

# **NiSource REST Module: Work Order**

**How to communicate with the Work Order module through REST**

Introduction

Please review this site for general instructions on using REST with DevonWay: [DevonWay RESTConnect User's Guide](https://rest.devonway.com/RESTConnect/doc/index.html)

This document explain in how to communicate with the DevonWay REST API, more specifically the Work Order Module.

Below are supplemental instructions that are specific to ’s implementation. Note that these instructions are for the UAT environment and will vary slightly when moving to the Production environment.

# General Information

* The DevonWay REST server requires Basic Authentication.
  + When connecting successfully: the response will include a DWaySessionID (Session Key) in the response headers. From that point on the code could use the DWaySessionID in the request headers instead of using the Basich Authorization.
  + The Basic Authorization should be done directly at the Subscriber level.

https://rest-config.devonway.com/RESTConnect/rest/v2/subscribers/WMTDZ18061

* Structure of a REST call: https://<REST\_ADDRESS>/RESTConnect/rest/v2/subscribers/<SUBSCRIBER\_CODE>/modules/<MODULE\_CODE>
  + 1. <REST\_ADDRESS> and <SUBSCRIBER\_CODE> are server dependent (from UAT/PROD/Etc…)
    2. <MODULE\_CODE> is module dependent. It will be consistent from server to server.

https:/rest-config.devonway.com/RESTConnect/rest/v2/subscribers/WMTDZ18061

* Specific Server Information

|  |  |  |
| --- | --- | --- |
| **REST Server** | **Subscriber Code** | **Module Code** |
| **rest-config.devonway.com** | **WMTDZ18061** | **NI-WO** |

# Retrieving A List Of Work Order Records

* GET Call for all items (Retrieve a list of records)
  + Address: https://rest-config.devonway.com/RESTConnect/rest/v2/subscribers/WMTDZ18061/modules/NI-WO/?q=Identifier=\*&f=Identifier,Status,WorkOrder,JobDescription,JobType,State,SourceSystem,OpsCenter,JobStatus,OtherDetails&r=5000&p=0
  + Q Argument: define what we are querying against (in this example all records).
    - [https:/rest-config.devonway.com/RESTConnect/rest/v2/subscribers/WMTDZ18061/modules/NI-WO/?q=Identifier=\*&f=Identifier,Status,WorkOrder,JobDescription,JobType,State,SourceSystem,OpsCenter,JobStatus,OtherDetails&r=5000&p=0](https://Rest-config.devonway.com/RESTConnect/rest/v2/subscribers/RGHCX77552/modules/BIIB-ITN/?q=Status=Active&f=Name,Description,Status&r=5000&p=0)

This query would only return active item numbers.

* + F Argument: define the data returned.
  + R Argument: the maximum number of records returned is limited to 5,000 (5K) per call. The default “r” argument is set to 50.
  + P Argument: The page number starting index is 0. If the response return x many results matchings the “r” value, an additional call with the increment of the page is necessary until it return less than the “r” value.
    - [https://rest-config.devonway.com/RESTConnect/rest/v2/subscribers/WMTDZ18061/modules/NI-WO/?q=Identifier=\*&f=Identifier,Status,WorkOrder,JobDescription,JobType,State,SourceSystem,OpsCenter,JobStatus,OtherDetails&r=5000&p=0](https://Rest-config.devonway.com/RESTConnect/rest/v2/subscribers/RGHCX77552/modules/BIIB-ITN/?q=Identifier=*&f=Name,Description,Status&r=5000&p=0)
    - [https://rest-config.devonway.com/RESTConnect/rest/v2/subscribers/WMTDZ18061/modules/NI-WO/?q=Identifier=\*&f=Identifier,Status,WorkOrder,JobDescription,JobType,State,SourceSystem,OpsCenter,JobStatus,OtherDetails&r=5000&p=1](https://Rest-config.devonway.com/RESTConnect/rest/v2/subscribers/RGHCX77552/modules/BIIB-ITN/?q=Identifier=*&f=Name,Description,Status&r=5000&p=1)
    - … p=p+1
    - [https://rest-config.devonway.com/RESTConnect/rest/v2/subscribers/WMTDZ18061/modules/NI-WO/?q=Identifier=\*&f=Identifier,Status,WorkOrder,JobDescription,JobType,State,SourceSystem,OpsCenter,JobStatus,OtherDetails&r=5000&p=X](https://Rest-config.devonway.com/RESTConnect/rest/v2/subscribers/RGHCX77552/modules/BIIB-ITN/?q=Identifier=*&f=Name,Description,Status&r=5000&p=X)

Response Body:

