

# 1 Introduction

As part of the Maximo development community, some of the drawbacks with automation scripting have been around organizing the scripts by objects. Finding scripts from the UI accurately and quickly can be attributed to tribal knowledge at best. To pile on the inconvenience, creating a new script or updating a script is a process and would require multiple windows to change and test.

To improve productivity, the Automation Script Sync tool was built to overcome these challenges. The Automation Script Sync tool will help the Maximo Developers to do the following:

- Download the existing automation scripts from a Maximo Server and organize it into a tree folder structure based on type, objects and launch points.
- Create or update the scripts back to the server.

## 2 Prerequisites

- Create an object structure for the AUTOSCRIP object with child object SCRIPTLAUNCHPOINT.

Object Structure: Maximo API Object Structure for Automation Script

Consumed By: INTEGRATION Integration Application

Authorization Name: MXAPIAUTOSCRIP

Outbound Definition Class:

Inbound Processing Class: com.ibm.ism.script.autoscript.MaxLaunchPointProce

Search Attributes:

Query Only? ☐

Self Reference? ☐

Support Flat Structure? ☐

Load Query From All Apps? ☐

User Defined? ☒

Configurable? ☒

Alias Conflict? ☐

Object	Parent Object	Object Location Path	Relationship	Object Order	User Defined?	Exclude Attributes Mode?
AUTOSCRIP		AUTOSCRIP		1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
AUTOSCRIPV	AUTOSCRIP	AUTOSCRIP/AUTOSCRIPVARS	AUTOSCRIPVARS	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SCRIPTLAUNCH	AUTOSCRIP	AUTOSCRIP/SCRIPTLAUNCHPOINT	SCRIPTLAUNCHPOINT	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LAUNCHPOINT	SCRIPTLAUNCH	AUTOSCRIP/SCRIPTLAUNCHPOINT/L	LAUNCHPOINTVARS	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- The OBJECTEVENT attribute should not be restricted under the SCRIPTLAUNCHPOINT object.

Inbound Setting Restrictions

Object Structure: Maximo API Object Structure for Automation Script

Source MBOs for NGAPIAUTOSCRIP

Object

AUTOSCRIP

AUTOSCRIPV

SCRIPTLAUNCH

LAUNCHPOINT

Inbound Setting Restrictions For MBO SCRIPTLAUNCHPOINT

Field	Restricted?	Override?
AUTOSCRIP	<input type="checkbox"/>	<input type="checkbox"/>
ATTRIBUTENAME	<input type="checkbox"/>	<input type="checkbox"/>
ATTRIBUTEEVENT	<input type="checkbox"/>	<input type="checkbox"/>
ADD	<input type="checkbox"/>	<input type="checkbox"/>
ACTIVE	<input type="checkbox"/>	<input type="checkbox"/>
ACTIONNAME	<input type="checkbox"/>	<input type="checkbox"/>
OBJECTEVENT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

OK Cancel

## 3 Instructions

### 3.1 Configuration Settings

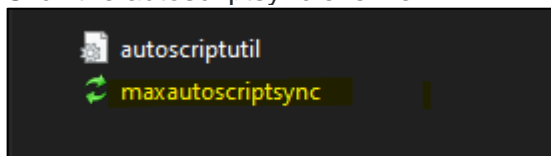
- Create a folder where you would like to download the scripts.
- Update all the values in autoscriptutil.ini files with relevant values.

```
1 #####
2 #
3 # This is the initialization file for the Maximo Automation Script utility. Please fill this before using the utility. #
4 # It contains three sections: Connection Settings, object Structure and File File_Location. Please do not change the names #
5 # of any of the sections
6 #
7 #####
8
9 # Connection Settings for Maximo host and user credentials.The user must have access to the object structure
10 #Sample Url: https://abc.maximo.com or http://12.12.12.12:9081
11 [Connection_Settings]
12 url =
13 #Requires Proxy (Y/N)
14 proxyreqd = N
15 http_proxy =
16 https_proxy =
17 username =
18 password =
19
20 # Object Structure created for Automation Script Synchronization
21 [Object_Structure]
22 objstr =
23
24 # Windows File Location for the workspace e.g. C:\\Scripts\\Env01
25 [File_Location]
26 dir_path =
```

- Ensure the user provided has access to the object structure via OSLC.

### 3.2 Download Scripts

- Click the autoscriptsinc.exe file.

