

Given a signature scheme, return the string. Useful for debugging and logging.

Parameters

<i>ss</i>	
-----------	--

Returns

6.161.3.27 `byte [] gov.niarl.his.privacyca.TpmKeyParams.toByteArray ()` throws `TpmUtils.TpmUnsignedConversionException`

Assemble the KeyParams structure into a byte array.

Returns

The byte array.

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
--	--

6.161.3.28 `byte [] gov.niarl.his.privacyca.TpmKeyParams.toByteArray ()` throws `TpmUtils.TpmUnsignedConversionException`

Assemble the KeyParams structure into a byte array.

Returns

The byte array.

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
--	--

6.161.3.29 String gov.niarl.his.privacyca.TpmKeyParams.toString ()

Returns

A String representing a human-readable report of the Key Params.

6.161.3.30 String gov.niarl.his.privacyca.TpmKeyParams.toString ()

Returns

A String representing a human-readable report of the Key Params.

6.161.4 Member Data Documentation

6.161.4.1 int gov.niarl.his.privacyca.TpmKeyParams.algorithmId [private]

6.161.4.2 short gov.niarl.his.privacyca.TpmKeyParams.encScheme [private]

6.161.4.3 short gov.niarl.his.privacyca.TpmKeyParams.sigScheme [private]

6.161.4.4 TpmKeySubParams gov.niarl.his.privacyca.TpmKeyParams.subParams = null [private]

6.161.4.5 static final int gov.niarl.his.privacyca.TpmKeyParams.TPM_ALG_3DES = 0x3 [static]

6.161.4.6 static final int gov.niarl.his.privacyca.TpmKeyParams.TPM_ALG_AES = 0x6 [static]

6.161.4.7 static final int gov.niarl.his.privacyca.TpmKeyParams.TPM_ALG_AES128 = TPM_ALG_AES [static]

6.161.4.8 static final int gov.niarl.his.privacyca.TpmKeyParams.TPM_ALG_AES192 = 0x8 [static]

6.161.4.9 static final int gov.niarl.his.privacyca.TpmKeyParams.TPM_ALG_AES256 = 0x9 [static]

6.161.4.10 static final int gov.niarl.his.privacyca.TpmKeyParams.TPM_ALG_DES = 0x2 [static]

6.161.4.11 static final int gov.niarl.his.privacyca.TpmKeyParams.TPM_ALG_HMAC = 0x5 [static]

6.161.4.12 static final int gov.niarl.his.privacyca.TpmKeyParams.TPM_ALG_MGF1 = 0x7 [static]

6.161.4.13 static final int gov.niarl.his.privacyca.TpmKeyParams.TPM_ALG_RSA = 0x1 [static]

6.161.4.14 static final int gov.niarl.his.privacyca.TpmKeyParams.TPM_ALG_SHA = 0x4 [static]

6.161.4.15 static final int gov.niarl.his.privacyca.TpmKeyParams.TPM_ALG_XOR = 0xa [static]

6.161.4.16 static final short gov.niarl.his.privacyca.TpmKeyParams.TPM_ES_NONE = 0x1 [static]

6.161.4.17 static final short gov.niarl.his.privacyca.TpmKeyParams.TPM_ES_RSAESOAEP_SHA1_MGF1 = 0x3 [static]

6.161.4.18 static final short gov.niarl.his.privacyca.TpmKeyParams.TPM_ES_RSAESPKCSv15 = 0x2 [static]

6.161.4.19 static final short gov.niarl.his.privacyca.TpmKeyParams.TPM_ES_SYM_CBC_PKCS5PAD = 0xff [static]

6.161.4.20 static final short gov.niarl.his.privacyca.TpmKeyParams.TPM_ES_SYM_CNT = 0x4 [static]

6.161.4.21 static final short gov.niarl.his.privacyca.TpmKeyParams.TPM_ES_SYM_OFB = 0x5 [static]

- 6.161.4.22 `static final short gov.niarl.his.privacyca.TpmKeyParams.TPM_SS_NONE = 0x1` `[static]`
- 6.161.4.23 `static final short gov.niarl.his.privacyca.TpmKeyParams.TPM_SS_RSASAPKCS1v15_DER = 3` `[static]`
- 6.161.4.24 `static final short gov.niarl.his.privacyca.TpmKeyParams.TPM_SS_RSASAPKCS1v15_INFO = 4` `[static]`
- 6.161.4.25 `static final short gov.niarl.his.privacyca.TpmKeyParams.TPM_SS_RSASAPKCS1v15_SHA1 = 2` `[static]`
- 6.161.4.26 `boolean gov.niarl.his.privacyca.TpmKeyParams.TrouSerSmode = false` `[private]`

6.162 gov.niarl.his.privacyca.TpmKeySubParams Interface Reference

Inheritance diagram for gov.niarl.his.privacyca.TpmKeySubParams:



Public Member Functions

- `int getKeyLength ()`
- `void setKeyLength (int newValue)`
- `int getValueData ()`
- `void setValueData (int newValue)`
- `byte[] getByteData ()`
- `void setByteData (byte[] newValue)`
- `byte[] toByteArray ()` throws `TpmUtils.TpmUnsignedConversionException`
- `String toString ()`
- `int getKeyLength ()`
- `void setKeyLength (int newValue)`
- `int getValueData ()`
- `void setValueData (int newValue)`
- `byte[] getByteData ()`
- `void setByteData (byte[] newValue)`
- `byte[] toByteArray ()` throws `TpmUtils.TpmUnsignedConversionException`
- `String toString ()`

6.162.1 Detailed Description

Interface for the sub-parameters, as used in a `TPM_KEY_PARMS` structure. This interface is implemented by [TpmRsaKeyParams](#) and [TpmSymmetricKeyParams](#).

Author

schawki

6.162.2 Member Function Documentation

6.162.2.1 `byte [] gov.niarl.his.privacyca.TpmKeySubParams.getByteData ()`

Implemented in [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#), and [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#).

6.162.2.2 `byte [] gov.niarl.his.privacyca.TpmKeySubParams.getBytesData ()`

Implemented in [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#), and [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#).

6.162.2.3 `int gov.niarl.his.privacyca.TpmKeySubParams.getKeyLength ()`

Implemented in [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#), and [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#).

6.162.2.4 `int gov.niarl.his.privacyca.TpmKeySubParams.getKeyLength ()`

Implemented in [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#), and [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#).

6.162.2.5 `int gov.niarl.his.privacyca.TpmKeySubParams.getValueData ()`

Implemented in [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#), and [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#).

6.162.2.6 `int gov.niarl.his.privacyca.TpmKeySubParams.getValueData ()`

Implemented in [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#), and [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#).

6.162.2.7 `void gov.niarl.his.privacyca.TpmKeySubParams.setByteData (byte[] newValue)`

Implemented in [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#), and [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#).

6.162.2.8 `void gov.niarl.his.privacyca.TpmKeySubParams.setByteData (byte[] newValue)`

Implemented in [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#), and [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#).

6.162.2.9 `void gov.niarl.his.privacyca.TpmKeySubParams.setKeyLength (int newValue)`

Implemented in [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#), and [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#).

6.162.2.10 `void gov.niarl.his.privacyca.TpmKeySubParams.setKeyLength (int newValue)`

Implemented in [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#), and [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#).

6.162.2.11 `void gov.niarl.his.privacyca.TpmKeySubParams.setValueData (int newValue)`

Implemented in [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#), and [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#).

6.162.2.12 `void gov.niarl.his.privacyca.TpmKeySubParams.setValueData (int newValue)`

Implemented in [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#), and [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#).

6.162.2.13 `byte [] gov.niarl.his.privacyca.TpmKeySubParams.toByteArray ()` throws `TpmUtils.TpmUnsignedConversionException`

Implemented in [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#), [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#), [gov.niarl.his.privacyca.TpmRsaKeyParams](#), and [gov.niarl.his.privacyca.TpmRsaKeyParams](#).

6.162.2.14 `byte [] gov.niarl.his.privacyca.TpmKeySubParams.toByteArray ()` throws `TpmUtils.TpmUnsignedConversionException`

Implemented in [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#), [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#), [gov.niarl.his.privacyca.TpmRsaKeyParams](#), and [gov.niarl.his.privacyca.TpmRsaKeyParams](#).

6.162.2.15 `String gov.niarl.his.privacyca.TpmKeySubParams.toString ()`

Implemented in [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#), and [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#).

6.162.2.16 `String gov.niarl.his.privacyca.TpmKeySubParams.toString ()`

Implemented in [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmRsaKeyParams](#), [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#), and [gov.niarl.his.privacyca.TpmSymmetricKeyParams](#).

6.163 gov.niarl.his.privacyca.TpmModule Class Reference

Static Public Member Functions

- static void [takeOwnership](#) (byte[] ownerAuth, byte[] nonce) throws `IOException`, `TpmModuleException`
- static void [clearOwnership](#) (byte[] ownerAuth) throws `IOException`, `TpmModuleException`
- static [TpmIdentity collateIdentityRequest](#) (byte[] ownerAuth, byte[] keyAuth, String keyLabel, byte[] pcaPubKeyBlob, int keyIndex, X509Certificate endorsmentCredential, boolean useECinNvram) throws `IOException`, `TpmModuleException`, `CertificateEncodingException`
- static byte[] [activateIdentity](#) (byte[] ownerAuth, byte[] keyAuth, byte[] asymCaContents, byte[] symCaAttestation, int keyIndex) throws `IOException`, `TpmModuleException`
- static [TpmIntegrityReport quote](#) (byte[] keyAuth, byte[] nonce, byte[] mask, int keyIndex) throws `IllegalArgumentException`, `IOException`, `TpmModuleException`
- static byte[] [createRevocableEndorsementKey](#) (byte[] ownerAuth, byte[] resetData, byte[] nonce, int keyIndex) throws `IOException`, `TpmModuleException`
- static void [revokeRevocableEndorsementKey](#) (byte[] ownerAuth, byte[] resetData) throws `IOException`, `TpmModuleException`
- static [TpmKey createKey](#) (String keyType, byte[] keyAuth, int keyIndex) throws `IOException`, `TpmModuleException`, `TpmBytestreamResourceException`, `TpmUnsignedConversionException`
- static void [setKey](#) (String keyType, byte[] keyAuth, byte[] keyBlob, int keyIndex) throws `IOException`, `TpmModuleException`
- static [TpmKey getKey](#) (String keyType, int keyIndex, byte[] keyAuth) throws `IOException`, `TpmModuleException`, `TpmBytestreamResourceException`, `TpmUnsignedConversionException`
- static byte[] [getEndorsementKeyModulus](#) (byte[] ownerAuth, byte[] nonce) throws `IOException`, `TpmModuleException`
- static void [clearKey](#) (String keyType, byte[] keyAuth, int keyIndex) throws `IOException`, `TpmModuleException`

- static void [setCredential](#) (byte[] ownerAuth, String credType, byte[] credBlob) throws IOException, TpmModuleException
- static byte[] [getCredential](#) (byte[] ownerAuth, String credType) throws IOException, TpmModuleException
- static void [clearCredential](#) (byte[] ownerAuth, String credType) throws IOException, TpmModuleException
- static byte[] [seal](#) (byte[] blob, byte[] blobAuth, byte[] mask) throws IOException, TpmModuleException
- static byte[] [unseal](#) (byte[] blob, byte[] blobAuth) throws IOException, TpmModuleException
- static byte[] [bind](#) (byte[] blob, byte[] blobAuth, byte[] keyAuth, int keyIndex) throws IOException, TpmModuleException
- static byte[] [unbind](#) (byte[] blob, byte[] blobAuth, byte[] keyAuth, int keyIndex) throws IOException, TpmModuleException
- static byte[] [sealBind](#) (byte[] blob, byte[] blobAuth, byte[] keyAuth, int keyIndex, byte[] mask) throws IOException, TpmModuleException
- static byte[] [unsealUnbind](#) (byte[] blob, byte[] blobAuth, byte[] keyAuth, int keyIndex) throws IOException, TpmModuleException
- static byte[] [getRandomInteger](#) (int numBytes) throws IOException, TpmModuleException
- static byte[] [sign](#) (byte[] blob, byte[] keyAuth, int keyIndex) throws IOException, TpmModuleException

Static Private Member Functions

- static commandLineResult [executeVer2Command](#) (int mode, String args, int returnCount, boolean useTrousersMode) throws IOException

6.163.1 Detailed Description

The [TpmModule](#) class is a Java front end for C++ utilities that work directly with the TSS for interfacing with the TPM.

Author

schawki

6.163.2 Member Function Documentation

- 6.163.2.1 static byte [] gov.niarl.his.privacyca.TpmModule.activateIdentity (byte[] *ownerAuth*, byte[] *keyAuth*, byte[] *asymCaContents*, byte[] *symCaAttestation*, int *keyIndex*) throws IOException, TpmModuleException
[static]

Parameters

<i>ownerAuth</i>	
<i>keyAuth</i>	
<i>asymCaContents</i>	
<i>symCaAttestation</i>	
<i>keyIndex</i>	

Returns

Exceptions

<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.2 static byte [] gov.niarl.his.privacyca.TpmModule.bind (byte[] *blob*, byte[] *blobAuth*, byte[] *keyAuth*, int *keyIndex*) throws IOException, TpmModuleException [static]

Parameters

<i>blob</i>	
<i>blobAuth</i>	
<i>keyAuth</i>	
<i>keyIndex</i>	

Returns**Exceptions**

<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.3 static void gov.niarl.his.privacyca.TpmModule.clearCredential (byte[] *ownerAuth*, String *credType*) throws IOException, TpmModuleException [static]

Parameters

<i>ownerAuth</i>	
<i>credType</i>	

Exceptions

<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.4 static void gov.niarl.his.privacyca.TpmModule.clearKey (String *keyType*, byte[] *keyAuth*, int *keyIndex*) throws IOException, TpmModuleException [static]

Parameters

<i>keyType</i>	
<i>keyAuth</i>	
<i>keyIndex</i>	

Exceptions

<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.5 static void gov.niarl.his.privacyca.TpmModule.clearOwnership (byte[] *ownerAuth*) throws IOException, TpmModuleException [static]

Parameters

<i>ownerAuth</i>	
------------------	--

Exceptions

<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.6 static **TpmIdentity** gov.niarl.his.privacyca.TpmModule.collatIdentityRequest (byte[] *ownerAuth*, byte[] *keyAuth*, String *keyLabel*, byte[] *pcaPubKeyBlob*, int *keyIndex*, X509Certificate *endorsementCredential*, boolean *useECinNvram*) throws *IOException*, *TpmModuleException*, *CertificateEncodingException* [static]

Parameters

<i>ownerAuth</i>	
<i>keyAuth</i>	
<i>keyLabel</i>	
<i>pcaPubKeyBlob</i>	
<i>keyIndex</i>	
<i>endorsement-Credential</i>	
<i>useECinNvram</i>	

Returns

Exceptions

<i>IOException</i>	
<i>TpmModuleException</i>	
<i>CertificateEncodingException</i>	

6.163.2.7 static **TpmKey** gov.niarl.his.privacyca.TpmModule.createKey (String *keyType*, byte[] *keyAuth*, int *keyIndex*) throws *IOException*, *TpmModuleException*, *TpmBytestreamResouceException*, *TpmUnsignedConversionException* [static]

Parameters

<i>keyType</i>	
<i>keyAuth</i>	
<i>keyIndex</i>	

Returns

Exceptions

<i>IOException</i>	
<i>TpmModuleException</i>	
<i>TpmBytestreamResouce-Exception</i>	
<i>TpmUnsignedConversion-Exception</i>	

6.163.2.8 static byte [] gov.niarl.his.privacyca.TpmModule.createRevocableEndorsementKey (byte[] *ownerAuth*, byte[] *resetData*, byte[] *nonce*, int *keyIndex*) throws IOException, TpmModuleException [static]

Parameters

<i>ownerAuth</i>	
<i>resetData</i>	
<i>nonce</i>	
<i>keyIndex</i>	

Returns**Exceptions**

<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.9 static commandLineResult gov.niarl.his.privacyca.TpmModule.executeVer2Command (int *mode*, String *args*, int *returnCount*, boolean *useTrousersMode*) throws IOException [static],[private]

Parameters

<i>mode</i>	
<i>args</i>	
<i>returnCount</i>	
<i>useTrousers- Mode</i>	

Returns**Exceptions**

<i>IOException</i>	
--------------------	--

6.163.2.10 static byte [] gov.niarl.his.privacyca.TpmModule.getCredential (byte[] *ownerAuth*, String *credType*) throws IOException, TpmModuleException [static]

Parameters

<i>ownerAuth</i>	
<i>credType</i>	

Returns**Exceptions**

<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.11 static byte [] gov.niarl.his.privacyca.TpmModule.getEndorsementKeyModulus (byte[] *ownerAuth*, byte[] *nonce*)
throws IOException, TpmModuleException [static]

Parameters

<i>ownerAuth</i>	
<i>nonce</i>	

Returns

Exceptions

<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.12 static TpmKey gov.niarl.his.privacyca.TpmModule.getKey (String *keyType*, int *keyIndex*, byte[] *keyAuth*) throws
IOException, TpmModuleException, TpmBytestreamResouceException, TpmUnsignedConversionException
[static]

Parameters

<i>keyType</i>	
<i>keyIndex</i>	
<i>keyAuth</i>	

Returns

Exceptions

<i>IOException</i>	
<i>TpmModuleException</i>	
<i>TpmBytestreamResouce- Exception</i>	
<i>TpmUnsignedConversion- Exception</i>	

6.163.2.13 static byte [] gov.niarl.his.privacyca.TpmModule.getRandomInteger (int *numBytes*) throws IOException,
TpmModuleException [static]

Parameters

<i>numBytes</i>	
-----------------	--

Returns

Exceptions

<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.14 static **TpmIntegrityReport** gov.niarl.his.privacyca.TpmModule.quote (byte[] *keyAuth*, byte[] *nonce*, byte[] *mask*, int *keyIndex*) throws **IllegalArgumentException**, **IOException**, **TpmModuleException** [static]

Parameters

<i>keyAuth</i>	
<i>nonce</i>	
<i>mask</i>	
<i>keyIndex</i>	

Returns**Exceptions**

<i>IllegalArgumentException</i>	
<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.15 static void gov.niarl.his.privacyca.TpmModule.revokeRevocableEndorsementKey (byte[] *ownerAuth*, byte[] *resetData*) throws **IOException**, **TpmModuleException** [static]

Parameters

<i>ownerAuth</i>	
<i>resetData</i>	

Exceptions

<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.16 static byte [] gov.niarl.his.privacyca.TpmModule.seal (byte[] *blob*, byte[] *blobAuth*, byte[] *mask*) throws **IOException**, **TpmModuleException** [static]

Parameters

<i>blob</i>	
<i>blobAuth</i>	
<i>mask</i>	

Returns**Exceptions**

<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.17 static byte [] gov.niarl.his.privacyca.TpmModule.sealBind (byte[] *blob*, byte[] *blobAuth*, byte[] *keyAuth*, int *keyIndex*, byte[] *mask*) throws **IOException**, **TpmModuleException** [static]

Parameters

<i>blob</i>	
<i>blobAuth</i>	
<i>keyAuth</i>	
<i>keyIndex</i>	
<i>mask</i>	

Returns

Exceptions

<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.18 static void gov.niarl.his.privacyca.TpmModule.setCredential (byte[] *ownerAuth*, String *credType*, byte[] *credBlob*) throws IOException, TpmModuleException [static]

Parameters

<i>ownerAuth</i>	
<i>credType</i>	
<i>credBlob</i>	

Exceptions

<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.19 static void gov.niarl.his.privacyca.TpmModule.setKey (String *keyType*, byte[] *keyAuth*, byte[] *keyBlob*, int *keyIndex*) throws IOException, TpmModuleException [static]

Parameters

<i>keyType</i>	
<i>keyAuth</i>	
<i>keyBlob</i>	
<i>keyIndex</i>	

Exceptions

<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.20 static byte [] gov.niarl.his.privacyca.TpmModule.sign (byte[] *blob*, byte[] *keyAuth*, int *keyIndex*) throws IOException, TpmModuleException [static]

