

# swift-idmef Documentation

## ON THIS PAGE

## Structures

### IDMEFObject

IDMEF base object.

### IDMEFSchema

IDMEF schema.

Structures

Functions

---

## Functions

### deserialize(jsonString:)

Deserialize JSON bytes to a Swift Dictionary

# swift-idmef Documentation

## ON THIS PAGE

### 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:)

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

Initializes a IDMEFObject.

### Initializers

init(content:)

### Methods

serialize()

deserialize(json:)

validate(simplif...

## Parameters

<b>content</b>	[String: Any]?	the optional content of the created IDMEFObject
----------------	-------------------	---

---

## Methods

### serialize()

```
public func serialize() -> String?
```

Serialize a Message to JSON bytes.

#### Returns

the JSON bytes as a String

---

### deserialize(json:)

```
public static func deserialize(json: String) -> IDMEFObject?
```

Deserialize JSON bytes to a IDMEFObject

#### Parameters

<b>json</b>	String	the JSON bytes
-------------	--------	----------------

#### Returns

a IDMEFObject object with content filled from JSON

---

### validate(simplified:)

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

Validate the content of a IDMEFObject

## Parameters

**simplified**    `Bool`    if true, will use a simplified schema for testing

## Throws

an exception if an error occurred during schema building

## Returns

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

# swift-idmef Documentation

## ON THIS PAGE

### 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

### loadFromResource(resource Name:)

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

Load a resource.

### Parameters

<b>resource Name</b>	String	the name of the resource
----------------------	--------	--------------------------

### Methods

loadFromResou...

simple()

full()

## Returns

a string containing the resource content

---

## 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()

```
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

Function

## deserialize(jsonString: String:)

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

Deserialize JSON bytes to a Swift Dictionary

---

### Parameters

<b>jsonString</b>	String	the JSON bytes
-------------------	--------	----------------

### Returns

a Swift Dictionary with content filled from JSON