**Subscription Restful API Instructions**

Below are the instructions for the use of the Subscription Restful API. All access calls begin at the URL of: **http://localhost:8080/subscription**

Headers are required for the use of the API for corresponding XML and JSON calls. The following headers must be present in each request:

Content-Type : application/json or text/xml

Accept : application/json or text/xml

The following below lists the API calls and their purpose as well as the required requests and the corresponding responses. All API requests will be represented in JSON but the equivalent XML counterpart will be accepted. The variable type will be represented next to the variable name.

**Create a subscription**

Link : **http://localhost:8080/subscription**

Request type : **POST**

This will create a subscription. It requires a list of message types with minimum requirement of (1) message. A status code of **201** will be returned upon successful creation.

**Request**

{

"messageTypes": [

{

"messageType": "String",

"message": "String"

}

]

}

**Response**

{

"identifier": long,

"errorMessage": "String",

"eventsCount": [

{

"requestType": "String",

"accessCount": int

},

{

"requestType": "String",

"accessCount": int

},

{

"requestType": "String",

"accessCount": int

}

],

"messageTypes": [

{

"identifier": long,

"messageType": "String",

"message": "String"

}

],

"\_links": {

"self": {

"href": "String"

},

"PUT": {

"href": "String"

},

"POST": {

"href": "String"

}

}

}

**Update a subscription**

Link : **http://localhost:8080/subscription/{subscriptionID}**

Request type : **PUT**

This will update a subscription. It requires a list of message types with minimum requirement of (1) message. All messages will be overwritten / replaced on updating a subscription. A status code of **200** will be returned upon successful creation.

**Request**

{

"messageTypes": [

{

"messageType": "String",

"message": "String"

}

]

}

**Response**

{

"identifier": long,

"errorMessage": "String",

"eventsCount": [

{

"requestType": "String",

"accessCount": int

},

{

"requestType": "String",

"accessCount": int

},

{

"requestType": "String",

"accessCount": int

}

],

"messageTypes": [

{

"identifier": long,

"messageType": "String",

"message": "String"

}

],

"\_links": {

"self": {

"href": "String"

},

"PUT": {

"href": "String"

},

"POST": {

"href": "String"

}

}

}

**Read a subscription**

Link : **http://localhost:8080/subscription/{subscriptionID}**

Request type : **GET**

This will get a subscription. It does not require any input body. A status code of **200** will be returned upon successful creation.

**Response**

{

"identifier": long,

"errorMessage": "String",

"eventsCount": [

{

"requestType": "String",

"accessCount": int

},

{

"requestType": "String",

"accessCount": int

},

{

"requestType": "String",

"accessCount": int

}

],

"messageTypes": [

{

"identifier": long,

"messageType": "String",

"message": "String"

}

],

"\_links": {

"self": {

"href": "String"

},

"PUT": {

"href": "String"

},

"POST": {

"href": "String"

}

}

}

**Post a message**

Link : **http://localhost:8080/subscription/{subscriptionID}/message**

Request type : **POST**

This will post a message to a subscription. It requires a message type. The message will be added to the existing messages. A status code of **201** will be returned upon successful creation.

**Request**

{

"messageType": "String",

"message": "String"

}

**Response**

{

"identifier": long,

"errorMessage": "String",

"eventsCount": [

{

"requestType": "String",

"accessCount": int

},

{

"requestType": "String",

"accessCount": int

},

{

"requestType": "String",

"accessCount": int

}

],

"messageTypes": [

{

"identifier": long,

"messageType": "String",

"message": "String"

}

],

"\_links": {

"self": {

"href": "String"

},

"PUT": {

"href": "String"

},

"POST": {

"href": "String"

}

}

}