|  |  |
| --- | --- |
| **Packages** | |
| **Package** | **Description** |
| [**org.idmef.transport.client**](file:///\\192.168.56.1\francois\projects\SECEF\work\java-idmef-transport-library\build\docs\javadoc\org\idmef\transport\client\package-summary.html) |  |
| [**org.idmef.transport.server**](file:///\\192.168.56.1\francois\projects\SECEF\work\java-idmef-transport-library\build\docs\javadoc\org\idmef\transport\server\package-summary.html) |  |

Package [org.idmef.transport.client](\\\\192.168.56.1\\francois\\projects\\SECEF\\work\\java-idmef-transport-library\\build\\docs\\javadoc\\org\\idmef\\transport\\client\\package-summary.html)

## 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***

|  |  |
| --- | --- |
| **Constructors** | |
| **Constructor** | **Description** |
| [IDMEFClient](#%3Cinit%3E(java.lang.String))​(java.lang.String url) | Initialize a IDMEFClient |

* + ***Method Summary***

|  |  |  |
| --- | --- | --- |
| **All Methods**[**Instance Methods**](javascript:show(2);)[**Concrete Methods**](javascript:show(8);) | | |
| **Modifier and Type** | **Method** | **Description** |
| java.net.http.HttpResponse<java.lang.String> | [send](#send(org.idmef.IDMEFObject))​(org.idmef.IDMEFObject message) | Send a IDMEF message other HTTP using a POST request Call is synchronous and will block until message is sent. |

* + - **Methods inherited from class java.lang.Object**

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

* + ***Constructor Detail***
    - **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"

* + ***Method Detail***
    - **send**

public java.net.http.HttpResponse<java.lang.String> send​(org.idmef.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

Returns:

the HTTP response

Throws:

java.io.IOException - if an I/O error occurred

java.lang.InterruptedException - if call was interrupted

Package [org.idmef.transport.server](\\\\192.168.56.1\\francois\\projects\\SECEF\\work\\java-idmef-transport-library\\build\\docs\\javadoc\\org\\idmef\\transport\\server\\package-summary.html)

## 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***

|  |  |
| --- | --- |
| **Constructors** | |
| **Constructor** | **Description** |
| [IDMEFHttpServer](#%3Cinit%3E(int,java.lang.String,org.idm)​(int port, java.lang.String context, [**IDMEFHttpMessageHandler**](file:///\\192.168.56.1\francois\projects\SECEF\work\java-idmef-transport-library\build\docs\javadoc\org\idmef\transport\server\IDMEFHttpMessageHandler.html) messageHandler) | Initializes a server. |

* + ***Method Summary***

|  |  |  |
| --- | --- | --- |
| **All Methods**[**Instance Methods**](javascript:show(2);)[**Concrete Methods**](javascript:show(8);) | | |
| **Modifier and Type** | **Method** | **Description** |
| void | [start](#start())() | Start the HTTP server. |

* + - **Methods inherited from class java.lang.Object**

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

* + ***Constructor Detail***
    - **IDMEFHttpServer**
    - public IDMEFHttpServer​(int port,
    - java.lang.String context,
    - [IDMEFHttpMessageHandler](file:///\\192.168.56.1\francois\projects\SECEF\work\java-idmef-transport-library\build\docs\javadoc\org\idmef\transport\server\IDMEFHttpMessageHandler.html) messageHandler)

throws java.io.IOException

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:

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

* + ***Method Detail***
    - **start**

public void start()

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

Package [org.idmef.transport.server](\\\\192.168.56.1\\francois\\projects\\SECEF\\work\\java-idmef-transport-library\\build\\docs\\javadoc\\org\\idmef\\transport\\server\\package-summary.html)

## Interface IDMEFHttpMessageHandler

public interface IDMEFHttpMessageHandler

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

* + ***Method Summary***

|  |  |  |
| --- | --- | --- |
| **All Methods** [**Instance Methods**](javascript:show(2);) [**Abstract Methods**](javascript:show(4);) | | |
| **Modifier and Type** | **Method** | **Description** |
| void | [handleMessage](#handleMessage(org.idmef.IDMEFObject))​(org.idmef.IDMEFObject message) |  |

* + ***Method Detail***
    - **handleMessage**

void handleMessage​(org.idmef.IDMEFObject message)

Parameters:

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