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

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## Structures

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

IDMEF base object.

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

IDMEF schema.

## Functions

[deserialize(json​String:​)](file:///\\192.168.56.1\francois\projects\SECEF\work\swift-idmef-library\doc\html\deserialize(jsonString_))

Deserialize JSON bytes to a Swift Dictionary

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# Structure IDMEFObject

public struct IDMEFObject

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
* validation of an IDMEFObject against JSON schema

## Initializers

### [init(content:​)](#idmefobject.init(content:))

public init(content: [String:Any]? = nil)

Initializes a IDMEFObject.

#### Parameters

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| **content** | [String:​Any]? | the optional content of the created IDMEFObject |

## Methods

### [serialize()](#idmefobject.serialize())

public func serialize() -> String?

Serialize a Message to JSON bytes.

#### Returns

the JSON bytes as a String

### [deserialize(json:​)](#idmefobject.deserialize(json:))

public static func deserialize(json: String) -> [IDMEFObject](file:///\\192.168.56.1\francois\projects\SECEF\work\swift-idmef-library\doc\html\IDMEFObject\IDMEFObject)?

Deserialize JSON bytes to a IDMEFObject

#### Parameters

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| **json** | String | the JSON bytes |

#### Returns

a IDMEFObject object with content filled from JSON

### [validate(simplified:​)](#idmefobject.validate(simplified:))

public func validate(simplified: Bool = true) throws -> Bool

Validate the content of a IDMEFObject

#### Parameters

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| **simplified** | Bool | if true, will use a simplified schema for testing |

#### Throws

an exception if an error occured during schema building

#### Returns

true if the IDMEFObject content is valid against the specified JSON schema, false if not

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   * [full()](#idmefschema.full())

# Structure IDMEFSchema

public struct IDMEFSchema

IDMEF schema.

This implementation provides:

* schema loading from file
* schema loading from resource

Schema is always returned as a dictionary.

## Methods

### [load​From​Resource(resource​Name:​)](#idmefschema.loadfromresource(resourcena)

public static func loadFromResource(resourceName: String) -> String

Load a resource.

#### Parameters

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| **resource​Name** | String | the name of the resource |

#### Returns

a string containing the resource content

### [simple()](#idmefschema.simple())

public static func simple() -> [String:Any]

Load a simplified version for testing of the IDMEF JSON schema.

Schema is obtained by deserializing the corresponding resource.

#### Returns

a dictionary containing the schema

### [full()](#idmefschema.full())

public static func full() -> [String:Any]

Load the complete version of the JSON schema.

Schema is obtained by deserializing the corresponding resource.

#### Returns

a dictionary containing the schema

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# Function deserialize(json​String:​)

public func deserialize(jsonString: String) -> [String:Any]

Deserialize JSON bytes to a Swift Dictionary

#### Parameters

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| **json​String** | String | the JSON bytes |

#### Returns

a Swift Dictionary with content filled from JSON

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