Parameters

<i>blob</i>	
<i>keyAuth</i>	
<i>keyIndex</i>	

Returns

Exceptions

<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.21 static void gov.niarl.his.privacyca.TpmModule.takeOwnership (byte[] *ownerAuth*, byte[] *nonce*) throws
IOException, TpmModuleException [static]

Parameters

<i>ownerAuth</i>	
<i>nonce</i>	

Exceptions

<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.22 static byte [] gov.niarl.his.privacyca.TpmModule.unbind (byte[] *blob*, byte[] *blobAuth*, byte[] *keyAuth*, int *keyIndex*
) throws IOException, TpmModuleException [static]

Parameters

<i>blob</i>	
<i>blobAuth</i>	
<i>keyAuth</i>	
<i>keyIndex</i>	

Returns

Exceptions

<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.23 static byte [] gov.niarl.his.privacyca.TpmModule.unseal (byte[] *blob*, byte[] *blobAuth*) throws IOException,
TpmModuleException [static]

Parameters

<i>blob</i>	
<i>blobAuth</i>	

Returns

Exceptions

<i>IOException</i>	
<i>TpmModuleException</i>	

6.163.2.24 static byte [] gov.niarl.his.privacyca.TpmModule.unsealUnbind (byte[] *blob*, byte[] *blobAuth*, byte[] *keyAuth*, int *keyIndex*) throws IOException, TpmModuleException [static]

Parameters

<i>blob</i>	
<i>blobAuth</i>	
<i>keyAuth</i>	
<i>keyIndex</i>	

Returns

Exceptions

<i>IOException</i>	
<i>TpmModuleException</i>	

6.164 gov.niarl.his.privacyca.TpmPubKey Class Reference

Public Member Functions

- [TpmPubKey \(\)](#)
- [TpmPubKey \(RSAPublicKey pubKey, int encScheme, int sigscheme\)](#)
- [TpmPubKey \(byte\[\] newKey\)](#)
- [TpmPubKey \(ByteArrayInputStream source\)](#) throws TpmUtils.TpmUnsignedConversionException, TpmUtils.TpmBytestreamResouceException
- byte[] [getKeybytes \(\)](#)
- RSAPublicKey [getKey \(\)](#) throws NoSuchAlgorithmException, InvalidKeySpecException
- String [toString \(\)](#)
- byte[] [toByteArray \(\)](#) throws TpmUtils.TpmUnsignedConversionException
- [TpmPubKey \(\)](#)
- [TpmPubKey \(RSAPublicKey pubKey, int encScheme, int sigscheme\)](#)
- [TpmPubKey \(byte\[\] newKey\)](#)
- [TpmPubKey \(ByteArrayInputStream source\)](#) throws TpmUtils.TpmUnsignedConversionException, TpmUtils.TpmBytestreamResouceException
- byte[] [getKeybytes \(\)](#)
- RSAPublicKey [getKey \(\)](#) throws NoSuchAlgorithmException, InvalidKeySpecException
- String [toString \(\)](#)
- byte[] [toByteArray \(\)](#) throws TpmUtils.TpmUnsignedConversionException

Private Attributes

- [TpmKeyParams algorithm](#)
- byte[] [key](#)

6.164.1 Detailed Description

This class is for the TCG's TPM_PUBKEY structure.

Author

schawki

6.164.2 Constructor & Destructor Documentation

6.164.2.1 gov.niarl.his.privacyca.TpmPubKey.TpmPubKey ()

6.164.2.2 gov.niarl.his.privacyca.TpmPubKey.TpmPubKey (RSAPublicKey pubKey, int encScheme, int sigscheme)

Create new TPM_PUBKEY by specifying the public key, encryption scheme and signature scheme.

Parameters

<i>pubKey</i>	The RSA public key structure, containing the modulus and public exponent.
<i>encScheme</i>	The defined encryption scheme value.
<i>sigscheme</i>	The defined signature scheme value.

6.164.2.3 gov.niarl.his.privacyca.TpmPubKey.TpmPubKey (byte[] newKey)

Create a TPM_PUBKEY using the specified modulus. An default encryption scheme of 1 (TPM_ES_NONE) and signature scheme of 2 (TPM_SS_RSASSAPKCS1v15_SHA1) will be used.

Parameters

<i>newKey</i>	The new modulus in the form of a byte array.
---------------	--

6.164.2.4 gov.niarl.his.privacyca.TpmPubKey.TpmPubKey (ByteArrayInputStream source) throws TpmUtils.TpmUnsignedConversionException, TpmUtils.TpmBytestreamResouceException

Create a new TPM_PUBKEY by extracting it from a byte stream.

Parameters

<i>source</i>	The ByteArrayInputStream from which to extract the TPM_PUBKEY.
---------------	--

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>TpmUtils.TpmBytestreamResouceException</i>	

6.164.2.5 gov.niarl.his.privacyca.TpmPubKey.TpmPubKey ()

6.164.2.6 gov.niarl.his.privacyca.TpmPubKey.TpmPubKey (RSAPublicKey pubKey, int encScheme, int sigscheme)

Create new TPM_PUBKEY by specifying the public key, encryption scheme and signature scheme.

Parameters

<i>pubKey</i>	The RSA public key structure, containing the modulus and public exponent.
<i>encScheme</i>	The defined encryption scheme value.
<i>sigscheme</i>	The defined signature scheme value.

6.164.2.7 gov.niarl.his.privacyca.TpmPubKey.TpmPubKey (byte[] newKey)

Create a TPM_PUBKEY using the specified modulus. An default encryption scheme of 1 (TPM_ES_NONE) and signature scheme of 2 (TPM_SS_RSASSAPKCS1v15_SHA1) will be used.

Parameters

<i>newKey</i>	The new modulus in the form of a byte array.
---------------	--

6.164.2.8 gov.niarl.his.privacyca.TpmPubKey.TpmPubKey (ByteArrayInputStream source) throws TpmUtils.TpmUnsignedConversionException, TpmUtils.TpmBytestreamResouceException

Create a new TPM_PUBKEY by extracting it from a byte stream.

Parameters

<i>source</i>	The ByteArrayInputStream from which to extract the TPM_PUBKEY.
---------------	--

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>TpmUtils.TpmBytestreamResouceException</i>	

6.164.3 Member Function Documentation

6.164.3.1 RSAPublicKey gov.niarl.his.privacyca.TpmPubKey.getKey () throws NoSuchAlgorithmException, InvalidKeySpecException

Return an RSAPublicKey structure representing the key stored in this TPM_PUBKEY.

Returns

The RSAPublicKey.

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>InvalidKeySpecException</i>	

6.164.3.2 RSAPublicKey gov.niarl.his.privacyca.TpmPubKey.getKey () throws NoSuchAlgorithmException, InvalidKeySpecException

Return an RSAPublicKey structure representing the key stored in this TPM_PUBKEY.

Returns

The RSAPublicKey.

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>InvalidKeySpecException</i>	

6.164.3.3 `byte [] gov.niarl.his.privacyca.TpmPubKey.getKeybytes ()`

Get the RSA key modulus.

Returns

The modulus as a byte array.

6.164.3.4 `byte [] gov.niarl.his.privacyca.TpmPubKey.getKeybytes ()`

Get the RSA key modulus.

Returns

The modulus as a byte array.

6.164.3.5 `byte [] gov.niarl.his.privacyca.TpmPubKey.toByteArray ()` throws `TpmUtils.TpmUnsignedConversionException`

Returns

The serialized TPM_PUBKEY.

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
--	--

6.164.3.6 `byte [] gov.niarl.his.privacyca.TpmPubKey.toByteArray ()` throws `TpmUtils.TpmUnsignedConversionException`

Returns

The serialized TPM_PUBKEY.

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
--	--

6.164.3.7 `String gov.niarl.his.privacyca.TpmPubKey.toString ()`

Return a human-readable report of the TPM_PUBKEY.

Returns

The key report.

6.164.3.8 String gov.niarl.his.privacyca.TpmPubKey.toString ()

Return a human-readable report of the TPM_PUBKEY.

Returns

The key report.

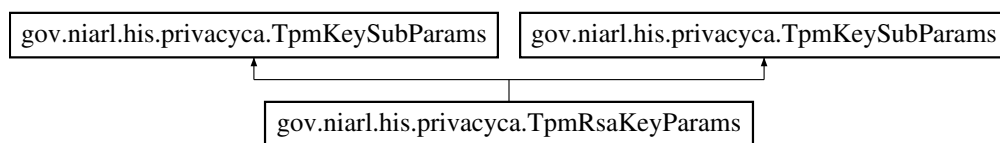
6.164.4 Member Data Documentation

6.164.4.1 **TpmKeyParams** gov.niarl.his.privacyca.TpmPubKey.algorithm [private]

6.164.4.2 **byte []** gov.niarl.his.privacyca.TpmPubKey.key [private]

6.165 gov.niarl.his.privacyca.TpmRsaKeyParams Class Reference

Inheritance diagram for gov.niarl.his.privacyca.TpmRsaKeyParams:

**Public Member Functions**

- [TpmRsaKeyParams](#) ()
- [TpmRsaKeyParams](#) (ByteArrayInputStream source, int length) throws TpmUtils.TpmUnsignedConversionException, TpmUtils.TpmBytestreamResouceException
- [byte\[\] toByteArray](#) () throws TpmUtils.TpmUnsignedConversionException
- [int getKeyLength](#) ()
- [void setKeyLength](#) (int newValue)
- [int getValueData](#) ()
- [void setValueData](#) (int newValue)
- [byte\[\] getByteData](#) ()
- [void setByteData](#) (byte[] newValue)
- [String toString](#) ()
- [TpmRsaKeyParams](#) ()
- [TpmRsaKeyParams](#) (ByteArrayInputStream source, int length) throws TpmUtils.TpmUnsignedConversionException, TpmUtils.TpmBytestreamResouceException
- [byte\[\] toByteArray](#) () throws TpmUtils.TpmUnsignedConversionException
- [int getKeyLength](#) ()
- [void setKeyLength](#) (int newValue)
- [int getValueData](#) ()
- [void setValueData](#) (int newValue)
- [byte\[\] getByteData](#) ()
- [void setByteData](#) (byte[] newValue)
- [String toString](#) ()

Public Attributes

- int [keyLength](#)
- int [numPrimes](#)
- byte[] [exponent](#)

Private Member Functions

- boolean [defaultExponent](#) ()
- boolean [defaultExponent](#) ()

6.165.1 Detailed Description

This class is for the TCG's TPM_RSA_KEY_PARMS structure. It extends the [TpmKeySubParams](#) interface.

Author

schawki

6.165.2 Constructor & Destructor Documentation

6.165.2.1 `gov.niarl.his.privacyca.TpmRsaKeyParams.TpmRsaKeyParams ()`

6.165.2.2 `gov.niarl.his.privacyca.TpmRsaKeyParams.TpmRsaKeyParams (ByteArrayInputStream source, int length)` throws `TpmUtils.TpmUnsignedConversionException`, `TpmUtils.TpmBytestreamResouceException`

Create a new RSAKeyParams by extracting it from a byte stream.

Parameters

<i>source</i>	The byte stream from which to extract.
<i>length</i>	The length of the RSA key params (just used to see if over 0).

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>TpmUtils.TpmBytestreamResouceException</i>	

6.165.2.3 `gov.niarl.his.privacyca.TpmRsaKeyParams.TpmRsaKeyParams ()`

6.165.2.4 `gov.niarl.his.privacyca.TpmRsaKeyParams.TpmRsaKeyParams (ByteArrayInputStream source, int length)` throws `TpmUtils.TpmUnsignedConversionException`, `TpmUtils.TpmBytestreamResouceException`

Create a new RSAKeyParams by extracting it from a byte stream.

Parameters

<i>source</i>	The byte stream from which to extract.
<i>length</i>	The length of the RSA key params (just used to see if over 0).

Exceptions

<i>TpmUtils.TpmUnsigned-ConversionException</i>	
<i>TpmUtils.TpmBytestream-ResouceException</i>	

6.165.3 Member Function Documentation

6.165.3.1 `boolean gov.niarl.his.privacyca.TpmRsaKeyParams.defaultExponent ()` [private]

Determine if the TCG-defined "default" public exponent is used for this key.

Returns

True if the exponent defined is $2^{16} + 1$ (65537 or 0x01 0x00 0x01).

6.165.3.2 `boolean gov.niarl.his.privacyca.TpmRsaKeyParams.defaultExponent ()` [private]

Determine if the TCG-defined "default" public exponent is used for this key.

Returns

True if the exponent defined is $2^{16} + 1$ (65537 or 0x01 0x00 0x01).

6.165.3.3 `byte [] gov.niarl.his.privacyca.TpmRsaKeyParams.getBytesData ()`

Returns

The exponent for this RSA key.

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.165.3.4 `byte [] gov.niarl.his.privacyca.TpmRsaKeyParams.getBytesData ()`

Returns

The exponent for this RSA key.

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.165.3.5 `int gov.niarl.his.privacyca.TpmRsaKeyParams.getKeyLength ()`

Returns

The length of the RSA key.

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.165.3.6 `int gov.niarl.his.privacyca.TpmRsaKeyParams.getKeyLength ()`

Returns

The length of the RSA key.

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.165.3.7 `int gov.niarl.his.privacyca.TpmRsaKeyParams.getValueData ()`

Returns

The number of primes.

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.165.3.8 `int gov.niarl.his.privacyca.TpmRsaKeyParams.getValueData ()`

Returns

The number of primes.

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.165.3.9 `void gov.niarl.his.privacyca.TpmRsaKeyParams.setByteData (byte[] newValue)`

Parameters

<i>newValue</i>	Set the RSA exponent to this byte array.
-----------------	--

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.165.3.10 `void gov.niarl.his.privacyca.TpmRsaKeyParams.setByteData (byte[] newValue)`

Parameters

<i>newValue</i>	Set the RSA exponent to this byte array.
-----------------	--

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.165.3.11 `void gov.niarl.his.privacyca.TpmRsaKeyParams.setKeyLength (int newValue)`

Set the RSA key length.

Parameters

<i>newValue</i>	The new key length, in bits.
-----------------	------------------------------

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.165.3.12 `void gov.niarl.his.privacyca.TpmRsaKeyParams.setKeyLength (int newValue)`

Set the RSA key length.

Parameters

<i>newValue</i>	The new key length, in bits.
-----------------	------------------------------

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.165.3.13 `void gov.niarl.his.privacyca.TpmRsaKeyParams.setValueData (int newValue)`

Set the number of primes for this RSA key params structure.

Parameters

<i>newValue</i>	The new number of primes.
-----------------	---------------------------

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.165.3.14 void gov.niarl.his.privacyca.TpmRsaKeyParams.setValueData (int *newValue*)

Set the number of primes for this RSA key params structure.

Parameters

<i>newValue</i>	The new number of primes.
-----------------	---------------------------

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.165.3.15 byte [] gov.niarl.his.privacyca.TpmRsaKeyParams.toByteArray () throws TpmUtils.TpmUnsignedConversion-Exception

Serialize the structure.

Returns

The serialized RSA key params structure.

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
--	--

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.165.3.16 byte [] gov.niarl.his.privacyca.TpmRsaKeyParams.toByteArray () throws TpmUtils.TpmUnsignedConversion-Exception

Serialize the structure.

Returns

The serialized RSA key params structure.

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
--	--

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.165.3.17 String gov.niarl.his.privacyca.TpmRsaKeyParams.toString ()

Creates a human-readable report of the RSA key parameters structure.

Returns

The report.

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.165.3.18 String gov.niarl.his.privacyca.TpmRsaKeyParams.toString ()

Creates a human-readable report of the RSA key parameters structure.

Returns

The report.

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.165.4 Member Data Documentation

6.165.4.1 byte [] gov.niarl.his.privacyca.TpmRsaKeyParams.exponent

6.165.4.2 int gov.niarl.his.privacyca.TpmRsaKeyParams.keyLength

6.165.4.3 int gov.niarl.his.privacyca.TpmRsaKeyParams.numPrimes

6.166 gov.niarl.his.privacyca.TpmSymCaAttestation Class Reference

Public Member Functions

- [TpmSymCaAttestation](#) ()
- void [setAikCredential](#) (byte[] cred)
- void [setAikCredential](#) (X509Certificate cred) throws CertificateEncodingException
- X509Certificate [getAikCredential](#) () throws CertificateException
- [TpmSymmetricKey](#) [encrypt](#) (int algMode, short encScheme, boolean TrousersModeIV, boolean TrousersModeSymkeyEncscheme) throws IOException, NoSuchAlgorithmException, NoSuchPaddingException, InvalidAlgorithmParameterException, InvalidKeyException, IllegalBlockSizeException, BadPaddingException, PrivacyCaException
- byte[] [toByteArray](#) () throws TpmUtils.TpmUnsignedConversionException
- [TpmSymCaAttestation](#) ()
- void [setAikCredential](#) (byte[] cred)
- void [setAikCredential](#) (X509Certificate cred) throws CertificateEncodingException
- X509Certificate [getAikCredential](#) () throws CertificateException
- [TpmSymmetricKey](#) [encrypt](#) (int algMode, short encScheme, boolean TrousersModeIV, boolean TrousersModeSymkeyEncscheme) throws IOException, NoSuchAlgorithmException, NoSuchPaddingException, InvalidAlgorithmParameterException, InvalidKeyException, IllegalBlockSizeException, BadPaddingException, PrivacyCaException
- byte[] [toByteArray](#) () throws TpmUtils.TpmUnsignedConversionException

Private Attributes

- [TpmKeyParams](#) algorithm
- byte[] [plainAikCred](#) = null
- byte[] [encAikCred](#)

6.166.1 Detailed Description

This class is for the TCG's TPM_SYM_CA_ATTESTATION structure.

Author

schawki

6.166.2 Constructor & Destructor Documentation

6.166.2.1 `gov.niarl.his.privacyca.TpmSymCaAttestation.TpmSymCaAttestation ()`

6.166.2.2 `gov.niarl.his.privacyca.TpmSymCaAttestation.TpmSymCaAttestation ()`

6.166.3 Member Function Documentation

6.166.3.1 **TpmSymmetricKey** `gov.niarl.his.privacyca.TpmSymCaAttestation.encrypt (int algMode, short encScheme, boolean TrousersModeIV, boolean TrousersModeSymkeyEncscheme)` throws `IOException`, `NoSuchAlgorithmException`, `NoSuchPaddingException`, `InvalidAlgorithmParameterException`, `InvalidKeyException`, `IllegalBlockSizeException`, `BadPaddingException`, `PrivacyCaException`

Encrypt the stored certificate using the specified options. A random key and IV are created.

Parameters

<i>algMode</i>	Not used. This parameter is left here to maintain compatibility. This value is hard coded to TPM_ALG_AES.
<i>encScheme</i>	Not used. This parameter is left here to maintain compatibility. This value is hard coded to TPM_ES_CBC_PKCS5PAD.
<i>TrousersModeIV</i>	Set to TRUE to use a TrouSerS-style initialization vector placement.
<i>TrousersMode-Symkey-Encscheme</i>	Set to TRUE to set the encryption scheme to TPM_ES_NONE. (Not all versions of TrouSerS use this scheme, but the only ones available in RedHat Yum repositories do.)

Returns

The symmetric key used to encrypt the certificate in the form of a [TpmSymmetricKey](#). The encrypted certificate itself is retrieved in raw byte format by running the [toByteArray\(\)](#) function.

Exceptions

<i>IOException</i>	
<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>InvalidAlgorithmParameter-Exception</i>	
<i>InvalidKeyException</i>	
<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	
PrivacyCaException	

6.166.3.2 TpmSymmetricKey gov.niarl.his.privacyca.TpmSymCaAttestation.encrypt (int *algMode*, short *encScheme*, boolean *TrousersModelIV*, boolean *TrousersModeSymkeyEncscheme*) throws IOException, NoSuchAlgorithmException, NoSuchPaddingException, InvalidAlgorithmParameterException, InvalidKeyException, IllegalBlockSizeException, BadPaddingException, PrivacyCaException

Encrypt the stored certificate using the specified options. A random key and IV are created.

