



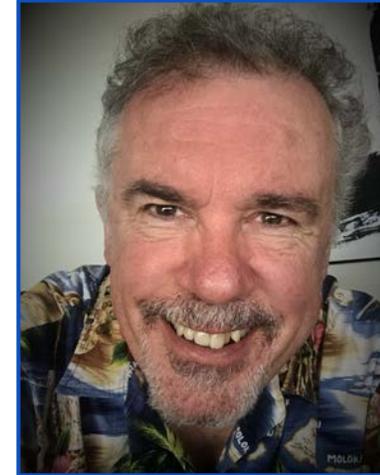
.NEW AND .DUPLICATE AUTOMATION SCRIPTS

3 Use Cases

Presented by Stephen Hume, MaxTECH Chair

Agenda

- 1 **Background**
- 2 **.NEW Automation Scripts**
- 3 **.DUPLICATE Automation Scripts**



Stephen Hume

Stephen has been working with IBM Maximo for over ten years in a variety of industries (Oil and Gas, Utilities). He has taught Maximo courses to end users for both Technical and Functional audiences and chairs the MaxTECH User Group.

Background

During recent projects, there were a couple of requirements that came to light that would have previously required java customization. Fortunately, I was introduced to a couple of “special” types of automation scripts that made fulfilling the requirements much simpler.

First Requirement: When a new record is created, a number of attributes to be either blanked out, or set to values other than what Maximo defaults them to.

Second Requirement: When creating a new Safety Bulletin, there is table of Reviewers that needs to be automatically created.

Third Requirement: When duplicating a record there are standard Maximo attributes which the business does not want duplicated. The first two requirements can be met with the .NEW automation Script, the third requirement with a .DUPLICATE automation script.

.NEW Automation Script

An automation script with a .NEW suffix in the name is a special script that runs on the object named in the prefix and is performed every time a new record is created. This script does not require any launch points and will execute if it is set to active.

Examples of this script from real-life use cases:

- **INCIDENT.NEW**
 - Simple script to set the affected person to null, and to copy the siteid to the assetsiteidfield
- **PLUSGACT.NEW**
 - More complex example autogenerated the task number, sets has childrenflag to 1, sets the ACTCATEGORY field to certain values depending on other values.
- **PLUSGMOC.NEW**
 - Even more complex script, sets some default values, and creates child records in associated table, as well as copies in pre and post start action groups.
- **SR.NEW**
 - This script creates the child table entries for the list of reviewers for a safety bulletin.

.NEW Automation Script

SR.NEW Example:

```
#####
Created by: Stephen Hume

This automation script performs the following functions:
- Create and populate the reviewers
#####

# Imports
from psdi.mbo import MboConstants
from psdi.server import MXServer
from psdi.util.logging import MXLoggerFactory

# SR logic

# initialise some common variables
ticketid = mbo.getString("ticketid")

stdactionslistSet = mbo.getMboSet("PLUSGSTDACT")

currMbo=stdactionslistSet.moveFirst()
while currMbo is not None:
    actionby = stdactionslistSet.getString("CNRACTIONBY")
    reviewer = stdactionslistSet.getString("CNRREVIEWER")
    orgid = stdactionslistSet.getString("ORGID")
    siteid = stdactionslistSet.getString("SITEID")
    stdactnum = stdactionslistSet.getString("STDACTNUM")
    cnrsafetyactionslistSet = mbo.getMboSet("CNRSAFETYACTIONS")
    cnrsafetyactionslist = cnrsafetyactionslistSet.add()
    cnrsafetyactionslist.setValue("TICKETID", ticketid)
    cnrsafetyactionslist.setValue("ORGID", orgid)
    cnrsafetyactionslist.setValue("SITEID", siteid)
    cnrsafetyactionslist.setValue("ACTIONBY", actionby)
    cnrsafetyactionslist.setValue("REVIEWER", reviewer)
    cnrsafetyactionslist.setValue("STDACTNUM", stdactnum)

    currMbo=stdactionslistSet.moveNext()
```

MBOSets require the creation of database relationships if they do not already exist.

.DUPLICATE Automation Script

Real World Examples of .DUPLICATE Scripts

INCIDENT.DUPLICATE

- Sets the createdby to the current user
- Sets the status and a custom attribute to specific value
- Sets the long description and action taken comments to null

PLUSGMOC.DUPLICATE

- Removes pre-start and post-start actions from duplicate MOC
- Removes closure and review actions from duplicate MOC
- Sets Days in Service to Null

PM.DUPLICATE

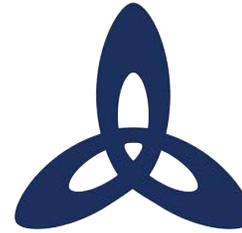
- Calculates and sets the next due date for the newly created PM

Use Case for the .DUPLICATE

Blank out core attributes that the business does not want to duplicate such as target completion dates, owners, and other fields that Maximo would normally copy across.

THANK YOU!

Success! You have learned how 3 use cases where you can replace Java Customization with automation scripts.



Ask us a technical question:

maxtech@bpdzenith.com

www.bpdzenith.com/maxtech

MaxTECH is the first ever dedicated Maximo Technical User Group aimed at Maximo Administrators, Developers and Technical Support staff.

It is a great place for users to ask and answer technical questions, learn from each other, collaborate and help improve Maximo in your organization.

MaxTECH was founded in 2017 by BPD Zenith and is chaired by Maximo Consultant Stephen Hume. We host several events every year (Calgary, St. Louis, MaximoWorld, Houston, MUWG, Northern California MUG, Maximo UK & Ireland User Group) including digital events.

MaxTEACH is a free online user group designed to go in depth into a Maximo topic.