
Package

org.idmef.transport.client

org.idmef.transport.client Class IDMEFClient

java.lang.Object

└--org.idmef.transport.client.IDMEFClient

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

Client part of the IDMEF transport. This implementation provides:

- IDMEF message sending over HTTP

Constructor Summary

public	<u>IDMEFClient</u> (java.lang.String url) Initialize a IDMEFClient
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Method Summary

java.net.http.HttpResponse	<u>send</u> (IDMEFObject message) Send a IDMEF message other HTTP using a POST request Call is synchronous and will block until message is sent.
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Methods inherited from class java.lang.Object

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

Constructors

IDMEFClient

public **IDMEFClient**(java.lang.String url)

Initialize a IDMEFClient

Parameters:

url - the URL of the server, for instance "http://127.0.0.1:9999"

Methods

send

public java.net.http.HttpResponse **send**(IDMEFObject message)
throws java.io.IOException,
java.lang.InterruptedException

Send a IDMEF message other HTTP using a POST request Call is synchronous and will block until message is sent.

Parameters:

message - the message to send

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Returns:

the HTTP response

Throws:

`IOException` - if an I/O error occurred

`InterruptedException` - if call was interrupted

Package

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Interface IDMEFHttpMessageHandler

public interface **IDMEFHttpMessageHandler**
extends

A handler which is invoked to process a received IDMEF message;

Method Summary

abstract void	handleMessage (IDMEFObject message)
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Methods

handleMessage

public abstract void **handleMessage**(IDMEFObject message)

Parameters:

message - the message to process; message has already been validated against JSON schema

org.idmef.transport.server

Class IDMEFHttpServer

java.lang.Object

└--org.idmef.transport.server.IDMEFHttpServer

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

Server part of the IDMEF transport. This implementation provides:

- IDMEF message reception over HTTP

Constructor Summary

public	IDMEFHttpServer (int port, java.lang.String context, IDMEFHttpMessageHandler messageHandler) Initializes a server.
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Method Summary

void	start() Start the HTTP server.
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Methods inherited from class java.lang.Object

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

Constructors

IDMEFHttpServer

```
public IDMEFHttpServer(int port,  
                        java.lang.String context,  
                        IDMEFHttpMessageHandler messageHandler)
```

Initializes a server. Creates the underlying HttpServer and its associated handler. The HTTP request handler:

- deserializes the received JSON bytes; if deserialization fails, no further processing is performed
- validates the deserialized IDMEFObject
- if message is valid, calls the message handler

Parameters:

port - the TCP port on which server will listen, for instance 9999

context - the context to which server will answer, for instance "/" or "/api"

messageHandler - an instance of a class implementing IDMEFHttpMessageHandler

Throws:

IOException - if an error occurred during HttpServer creation, for instance port is not available.

Methods

start

```
public void start()
```

Start the HTTP server. This method blocks until server exits or is interrupted.