Parameters

<i>algMode</i>	Not used. This parameter is left here to maintain compatibility. This value is hard coded to TPM_ALG_AES.
<i>encScheme</i>	Not used. This parameter is left here to maintain compatibility. This value is hard coded to TPM_ES_CBC_PKCS5PAD.
<i>TrousersModelIV</i>	Set to TRUE to use a TrouSerS-style initialization vector placement.
<i>TrousersMode-Symkey-Encscheme</i>	Set to TRUE to set the encryption scheme to TPM_ES_NONE. (Not all versions of TrouSerS use this scheme, but the only ones available in RedHat Yum repositories do.)

Returns

The symmetric key used to encrypt the certificate in the form of a [TpmSymmetricKey](#). The encrypted certificate itself is retrieved in raw byte format by running the [toByteArray\(\)](#) function.

Exceptions

<i>IOException</i>	
<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>InvalidAlgorithmParameter-Exception</i>	
<i>InvalidKeyException</i>	
<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	
PrivacyCaException	

6.166.3.3 X509Certificate gov.niarl.his.privacyca.TpmSymCaAttestation.getAikCredential () throws CertificateException

Returns

The stored AIK certificate in X509Certificate form.

Exceptions

<i>CertificateException</i>	
-----------------------------	--

6.166.3.4 X509Certificate gov.niarl.his.privacyca.TpmSymCaAttestation.getAikCredential () throws CertificateException

Returns

The stored AIK certificate in X509Certificate form.

Exceptions

<i>CertificateException</i>	
-----------------------------	--

6.166.3.5 void gov.niarl.his.privacyca.TpmSymCaAttestation.setAikCredential (byte[] cred)

Set the AIK certificate to be encrypted.

Parameters

cred	The AIK certificate in byte array form.
------	---

6.166.3.6 void gov.niarl.his.privacyca.TpmSymCaAttestation.setAikCredential (byte[] cred)

Set the AIK certificate to be encrypted.

Parameters

cred	The AIK certificate in byte array form.
------	---

6.166.3.7 void gov.niarl.his.privacyca.TpmSymCaAttestation.setAikCredential (X509Certificate cred) throws CertificateEncodingException

Set the AIK certificate to be encrypted.

Parameters

cred	The AIK certificate in X509Certificate form.
------	--

Exceptions

CertificateEncodingException	
------------------------------	--

6.166.3.8 void gov.niarl.his.privacyca.TpmSymCaAttestation.setAikCredential (X509Certificate cred) throws CertificateEncodingException

Set the AIK certificate to be encrypted.

Parameters

cred	The AIK certificate in X509Certificate form.
------	--

Exceptions

CertificateEncodingException	
------------------------------	--

6.166.3.9 byte [] gov.niarl.his.privacyca.TpmSymCaAttestation.toByteArray () throws TpmUtils.TpmUnsignedConversionException

Serialize the structure.

Returns

A byte array form of the [TpmSymCaAttestation](#) structure.

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
--	--

6.166.3.10 `byte [] gov.niarl.his.privacyca.TpmSymCaAttestation.toByteArray ()` throws `TpmUtils.TpmUnsignedConversionException`

Serialize the structure.

Returns

A byte array form of the [TpmSymCaAttestation](#) structure.

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
--	--

6.166.4 Member Data Documentation

6.166.4.1 `TpmKeyParams gov.niarl.his.privacyca.TpmSymCaAttestation.algorithm` [private]

6.166.4.2 `byte [] gov.niarl.his.privacyca.TpmSymCaAttestation.encAikCred` [private]

6.166.4.3 `byte [] gov.niarl.his.privacyca.TpmSymCaAttestation.plainAikCred = null` [private]

6.167 gov.niarl.his.privacyca.TpmSymmetricKey Class Reference

Public Member Functions

- [TpmSymmetricKey](#) ()
- [TpmSymmetricKey](#) (byte[] blob) throws `TpmUtils.TpmUnsignedConversionException`, `TpmUtils.Tpm-BytestreamResourceException`
- `SecretKeySpec` [getSecretKey](#) ()
- void [setSecretKey](#) (`SecretKeySpec` newKeySpec)
- int [getAlgorithmId](#) ()
- void [setAlgorithmId](#) (int newAlgId)
- String [getAlgorithmStr](#) ()
- short [getEncScheme](#) ()
- void [setEncScheme](#) (short newEncScheme)
- String [getEncSchemeStr](#) ()
- byte[] [getKeyBlob](#) ()
- void [setKeyBlob](#) (byte[] newKeyBlob)
- byte[] [toByteArray](#) () throws `TpmUtils.TpmUnsignedConversionException`
- [TpmSymmetricKey](#) ()
- [TpmSymmetricKey](#) (byte[] blob) throws `TpmUtils.TpmUnsignedConversionException`, `TpmUtils.Tpm-BytestreamResourceException`
- `SecretKeySpec` [getSecretKey](#) ()
- void [setSecretKey](#) (`SecretKeySpec` newKeySpec)
- int [getAlgorithmId](#) ()
- void [setAlgorithmId](#) (int newAlgId)
- String [getAlgorithmStr](#) ()
- short [getEncScheme](#) ()

- void [setEncScheme](#) (short newEncScheme)
- String [getEncSchemeStr](#) ()
- byte[] [getKeyBlob](#) ()
- void [setKeyBlob](#) (byte[] newKeyBlob)
- byte[] [toByteArray](#) () throws [TpmUtils.TpmUnsignedConversionException](#)

Private Attributes

- byte[] [keyBlob](#)
- int [algorithmId](#)
- short [encScheme](#)

6.167.1 Detailed Description

This class is for the TCG's TPM_SYMMETRIC_KEY structure.

Author

schawki

6.167.2 Constructor & Destructor Documentation

6.167.2.1 [gov.niarl.his.privacyca.TpmSymmetricKey.TpmSymmetricKey \(\)](#)

6.167.2.2 [gov.niarl.his.privacyca.TpmSymmetricKey.TpmSymmetricKey \(byte\[\] blob \)](#) throws [TpmUtils.TpmUnsignedConversionException](#), [TpmUtils.TpmBytestreamResouceException](#)

Instantiate a new [TpmSymmetricKey](#) from a byte array.

Parameters

<i>blob</i>	The key bytes to use.
-------------	-----------------------

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>TpmUtils.TpmBytestreamResouceException</i>	

6.167.2.3 [gov.niarl.his.privacyca.TpmSymmetricKey.TpmSymmetricKey \(\)](#)

6.167.2.4 [gov.niarl.his.privacyca.TpmSymmetricKey.TpmSymmetricKey \(byte\[\] blob \)](#) throws [TpmUtils.TpmUnsignedConversionException](#), [TpmUtils.TpmBytestreamResouceException](#)

Instantiate a new [TpmSymmetricKey](#) from a byte array.

Parameters

<i>blob</i>	The key bytes to use.
-------------	-----------------------

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>TpmUtils.TpmBytestreamResouceException</i>	

6.167.3 Member Function Documentation

6.167.3.1 `int gov.niarl.his.privacyca.TpmSymmetricKey.getAlgorithmId ()`

Returns

The algorithm ID defined for this symmetric key.

6.167.3.2 `int gov.niarl.his.privacyca.TpmSymmetricKey.getAlgorithmId ()`

Returns

The algorithm ID defined for this symmetric key.

6.167.3.3 `String gov.niarl.his.privacyca.TpmSymmetricKey.getAlgorithmStr ()`

Returns

Human-readable report of the [TpmSymmetricKey](#).

6.167.3.4 `String gov.niarl.his.privacyca.TpmSymmetricKey.getAlgorithmStr ()`

Returns

Human-readable report of the [TpmSymmetricKey](#).

6.167.3.5 `short gov.niarl.his.privacyca.TpmSymmetricKey.getEncScheme ()`

Returns

The set encryption scheme.

6.167.3.6 `short gov.niarl.his.privacyca.TpmSymmetricKey.getEncScheme ()`

Returns

The set encryption scheme.

6.167.3.7 `String gov.niarl.his.privacyca.TpmSymmetricKey.getEncSchemeStr ()`

Returns

The encryption scheme as a string.

6.167.3.8 String gov.niarl.his.privacyca.TpmSymmetricKey.getEncSchemeStr ()

Returns

The encryption scheme as a string.

6.167.3.9 byte [] gov.niarl.his.privacyca.TpmSymmetricKey.getKeyBlob ()

Returns

Symmetric key blob, as a byte array.

6.167.3.10 byte [] gov.niarl.his.privacyca.TpmSymmetricKey.getKeyBlob ()

Returns

Symmetric key blob, as a byte array.

6.167.3.11 SecretKeySpec gov.niarl.his.privacyca.TpmSymmetricKey.getSecretKey ()

Returns

The secret key in the form of a SecretKeySpec.

6.167.3.12 SecretKeySpec gov.niarl.his.privacyca.TpmSymmetricKey.getSecretKey ()

Returns

The secret key in the form of a SecretKeySpec.

6.167.3.13 void gov.niarl.his.privacyca.TpmSymmetricKey.setAlgorithmId (int newAlgId)

Set the algorithm ID for this symmetric key.

Parameters

<i>newAlgId</i>	New algorithm ID.
-----------------	-------------------

6.167.3.14 void gov.niarl.his.privacyca.TpmSymmetricKey.setAlgorithmId (int newAlgId)

Set the algorithm ID for this symmetric key.

Parameters

<i>newAlgId</i>	New algorithm ID.
-----------------	-------------------

6.167.3.15 void gov.niarl.his.privacyca.TpmSymmetricKey.setEncScheme (short newEncScheme)

Set the encryption scheme.

Parameters

<i>newEncScheme</i>	New encryption scheme.
---------------------	------------------------

6.167.3.16 void gov.niarl.his.privacyca.TpmSymmetricKey.setEncScheme (short *newEncScheme*)

Set the encryption scheme.

Parameters

<i>newEncScheme</i>	New encryption scheme.
---------------------	------------------------

6.167.3.17 void gov.niarl.his.privacyca.TpmSymmetricKey.setKeyBlob (byte[] *newKeyBlob*)

Set a new key symmetric key by byte blob.

Parameters

<i>newKeyBlob</i>	New key.
-------------------	----------

6.167.3.18 void gov.niarl.his.privacyca.TpmSymmetricKey.setKeyBlob (byte[] *newKeyBlob*)

Set a new key symmetric key by byte blob.

Parameters

<i>newKeyBlob</i>	New key.
-------------------	----------

6.167.3.19 void gov.niarl.his.privacyca.TpmSymmetricKey.setSecretKey (SecretKeySpec *newKeySpec*)

Set the secret key with a SecretKeySpec.

Parameters

<i>newKeySpec</i>	New secret key.
-------------------	-----------------

6.167.3.20 void gov.niarl.his.privacyca.TpmSymmetricKey.setSecretKey (SecretKeySpec *newKeySpec*)

Set the secret key with a SecretKeySpec.

Parameters

<i>newKeySpec</i>	New secret key.
-------------------	-----------------

6.167.3.21 byte [] gov.niarl.his.privacyca.TpmSymmetricKey.toByteArray () throws TpmUtils.TpmUnsignedConversion-Exception

Serialize the [TpmSymmetricKey](#) structure.

Returns

Byte array form of [TpmSymmetricKey](#).

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
--	--

6.167.3.22 `byte [] gov.niarl.his.privacyca.TpmSymmetricKey.toByteArray ()` throws `TpmUtils.TpmUnsignedConversionException`

Serialize the [TpmSymmetricKey](#) structure.

Returns

Byte array form of [TpmSymmetricKey](#).

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
--	--

6.167.4 Member Data Documentation

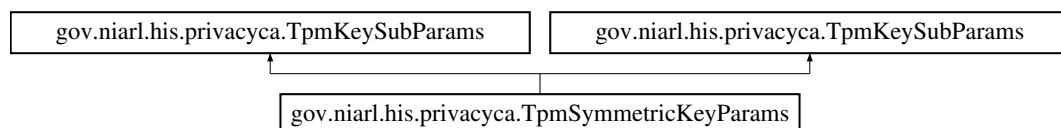
6.167.4.1 `int gov.niarl.his.privacyca.TpmSymmetricKey.algorithmId` [private]

6.167.4.2 `short gov.niarl.his.privacyca.TpmSymmetricKey.encScheme` [private]

6.167.4.3 `byte [] gov.niarl.his.privacyca.TpmSymmetricKey.keyBlob` [private]

6.168 gov.niarl.his.privacyca.TpmSymmetricKeyParams Class Reference

Inheritance diagram for gov.niarl.his.privacyca.TpmSymmetricKeyParams:



Public Member Functions

- [TpmSymmetricKeyParams](#) ()
- [TpmSymmetricKeyParams](#) (ByteArrayInputStream source, int length) throws `TpmUtils.TpmUnsignedConversionException`, `TpmUtils.TpmBytestreamResourceException`
- `int` [getKeyLength](#) ()
- `void` [setKeyLength](#) (int newValue)
- `int` [getValueData](#) ()
- `void` [setValueData](#) (int newValue)
- `byte[]` [getBytesData](#) ()
- `void` [setBytesData](#) (byte[] newValue)
- `String` [toString](#) ()
- `byte[]` [toByteArray](#) () throws `TpmUtils.TpmUnsignedConversionException`
- [TpmSymmetricKeyParams](#) ()
- [TpmSymmetricKeyParams](#) (ByteArrayInputStream source, int length) throws `TpmUtils.TpmUnsignedConversionException`, `TpmUtils.TpmBytestreamResourceException`

- int [getKeyLength](#) ()
- void [setKeyLength](#) (int newValue)
- int [getValueData](#) ()
- void [setValueData](#) (int newValue)
- byte[] [getBytesData](#) ()
- void [setByteData](#) (byte[] newValue)
- String [toString](#) ()
- byte[] [toByteArray](#) () throws `TpmUtils.TpmUnsignedConversionException`

Private Attributes

- int [keyLength](#) = 0
- int [blockSize](#) = 0
- byte[] [iv](#)

6.168.1 Detailed Description

This class is for the TCG's TPM_SYMMETRIC_KEY_PARMS structure.

Author

schawki

6.168.2 Constructor & Destructor Documentation

6.168.2.1 `gov.niarl.his.privacyca.TpmSymmetricKeyParams.TpmSymmetricKeyParams ()`

6.168.2.2 `gov.niarl.his.privacyca.TpmSymmetricKeyParams.TpmSymmetricKeyParams (ByteArrayInputStream source, int length)` throws `TpmUtils.TpmUnsignedConversionException`, `TpmUtils.TpmBytestreamResouceException`

Create a new [TpmSymmetricKeyParams](#) by extracting from a byte stream.

Parameters

<i>source</i>	The ByteArrayInputStream from which to extract the TpmSymmetricKey .
<i>length</i>	The number of bytes to extract

Exceptions

<i><code>TpmUtils.TpmUnsignedConversionException</code></i>	
<i><code>TpmUtils.TpmBytestreamResouceException</code></i>	

6.168.2.3 `gov.niarl.his.privacyca.TpmSymmetricKeyParams.TpmSymmetricKeyParams ()`

6.168.2.4 `gov.niarl.his.privacyca.TpmSymmetricKeyParams.TpmSymmetricKeyParams (ByteArrayInputStream source, int length)` throws `TpmUtils.TpmUnsignedConversionException`, `TpmUtils.TpmBytestreamResouceException`

Create a new [TpmSymmetricKeyParams](#) by extracting from a byte stream.

Parameters

<i>source</i>	The ByteArrayInputStream from which to extract the TpmSymmetricKey .
<i>length</i>	The number of bytes to extract

Exceptions

<i>TpmUtils.TpmUnsigned-ConversionException</i>	
<i>TpmUtils.TpmBytestream-ResouceException</i>	

6.168.3 Member Function Documentation

6.168.3.1 `byte [] gov.niarl.his.privacyca.TpmSymmetricKeyParams.getBytesData ()`

Returns

Initialization vector.

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.168.3.2 `byte [] gov.niarl.his.privacyca.TpmSymmetricKeyParams.getBytesData ()`

Returns

Initialization vector.

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.168.3.3 `int gov.niarl.his.privacyca.TpmSymmetricKeyParams.getKeyLength ()`

Returns

Key length in bytes.

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.168.3.4 `int gov.niarl.his.privacyca.TpmSymmetricKeyParams.getKeyLength ()`

Returns

Key length in bytes.

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.168.3.5 `int gov.niarl.his.privacyca.TpmSymmetricKeyParams.getValueData ()`

Returns

Encryption block size in bytes.

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.168.3.6 `int gov.niarl.his.privacyca.TpmSymmetricKeyParams.getValueData ()`

Returns

Encryption block size in bytes.

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.168.3.7 `void gov.niarl.his.privacyca.TpmSymmetricKeyParams.setByteData (byte[] newValue)`

Set initialization vector.

Parameters

<i>newValue</i>	New initialization vector.
-----------------	----------------------------

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.168.3.8 `void gov.niarl.his.privacyca.TpmSymmetricKeyParams.setByteData (byte[] newValue)`

Set initialization vector.

Parameters

<i>newValue</i>	New initialization vector.
-----------------	----------------------------

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.168.3.9 `void gov.niarl.his.privacyca.TpmSymmetricKeyParams.setKeyLength (int newValue)`

Set a new key length.

Parameters

<i>newValue</i>	New key length in bytes.
-----------------	--------------------------

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.168.3.10 `void gov.niarl.his.privacyca.TpmSymmetricKeyParams.setKeyLength (int newValue)`

Set a new key length.

Parameters

<i>newValue</i>	New key length in bytes.
-----------------	--------------------------

Implements [gov.niarl.his.privacyca.TpmKeySubParams](#).

6.168.3.11 `void gov.niarl.his.privacyca.TpmSymmetricKeyParams.setValueData (int newValue)`

Set encryption block size.

Parameters

<i>newValue</i>	New block size in bytes.
-----------------	--------------------------

Implements [gov.niari.his.privacyca.TpmKeySubParams](#).

6.168.3.12 void gov.niari.his.privacyca.TpmSymmetricKeyParams.setValueData (int *newValue*)

Set encryption block size.

Parameters

<i>newValue</i>	New block size in bytes.
-----------------	--------------------------

Implements [gov.niari.his.privacyca.TpmKeySubParams](#).

6.168.3.13 byte [] gov.niari.his.privacyca.TpmSymmetricKeyParams.toByteArray () throws
TpmUtils.TpmUnsignedConversionException

Returns

Serialized byte array form of [TpmSymmetricKeyParams](#).

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
--	--

Implements [gov.niari.his.privacyca.TpmKeySubParams](#).

6.168.3.14 byte [] gov.niari.his.privacyca.TpmSymmetricKeyParams.toByteArray () throws
TpmUtils.TpmUnsignedConversionException

Returns

Serialized byte array form of [TpmSymmetricKeyParams](#).

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
--	--

Implements [gov.niari.his.privacyca.TpmKeySubParams](#).

6.168.3.15 String gov.niari.his.privacyca.TpmSymmetricKeyParams.toString ()

Returns

Human readable report of [TpmSymmetricKeyParams](#).

Implements [gov.niari.his.privacyca.TpmKeySubParams](#).

6.168.3.16 String gov.niari.his.privacyca.TpmSymmetricKeyParams.toString ()

Returns

Human readable report of [TpmSymmetricKeyParams](#).

Implements [gov.niari.his.privacyca.TpmKeySubParams](#).