[

    {

        "JobStatus": "Job Status Test 2021-07-29T16:13:11.157Z",

        "Status": "Active",

        "OpsCenter": "Ops Center 2021-07-29T16:13:11.157Z",

        "WorkOrder": "WorkOrder 2021-07-29T16:13:11.157Z",

        "OtherDetails": "JobType 2021-07-29T16:13:11.157Z \n State 2021-07-29T16:13:11.157Z \nSourceSystem 2021-07-29T16:13:11.157Z \nOps Center 2021-07-29T16:13:11.157Z \nJob Status Test 2021-07-29T16:13:11.157Z",

        "JobType": "JobType 2021-07-29T16:13:11.157Z",

        "Identifier": "WO-2021-0003",

        "JobDescription": "JobDescription 2021-07-29T16:13:11.157Z",

        "State": "State 2021-07-29T16:13:11.157Z",

        "SourceSystem": "SourceSystem 2021-07-29T16:13:11.157Z"

    },

    {

        "JobStatus": "Job Status Test 2021-07-29T16:14:19.583Z",

        "Status": "Active",

        "OpsCenter": "Ops Center 2021-07-29T16:14:19.583Z",

        "WorkOrder": "WorkOrder 2021-07-29T16:14:19.583Z",

        "OtherDetails": "JobType 2021-07-29T16:14:19.583Z \nState 2021-07-29T16:14:19.583Z \nSourceSystem 2021-07-29T16:14:19.583Z \nOps Center 2021-07-29T16:14:19.583Z \nJob Status Test 2021-07-29T16:14:19.583Z",

        "JobType": "JobType 2021-07-29T16:14:19.583Z",

        "Identifier": "WO-2021-0004",

        "JobDescription": "JobDescription 2021-07-29T16:14:19.583Z",

        "State": "State 2021-07-29T16:14:19.583Z",

        "SourceSystem": "SourceSystem 2021-07-29T16:14:19.583Z"

    }

    …

]

# Retrieving A Specific Work Order Record

* GET Call for a Specific item (Retrieve a record)
  + Address: [https://rest-config.devonway.com/RESTConnect/rest/v2/subscribers/WMTDZ18061/modules/NI-WO/[identifier](https://Rest-config.devonway.com/RESTConnect/rest/v2/subscribers/RGHCX77552/modules/BIIB-ITN/%5bidentifier)] (return all available data from the NI-WO Module)
  + Identifier = WO YYYY-####
  + https://rest-config.devonway.com/RESTConnect/rest/v2/subscribers/WMTDZ18061/modules/NI-WO/?q=Identifier=WO 2021-2150

# Inserting A Work Order Record

* POST Call (Insert)
  + Address: [https://rest-config.devonway.com/RESTConnect/rest/v2/subscribers/WMTDZ18061/modules/NI-WO](https://Rest-config.devonway.com/RESTConnect/rest/v2/subscribers/RGHCX77552/modules/BIIB-ITN)
  + HTTP Code (Note: we can provide some sample code in a different language if necessary).

* POST https://rest-config.devonway.com/RESTConnect/rest/v2/subscribers/WMTDZ18061/modules/NI-WO

Authorization: Basic ABCDEF1234567879

Content-Type: application/json

Content-Length: <variable depending on the length of the body>

Body:

{

        "JobStatus": "Job Status Test",

        "Status": "Active",

        "OpsCenter": "Ops Center",

        "WorkOrder": "WorkOrder",

        "OtherDetails": "Other Details",

        "JobType": "JobType",

        "JobDescription": "JobDescription",

        "State": "State",

        "SourceSystem": "SourceSystem",

        "ReportingAuthority": "NiSource"

}

# Updating A Work Order Record

* PUT Call (Update)
  + Address: [https://rest-config.devonway.com/RESTConnect/rest/v2/subscribers/WMTDZ18061/modules/NI-WO/](https://Rest-config.devonway.com/RESTConnect/rest/v2/subscribers/RGHCX77552/modules/BIIB-ITN/)[identifier]
  + Identifier = WO YYYY-####
  + HTTP Code Example:

PUT https://rest-config.devonway.com/RESTConnect/rest/v2/subscribers/WMTDZ18061/modules/NI-WO/WO 2021-0001

Authorization: Basic ABCDEF1234567879

Content-Type: application/json

Content-Length: <variable depending on the length of the body>

Body:

{

"Status": "Inactive"

}

OR:

{

"Status": " NI-WO-P1-2"

}

# Deleting A Work Order Record

* DELETE Call
  + We do not run DELETE Calls, deleting records could have serious repercussion on the system.
  + Customer should instead update the Status to “Inactive”