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## Structures

[IDMEFClient](file:///\\192.168.56.1\francois\projects\SECEF\work\swift-idmef-transport-library\doc\html\IDMEFClient)

Client part of the IDMEF transport.

[IDMEFServer](file:///\\192.168.56.1\francois\projects\SECEF\work\swift-idmef-transport-library\doc\html\IDMEFServer)

Server part of the IDMEF transport.

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# Structure IDMEFClient

public struct IDMEFClient

Client part of the IDMEF transport.

This implementation provides:

* IDMEF message sending over HTTP

## Initializers

### [init(url:​)](#idmefclient.init(url:))

public init(url: String)

Initialize a IDMEFClient.

#### Parameters

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| **url** | String | the URL of the server, for instance "http://127.0.0.1:9999" |

## Methods

### [send(message:​)](#idmefclient.send(message:))

public func send(message: IDMEFObject) -> (response: URLResponse?, error: Error?)

Send a IDMEF message other HTTP using a POST request.

The request is synchronous and the function waits till completion of the request.

#### Parameters

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| **message** | IDMEFObject | the message to send |

#### Returns

the HTTP response and an error (if an error occurred)

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[**swift-idmef-transport** Documentation](file:///\\192.168.56.1\francois\projects\SECEF\work\swift-idmef-transport-library\doc\html\IDMEFServer\)

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# Structure IDMEFServer

public struct IDMEFServer

Server part of the IDMEF transport.

This implementation provides:

* IDMEF message reception over HTTP

## Initializers

### [init(port:​)](#idmefserver.init(port:))

public init(port: Int)

Initialize a IDMEFServer.

#### Parameters

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| **port** | Int | the TCP port on which server will listen, for instance 9999 |

## Methods

### [start()](#idmefserver.start())

public func start()

Start the server loop.

This function is blocking and will loop forever.

When a JSON content is received, the JSON bytes are deserialized to a IDMEFObject and the created object is then validated against the JSON schema.

If valid, a HTTP "200 OK" response will be sent and the message will be printed. If not valid, a HTTP "500 Internal server error" response will be sent.

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