6.168.4 Member Data Documentation

6.168.4.1 `int gov.niarl.his.privacyca.TpmSymmetricKeyParams.blockSize = 0` [private]

6.168.4.2 `byte [] gov.niarl.his.privacyca.TpmSymmetricKeyParams.iv` [private]

6.168.4.3 `int gov.niarl.his.privacyca.TpmSymmetricKeyParams.keyLength = 0` [private]

6.169 gov.niarl.his.privacyca.TpmUtils Class Reference

Static Public Member Functions

- static `byte[]` [intToByteArray](#) (final `int` integer) throws `TpmUnsignedConversionException`
- static `byte[]` [shortToByteArray](#) (final `short` shortInt) throws `TpmUnsignedConversionException`
- static `int` [getUINT32](#) (`ByteArrayInputStream` source) throws `TpmUnsignedConversionException`, `Tpm-BytestreamResourceException`
- static `short` [getUINT16](#) (`ByteArrayInputStream` source) throws `TpmUnsignedConversionException`, `Tpm-BytestreamResourceException`
- static `byte[]` [getBytes](#) (`ByteArrayInputStream` source, `int` size) throws `TpmBytestreamResourceException`
- static `X509Certificate` [makeCert](#) ([TpmIdentityProof](#) idProof, `RSAPrivateKey` privKey, `X509Certificate` caCert, `int` validityDays, `int` level) throws `InvalidKeySpecException`, `NoSuchAlgorithmException`, `CertificateEncodingException`, `NoSuchProviderException`, `SignatureException`, `InvalidKeyException`
- static `String` [getTime](#) ()
- static `void` [createCaP12](#) (`int` keySize, `String` caName, `String` newP12Pass, `String` p12FileName, `int` validityDays) throws `NoSuchAlgorithmException`, `InvalidKeyException`, `IllegalStateException`, `SignatureException`, `KeyStoreException`, `java.security.cert.CertificateException`, `IOException`
- static `void` [createClientP12](#) (`int` keySize, `String` subjectName, `String` newP12Pass, `String` p12FileName, `int` validityDays, `X509Certificate` caCert, `RSAPrivateKey` caPrivKey) throws `NoSuchAlgorithmException`, `InvalidKeyException`, `IllegalStateException`, `SignatureException`, `KeyStoreException`, `java.security.cert.CertificateException`, `IOException`
- static `X509Certificate` [makeEkCert](#) (`byte[]` pubEkMod, `RSAPrivateKey` privKey, `X509Certificate` caCert, `int` validityDays) throws `NoSuchAlgorithmException`, `InvalidKeySpecException`, `SignatureException`, `NoSuchProviderException`, `InvalidKeyException`, `CertificateEncodingException`
- static `RSAPublicKey` [makePubKey](#) (`byte[]` modulus, `byte[]` exponent) throws `NoSuchAlgorithmException`, `-InvalidKeySpecException`
- static `RSAPrivateKey` [makePrivKey](#) (`byte[]` modulus, `byte[]` exponent) throws `NoSuchAlgorithmException`, `-InvalidKeySpecException`
- static `boolean` [verifyTPM](#) (`X509Certificate` ekCred)
- static `String` [byteArrayToString](#) (`byte[]` blob, `int` perLine)
- static `RSAPrivateKey` [privKeyFromP12](#) (`String` filename, `String` password) throws `KeyStoreException`, `-IOException`, `NoSuchAlgorithmException`, `UnrecoverableKeyException`, `javax.security.cert.CertificateException`, `java.security.cert.CertificateException`
- static `X509Certificate` [certFromP12](#) (`String` filename, `String` password) throws `KeyStoreException`, `-IOException`, `NoSuchAlgorithmException`, `javax.security.cert.CertificateException`, `java.security.cert.CertificateException`
- static `X509Certificate` [certFromFile](#) (`String` filename) throws `KeyStoreException`, `IOException`, `NoSuchAlgorithmException`, `javax.security.cert.CertificateException`, `java.security.cert.CertificateException`
- static `X509Certificate` [certFromBytes](#) (`byte[]` certBytes) throws `CertificateException`, `CertificateEncodingException`, `java.security.cert.CertificateException`
- static `idResponse ProcessIdentityRequest` (`byte[]` idRequestBlob, `RSAPrivateKey` caPrivKey, `X509Certificate` caPubCert, `int` validityDays) throws `PrivacyCaException`, `TpmUtils.TpmUnsignedConversionException`, `BadPaddingException`, `IllegalBlockSizeException`, `InvalidAlgorithmParameterException`, `NoSuchPaddingException`, `NoSuchAlgorithmException`, `InvalidKeyException`, `CertificateEncodingException`, `IOException`, `InvalidKeySpecException`, `SignatureException`, `NoSuchProviderException`, `javax.security.cert.CertificateException`, `java.security.cert.CertificateException`, `TpmUtils.TpmBytestreamResourceException`

- static X509Certificate [PartiallyProcessIdentityRequest](#) (byte[] idRequestBlob, RSAPrivateKey caPrivKey, X509Certificate caPubCert, int validityDays) throws PrivacyCaException, TpmUtils.TpmUnsignedConversionException, BadPaddingException, IllegalBlockSizeException, InvalidAlgorithmParameterException, NoSuchPaddingException, NoSuchAlgorithmException, InvalidKeyException, CertificateEncodingException, IOException, InvalidKeySpecException, SignatureException, NoSuchProviderException, javax.security.cert.CertificateException, java.security.cert.CertificateException, TpmUtils.TpmBytestreamResourceException
- static [TpmIdentityRequest createIdentityRequest](#) (String idLabel, RSAPublicKey caPubKey, boolean IV, boolean symKey, boolean oaep) throws TpmUtils.TpmUnsignedConversionException, NoSuchPaddingException, NoSuchAlgorithmException, InvalidAlgorithmParameterException, InvalidKeyException, BadPaddingException, IllegalBlockSizeException, IOException
- static byte[] [createRandomBytes](#) (int numBytes) throws IOException
- static String [PEMencodeCert](#) (X509Certificate cert) throws CertificateEncodingException
- static String [base64encode](#) (byte[] toEncode, boolean breakLines)
- static byte[] [base64decode](#) (String encoded)
- static
java.security.cert.X509Certificate [convertX509Cert](#) (javax.security.cert.X509Certificate cert) throws java.security.cert.CertificateEncodingException, javax.security.cert.CertificateEncodingException, java.security.cert.CertificateException, javax.security.cert.CertificateException
- static
javax.security.cert.X509Certificate [convertX509Cert](#) (java.security.cert.X509Certificate cert) throws java.security.cert.CertificateEncodingException, javax.security.cert.CertificateEncodingException, java.security.cert.CertificateException, javax.security.cert.CertificateException
- static byte[] [hexStringToByteArray](#) (String s)
- static String [byteArrayToHexString](#) (byte[] b)
- static String [byteArrayToCppHexString](#) (byte[] b)
- static byte[] [concat](#) (byte[] blob1, byte[] blob2)
- static byte[] [sha1hash](#) (byte[] blob) throws NoSuchAlgorithmException
- static byte[] [TCGAsymEncrypt](#) (byte[] payload, RSAPublicKey pubKey, String OAEPstring) throws NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException, InvalidAlgorithmParameterException, IllegalBlockSizeException, BadPaddingException
- static byte[] [TCGAsymEncrypt](#) (byte[] payload, RSAPublicKey pubKey) throws NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException, InvalidAlgorithmParameterException, IllegalBlockSizeException, BadPaddingException
- static byte[] [TCGSymEncrypt](#) (byte[] payload, byte[] key, byte[] iv) throws NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException, InvalidAlgorithmParameterException, IllegalBlockSizeException, BadPaddingException
- static byte[] [newRandomAESValue](#) () throws IOException
- static byte[] [TCGAsymDecrypt](#) (byte[] ciphertext, RSAPrivateKey privKey, String OAEPstring) throws NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException, InvalidAlgorithmParameterException, IllegalBlockSizeException, BadPaddingException
- static byte[] [TCGSymDecrypt](#) (byte[] ciphertext, byte[] key, byte[] iv) throws NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException, InvalidAlgorithmParameterException, IllegalBlockSizeException, BadPaddingException
- static byte[] [HMAC](#) (byte[] authBlob, byte[] xH1concat) throws Exception
- static boolean [compareByteArrays](#) (byte[] array1, byte[] array2)
- static String [getHostname](#) ()
- static byte[] [intToByteArray](#) (final int integer) throws TpmUnsignedConversionException
- static byte[] [shortToByteArray](#) (final short shortInt) throws TpmUnsignedConversionException
- static int [getUINT32](#) (ByteArrayInputStream source) throws TpmUnsignedConversionException, TpmBytestreamResourceException
- static short [getUINT16](#) (ByteArrayInputStream source) throws TpmUnsignedConversionException, TpmBytestreamResourceException
- static byte[] [getBytes](#) (ByteArrayInputStream source, int size) throws TpmBytestreamResourceException
- static X509Certificate [makeCert](#) ([TpmIdentityProof](#) idProof, RSAPrivateKey privKey, X509Certificate caCert, int validityDays, int level) throws InvalidKeySpecException, NoSuchAlgorithmException, CertificateEncodingException, NoSuchProviderException, SignatureException, InvalidKeyException

- static String [getTime](#) ()
- static void [createCaP12](#) (int keySize, String caName, String newP12Pass, String p12FileName, int validityDays) throws NoSuchAlgorithmException, InvalidKeyException, IllegalStateException, SignatureException, KeyStoreException, java.security.cert.CertificateException, IOException
- static void [createClientP12](#) (int keySize, String subjectName, String newP12Pass, String p12FileName, int validityDays, X509Certificate caCert, RSAPrivateKey caPrivKey) throws NoSuchAlgorithmException, InvalidKeyException, IllegalStateException, SignatureException, KeyStoreException, java.security.cert.CertificateException, IOException
- static X509Certificate [makeEkCert](#) (byte[] pubEkMod, RSAPrivateKey privKey, X509Certificate caCert, int validityDays) throws NoSuchAlgorithmException, InvalidKeySpecException, SignatureException, NoSuchProviderException, InvalidKeyException, CertificateEncodingException
- static RSAPublicKey [makePubKey](#) (byte[] modulus, byte[] exponent) throws NoSuchAlgorithmException, - InvalidKeySpecException
- static RSAPrivateKey [makePrivKey](#) (byte[] modulus, byte[] exponent) throws NoSuchAlgorithmException, - InvalidKeySpecException
- static boolean [verifyTPM](#) (X509Certificate ekCred)
- static String [byteArrayToString](#) (byte[] blob, int perLine)
- static RSAPrivateKey [privKeyFromP12](#) (String filename, String password) throws KeyStoreException, - IOException, NoSuchAlgorithmException, UnrecoverableKeyException, javax.security.cert.CertificateException, java.security.cert.CertificateException
- static X509Certificate [certFromP12](#) (String filename, String password) throws KeyStoreException, IOException, NoSuchAlgorithmException, javax.security.cert.CertificateException, java.security.cert.CertificateException
- static X509Certificate [certFromFile](#) (String filename) throws KeyStoreException, IOException, NoSuchAlgorithmException, javax.security.cert.CertificateException, java.security.cert.CertificateException
- static X509Certificate [certFromBytes](#) (byte[] certBytes) throws CertificateException, CertificateEncodingException, java.security.cert.CertificateException
- static [idResponse](#) [ProcessIdentityRequest](#) (byte[] idRequestBlob, RSAPrivateKey caPrivKey, X509Certificate caPubCert, int validityDays) throws PrivacyCaException, TpmUtils.TpmUnsignedConversionException, BadPaddingException, IllegalBlockSizeException, InvalidAlgorithmParameterException, NoSuchPaddingException, NoSuchAlgorithmException, InvalidKeyException, CertificateEncodingException, IOException, InvalidKeySpecException, SignatureException, NoSuchProviderException, javax.security.cert.CertificateException, java.security.cert.CertificateException, TpmUtils.TpmBytestreamResourceException
- static X509Certificate [PartiallyProcessIdentityRequest](#) (byte[] idRequestBlob, RSAPrivateKey caPrivKey, X509Certificate caPubCert, int validityDays) throws PrivacyCaException, TpmUtils.TpmUnsignedConversionException, BadPaddingException, IllegalBlockSizeException, InvalidAlgorithmParameterException, NoSuchPaddingException, NoSuchAlgorithmException, InvalidKeyException, CertificateEncodingException, IOException, InvalidKeySpecException, SignatureException, NoSuchProviderException, javax.security.cert.CertificateException, java.security.cert.CertificateException, TpmUtils.TpmBytestreamResourceException
- static [TpmIdentityRequest](#) [createIdentityRequest](#) (String idLabel, RSAPublicKey caPubKey, boolean IV, boolean symKey, boolean oaep) throws TpmUtils.TpmUnsignedConversionException, NoSuchPaddingException, NoSuchAlgorithmException, InvalidAlgorithmParameterException, InvalidKeyException, BadPaddingException, IllegalBlockSizeException, IOException
- static byte[] [createRandomBytes](#) (int numBytes) throws IOException
- static String [PEMencodeCert](#) (X509Certificate cert) throws CertificateEncodingException
- static String [base64encode](#) (byte[] toEncode, boolean breakLines)
- static byte[] [base64decode](#) (String encoded)
- static
java.security.cert.X509Certificate [convertX509Cert](#) (javax.security.cert.X509Certificate cert) throws java.security.cert.CertificateEncodingException, javax.security.cert.CertificateEncodingException, java.security.cert.CertificateException, javax.security.cert.CertificateException
- static
javax.security.cert.X509Certificate [convertX509Cert](#) (java.security.cert.X509Certificate cert) throws java.security.cert.CertificateEncodingException, javax.security.cert.CertificateEncodingException, java.security.cert.CertificateException, javax.security.cert.CertificateException
- static byte[] [hexStringToByteArray](#) (String s)
- static String [byteArrayToHexString](#) (byte[] b)

- static String [byteArrayToCppHexString](#) (byte[] b)
- static byte[] [concat](#) (byte[] blob1, byte[] blob2)
- static byte[] [sha1hash](#) (byte[] blob) throws NoSuchAlgorithmException
- static byte[] [TCGAsymEncrypt](#) (byte[] payload, RSAPublicKey pubKey, String OAEPstring) throws NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException, InvalidAlgorithmParameterException, - IllegalBlockSizeException, BadPaddingException
- static byte[] [TCGAsymEncrypt](#) (byte[] payload, RSAPublicKey pubKey) throws NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException, InvalidAlgorithmParameterException, IllegalBlockSizeException, BadPaddingException
- static byte[] [TCGSymEncrypt](#) (byte[] payload, byte[] key, byte[] iv) throws NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException, InvalidAlgorithmParameterException, IllegalBlockSizeException, BadPaddingException
- static byte[] [newRandomAESValue](#) () throws IOException
- static byte[] [TCGAsymDecrypt](#) (byte[] ciphertext, RSAPrivateKey privKey, String OAEPstring) throws NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException, InvalidAlgorithmParameterException, IllegalBlockSizeException, BadPaddingException
- static byte[] [TCGSymDecrypt](#) (byte[] ciphertext, byte[] key, byte[] iv) throws NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException, InvalidAlgorithmParameterException, IllegalBlockSizeException, BadPaddingException
- static byte[] [HMAC](#) (byte[] authBlob, byte[] xH1concat) throws Exception
- static boolean [compareByteArrays](#) (byte[] array1, byte[] array2)
- static String [getHostname](#) ()

Static Private Member Functions

- static BigInteger [byteArrayToBigInt](#) (byte[] incoming)
- static BigInteger [byteArrayToBigInt](#) (byte[] incoming)

6.169.1 Detailed Description

The utils class contains functions that fall into two categories: those that provide utility to other classes in this package; and those that perform some cross-class functionality that is specific to this package.

This package was created for performing as a Privacy Certification Authority (Privacy CA), as specified by the Trusted Computing Group. The function **ProcessIdentityRequest** encompasses the role of a Privacy CA by taking an identity request, processing it with a CA signing key, and producing the specified data blobs containing a certificate.

The function **makeEkCert** works similarly to create a certificate for a TPM's Endorsement Key (EK certificate). This is not a defined role of a Privacy CA, however the process of creating an EK certificate is not covered in any TCG documentation, and the process of creating such a certificate is very similar to that used for processing an identity request.

The creation of an identity request is generally performed by the TSS function **Tspi_TPM_CollateIdentityRequest**. There are times, however, when it may be necessary to fabricate an identity request from its basic components. The function **createIdentityRequest** can be used to do just that. It is flexible enough to create a request in the format of any of the popular flavors of TSS.

Some of the functions provided in this class require the BouncyCastle security provider library, version 141 (for Java 1.5, this is the library named bcprov-jdk15-141.jar).

Author

schawki

6.169.2 Member Function Documentation

6.169.2.1 `static byte [] gov.niarl.his.privacyca.TpmUtils.base64decode (String encoded) [static]`

6.169.2.2 `static byte [] gov.niarl.his.privacyca.TpmUtils.base64decode (String encoded) [static]`

6.169.2.3 `static String gov.niarl.his.privacyca.TpmUtils.base64encode (byte[] toEncode, boolean breakLines) [static]`

Base64 encode a byte array.

Parameters

<i>toEncode</i>	The byte array to encode.
<i>breakLines</i>	Set true if it is desired to place line break at every 76 characters, per spec (not done often).

Returns

The String of the encoded array.

6.169.2.4 `static String gov.niarl.his.privacyca.TpmUtils.base64encode (byte[] toEncode, boolean breakLines) [static]`

Base64 encode a byte array.

Parameters

<i>toEncode</i>	The byte array to encode.
<i>breakLines</i>	Set true if it is desired to place line break at every 76 characters, per spec (not done often).

Returns

The String of the encoded array.

6.169.2.5 `static BigInteger gov.niarl.his.privacyca.TpmUtils.byteArrayToBigInt (byte[] incoming) [static],
[private]`

Create a Java Big Integer from a specified byte array. Intended for converting an RSA modulus or exponent, which is often specified in the form of a byte array for TPM activities. This function properly accounts for the highest-order bit set to avoid any complications arising from a conversion to the signed Big Integer.

Parameters

<i>incoming</i>	The byte array to convert.
-----------------	----------------------------

Returns

The Big Integer with the value of the byte array.

6.169.2.6 `static BigInteger gov.niarl.his.privacyca.TpmUtils.byteArrayToBigInt (byte[] incoming) [static],
[private]`

Create a Java Big Integer from a specified byte array. Intended for converting an RSA modulus or exponent, which is often specified in the form of a byte array for TPM activities. This function properly accounts for the highest-order bit set to avoid any complications arising from a conversion to the signed Big Integer.

Parameters

<i>incoming</i>	The byte array to convert.
-----------------	----------------------------

Returns

The Big Integer with the value of the byte array.

6.169.2.7 `static String gov.niarl.his.privacyca.TpmUtils.byteArrayToCppHexString (byte[] b) [static]`

Convert a byte array to a hexadecimal character string, in a format that can be placed as a parameter in C++. The hexadecimal byte duples are each prefixed with "0x" and delimited with a comma and space (", "). Example: "0x0a, 0xbc, "

Parameters

<i>b</i>	Byte array to convert
----------	-----------------------

Returns

String in the format described above

6.169.2.8 `static String gov.niarl.his.privacyca.TpmUtils.byteArrayToCppHexString (byte[] b) [static]`

Convert a byte array to a hexadecimal character string, in a format that can be placed as a parameter in C++. The hexadecimal byte duples are each prefixed with "0x" and delimited with a comma and space (", "). Example: "0x0a, 0xbc, "

Parameters

<i>b</i>	Byte array to convert
----------	-----------------------

Returns

String in the format described above

6.169.2.9 `static String gov.niarl.his.privacyca.TpmUtils.byteArrayToHexString (byte[] b) [static]`

Convert a byte array to a hexadecimal character string. The string will have no delimiter between hexadecimal duples, and has no line breaks.

Parameters

<i>b</i>	Byte array to convert
----------	-----------------------

Returns

A string of hexadecimal characters

6.169.2.10 `static String gov.niarl.his.privacyca.TpmUtils.byteArrayToHexString (byte[] b) [static]`

Convert a byte array to a hexadecimal character string. The string will have no delimiter between hexadecimal duples, and has no line breaks.

Parameters

<i>b</i>	Byte array to convert
----------	-----------------------

Returns

A string of hexadecimal characters

6.169.2.11 `static String gov.niarl.his.privacyca.TpmUtils.byteArrayToString (byte[] blob, int perLine)` `[static]`

Creates a string of uppercase hexadecimal duples representing the supplied byte array. They are placed in lines containing a specified number of duples..

Parameters

<i>blob</i>	The byte array to turn into a string.
<i>perLine</i>	The number of hexadecimal duples to place on each line.

Returns

A String, perhaps multi-line.

6.169.2.12 `static String gov.niarl.his.privacyca.TpmUtils.byteArrayToString (byte[] blob, int perLine)` `[static]`

Creates a string of uppercase hexadecimal duples representing the supplied byte array. They are placed in lines containing a specified number of duples..

Parameters

<i>blob</i>	The byte array to turn into a string.
<i>perLine</i>	The number of hexadecimal duples to place on each line.

Returns

A String, perhaps multi-line.

