



# DEPOT

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## RESTful API

Revision History			
Version	Changes	Date	Done By
1.0	Initial Document	19 December 2017	Mika Wee

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## 1.0 Overview

The common DEPOT RESTful API is available on each DataNet module, residing on the `.../webservice/depotwebservice.html` endpoint. It only responds to HTTP GET via Basic access authentication for data retrieval.

## 2.0 HTTP Request

### 2.1 HTTP Method

The API only allows retrieval of data via the **GET** method.

#### 2.1.1 HTTP GET

Equivalent to the WITSML *GetFromStore* method.

- **GET** `<https_datanet_module_url>/webservice/depotwebservice.html?... HTTP/1.1`

### 2.2 HTTP URL

The API uses the following format:

- `<https_datanet_module_url>/webservice/depotwebservice.html?<list of parameters>`

Parameters are specified after a question mark using the format **parameter=value** and multiple parameters are separated by **&**.

#### 2.2.1 URL Parameters

Parameter	Required	Description	Example
<b>type</b> <string>	Yes	DEPOT type/standard.	witsml, d2, npd
<b>version</b> <string>	Yes	DEPOT version.	1.0, 2.0, 1.3.1.1
<b>data_object</b> <string>	Yes	Data object name.	well, wellbore, opsReport
<b>query_template</b> <object>	Yes	XML formatted template to query the specified data object or push data to server. Only specifically requested fields will be returned. Reserved characters in HTML must be replaced with character entities.	

## 2.3 HTTP Request Headers

### 2.3.1 Authentication

All API requests must be authenticated using HTTP Basic authentication.

Example:

- **Authentication:** *Basic NWQyMDVlZjltN2ZjMy0xMWUyLTk4NjUtZWYwMTBiNWFI*

## 3.0 HTTP Response

### 3.1 HTTP Code

As long as the request is received by the API, HTTP/1.1 **200 OK** will be returned.

### 3.2 HTTP Headers

Generic HTTP headers.

### 3.3 Response Body

Response body is a JSON object with one main **"response"** JSON object. JSON parameters as follows:

Parameter	Description	Example
status	Success or failure.	success/failed
messages	Any additional messages from the server to describe the response status.	
result	Result set of the request in XML format.	

#### 3.3.1 Success Response

```
1. {  
2.   "response": {  
3.     "messages": {  
4.       "error": ["..."]  
5.     },  
6.     "result": "",  
7.     "status": "failed"  
8.   }  
9. }
```

#### 3.3.2 Failure Response

```
1. {  
2.   "response": {  
3.     "messages": {  
4.       "info": ["Operation is successful."]  
5.     },  
6.     "result": "...",  
7.     "status": "success"  
8.   }  
9. }
```