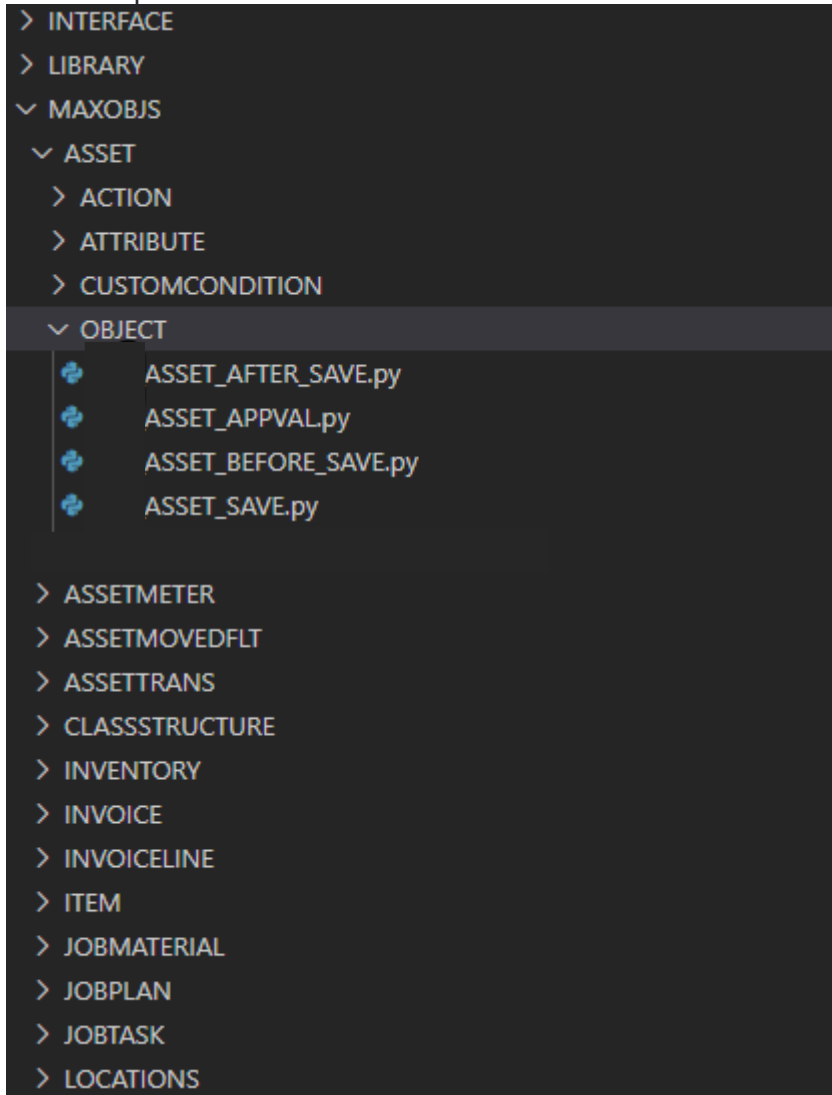


- Follow the user prompt and select 1 to Download.

```
Automation Script Utility
1. Download from server
2. Sync to server
Enter Option: 1
Select download options
1. Download all active scripts
2. Download a specific script
Enter Option:
```

- Initially, select the option to Download all active scripts.
- The scripts are placed into folders based on type (Interface scripts, Library or standalone scripts and Object based scripts). The Object based scripts are classified down into the Maximo Objects and further broken down based on launch points (Object, Attribute, Action and Custom Condition)

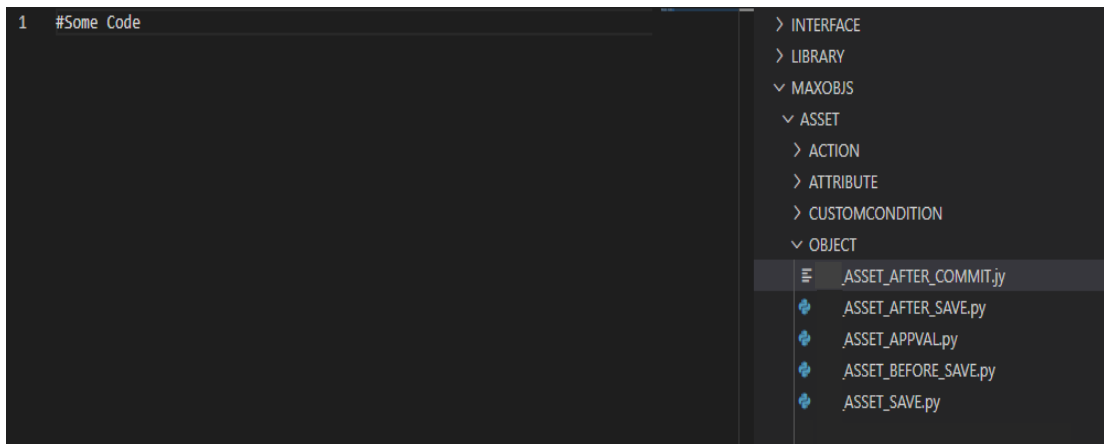
- e. The scripts will be downloaded in a tree structure as shown below



- f. By using any code editor, the developer can search based on the script name or script content.
- g. There is also a feature to download a specific script by providing the script name, which will download the script to the specific folder.

### 3.3 Sync Scripts

- a. Update a script or create a new script in the tree structure as downloaded in the above steps.



- b. Click the autoscriptsinc.exe file.
- c. Follow the user prompt and select 2 to Sync.
- d. Enter the script to be synched.
- e. If the script exists on the server, then script is updated. A new script is created otherwise. Follow the instructions prompted to create the launch point.

```
Automation Script Utility
1. Download from server
2. Sync to server
Enter Option: 2
Enter scriptname :ASSET_AFTER_COMMIT
Enter Object (optional) :
Enter Script Description :Asset After Commit
Select the Object Event:
1.Initialize
2.Save
3.Application Validate
4.Allow Object Creation
5.Allow Object Deletion
Enter Option:2
Select the Save Event:
1. Add
2. Update
3. Add & Update
4. Delete
5. Add & Delete
6. Update & Delete
7. Add, Update & Delete
Enter Option:3
Select the Trigger Event:
1. Before Save
2. After Save
3. After Commit
Enter Option:3
```

- f. The automation script will be saved on the server along with launch point details.

Script:

ASSET\_AFTER\_COMMIT

Asset After Commit

\* Script Language:

jython

1

#Some Code

Object Launch Point

Launch Point:

ASSET\_AFTER\_COMMIT

Asset After Commit

Active? ☒

Object:

ASSET

Object Event Condition:

Events

Save

☐ Initialize Value

☐ Validate Application

☐ Allow Object Creation

☐ Allow Object Deletion

☒ Save

Add? ☒

Update? ☒

Delete? ☐

☐ Before Save

☐ After Save

☒ After Commit

## 4 Conclusion

This tool was built to ease with code analysis and then was subsequently expanded to automation script creation and update. The current iteration is a Windows executable and can be expanded to Linux and Mac in subsequent iterations.

I do hope you find this tool useful, and I am looking for your feedback.