6.169.2.13 `static X509Certificate gov.niarl.his.privacyca.TpmUtils.certFromBytes (byte[] certBytes)` throws `CertificateException`, `CertificateEncodingException`, `java.security.cert.CertificateException` `[static]`

Retrieve a certificate as an X509Certificate object from a byte string, assuming DER encoding.

Parameters

<i>certBytes</i>	
------------------	--

Returns

Exceptions

<code>CertificateException</code>	
<code>CertificateEncodingException</code>	
<code>java.security.cert.CertificateException</code>	

6.169.2.14 static X509Certificate gov.niarl.his.privacyca.TpmUtils.certFromBytes (byte[] *certBytes*) throws
CertificateException, CertificateEncodingException, java.security.cert.CertificateException [static]

Retrieve a certificate as an X509Certificate object from a byte string, assuming DER encoding.

Parameters

<i>certBytes</i>	
------------------	--

Returns

Exceptions

<i>CertificateException</i>	
<i>CertificateEncodingException</i>	
<i>java.security.cert.CertificateException</i>	

6.169.2.15 static X509Certificate gov.niarl.his.privacyca.TpmUtils.certFromFile (String *filename*) throws
KeyStoreException, IOException, NoSuchAlgorithmException, javax.security.cert.CertificateException,
java.security.cert.CertificateException [static]

Retrieve a certificate as an X509Certificate object from a file (generally .cer or .crt using DER or PEM encoding)

Parameters

<i>filename</i>	
-----------------	--

Returns

Exceptions

<i>KeyStoreException</i>	
<i>IOException</i>	
<i>NoSuchAlgorithmException</i>	
<i>javax.security.cert.CertificateException</i>	
<i>java.security.cert.CertificateException</i>	

6.169.2.16 static X509Certificate gov.niarl.his.privacyca.TpmUtils.certFromFile (String *filename*) throws
KeyStoreException, IOException, NoSuchAlgorithmException, javax.security.cert.CertificateException,
java.security.cert.CertificateException [static]

Retrieve a certificate as an X509Certificate object from a file (generally .cer or .crt using DER or PEM encoding)

Parameters

<i>filename</i>	
-----------------	--

Returns

Exceptions

<i>KeyStoreException</i>	
<i>IOException</i>	
<i>NoSuchAlgorithmException</i>	
<i>javax.security.cert.- CertificateException</i>	
<i>java.security.cert.Certificate- Exception</i>	

6.169.2.17 `static X509Certificate gov.niarl.his.privacyca.TpmUtils.certFromP12 (String filename, String password)`
 throws `KeyStoreException`, `IOException`, `NoSuchAlgorithmException`, `javax.security.cert.CertificateException`,
 `java.security.cert.CertificateException` `[static]`

Retrieve a public key certificate from a PKCS #12 store. It is expected that the P12 file will contain only one private key and one public key certificate.

Parameters

<i>filename</i>	The name of the P12 file.
<i>password</i>	The password needed to extract from the specified P12 file.

Returns

The private key.

Exceptions

<i>IOException</i>	Passed on from called functions.
<i>NoSuchAlgorithmException</i>	Passed on from called functions.
<i>UnrecoverableKeyException</i>	Passed on from called functions.
<i>javax.security.cert.- CertificateException</i>	Passed on from called functions.
<i>java.security.cert.Certificate- Exception</i>	Passed on from called functions.

6.169.2.18 `static X509Certificate gov.niarl.his.privacyca.TpmUtils.certFromP12 (String filename, String password)`
 throws `KeyStoreException`, `IOException`, `NoSuchAlgorithmException`, `javax.security.cert.CertificateException`,
 `java.security.cert.CertificateException` `[static]`

Retrieve a public key certificate from a PKCS #12 store. It is expected that the P12 file will contain only one private key and one public key certificate.

Parameters

<i>filename</i>	The name of the P12 file.
<i>password</i>	The password needed to extract from the specified P12 file.

Returns

The private key.

Exceptions

<i>IOException</i>	Passed on from called functions.
<i>NoSuchAlgorithmException</i>	Passed on from called functions.
<i>UnrecoverableKeyException</i>	Passed on from called functions.
<i>javax.security.cert.- CertificateException</i>	Passed on from called functions.
<i>java.security.cert.Certificate- Exception</i>	Passed on from called functions.

6.169.2.19 static boolean gov.niarl.his.privacyca.TpmUtils.compareByteArrays (byte[] array1, byte[] array2) [static]

Returns **true** if both byte arrays sent in parameters are the same length and have the exact same contents for each respective elements.

Parameters

<i>array1</i>	
<i>array2</i>	

Returns

6.169.2.20 static boolean gov.niarl.his.privacyca.TpmUtils.compareByteArrays (byte[] array1, byte[] array2) [static]

Returns **true** if both byte arrays sent in parameters are the same length and have the exact same contents for each respective elements.

Parameters

<i>array1</i>	
<i>array2</i>	

Returns

6.169.2.21 static byte [] gov.niarl.his.privacyca.TpmUtils.concat (byte[] blob1, byte[] blob2) [static]

Concatenate two byte arrays into one, in the order they are specified.

Parameters

<i>blob1</i>	Byte array to be placed first in the concatenation
<i>blob2</i>	Byte array to be placed last in the concatenation

Returns

6.169.2.22 static byte [] gov.niarl.his.privacyca.TpmUtils.concat (byte[] blob1, byte[] blob2) [static]

Concatenate two byte arrays into one, in the order they are specified.

Parameters

<i>blob1</i>	Byte array to be placed first in the concatenation
<i>blob2</i>	Byte array to be placed last in the concatenation

Returns

6.169.2.23 `static java.security.cert.X509Certificate gov.niarl.his.privacyca.TpmUtils.convertX509Cert (javax.security.cert.X509Certificate cert) throws java.security.cert.CertificateEncodingException, javax.security.cert.CertificateEncodingException, java.security.cert.CertificateException, javax.security.cert.CertificateException [static]`

Convert a **javax** X509Certificate to a **java** X509Certificate.

Parameters

<i>cert</i>	A certificate in javax.security.cert.X509Certificate format
-------------	--

Returns

A certificate in **java.security.cert.X509Certificate** format

6.169.2.24 `static java.security.cert.X509Certificate gov.niarl.his.privacyca.TpmUtils.convertX509Cert (javax.security.cert.X509Certificate cert) throws java.security.cert.CertificateEncodingException, javax.security.cert.CertificateEncodingException, java.security.cert.CertificateException, javax.security.cert.CertificateException [static]`

Convert a **javax** X509Certificate to a **java** X509Certificate.

Parameters

<i>cert</i>	A certificate in javax.security.cert.X509Certificate format
-------------	--

Returns

A certificate in **java.security.cert.X509Certificate** format

6.169.2.25 `static javax.security.cert.X509Certificate gov.niarl.his.privacyca.TpmUtils.convertX509Cert (java.security.cert.X509Certificate cert) throws java.security.cert.CertificateEncodingException, javax.security.cert.CertificateEncodingException, java.security.cert.CertificateException, javax.security.cert.CertificateException [static]`

Convert a **java** X509Certificate to a **javax** X509Certificate.

Parameters

<i>cert</i>	A certificate in java.security.cert.X509Certificate format
-------------	---

Returns

A certificate in **javax.security.cert.X509Certificate** format

6.169.2.26 `static javax.security.cert.X509Certificate gov.niarl.his.privacyca.TpmUtils.convertX509Cert (java.security.cert.X509Certificate cert) throws java.security.cert.CertificateEncodingException, javax.security.cert.CertificateEncodingException, java.security.cert.CertificateException, javax.security.cert.CertificateException [static]`

Convert a **java** X509Certificate to a **javax** X509Certificate.

Parameters

<i>cert</i>	A certificate in java.security.cert.X509Certificate format
-------------	---

Returns

A certificate in **javax.security.cert.X509Certificate** format

6.169.2.27 `static void gov.niarl.his.privacyca.TpmUtils.createCaP12 (int keySize, String caName, String newP12Pass, String p12FileName, int validityDays) throws NoSuchAlgorithmException, InvalidKeyException, IllegalStateException, SignatureException, KeyStoreException, java.security.cert.CertificateException, IOException [static]`

Creates a key pair and associated certificate for a certificate authority. An RSA key pair of specified size is stored with the self-signed certificate in an encrypted PKCS 12 key store file. The format of the certificate and PKCS 12 file are a replica of what is created by OpenSSL.

Parameters

<i>keySize</i>	The size (in bits) of the RSA key to create
<i>caName</i>	The subject name for the new Certificate Authority (do not include "CN=")
<i>newP12Pass</i>	The password for encrypting the PKCS 12 file
<i>p12FileName</i>	The name for the PKCS 12 key store file (should end with .p12)
<i>validityDays</i>	The number of days the certificate should be valid before expiring

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>InvalidKeyException</i>	
<i>IllegalStateException</i>	
<i>SignatureException</i>	
<i>KeyStoreException</i>	
<i>java.security.cert.Certificate-Exception</i>	
<i>IOException</i>	

6.169.2.28 `static void gov.niarl.his.privacyca.TpmUtils.createCaP12 (int keySize, String caName, String newP12Pass, String p12FileName, int validityDays) throws NoSuchAlgorithmException, InvalidKeyException, IllegalStateException, SignatureException, KeyStoreException, java.security.cert.CertificateException, IOException [static]`

Creates a key pair and associated certificate for a certificate authority. An RSA key pair of specified size is stored with the self-signed certificate in an encrypted PKCS 12 key store file. The format of the certificate and PKCS 12 file are a replica of what is created by OpenSSL.

Parameters

<i>keySize</i>	The size (in bits) of the RSA key to create
<i>caName</i>	The subject name for the new Certificate Authority (do not include "CN=")
<i>newP12Pass</i>	The password for encrypting the PKCS 12 file
<i>p12FileName</i>	The name for the PKCS 12 key store file (should end with .p12)

<i>validityDays</i>	The number of days the certificate should be valid before expiring
---------------------	--

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>InvalidKeyException</i>	
<i>IllegalStateException</i>	
<i>SignatureException</i>	
<i>KeyStoreException</i>	
<i>java.security.cert.CertificateException</i>	
<i>IOException</i>	

6.169.2.29 static void gov.niarl.his.privacyca.TpmUtils.createClientP12 (int *keySize*, String *subjectName*, String *newP12Pass*, String *p12FileName*, int *validityDays*, X509Certificate *caCert*, RSAPrivateKey *caPrivKey*) throws NoSuchAlgorithmException, InvalidKeyException, IllegalStateException, SignatureException, KeyStoreException, java.security.cert.CertificateException, IOException [static]

This function creates a p12 file for a client, creating a new RSA key pair of specified size. A certificate generated, signed by a the CA using the specified private key and CA certificate file. Both the client and CA certificates are stored as a chain in the p12 file. The client certificate's serial number is a system time in milliseconds.

Parameters

<i>keySize</i>	Size of the key to generate
<i>subjectName</i>	Subject name for the client certificate
<i>newP12Pass</i>	Password to use for encrypting the p12 file
<i>p12FileName</i>	name for the generated file
<i>validityDays</i>	number of days the client certificate should be valid
<i>caCert</i>	The CA's certificate
<i>caPrivKey</i>	The CA's private key, for signing the client certificate

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>InvalidKeyException</i>	
<i>IllegalStateException</i>	
<i>SignatureException</i>	
<i>KeyStoreException</i>	
<i>java.security.cert.CertificateException</i>	
<i>IOException</i>	

6.169.2.30 static void gov.niarl.his.privacyca.TpmUtils.createClientP12 (int *keySize*, String *subjectName*, String *newP12Pass*, String *p12FileName*, int *validityDays*, X509Certificate *caCert*, RSAPrivateKey *caPrivKey*) throws NoSuchAlgorithmException, InvalidKeyException, IllegalStateException, SignatureException, KeyStoreException, java.security.cert.CertificateException, IOException [static]

This function creates a p12 file for a client, creating a new RSA key pair of specified size. A certificate generated, signed by a the CA using the specified private key and CA certificate file. Both the client and CA certificates are stored as a chain in the p12 file. The client certificate's serial number is a system time in milliseconds.

Parameters

<i>keySize</i>	Size of the key to generate
<i>subjectName</i>	Subject name for the client certificate
<i>newP12Pass</i>	Password to use for encrypting the p12 file
<i>p12FileName</i>	name for the generated file
<i>validityDays</i>	number of days the client certificate should be valid
<i>caCert</i>	The CA's certificate
<i>caPrivKey</i>	The CA's private key, for signing the client certificate

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>InvalidKeyException</i>	
<i>IllegalStateException</i>	
<i>SignatureException</i>	
<i>KeyStoreException</i>	
<i>java.security.cert.Certificate-Exception</i>	
<i>IOException</i>	

6.169.2.31 static `TpmIdentityRequest gov.niarl.his.privacyca.TpmUtils.createIdentityRequest (String idLabel, RSAPublicKey caPubKey, boolean IV, boolean symKey, boolean oaep)` throws `TpmUtils.TpmUnsignedConversionException`, `NoSuchPaddingException`, `NoSuchAlgorithmException`, `InvalidAlgorithmParameterException`, `InvalidKeyException`, `BadPaddingException`, `IllegalBlockSizeException`, `IOException` [static]

Generate a new identity request. User supplied data for a new request is the identity label and the Privacy C-A's public key. This function relies upon a method to obtain the public key of a newly-created identity key (to be certified by the Privacy CA), an identity binding signed by the TPM, and any certificates available from the TPM's non-volatile storage (Endorsement, Platform, and/or Conformance certificates). Note: the endorsement certificate must be present to have a complete request! **The functionality to get this TPM-supplied data is currently not available.**

Parameters

<i>idLabel</i>	A string, to be submitted in ASCII, to be used as the subject alternative name for the identity certificate
<i>caPubKey</i>	The public key of the Privacy CA
<i>IV</i>	A boolean flag to specify the placement of the symmetric encryption initialization vector (true indicates that IV should be placed at the beginning of symmetrically encrypted blob instead of the symmetric key parameters)
<i>symKey</i>	A boolean flag to specify the symmetric key encryption scheme flag (true indicates the encryption scheme should be specified as "TSS_ES_NONE")
<i>oaep</i>	A boolean flag to indicate if the asymmetric OAEP padding will use the string specified in the TSS 1.1b "Main" document (true indicates that the string should be left blank)

Returns

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>NoSuchPaddingException</i>	
<i>NoSuchAlgorithmException</i>	

<i>InvalidAlgorithmParameterException</i>	
<i>InvalidKeyException</i>	
<i>BadPaddingException</i>	
<i>IllegalBlockSizeException</i>	
<i>IOException</i>	

6.169.2.32 `static TpmIdentityRequest gov.niarl.his.privacyca.TpmUtils.createIdentityRequest (String idLabel, RSAPublicKey caPubKey, boolean IV, boolean symKey, boolean oaep)` throws `TpmUtils.TpmUnsignedConversionException`, `NoSuchPaddingException`, `NoSuchAlgorithmException`, `InvalidAlgorithmParameterException`, `InvalidKeyException`, `BadPaddingException`, `IllegalBlockSizeException`, `IOException` [static]

Generate a new identity request. User supplied data for a new request is the identity label and the Privacy C-A's public key. This function relies upon a method to obtain the public key of a newly-created identity key (to be certified by the Privacy CA), an identity binding signed by the TPM, and any certificates available from the TPM's non-volatile storage (Endorsement, Platform, and/or Conformance certificates). Note: the endorsement certificate must be present to have a complete request! **The functionality to get this TPM-supplied data is currently not available.**

Parameters

<i>idLabel</i>	A string, to be submitted in ASCII, to be used as the subject alternative name for the identity certificate
<i>caPubKey</i>	The public key of the Privacy CA
<i>IV</i>	A boolean flag to specify the placement of the symmetric encryption initialization vector (true indicates that IV should be placed at the beginning of symmetrically encrypted blob instead of the symmetric key parameters)
<i>symKey</i>	A boolean flag to specify the symmetric key encryption scheme flag (true indicates the encryption scheme should be specified as "TSS_ES_NONE")
<i>oaep</i>	A boolean flag to indicate if the asymmetric OAEP padding will use the string specified in the TSS 1.1b "Main" document (true indicates that the string should be left blank)

Returns

Exceptions

<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>NoSuchPaddingException</i>	
<i>NoSuchAlgorithmException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>InvalidKeyException</i>	
<i>BadPaddingException</i>	
<i>IllegalBlockSizeException</i>	
<i>IOException</i>	

6.169.2.33 `static byte [] gov.niarl.his.privacyca.TpmUtils.createRandomBytes (int numBytes)` throws `IOException` [static]

Fills a 16 byte array with random data, using nanoTime.

Returns

A byte array of length 16 containing new random data.

Exceptions

<i>IOException</i>	
--------------------	--

6.169.2.34 static byte [] gov.niari.his.privacyca.TpmUtils.createRandomBytes (int *numBytes*) throws IOException
[static]

Fills a 16 byte array with random data, using nanoTime.

Returns

A byte array of length 16 containing new random data.

Exceptions

<i>IOException</i>	
--------------------	--

6.169.2.35 static byte [] gov.niari.his.privacyca.TpmUtils.getBytes (ByteArrayInputStream *source*, int *size*) throws
TpmBytestreamResouceException [static]

Extracts a specified number of bytes from a ByteArrayInputStream and places them into a byte array.

Parameters

<i>source</i>	The ByteArrayInputStream from which to extract the requested number of bytes.
<i>size</i>	The number of bytes to extract.

Returns

A byte array of size **size**.

Exceptions

<i>TpmBytestreamResouce-Exception</i>	Thrown if the number of bytes requested exceeds the number of available bytes in the bytestream.
---------------------------------------	--

6.169.2.36 static byte [] gov.niari.his.privacyca.TpmUtils.getBytes (ByteArrayInputStream *source*, int *size*) throws
TpmBytestreamResouceException [static]

Extracts a specified number of bytes from a ByteArrayInputStream and places them into a byte array.

Parameters

<i>source</i>	The ByteArrayInputStream from which to extract the requested number of bytes.
<i>size</i>	The number of bytes to extract.

Returns

A byte array of size **size**.

Exceptions

<i>TpmBytestreamResourceException</i>	Thrown if the number of bytes requested exceeds the number of available bytes in the bytestream.
---------------------------------------	--

6.169.2.37 `static String gov.niarl.his.privacyca.TpmUtils.getHostname () [static]`

Get the system's Fully Qualified Domain Name as a string

Returns

the system's FQDN

6.169.2.38 `static String gov.niarl.his.privacyca.TpmUtils.getHostname () [static]`

Get the system's Fully Qualified Domain Name as a string

Returns

the system's FQDN

6.169.2.39 `static String gov.niarl.his.privacyca.TpmUtils.getTime () [static]`

Pulls the system time in "MMM d, yyyy h:mm:ss a" format as a string, suitable for use in a log file.

Returns

String as described above.

6.169.2.40 `static String gov.niarl.his.privacyca.TpmUtils.getTime () [static]`

Pulls the system time in "MMM d, yyyy h:mm:ss a" format as a string, suitable for use in a log file.

Returns

String as described above.

6.169.2.41 `static short gov.niarl.his.privacyca.TpmUtils.getUINT16 (ByteArrayInputStream source) throws TpmUnsignedConversionException, TpmBytestreamResourceException [static]`

Extracts a UINT16 from a bytestream and stores it as a short. See getUINT32 for issues that apply to this function.

Parameters

<i>source</i>	The ByteArrayInputStream from which the UINT16 will be extracted.
---------------	---

Returns

A short with the value of the UINT16 extracted.

Exceptions

<i>TpmUnsignedConversionException</i>	Thrown if the UINT16 is too large to be stored as a short.
<i>TpmBytestreamResouceException</i>	Thrown if there are not at least two bytes available in the bytestream to extract.

6.169.2.42 static short gov.niarl.his.privacyca.TpmUtils.getUINT16 (ByteArrayInputStream *source*) throws TpmUnsignedConversionException, TpmBytestreamResouceException [static]

Extracts a UINT16 from a bytestream and stores is as a short. See getUINT32 for issues that apply to this function.

Parameters

<i>source</i>	The ByteArrayInputStream from which the UINT16 will be extracted.
---------------	---

Returns

A short with the value of the UINT16 extracted.

