
Package
org.idmef

org.idmef

Class IDMEFException

```

java.lang.Object
  |
  +- java.lang.Throwable
        |
        +- java.lang.Exception
              |
              +- java.io.IOException
                    |
                    +- org.idmef.IDMEFException
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class IDMEFException
extends java.io.IOException
  
```

IDMEF exception class. IDMEF exceptions are thrown when validating, serializing an object or deserializing bytes.

Constructor Summary

public	IDMEFException (java.lang.String message) Construct a IDMEFException
--------	---

Methods inherited from class java.lang.Throwable

addSuppressed, fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, getSuppressed, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

IDMEFException

```
public IDMEFException(java.lang.String message)
```

Construct a IDMEFException

Parameters:

message - the message contained in the exception

org.idmef Class IDMEFObject

java.lang.Object

└-org.idmef.IDMEFObject

public class **IDMEFObject**
extends java.lang.Object

IDMEF base object.

This implementation provides:

- property getting
- property setting: no check is done on property key, check is done by IDMEFValidator
- serialization of a IDMEFObject instance to JSON bytes
- deserialization if JSON bytes to a IDMEFObject instance

Constructor Summary

public	IDMEFObject() Construct an empty IDMEFObject.
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Method Summary

static IDMEFObject	deserialize (byte[] json) Deserialize JSON bytes to a IDMEFObject
boolean	equals (java.lang.Object obj) Indicates whether some other object is "equal to" this one.
java.lang.Object	get (java.lang.String key) Get a property by its key.
java.util.Map	getProperties () Get all properties of the object.
java.lang.Object	put (java.lang.String key, java.lang.Object value) Set a property of the Message.
byte[]	serialize () Serialize a Message to JSON bytes.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

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IDMEFObject

```
public IDMEFObject()
```

Construct an empty IDMEFObject.

Methods

getProperties

```
public java.util.Map getProperties()
```

Get all properties of the object.

Returns:

a Map containing IDMEFObject properties

get

```
public java.lang.Object get(java.lang.String key)
```

Get a property by its key.

Parameters:

key - the property key

Returns:

the value associated to the key or null

put

```
public java.lang.Object put(java.lang.String key,  
                           java.lang.Object value)
```

Set a property of the Message. If value is an array, transform it to a List before setting the property

Parameters:

key - the property key

value - the property value

Returns:

the real value that was set

equals

```
public boolean equals(java.lang.Object obj)
```

Indicates whether some other object is "equal to" this one.

Parameters:

obj - the reference object with which to compare.

Returns:

if this object is the same as the obj argument; false otherwise.

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serialize

```
public byte[] serialize()  
    throws java.io.IOException
```

Serialize a Message to JSON bytes.

Returns:

the JSON bytes

Throws:

[IDMEFException](#) - if an exception occurred during serialization

deserialize

```
public static IDMEFObject deserialize(byte[] json)  
    throws java.io.IOException
```

Deserialize JSON bytes to a IDMEFObject

Parameters:

json - the JSON bytes

Returns:

a IDMEFObject object with content filled from JSON

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Class IDMEFObjectDeserializer



public class **IDMEFObjectDeserializer**
extends <any>

Class for IDMEFObject deserialization. Class inherits from com.fasterxml.jackson.databind.deser.std.StdDeserializer and overrides deserialize method.

See Also:
com.fasterxml.jackson.databind.deser.std.StdDeserializer

Constructor Summary	
public	IDMEFObjectDeserializer() Construct a IDMEFObjectDeserializer instance
public	IDMEFObjectDeserializer(java.lang.Class vc) Construct a IDMEFObjectDeserializer instance

Method Summary	
IDMEFObject	deserialize(JsonParser jp, DeserializationContext context) Deserialize JSON content to a IDMEFObject

Methods inherited from class java.lang.Object	
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait	

Constructors

IDMEFObjectDeserializer

public **IDMEFObjectDeserializer()**

Construct a IDMEFObjectDeserializer instance

IDMEFObjectDeserializer

public **IDMEFObjectDeserializer(java.lang.Class vc)**

Construct a IDMEFObjectDeserializer instance

Parameters:
vc - the class to which to deserialize

Methods

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deserialize

```
public IDMEFObject deserialize(JsonParser jp,  
    DeserializationContext context)  
    throws java.io.IOException,  
        JsonProcessingException
```

Deserialize JSON content to a IDMEFObject

Parameters:

jp - Parser used for reading JSON content

context - Context that can be used to access information about this deserialization activity.

Returns:

deserialized IDMEFObject

Throws:

IOException - if an exception occurred during JSON content reading

JsonProcessingException - if an exception occurred when processing (parsing, generating) JSON content that are not pure I/O problems.

org.idmef

Class IDMEFValidator

java.lang.Object

└─org.idmef.IDMEFValidator

public class **IDMEFValidator**
extends java.lang.Object

IDMEF validator class. This class can validate a IDMEF object or an array of bytes containing JSON data. Validation is done against version 2 revision 0.3 of the IDMEF schema.

Constructor Summary

public	IDMEFValidator() Constructs a Validator.
--------	---

Method Summary

boolean	validate (byte[] json) Validate the bytes w.r.t. current IDMEF JSON schema.
boolean	validate (IDMEFObject idmefObject) Validate the object content w.r.t. current IDMEF JSON schema.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

IDMEFValidator

public **IDMEFValidator**()

Constructs a Validator.

Methods

validate

public boolean **validate**([IDMEFObject](#) idmefObject)
throws [IDMEFException](#)

Validate the object content w.r.t. current IDMEF JSON schema.

Parameters:

idmefObject - a IDMEF object instance

Returns:

true is json contains a valid IDMEF object according to schema, false if not

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Throws:

[IDMEFException](#) - if an exception occurred during validation (schema cannot be loaded)

validate

```
public boolean validate(byte[] json)
    throws java.io.IOException
```

Validate the bytes w.r.t. current IDMEF JSON schema.

Parameters:

`json` - a byte array containing the JSON data

Returns:

true if json contains a valid IDMEF object according to schema, false if not

Throws:

[IDMEFException](#) - if an exception occurred during validation (schema cannot be loaded)