Exceptions

<i>TpmUnsignedConversionException</i>	Thrown if the UINT16 is too large to be stored as a short.
<i>TpmBytestreamResouceException</i>	Thrown if there are not at least two bytes available in the bytestream to extract.

6.169.2.43 static int gov.niarl.his.privacyca.TpmUtils.getUINT32 (ByteArrayInputStream *source*) throws TpmUnsignedConversionException, TpmBytestreamResouceException [static]

Extracts four bytes in the form of a UINT32 from a ByteArrayInputStream and converts it to an integer. The byte stream will be reduced by four bytes. Note: the Java integer is signed, but the UINT32 is not (by definition). The integer was chosen to hold the value of a UINT32 because both are four bytes in size, even though the Java integer has a positive max value half that of the UINT32. As this conversion function converts from a UINT32, there sill never be a negative value extracted. The possibility exists that a UINT32 with a value greater than the integer MAX_VALUE will attempt to be extracted using this function. In that case, an exception will be thrown. This situation is not likely to occur, as UINT32 values are used for two purposes by the TCG: defined attributes/flags, and size values. When a UINT32 is used as an attribute or flag, the value is not as important as is the bit order. (Also, there are no attributes of flags in which the most significant bit is set.) As a size, the value is usually in numbers of bytes, and occasionally in number of bits. In either case, there is not likely to be a size, even in bits, that comes near to approaching the max value of integer.

Parameters

<i>source</i>	The ByteArrayInputStream from which the UINT32 is to be extracted.
---------------	--

Returns

An integer with the value of the UINT32.

Exceptions

<i>TpmUnsignedConversionException</i>	The UINT32 being extracted is too large to be stored in an integer.
<i>TpmBytestreamResouceException</i>	A UINT32 is four bytes in length, this exception is throws in there are not at least 4 bytes available to extract.

6.169.2.44 `static int gov.niarl.his.privacyca.TpmUtils.getUINT32 (ByteArrayInputStream source) throws TpmUnsignedConversionException, TpmBytestreamResourceException [static]`

Extracts four bytes in the form of a UINT32 from a ByteArrayInputStream and converts it to an integer. The byte stream will be reduced by four bytes. Note: the Java integer is signed, but the UINT32 is not (by definition). The integer was chosen to hold the value of a UINT32 because both are four bytes in size, even though the Java integer has a positive max value half that of the UINT32. As this conversion function converts from a UINT32, there will never be a negative value extracted. The possibility exists that a UINT32 with a value greater than the integer MAX_VALUE will attempt to be extracted using this function. In that case, an exception will be thrown. This situation is not likely to occur, as UINT32 values are used for two purposes by the TCG: defined attributes/flags, and size values. When a UINT32 is used as an attribute or flag, the value is not as important as is the bit order. (Also, there are no attributes or flags in which the most significant bit is set.) As a size, the value is usually in numbers of bytes, and occasionally in number of bits. In either case, there is not likely to be a size, even in bits, that comes near to approaching the max value of integer.

Parameters

<i>source</i>	The ByteArrayInputStream from which the UINT32 is to be extracted.
---------------	--

Returns

An integer with the value of the UINT32.

Exceptions

<i>TpmUnsignedConversionException</i>	The UINT32 being extracted is too large to be stored in an integer.
<i>TpmBytestreamResourceException</i>	A UINT32 is four bytes in length, this exception is thrown if there are not at least 4 bytes available to extract.

6.169.2.45 `static byte [] gov.niarl.his.privacyca.TpmUtils.hexStringToByteArray (String s) [static]`

Given a string of hexadecimal characters, convert to a byte array. No checks are performed to ensure that the string is all valid hexadecimal characters (0-9, a-f, A-F) or that there is an even number of characters.

Parameters

<i>s</i>	The hexadecimal string
----------	------------------------

Returns

A byte array

6.169.2.46 `static byte [] gov.niarl.his.privacyca.TpmUtils.hexStringToByteArray (String s) [static]`

Given a string of hexadecimal characters, convert to a byte array. No checks are performed to ensure that the string is all valid hexadecimal characters (0-9, a-f, A-F) or that there is an even number of characters.

Parameters

<i>s</i>	The hexadecimal string
----------	------------------------

Returns

A byte array

6.169.2.47 `static byte [] gov.niari.his.privacyca.TpmUtils.HMAC (byte[] authBlob, byte[] xH1concat) throws Exception`
`[static]`

Generate a Hashed Message Authentication Code for TCS function authentication using the given auth blob and concatenation of all *H1 (1H1, 2H1, etc) values for the function.

Parameters

<i>authBlob</i>	20 byte auth code for the object in question
<i>xH1concat</i>	A concatenation of all of the authenticated *H1 parameters for the function, e.g. 1H1, 2H1, 3H1, etc.

Returns

The HMAC blob suitable to be used for passing as a TCS parameter

Exceptions

<i>Exception</i>	
------------------	--

6.169.2.48 `static byte [] gov.niari.his.privacyca.TpmUtils.HMAC (byte[] authBlob, byte[] xH1concat) throws Exception`
`[static]`

Generate a Hashed Message Authentication Code for TCS function authentication using the given auth blob and concatenation of all *H1 (1H1, 2H1, etc) values for the function.

Parameters

<i>authBlob</i>	20 byte auth code for the object in question
<i>xH1concat</i>	A concatenation of all of the authenticated *H1 parameters for the function, e.g. 1H1, 2H1, 3H1, etc.

Returns

The HMAC blob suitable to be used for passing as a TCS parameter

Exceptions

<i>Exception</i>	
------------------	--

6.169.2.49 `static byte [] gov.niari.his.privacyca.TpmUtils.intToByteArray (final int integer) throws TpmUnsignedConversionException`
`[static]`

Converts an integer to a four-byte array.

Parameters

<i>integer</i>	The integer to convert.
----------------	-------------------------

Returns

A byte array with a length of 4 representing the integer as a UINT32.

Exceptions

<i>TpmUnsignedConversionException</i>	This function does not work if the integer to convert is a negative number.
---------------------------------------	---

6.169.2.50 `static byte [] gov.niarl.his.privacyca.TpmUtils.toIntByteArray (final int integer) throws TpmUnsignedConversionException [static]`

Converts an integer to a four-byte array.

Parameters

<i>integer</i>	The integer to convert.
----------------	-------------------------

Returns

A byte array with a length of 4 representing the integer as a UINT32.

Exceptions

<i>TpmUnsignedConversionException</i>	This function does not work if the integer to convert is a negative number.
---------------------------------------	---

6.169.2.51 `static X509Certificate gov.niarl.his.privacyca.TpmUtils.makeCert (TpmIdentityProof idProof, RSAPrivateKey privKey, X509Certificate caCert, int validityDays, int level) throws InvalidKeySpecException, NoSuchAlgorithmException, CertificateEncodingException, NoSuchProviderException, SignatureException, InvalidKeyException [static]`

Creates a new X509 V3 certificate for use as an Attestation Identity Key (AIK) using the BouncyCastle provider. The certificate is designed in the direction of the Trusted Computing Group's specification of certificates for the Trusted Platform Module, although in its current form this function does not meet the standard. To that extent, the Subject Name field is left blank, and the V3 Subject Alternative Name field is marked critical and populated with the ID Label specified in the supplied TPM_Identity_Proof structure.

Parameters

<i>idProof</i>	The TPM_Identity_Proof structure, used for the identity label field.
<i>privKey</i>	The Privacy CA's private key for signing the certificate.
<i>caCert</i>	The Privacy CA's public key certificate.
<i>validityDays</i>	The number of days until the created certificate expires, from the time this function is run.
<i>level</i>	Currently not used.

Returns

An AIK certificate.

Exceptions

<i>InvalidKeySpecException</i>	Passed on from the BouncyCastle certificate generator.
<i>NoSuchAlgorithmException</i>	Passed on from the BouncyCastle certificate generator.
<i>CertificateEncodingException</i>	Passed on from the BouncyCastle certificate generator.
<i>NoSuchProviderException</i>	Thrown if the BouncyCastle provider cannot be found.
<i>SignatureException</i>	Passed on from the BouncyCastle certificate generator.
<i>InvalidKeyException</i>	Passed on from the BouncyCastle certificate generator.

6.169.2.52 static X509Certificate gov.niarl.his.privacyca.TpmUtils.makeCert (TpmIdentityProof *idProof*, RSAPrivateKey *privKey*, X509Certificate *caCert*, int *validityDays*, int *level*) throws InvalidKeySpecException, NoSuchAlgorithmException, CertificateEncodingException, NoSuchProviderException, SignatureException, InvalidKeyException [static]

Creates a new X509 V3 certificate for use as an Attestation Identity Key (AIK) using the BouncyCastle provider. The certificate is designed in the direction of the Trusted Computing Group's specification of certificates for the Trusted Platform Module, although in its current form this function does not meet the standard. To that extent, the Subject Name field is left blank, and the V3 Subject Alternative Name field is marked critical and populated with the ID Label specified in the supplied TPM_Identity_Proof structure.

Parameters

<i>idProof</i>	The TPM_Identity_Proof structure, used for the identity label field.
<i>privKey</i>	The Privacy CA's private key for signing the certificate.
<i>caCert</i>	The Privacy CA's public key certificate.
<i>validityDays</i>	The number of days until the created certificate expires, from the time this function is run.
<i>level</i>	Currently not used.

Returns

An AIK certificate.

Exceptions

<i>InvalidKeySpecException</i>	Passed on from the BouncyCastle certificate generator.
<i>NoSuchAlgorithmException</i>	Passed on from the BouncyCastle certificate generator.
<i>CertificateEncodingException</i>	Passed on from the BouncyCastle certificate generator.
<i>NoSuchProviderException</i>	Thrown if the BouncyCastle provider cannot be found.
<i>SignatureException</i>	Passed on from the BouncyCastle certificate generator.
<i>InvalidKeyException</i>	Passed on from the BouncyCastle certificate generator.

6.169.2.53 static X509Certificate gov.niarl.his.privacyca.TpmUtils.makeEkCert (byte[] *pubEkMod*, RSAPrivateKey *privKey*, X509Certificate *caCert*, int *validityDays*) throws NoSuchAlgorithmException, InvalidKeySpecException, SignatureException, NoSuchProviderException, InvalidKeyException, CertificateEncodingException [static]

Creates an Endorsement Key (EK) Certificate. This certificate is not fully meet Trusted Computing Group specifications. Aside from the key and label source, the certificate is basically identical to the AIK certificate made by the makeCert function. The label used is "TPM EK Credential". Ideally, an EK certificate should only be created once per TPM and stored in the TPM's NVRAM, but this function can be used to provide the certificate while a method is being researched for the permanent storage of the EK certificate in NVRAM.

Parameters

<i>pubEkMod</i>	The modulus of the public Endorsement Key (EK) in the form of a byte array.
<i>privKey</i>	The Privacy CA's private signing key.
<i>caCert</i>	The Privacy CA's public key certificate.
<i>validityDays</i>	The number of days until expiration, from the time this function is run.

Returns

An EK certificate for the specified TPM's EK.

Exceptions

<i>NoSuchAlgorithmException</i>	Passed on from the BouncyCastle certificate generator.
<i>InvalidKeySpecException</i>	Passed on from the BouncyCastle certificate generator.
<i>SignatureException</i>	Passed on from the BouncyCastle certificate generator.
<i>NoSuchProviderException</i>	Thrown if the BouncyCastle provider cannot be found.
<i>InvalidKeyException</i>	Passed on from the BouncyCastle certificate generator.
<i>CertificateEncodingException</i>	Passed on from the BouncyCastle certificate generator.

6.169.2.54 `static X509Certificate gov.niarl.his.privacyca.TpmUtils.makeEkCert (byte[] pubEkMod, RSAPrivateKey privKey, X509Certificate caCert, int validityDays) throws NoSuchAlgorithmException, InvalidKeySpecException, SignatureException, NoSuchProviderException, InvalidKeyException, CertificateEncodingException [static]`

Creates an Endorsement Key (EK) Certificate. This certificate is not fully meet Trusted Computing Group specifications. Aside from the key and label source, the certificate is basically identical to the AIK certificate made by the makeCert function. The label used is "TPM EK Credential". Ideally, an EK certificate should only be created once per TPM and stored in the TPM's NVRAM, but this function can be used to provide the certificate while a method is being researched for the permanent storage of the EK certificate in NVRAM.

Parameters

<i>pubEkMod</i>	The modulus of the public Endorsement Key (EK) in the form of a byte array.
<i>privKey</i>	The Privacy CA's private signing key.
<i>caCert</i>	The Privacy CA's public key certificate.
<i>validityDays</i>	The number of days until expiration, from the time this function is run.

Returns

An EK certificate for the specified TPM's EK.

Exceptions

<i>NoSuchAlgorithmException</i>	Passed on from the BouncyCastle certificate generator.
<i>InvalidKeySpecException</i>	Passed on from the BouncyCastle certificate generator.
<i>SignatureException</i>	Passed on from the BouncyCastle certificate generator.
<i>NoSuchProviderException</i>	Thrown if the BouncyCastle provider cannot be found.
<i>InvalidKeyException</i>	Passed on from the BouncyCastle certificate generator.
<i>CertificateEncodingException</i>	Passed on from the BouncyCastle certificate generator.

6.169.2.55 `static RSAPrivateKey gov.niarl.his.privacyca.TpmUtils.makePrivKey (byte[] modulus, byte[] exponent) throws NoSuchAlgorithmException, InvalidKeySpecException [static]`

Generate an RSAPrivateKey object using a modulus and exponent, where both are provided as byte arrays.

Parameters

<i>modulus</i>	
<i>exponent</i>	

Returns

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>InvalidKeySpecException</i>	

6.169.2.56 static RSAPrivateKey gov.niarl.his.privacyca.TpmUtils.makePrivKey (byte[] *modulus*, byte[] *exponent*) throws NoSuchAlgorithmException, InvalidKeySpecException [static]

Generate an RSAPrivateKey object using a modulus and exponent, where both are provided as byte arrays.

Parameters

<i>modulus</i>	
<i>exponent</i>	

Returns

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>InvalidKeySpecException</i>	

6.169.2.57 static RSAPublicKey gov.niarl.his.privacyca.TpmUtils.makePubKey (byte[] *modulus*, byte[] *exponent*) throws NoSuchAlgorithmException, InvalidKeySpecException [static]

Create a Java RSAPublicKey using the specified modulus and public exponent in byte array form.

Parameters

<i>modulus</i>	The RSA key modulus in the form of a byte array.
<i>exponent</i>	The RSA public exponent in the form of a byte array.

Returns

An RSAPublicKey.

Exceptions

<i>NoSuchAlgorithmException</i>	Thrown if the Java KeyFactory doesn't know what "RSA" is.
<i>InvalidKeySpecException</i>	Thrown if the key material is bad.

6.169.2.58 static RSAPublicKey gov.niarl.his.privacyca.TpmUtils.makePubKey (byte[] *modulus*, byte[] *exponent*) throws NoSuchAlgorithmException, InvalidKeySpecException [static]

Create a Java RSAPublicKey using the specified modulus and public exponent in byte array form.

Parameters

<i>modulus</i>	The RSA key modulus in the form of a byte array.
<i>exponent</i>	The RSA public exponent in the form of a byte array.

Returns

An RSAPublicKey.

Exceptions

<i>NoSuchAlgorithmException</i>	Thrown if the Java KeyFactory doesn't know what "RSA" is.
<i>InvalidKeySpecException</i>	Thrown if the key material is bad.

6.169.2.59 static byte [] gov.niarl.his.privacyca.TpmUtils.newRandomAESValue () throws IOException [static]

Create a random 128-bit value that can be used as an AES key or IV.

Returns

Exceptions

<i>IOException</i>	
--------------------	--

6.169.2.60 static byte [] gov.niarl.his.privacyca.TpmUtils.newRandomAESValue () throws IOException [static]

Create a random 128-bit value that can be used as an AES key or IV.

Returns

Exceptions

<i>IOException</i>	
--------------------	--

6.169.2.61 static X509Certificate gov.niarl.his.privacyca.TpmUtils.PartiallyProcessIdentityRequest (byte[] *idRequestBlob*, RSAPrivateKey *caPrivKey*, X509Certificate *caPubCert*, int *validityDays*) throws PrivacyCaException, TpmUtils.TpmUnsignedConversionException, BadPaddingException, IllegalBlockSizeException, InvalidAlgorithmParameterException, NoSuchPaddingException, NoSuchAlgorithmException, InvalidKeyException, CertificateEncodingException, IOException, InvalidKeySpecException, SignatureException, NoSuchProviderException, javax.security.cert.CertificateException, java.security.cert.CertificateException, TpmUtils.TpmBytestreamResourceException [static]

Used by the Privacy CA (version 1) to process Identity Requests that do not contain an EC. The EC is not validated, and the AIC is returned in plaintext. The client can then get the AIC without using ActivateIdentity. This is here because the Windows (NTRU) TSS client is broken, and cannot include the EC in an Identity Request, and also cannot perform an ActivateIdentity properly.

Parameters

<i>idRequestBlob</i>	The incoming Identity Request with no EC
<i>caPrivKey</i>	The Privacy CA's private key
<i>caPubCert</i>	The Privacy CA's certificate
<i>validityDays</i>	The number of days before AIC expiration

Returns

the AIC in the form of an X509Certificate

Exceptions

PrivacyCaException	
<i>TpmUtils.TpmUnsignedConversionException</i>	
<i>BadPaddingException</i>	
<i>IllegalBlockSizeException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>NoSuchPaddingException</i>	
<i>NoSuchAlgorithmException</i>	
<i>InvalidKeyException</i>	
<i>CertificateEncodingException</i>	
<i>IOException</i>	
<i>InvalidKeySpecException</i>	
<i>SignatureException</i>	
<i>NoSuchProviderException</i>	
<i>javax.security.cert.CertificateException</i>	
<i>java.security.cert.CertificateException</i>	
<i>TpmUtils.TpmBytestreamResouceException</i>	

6.169.2.62 static X509Certificate gov.niarl.his.privacyca.TpmUtils.PartiallyProcessIdentityRequest (byte[] *idRequestBlob*, RSAPrivateKey *caPrivKey*, X509Certificate *caPubCert*, int *validityDays*) throws PrivacyCaException, TpmUtils.TpmUnsignedConversionException, BadPaddingException, IllegalBlockSizeException, InvalidAlgorithmParameterException, NoSuchPaddingException, NoSuchAlgorithmException, InvalidKeyException, CertificateEncodingException, IOException, InvalidKeySpecException, SignatureException, NoSuchProviderException, javax.security.cert.CertificateException, java.security.cert.CertificateException, TpmUtils.TpmBytestreamResouceException [static]

Used by the Privacy CA (version 1) to process Identity Requests that do not contain an EC. The EC is not validated, and the AIC is returned in plaintext. The client can then get the AIC without using ActivateIdentity. This is here because the Windows (NTRU) TSS client is broken, and cannot include the EC in an Identity Request, and also cannot perform an ActivateIdentity properly.

Parameters

<i>idRequestBlob</i>	The incoming Identity Request with no EC
<i>caPrivKey</i>	The Privacy CA's private key
<i>caPubCert</i>	The Privacy CA's certificate
<i>validityDays</i>	The number of days before AIC expiration

Returns

the AIC in the form of an X509Certificate

Exceptions

PrivacyCaException	
------------------------------------	--

<i>TpmUtils.TpmUnsigned-ConversionException</i>	
<i>BadPaddingException</i>	
<i>IllegalBlockSizeException</i>	
<i>InvalidAlgorithmParameter-Exception</i>	
<i>NoSuchPaddingException</i>	
<i>NoSuchAlgorithmException</i>	
<i>InvalidKeyException</i>	
<i>CertificateEncoding-Exception</i>	
<i>IOException</i>	
<i>InvalidKeySpecException</i>	
<i>SignatureException</i>	
<i>NoSuchProviderException</i>	
<i>javax.security.cert.-CertificateException</i>	
<i>java.security.cert.Certificate-Exception</i>	
<i>TpmUtils.TpmBytestream-ResouceException</i>	

6.169.2.63 static String gov.niarl.his.privacyca.TpmUtils.PEMEncodeCert (X509Certificate *cert*) throws CertificateEncodingException [static]

Encode an X509 Certificate in the PEM (base64) encoding format.

Parameters

<i>cert</i>	The certificate to encode.
-------------	----------------------------

Returns

A String with the base64 encoded certificate.

Exceptions

<i>CertificateEncoding-Exception</i>	Thrown if there is a problem with the certificate.
--------------------------------------	--

6.169.2.64 static String gov.niarl.his.privacyca.TpmUtils.PEMEncodeCert (X509Certificate *cert*) throws CertificateEncodingException [static]

Encode an X509 Certificate in the PEM (base64) encoding format.

Parameters

<i>cert</i>	The certificate to encode.
-------------	----------------------------

Returns

A String with the base64 encoded certificate.

Exceptions

<i>CertificateEncodingException</i>	Thrown if there is a problem with the certificate.
-------------------------------------	--

6.169.2.65 static RSAPrivateKey gov.niarl.his.privacyca.TpmUtils.privKeyFromP12 (String *filename*, String *password*) throws KeyStoreException, IOException, NoSuchAlgorithmException, UnrecoverableKeyException, javax.security.cert.CertificateException, java.security.cert.CertificateException [static]

Retrieve a private key from a PKCS #12 store. It is expected that the P12 file will contain only one private key and one public key certificate.

Parameters

<i>filename</i>	The name of the P12 file.
<i>password</i>	The password needed to extract from the specified P12 file.

Returns

The private key.

Exceptions

<i>KeyStoreException</i>	Passed on from called functions.
<i>IOException</i>	Passed on from called functions.
<i>NoSuchAlgorithmException</i>	Passed on from called functions.
<i>UnrecoverableKeyException</i>	Passed on from called functions.
<i>javax.security.cert.CertificateException</i>	Passed on from called functions.
<i>java.security.cert.CertificateException</i>	Passed on from called functions.

6.169.2.66 static RSAPrivateKey gov.niarl.his.privacyca.TpmUtils.privKeyFromP12 (String *filename*, String *password*) throws KeyStoreException, IOException, NoSuchAlgorithmException, UnrecoverableKeyException, javax.security.cert.CertificateException, java.security.cert.CertificateException [static]

Retrieve a private key from a PKCS #12 store. It is expected that the P12 file will contain only one private key and one public key certificate.

Parameters

<i>filename</i>	The name of the P12 file.
<i>password</i>	The password needed to extract from the specified P12 file.

Returns

The private key.

Exceptions

<i>KeyStoreException</i>	Passed on from called functions.
<i>IOException</i>	Passed on from called functions.
<i>NoSuchAlgorithmException</i>	Passed on from called functions.
<i>UnrecoverableKeyException</i>	Passed on from called functions.
<i>javax.security.cert.CertificateException</i>	Passed on from called functions.

<i>java.security.cert.CertificateException</i>	Passed on from called functions.
--	----------------------------------

6.169.2.67 **static idResponse** gov.niarl.his.privacyca.TpmUtils.ProcessIdentityRequest (byte[] *idRequestBlob*, RSAPrivateKey *caPrivKey*, X509Certificate *caPubCert*, int *validityDays*) throws PrivacyCaException, TpmUtils.TpmUnsignedConversionException, BadPaddingException, IllegalBlockSizeException, InvalidAlgorithmParameterException, NoSuchPaddingException, NoSuchAlgorithmException, InvalidKeyException, CertificateEncodingException, IOException, InvalidKeySpecException, SignatureException, NoSuchProviderException, javax.security.cert.CertificateException, java.security.cert.CertificateException, TpmUtils.TpmBytestreamResourceException [static]

Take an incoming identity request, unpack the contents, create an identity certificate, and return it in the properly formatted form.

Parameters

<i>idRequestBlob</i>	The TPM_Identity_Request, as a byte array, as received from the output of the Tspi_TPM_CollateIdentityRequest TSS function.
<i>caPrivKey</i>	The Privacy CA's private signing key.
<i>caPubCert</i>	The Privacy CA's public key certificate.
<i>validityDays</i>	The number of validity days, after which the certificate will expire.

Returns

An [idResponse](#), containing both TPM_ASYM_CA_CONTENTS and TPM_SYM_CA_ATTESTATION structures, suitable as input for the Tspi_TPM_ActivateIdentity function.

Exceptions

PrivacyCaException	Thrown if an error occurs when processing the request.
<i>TpmUtils.TpmUnsignedConversionException</i>	Passed from called functions, this most likely reflects a poorly constructed Identity Request or its base Identity Proof.
<i>BadPaddingException</i>	Passed if an encryption/decryption error occurs.
<i>IllegalBlockSizeException</i>	Passed if an encryption/decryption error occurs.
<i>InvalidAlgorithmParameterException</i>	Passed if an encryption/decryption error occurs.
<i>NoSuchPaddingException</i>	Passed if an encryption/decryption error occurs.
<i>NoSuchAlgorithmException</i>	Passed if an encryption/decryption error occurs.
<i>InvalidKeyException</i>	Passed if an encryption/decryption error occurs.
<i>CertificateEncodingException</i>	Passed if an certificate creation error occurs.
<i>IOException</i>	Passed if an certificate creation error occurs.
<i>InvalidKeySpecException</i>	Passed if an certificate creation error occurs.
<i>SignatureException</i>	Passed if an certificate creation error occurs.
<i>NoSuchProviderException</i>	Passed if an certificate creation error occurs.
<i>javax.security.cert.CertificateException</i>	Passed if an certificate creation error occurs.
<i>java.security.cert.CertificateException</i>	Passed if an certificate creation error occurs.
<i>TpmUtils.TpmBytestreamResourceException</i>	Passed from called functions, this most likely reflects a poorly constructed Identity Request or its base Identity Proof.

6.169.2.68 `static idResponse gov.niarl.his.privacyca.TpmUtils.ProcessIdentityRequest (byte[] idRequestBlob, RSAPrivateKey caPrivKey, X509Certificate caPubCert, int validityDays)` throws `PrivacyCaException`, `TpmUtils.TpmUnsignedConversionException`, `BadPaddingException`, `IllegalBlockSizeException`, `InvalidAlgorithmParameterException`, `NoSuchPaddingException`, `NoSuchAlgorithmException`, `InvalidKeyException`, `CertificateEncodingException`, `IOException`, `InvalidKeySpecException`, `SignatureException`, `NoSuchProviderException`, `javax.security.cert.CertificateException`, `java.security.cert.CertificateException`, `TpmUtils.TpmBytestreamResourceException` [static]

Take an incoming identity request, unpack the contents, create an identity certificate, and return it in the properly formatted form.

Parameters

<i>idRequestBlob</i>	The TPM_Identity_Request, as a byte array, as received from the output of the Tspi_TPM_-CollateIdentityRequest TSS function.
<i>caPrivKey</i>	The Privacy CA's private signing key.
<i>caPubCert</i>	The Privacy CA's public key certificate.
<i>validityDays</i>	The number of validity days, after which the certificate will expire.

Returns

An [idResponse](#), containing both TPM_ASYM_CA_CONTENTS and TPM_SYM_CA_ATTESTATION structures, suitable as input for the Tspi_TPM_ActivateIdentity function.

Exceptions

PrivacyCaException	Thrown if an error occurs when processing the request.
<i>TpmUtils.TpmUnsignedConversionException</i>	Passed from called functions, this most likely reflects a poorly constructed Identity Request or its base Identity Proof.
<i>BadPaddingException</i>	Passed if an encryption/decryption error occurs.
<i>IllegalBlockSizeException</i>	Passed if an encryption/decryption error occurs.
<i>InvalidAlgorithmParameterException</i>	Passed if an encryption/decryption error occurs.
<i>NoSuchPaddingException</i>	Passed if an encryption/decryption error occurs.
<i>NoSuchAlgorithmException</i>	Passed if an encryption/decryption error occurs.
<i>InvalidKeyException</i>	Passed if an encryption/decryption error occurs.
<i>CertificateEncodingException</i>	Passed if an certificate creation error occurs.
<i>IOException</i>	Passed if an certificate creation error occurs.
<i>InvalidKeySpecException</i>	Passed if an certificate creation error occurs.
<i>SignatureException</i>	Passed if an certificate creation error occurs.
<i>NoSuchProviderException</i>	Passed if an certificate creation error occurs.
<i>javax.security.cert.CertificateException</i>	Passed if an certificate creation error occurs.
<i>java.security.cert.CertificateException</i>	Passed if an certificate creation error occurs.
<i>TpmUtils.TpmBytestreamResourceException</i>	Passed from called functions, this most likely reflects a poorly constructed Identity Request or its base Identity Proof.

6.169.2.69 `static byte [] gov.niarl.his.privacyca.TpmUtils.sha1hash (byte[] blob)` throws `NoSuchAlgorithmException` [static]

Perform a SHA-1 hash of a given byte array

<i>blob</i>	Byte array to hash
-------------	--------------------

SHA-1 hash of the specified byte array. Should always be 20 bytes in length

<i>NoSuchAlgorithmException</i>	
---------------------------------	--

```
6.169.2.70 static byte [] gov.niarl.his.privacyca.TpmUtils.sha1hash ( byte[] blob ) throws NoSuchAlgorithmException
[static]
```

Perform a SHA-1 hash of a given byte array

<i>blob</i>	Byte array to hash
-------------	--------------------

SHA-1 hash of the specified byte array. Should always be 20 bytes in length

<i>NoSuchAlgorithmException</i>	
---------------------------------	--

```
6.169.2.71 static byte [] gov.niarl.his.privacyca.TpmUtils.shortToByteArray ( final short shortInt ) throws
TpmUnsignedConversionException [static]
```

Converts a short integer to a two-byte array.

<i>shortInt</i>	The short integer to convert.
-----------------	-------------------------------

A byte array with a length of 2 representing the integer as a UINT16.

<i>TpmUnsignedConversionException</i>	This function does not work if the integer to convert is a negative number.
---------------------------------------	---

```
6.169.2.72 static byte [] gov.niarl.his.privacyca.TpmUtils.shortToByteArray ( final short shortInt ) throws
TpmUnsignedConversionException [static]
```

Converts a short integer to a two-byte array.

Parameters

<i>shortInt</i>	The short integer to convert.
-----------------	-------------------------------

Returns

A byte array with a length of 2 representing the integer as a UINT16.

Exceptions

<i>TpmUnsignedConversion-Exception</i>	This function does not work if the integer to convert is a negative number.
--	---

6.169.2.73 static byte [] gov.niarl.his.privacyca.TpmUtils.TCGAsymDecrypt (byte[] *ciphertext*, RSAPrivateKey *privKey*, String *OAEPstring*) throws NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException, InvalidAlgorithmParameterException, IllegalBlockSizeException, BadPaddingException [static]

Decrypt an TCG-style asymmetrically encrypted byte blob, given the correct RSA private key and OAEP string. If properly encrypted, the OAEP string should be "TCPA" (less the quotes).

Parameters

<i>ciphertext</i>	Asymmetrically encrypted byte array
<i>privKey</i>	The RSA private key to be used to decrypt the ciphertext
<i>OAEPstring</i>	The OAEP string that was used for padding (should be "TCPA")

Returns

The decrypted byte array

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>InvalidKeyException</i>	
<i>InvalidAlgorithmParameter-Exception</i>	
<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	

6.169.2.74 static byte [] gov.niarl.his.privacyca.TpmUtils.TCGAsymDecrypt (byte[] *ciphertext*, RSAPrivateKey *privKey*, String *OAEPstring*) throws NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException, InvalidAlgorithmParameterException, IllegalBlockSizeException, BadPaddingException [static]

Decrypt an TCG-style asymmetrically encrypted byte blob, given the correct RSA private key and OAEP string. If properly encrypted, the OAEP string should be "TCPA" (less the quotes).

Parameters

<i>ciphertext</i>	Asymmetrically encrypted byte array
<i>privKey</i>	The RSA private key to be used to decrypt the ciphertext
<i>OAEPstring</i>	The OAEP string that was used for padding (should be "TCPA")

Returns

The decrypted byte array

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>InvalidKeyException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	

6.169.2.75 `static byte [] gov.niarl.his.privacyca.TpmUtils.TCGAsymEncrypt (byte[] payload, RSAPublicKey pubKey, String OAEPstring)` throws `NoSuchAlgorithmException`, `NoSuchPaddingException`, `InvalidKeyException`, `InvalidAlgorithmParameterException`, `IllegalBlockSizeException`, `BadPaddingException` [static]

Perform an asymmetric encryption of a byte array in the way specified by the TCG for all TPM-related operations, using the given OAEP string (in case it is not the TCG-specified "TCPA")

Parameters

<i>payload</i>	Byte array to encrypt
<i>pubKey</i>	RSA public key to use for encryption
<i>OAEPstring</i>	The OAEP string to use for padding

Returns

An encrypted blob of the length of the *pubKey*'s modulus

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>InvalidKeyException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	

6.169.2.76 `static byte [] gov.niarl.his.privacyca.TpmUtils.TCGAsymEncrypt (byte[] payload, RSAPublicKey pubKey, String OAEPstring)` throws `NoSuchAlgorithmException`, `NoSuchPaddingException`, `InvalidKeyException`, `InvalidAlgorithmParameterException`, `IllegalBlockSizeException`, `BadPaddingException` [static]

Perform an asymmetric encryption of a byte array in the way specified by the TCG for all TPM-related operations, using the given OAEP string (in case it is not the TCG-specified "TCPA")

Parameters

<i>payload</i>	Byte array to encrypt
<i>pubKey</i>	RSA public key to use for encryption
<i>OAEPstring</i>	The OAEP string to use for padding

Returns

An encrypted blob of the length of the pubKey's modulus

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>InvalidKeyException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	

6.169.2.77 static byte [] gov.niarl.his.privacyca.TpmUtils.TCGAsymEncrypt (byte[] *payload*, RSAPublicKey *pubKey*) throws NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException, InvalidAlgorithmParameterException, IllegalBlockSizeException, BadPaddingException [static]

Perform an asymmetric encryption of a byte array in the way specified by the TCG for all TPM-related operations, using the OAEP string "TCPA" as specified.

Parameters

<i>payload</i>	Byte array to encrypt
<i>pubKey</i>	RSA public key to use for encryption

Returns

The encrypted blob of the length of the pubKey's modulus

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>InvalidKeyException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	

6.169.2.78 static byte [] gov.niarl.his.privacyca.TpmUtils.TCGAsymEncrypt (byte[] *payload*, RSAPublicKey *pubKey*) throws NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException, InvalidAlgorithmParameterException, IllegalBlockSizeException, BadPaddingException [static]

Perform an asymmetric encryption of a byte array in the way specified by the TCG for all TPM-related operations, using the OAEP string "TCPA" as specified.

Parameters

<i>payload</i>	Byte array to encrypt
<i>pubKey</i>	RSA public key to use for encryption

Returns

The encrypted blob of the length of the pubKey's modulus

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>InvalidKeyException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	

6.169.2.79 `static byte [] gov.niarl.his.privacyca.TpmUtils.TCGSymDecrypt (byte[] ciphertext, byte[] key, byte[] iv) throws
 NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException, InvalidAlgorithmParameterException,
 IllegalBlockSizeException, BadPaddingException [static]`

Decrypt an AES/CBC/PKCS5Padded symmetrically encrypted blob, using the given key and IV.

Parameters

<i>ciphertext</i>	The encrypted byte array
<i>key</i>	The key used to perform the decryption
<i>iv</i>	The Initialization Vector used

Returns

The decrypted byte array

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>InvalidKeyException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	

6.169.2.80 `static byte [] gov.niarl.his.privacyca.TpmUtils.TCGSymDecrypt (byte[] ciphertext, byte[] key, byte[] iv) throws
 NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException, InvalidAlgorithmParameterException,
 IllegalBlockSizeException, BadPaddingException [static]`

Decrypt an AES/CBC/PKCS5Padded symmetrically encrypted blob, using the given key and IV.

Parameters

<i>ciphertext</i>	The encrypted byte array
<i>key</i>	The key used to perform the decryption
<i>iv</i>	The Initialization Vector used

Returns

The decrypted byte array

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>InvalidKeyException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	

6.169.2.81 static byte [] gov.niarl.his.privacyca.TpmUtils.TCGSymEncrypt (byte[] *payload*, byte[] *key*, byte[] *iv*) throws
 NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException, InvalidAlgorithmParameterException,
 IllegalBlockSizeException, BadPaddingException [static]

Perform a symmetric encryption of a byte array in the way specified by the TCG for all TPM-related symmetric encryption activities. The given key and IV are used.

Parameters

<i>payload</i>	Byte array to encrypt
<i>key</i>	Symmetric (AES) key to use. Exception will be thrown if key is an invalid length.
<i>iv</i>	Initialization Vector to use. Exception will be thrown if IV is an invalid length.

Returns

Encrypted byte blob.

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>InvalidKeyException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	

6.169.2.82 static byte [] gov.niarl.his.privacyca.TpmUtils.TCGSymEncrypt (byte[] *payload*, byte[] *key*, byte[] *iv*) throws
 NoSuchAlgorithmException, NoSuchPaddingException, InvalidKeyException, InvalidAlgorithmParameterException,
 IllegalBlockSizeException, BadPaddingException [static]

Perform a symmetric encryption of a byte array in the way specified by the TCG for all TPM-related symmetric encryption activities. The given key and IV are used.

Parameters

<i>payload</i>	Byte array to encrypt
<i>key</i>	Symmetric (AES) key to use. Exception will be thrown if key is an invalid length.
<i>iv</i>	Initialization Vector to use. Exception will be thrown if IV is an invalid length.

Returns

Encrypted byte blob.

Exceptions

<i>NoSuchAlgorithmException</i>	
<i>NoSuchPaddingException</i>	
<i>InvalidKeyException</i>	
<i>InvalidAlgorithmParameterException</i>	
<i>IllegalBlockSizeException</i>	
<i>BadPaddingException</i>	

6.169.2.83 static boolean gov.niarl.his.privacyca.TpmUtils.verifyTPM (X509Certificate *ekCred*) [static]

This function is not yet implemented. The intended purpose is to check the validity of an EK certificate supplied in an identity request. A valid certificate is one signed by a trusted entity. Another potential version of validity is the EK being present in a database of known TPMs.

Parameters

<i>ekCred</i>	The EK certificate from the identity proof.
---------------	---

Returns

True, if EK certificate passes verification.

6.169.2.84 static boolean gov.niarl.his.privacyca.TpmUtils.verifyTPM (X509Certificate *ekCred*) [static]

This function is not yet implemented. The intended purpose is to check the validity of an EK certificate supplied in an identity request. A valid certificate is one signed by a trusted entity. Another potential version of validity is the EK being present in a database of known TPMs.

Parameters

<i>ekCred</i>	The EK certificate from the identity proof.
---------------	---

Returns

True, if EK certificate passes verification.

6.170 gov.niarl.hisAppraiser.hibernate.domain.TxtLog Class Reference

Public Member Functions

- Long [getId](#) ()
- void [setId](#) (Long *id*)
- [MeasureLog](#) [getMeasureLog](#) ()
- void [setMeasureLog](#) ([MeasureLog](#) *measureLog*)
- String [getOsSinitDataCapabilities](#) ()
- void [setOsSinitDataCapabilities](#) (String *osSinitDataCapabilities*)
- Integer [getVersion](#) ()

- void [setVersion](#) (Integer [version](#))
- String [getSinitHash](#) ()
- void [setSinitHash](#) (String [sinitHash](#))
- String [getEdxSenterFlags](#) ()
- void [setEdxSenterFlags](#) (String [edxSenterFlags](#))
- String [getBiosAcmlId](#) ()
- void [setBiosAcmlId](#) (String [biosAcmlId](#))
- String [getMsegValid](#) ()
- void [setMsegValid](#) (String [msegValid](#))
- String [getStmHash](#) ()
- void [setStmHash](#) (String [stmHash](#))
- String [getPolicyControl](#) ()
- void [setPolicyControl](#) (String [policyControl](#))
- String [getLcpPolicyHash](#) ()
- void [setLcpPolicyHash](#) (String [lcpPolicyHash](#))
- String [getProcessorScrTmStatus](#) ()
- void [setProcessorScrTmStatus](#) (String [processorScrTmStatus](#))
- String [getMleHash](#) ()
- void [setMleHash](#) (String [mleHash](#))

Private Attributes

- Long [id](#)
- [MeasureLog](#) [measureLog](#)
- String [osSinitDataCapabilities](#)
- Integer [version](#)
- String [sinitHash](#)
- String [edxSenterFlags](#)
- String [biosAcmlId](#)
- String [msegValid](#)
- String [stmHash](#)
- String [policyControl](#)
- String [lcpPolicyHash](#)
- String [processorScrTmStatus](#)
- String [mleHash](#)

6.170.1 Member Function Documentation

- 6.170.1.1 String [gov.niarl.hisAppraiser.hibernate.domain.TxtLog.getBiosAcmlId](#) ()
- 6.170.1.2 String [gov.niarl.hisAppraiser.hibernate.domain.TxtLog.getEdxSenterFlags](#) ()
- 6.170.1.3 Long [gov.niarl.hisAppraiser.hibernate.domain.TxtLog.getId](#) ()
- 6.170.1.4 String [gov.niarl.hisAppraiser.hibernate.domain.TxtLog.getLcpPolicyHash](#) ()
- 6.170.1.5 [MeasureLog](#) [gov.niarl.hisAppraiser.hibernate.domain.TxtLog.getMeasureLog](#) ()
- 6.170.1.6 String [gov.niarl.hisAppraiser.hibernate.domain.TxtLog.getMleHash](#) ()
- 6.170.1.7 String [gov.niarl.hisAppraiser.hibernate.domain.TxtLog.getMsegValid](#) ()
- 6.170.1.8 String [gov.niarl.hisAppraiser.hibernate.domain.TxtLog.getOsSinitDataCapabilities](#) ()

- 6.170.1.9 `String gov.niarl.hisAppraiser.hibernate.domain.TxtLog.getPolicyControl ()`
- 6.170.1.10 `String gov.niarl.hisAppraiser.hibernate.domain.TxtLog.getProcessorScrTmStatus ()`
- 6.170.1.11 `String gov.niarl.hisAppraiser.hibernate.domain.TxtLog.getSinitHash ()`
- 6.170.1.12 `String gov.niarl.hisAppraiser.hibernate.domain.TxtLog.getStmHash ()`
- 6.170.1.13 `Integer gov.niarl.hisAppraiser.hibernate.domain.TxtLog.getVersion ()`
- 6.170.1.14 `void gov.niarl.hisAppraiser.hibernate.domain.TxtLog.setBiosAcmlId (String biosAcmlId)`
- 6.170.1.15 `void gov.niarl.hisAppraiser.hibernate.domain.TxtLog.setEdxSenterFlags (String edxSenterFlags)`
- 6.170.1.16 `void gov.niarl.hisAppraiser.hibernate.domain.TxtLog.setId (Long id)`
- 6.170.1.17 `void gov.niarl.hisAppraiser.hibernate.domain.TxtLog.setLcpPolicyHash (String lcpPolicyHash)`
- 6.170.1.18 `void gov.niarl.hisAppraiser.hibernate.domain.TxtLog.setMeasureLog (MeasureLog measureLog)`
- 6.170.1.19 `void gov.niarl.hisAppraiser.hibernate.domain.TxtLog.setMleHash (String mleHash)`
- 6.170.1.20 `void gov.niarl.hisAppraiser.hibernate.domain.TxtLog.setMsegValid (String msegValid)`
- 6.170.1.21 `void gov.niarl.hisAppraiser.hibernate.domain.TxtLog.setOsSinitDataCapabilities (String osSinitDataCapabilities)`
- 6.170.1.22 `void gov.niarl.hisAppraiser.hibernate.domain.TxtLog.setPolicyControl (String policyControl)`
- 6.170.1.23 `void gov.niarl.hisAppraiser.hibernate.domain.TxtLog.setProcessorScrTmStatus (String processorScrTmStatus)`
- 6.170.1.24 `void gov.niarl.hisAppraiser.hibernate.domain.TxtLog.setSinitHash (String sinitHash)`
- 6.170.1.25 `void gov.niarl.hisAppraiser.hibernate.domain.TxtLog.setStmHash (String stmHash)`
- 6.170.1.26 `void gov.niarl.hisAppraiser.hibernate.domain.TxtLog.setVersion (Integer version)`

6.170.2 Member Data Documentation

- 6.170.2.1 `String gov.niarl.hisAppraiser.hibernate.domain.TxtLog.biosAcmlId [private]`
- 6.170.2.2 `String gov.niarl.hisAppraiser.hibernate.domain.TxtLog.edxSenterFlags [private]`
- 6.170.2.3 `Long gov.niarl.hisAppraiser.hibernate.domain.TxtLog.id [private]`
- 6.170.2.4 `String gov.niarl.hisAppraiser.hibernate.domain.TxtLog.lcpPolicyHash [private]`
- 6.170.2.5 `MeasureLog gov.niarl.hisAppraiser.hibernate.domain.TxtLog.measureLog [private]`
- 6.170.2.6 `String gov.niarl.hisAppraiser.hibernate.domain.TxtLog.mleHash [private]`
- 6.170.2.7 `String gov.niarl.hisAppraiser.hibernate.domain.TxtLog.msegValid [private]`
- 6.170.2.8 `String gov.niarl.hisAppraiser.hibernate.domain.TxtLog.osSinitDataCapabilities [private]`
- 6.170.2.9 `String gov.niarl.hisAppraiser.hibernate.domain.TxtLog.policyControl [private]`

- 6.170.2.10 String gov.niari.hisAppraiser.hibernate.domain.TxtLog.processorScrTmStatus [private]
- 6.170.2.11 String gov.niari.hisAppraiser.hibernate.domain.TxtLog.sinitHash [private]
- 6.170.2.12 String gov.niari.hisAppraiser.hibernate.domain.TxtLog.stmHash [private]
- 6.170.2.13 Integer gov.niari.hisAppraiser.hibernate.domain.TxtLog.version [private]

Chapter 7

Hibernate mapping

7.1 **POL New** com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes

```
1 <?xml version="1.0"?>
2 <!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
3   "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
4
5 <hibernate-mapping>
6   <class name="com.intel.openAttestation.manifest.hibernate.domain.AnalysisTypes" table="analysis_types">
7     <id name="name" column="name" type="string"/>
8     <property name="module" column="module"/>
9     <property name="version" column="version"/>
10    <property name="inputParameters" column="input_parameters"/>
11    <property name="outputParameters" column="output_parameters"/>
12    <property name="maxOutputSize" column="max_output_size"/>
13    <property name="URL" column="url"/>
14    <property name="deleted" type="boolean" column="deleted"/>
15  </class>
16 </hibernate-mapping>
```

7.2 com.intel.openAttestation.manifest.hibernate.domain.MLE

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
3   "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
4
5 <hibernate-mapping>
6   <class name="com.intel.openAttestation.manifest.hibernate.domain.MLE" table="MLE">
7     <id name="MLEID" column="ID" type="long" unsaved-value="null">
8       <generator class="native"/>
9     </id>
10    <property name="Name" column="NAME"/>
11    <property name="Version" column="VERSION"/>
12    <many-to-one name="oem" class="com.intel.openAttestation.manifest.hibernate.domain.OEM" column="OEM_ID"/>
13    <many-to-one name="os" class="com.intel.openAttestation.manifest.hibernate.domain.OS" column="OS_ID"/>
14    <property name="Attestation_Type" column="ATTESTATION_TYPE"/>
15    <property name="MLE_Type" column="MLE_TYPE"/>
16    <property name="Description" column="DESCRIPTION"/>
17  </class>
18 </hibernate-mapping>
```

7.3 com.intel.openAttestation.manifest.hibernate.domain.PcrWhiteList

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
3   "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
4 <hibernate-mapping>
5   <class name="com.intel.openAttestation.manifest.hibernate.domain.PcrWhiteList" table="PCR_WHITE_LIST">
6     <id name="PcrWhiteListID" column="ID" type="long" unsaved-value="null">
7       <generator class="native" />
8     </id>
9     <property name="pcrName" column="PCR_NAME"/>
10    <property name="pcrDigest" column="PCR_DIGEST"/>
11    <many-to-one name="mle" class="com.intel.openAttestation.manifest.hibernate.domain.MLE" column="
12      MLE_ID"/>
13  </class>
14 </hibernate-mapping>

```

7.4 POL Mod com.intel.openAttestation.manifest.hibernate.domain.AttestRequest

```

1 <?xml version="1.0"?>
2 <!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
3   "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
4 <hibernate-mapping>
5   <class name="com.intel.openAttestation.manifest.hibernate.domain.AttestRequest" table="attest_request">
6     <id name="id" column="id" type="long" unsaved-value="null">
7       <generator class="native" />
8     </id>
9     <property name="requestId" column="request_id"/>
10    <property name="hostName" column="host_name"/>
11    <property name="requestTime" column="request_time"/>
12    <property name="nextAction" column="next_action"/>
13    <property name="isConsumedByPollingWS" column="is_consumed_by_pollingWS"/>
14    <property name="auditLog" column="audit_log_id" unique="true"/>
15    <property name="machineCert" column="host_id"/>
16    <property name="requestHost" column="request_host"/>
17    <property name="count"></property>
18    <property name="PCRMask"></property>
19    <property name="isSync" column="is_sync"/>
20    <property name="result"></property>
21    <property name="validateTime" column="validate_time"></property>
22    <property name="analysisType" column="analysis_type"/>
23    <property name="resultDetailed" column="result_detailed"/>
24  </class>
25 </hibernate-mapping>

```

7.5 com.intel.openAttestation.manifest.hibernate.domain.HOST

```

1 <?xml version="1.0"?>
2 <!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
3   "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
4 <hibernate-mapping>
5   <class name="com.intel.openAttestation.manifest.hibernate.domain.HOST" table="HOST">
6     <id name="ID" column="ID" type="long" unsaved-value="null">
7       <generator class="native" />
8     </id>
9     <property name="HostName" column="HOST_NAME"/>
10    <property name="IPAddress" column="IP_ADDRESS"/>
11    <property name="Port" column="PORT"/>
12    <property name="Email" column="EMAIL"/>
13  </class>

```

```

15     <property name="AddOn_Connection_String" column="ADDON_CONNECTION_STRING" />
16     <property name="Description" column="DESCRIPTION" />
17 </class>
18 </hibernate-mapping>

```

7.6 **POL New** com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes

```

1 <?xml version="1.0"?>
2 <!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
3   "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
4
5 <hibernate-mapping>
6   <class name="com.intel.openAttestation.AttestationService.hibernate.domain.AnalysisTypes" table="
7     analysis_types">
8     <id name="name" column="name" type="string">
9       <generator class="native" />
10     </id>
11     <property name="module" column="module" />
12     <property name="version" column="version" />
13     <property name="inputParameters" column="input_parameters" />
14     <property name="outputParameters" column="output_parameters" />
15     <property name="maxOutputSize" column="max_output_size" />
16     <property name="URL" column="url" />
17     <property name="deleted" type="boolean" column="deleted" />
18   </class>
19 </hibernate-mapping>

```

7.7 **POL Mod** com.intel.openAttestation.AttestationService.hibernate.domain.AttestRequest

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
3   "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
4
5 <hibernate-mapping>
6   <class name="com.intel.openAttestation.AttestationService.hibernate.domain.AttestRequest" table="
7     attest_request">
8     <id name="id" column="id" type="long" unsaved-value="null">
9       <generator class="native" />
10     </id>
11     <property name="requestId" column="request_id" />
12     <property name="hostName" column="host_name" />
13     <property name="requestTime" column="request_time" />
14     <property name="nextAction" column="next_action" />
15     <property name="isConsumedByPollingWS" column="is_consumed_by_pollingWS" />
16     <many-to-one name="auditLog" class="gov.niarl.hisAppraiser.hibernate.domain.AuditLog" lazy="false"
17       column="audit_log_id" unique="true" />
18     <many-to-one name="machineCert" class="gov.niarl.hisAppraiser.hibernate.domain.MachineCert" lazy="
19       false" column="host_id" />
20     <property name="requestHost" column="request_host" />
21     <property name="count" />
22     <property name="PCRMask"></property>
23     <property name="isSync" column="is_sync" />
24     <property name="result" />
25     <property name="validateTime" column="validate_time" />
26     <property name="analysisType" column="analysis_type" />
27     <property name="resultDetailed" column="result_detailed" />
28   </class>
29 </hibernate-mapping>

```

7.8 com.intel.openAttestation.AttestationService.hibernate.domain.HOST

```

1 <?xml version="1.0"?>
2 <!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
3   "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
4
5 <hibernate-mapping>
6   <class name="com.intel.openAttestation.AttestationService.hibernate.domain.HOST" table="HOST">
7     <id name="ID" column="ID" type="long" unsaved-value="null">
8       <generator class="native" />
9     </id>
10    <property name="HostName" column="HOST_NAME"/>
11    <property name="IPAddress" column="IP_ADDRESS"/>
12    <property name="Port" column="PORT"/>
13    <property name="Email" column="EMAIL"/>
14    <property name="AddOn_Connection_String" column="ADDON_CONNECTION_STRING"/>
15    <property name="Description" column="DESCRIPTION"/>
16  </class>
17 </hibernate-mapping>

```

7.9 **POL New** gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes

```

1 <?xml version="1.0"?>
2 <!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
3   "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
4
5 <hibernate-mapping>
6   <class name="gov.niarl.hisAppraiser.hibernate.domain.AnalysisTypes" table="analysis_types">
7     <id name="name" column="name" type="string">
8       <generator class="native" />
9     </id>
10    <property name="module" column="module"/>
11    <property name="version" column="version"/>
12    <property name="inputParameters" column="input_parameters"/>
13    <property name="outputParameters" column="output_parameters"/>
14    <property name="maxOutputSize" column="max_output_size"/>
15    <property name="URL" column="url"/>
16    <property name="deleted" type="boolean" column="deleted"/>
17  </class>
18 </hibernate-mapping>

```

7.10 gov.niarl.hisAppraiser.hibernate.domain.MLE

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
3   "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
4
5 <hibernate-mapping>
6   <class name="gov.niarl.hisAppraiser.hibernate.domain.MLE" table="MLE">
7     <id name="MLEID" column="ID" type="long" unsaved-value="null">
8       <generator class="native" />
9     </id>
10    <property name="Name" column="NAME"/>
11    <property name="Version" column="VERSION"/>
12    <many-to-one name="oem" class="gov.niarl.hisAppraiser.hibernate.domain.OEM" column="OEM_ID"/>
13    <many-to-one name="os" class="gov.niarl.hisAppraiser.hibernate.domain.OS" column="OS_ID"/>
14    <property name="Attestation_Type" column="ATTESTATION_TYPE"/>
15    <property name="MLE_Type" column="MLE_TYPE"/>
16    <property name="Description" column="DESCRIPTION"/>
17  </class>
18 </hibernate-mapping>

```


7.11 gov.niarl.hisAppraiser.hibernate.domain.PcrWhiteList

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
3   "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
4
5 <hibernate-mapping>
6   <class name="gov.niarl.hisAppraiser.hibernate.domain.PcrWhiteList" table="PCR_WHITE_LIST">
7     <id name="PcrWhiteListID" column="ID" type="long" unsaved-value="null">
8       <generator class="native" />
9     </id>
10    <property name="pcrName" column="PCR_NAME" />
11    <property name="pcrDigest" column="PCR_DIGEST" />
12    <many-to-one name="mle" class="gov.niarl.hisAppraiser.hibernate.domain.MLE" column="MLE_ID" />
13  </class>
14 </hibernate-mapping>

```

7.12 gov.niarl.hisAppraiser.hibernate.domain.SystemConstants

```

1 <?xml version="1.0"?>
2 <!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
3   "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
4
5 <hibernate-mapping>
6   <class name="gov.niarl.hisAppraiser.hibernate.domain.SystemConstants" table="system_constants">
7     <id name="id" column="id" type="long" unsaved-value="null">
8       <generator class="native" />
9     </id>
10    <property name="keyId" column="key_id" />
11    <property name="value" column="value" />
12    <property name="description" column="description" />
13  </class>
14 </hibernate-mapping>

```

7.13 gov.niarl.hisAppraiser.hibernate.domain.Module

```

1 <?xml version="1.0"?>
2 <!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
3   "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
4
5 <hibernate-mapping>
6   <class name="gov.niarl.hisAppraiser.hibernate.domain.Module" table="module">
7     <id name="id" column="id" type="long" unsaved-value="null">
8       <generator class="native" />
9     </id>
10    <many-to-one name="measureLog" column="measure_id" class="gov.niarl.hisAppraiser.hibernate.domain.
11      MeasureLog" />
12    <property name="moduleName" column="module_name" />
13    <property name="moduleValue" column="module_value" />
14    <property name="pcrNumber" column="pcr_number" />
15  </class>
16 </hibernate-mapping>

```

7.14 POL Mod gov.niarl.hisAppraiser.hibernate.domain.AttestRequest

```

1 <?xml version="1.0"?>
2 <!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
   "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
4
5 <hibernate-mapping>
6   <class name="gov.niarl.hisAppraiser.hibernate.domain.AttestRequest" table="attest_request">
7     <id name="id" column="id" type="long" unsaved-value="null">
8       <generator class="native" />
9     </id>
10    <property name="requestId" column="request_id"/>
11    <property name="hostName" column="host_name"/>
12    <property name="requestTime" column="request_time"/>
13    <property name="nextAction" column="next_action"/>
14    <property name="isConsumedByPollingWS" column="is_consumed_by_pollingWS"/>
15    <many-to-one name="auditLog" class="gov.niarl.hisAppraiser.hibernate.domain.AuditLog" column="
16      audit_log_id" unique="true"/>
17    <many-to-one name="machineCert" class="gov.niarl.hisAppraiser.hibernate.domain.MachineCert" column=
18      ="host_id"/>
19    <property name="requestHost" column="request_host"/>
20    <property name="count"></property>
21    <property name="PCRMask"></property>
22    <property name="isSync" column="is_sync"/>
23    <property name="result"></property>
24    <property name="validateTime" column="validate_time"></property>
25    <property name="analysisType" column="analysis_type"/>
26    <property name="resultDetailed" column="result_detailed"/>
27  </class>
28 </hibernate-mapping>

```

7.15 gov.niarl.hisAppraiser.hibernate.domain.Alerts

```

1 <?xml version="1.0"?>
2 <!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
3   "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
4
5 <hibernate-mapping>
6   <class name="gov.niarl.hisAppraiser.hibernate.domain.Alerts" table="alerts">
7     <id name="id" column="id" type="long" unsaved-value="null">
8       <generator class="native" />
9     </id>
10    <many-to-one name="auditLog" column="audit_fk" class="gov.niarl.hisAppraiser.hibernate.domain.
11      AuditLog"/>
12    <property name="status" column="status"/>
13    <property name="assignedTo" column="assignedTo"/>
14    <property name="comments" column="comments"/>
15  </class>
16 </hibernate-mapping>

```

7.16 POL New gov.niarl.hisAppraiser.hibernate.domain.IMAMeasures

```

1 <?xml version="1.0"?>
2 <!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
3   "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
4
5 <hibernate-mapping>
6   <class name="gov.niarl.hisAppraiser.hibernate.domain.IMAMeasures" table="IMA_measures">
7     <id name="id" column="id" type="long" unsaved-value="null">
8       <generator class="native" />
9     </id>

```

```
10     <many-to-one name="report" class="gov.niarl.hisAppraiser.hibernate.domain.AuditLog" column="audit_id"
    />
    <property name="IMA" type="java.lang.String" column="IMA_row"/>
12 </class>
</hibernate-mapping>
```

7.17 gov.niarl.hisAppraiser.hibernate.domain.HOST_MLE

```
1 <?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
3 "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
<hibernate-mapping>
5   <class name="gov.niarl.hisAppraiser.hibernate.domain.HOST_MLE" table="HOST_MLE">
      <id name="ID" column="ID" type="long" unsaved-value="null">
7         <generator class="native" />
      </id>
      <many-to-one name="host" class="gov.niarl.hisAppraiser.hibernate.domain.HOST" column="HOST_ID"/>
      <many-to-one name="mle" class="gov.niarl.hisAppraiser.hibernate.domain.MLE" column="MLE_ID"/>
9   </class>
11 </hibernate-mapping>
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