

Data Change Management (DCM) - About Seifware Inc.

- ★ **Seifware Inc.** is an independent Maximo service provider since 2011
- ★ **Small business** focused on business analysis, system architecture and professional services
- ★ **Contact:** amers@seifware.com / www.seifware.com
- ★ **Managing Consultant:**



Amer Seifeddine 
Managing Consultant at Seifware Inc.

Data Change Management (DCM) - What is DCM?

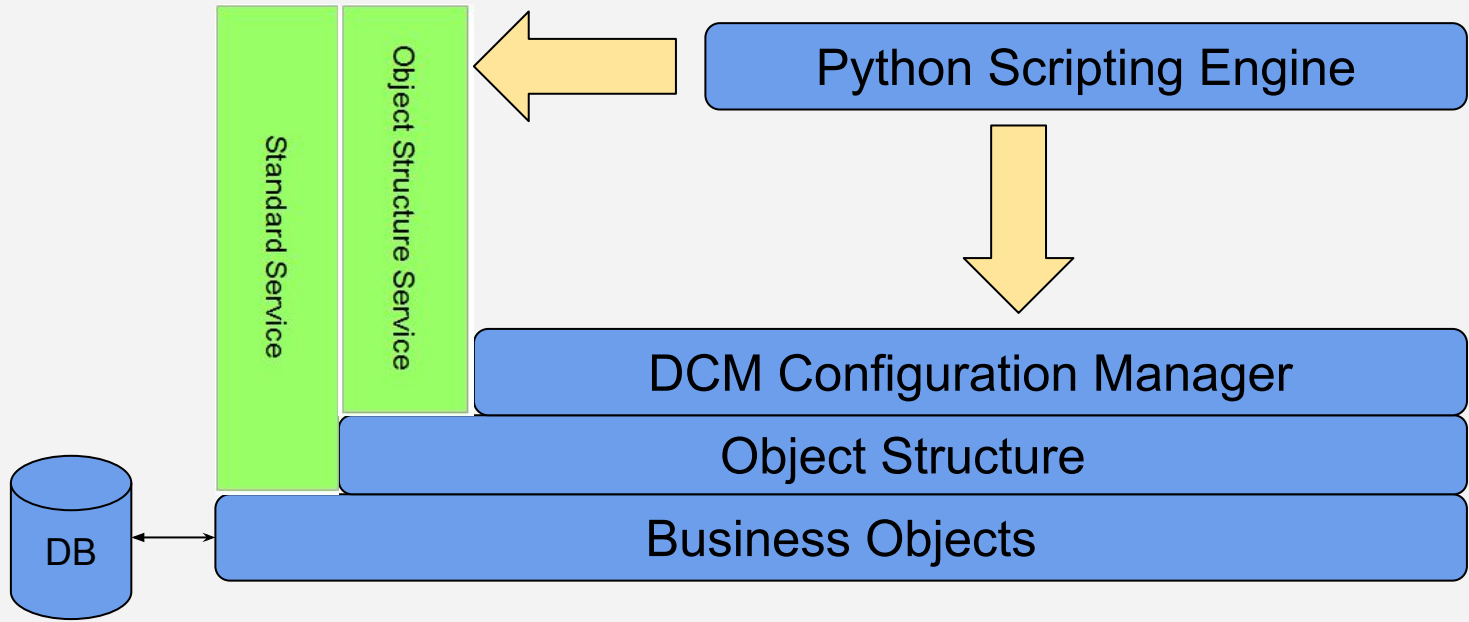
★ What is DCM?

- Maximo add-on that manages, tracks and executes Maximo data change requests
- Routes data change requests for approval, preview or execution
- Scenario oriented orchestrating multiple tasks
- Supports template creation for efficient data loading of repeated scenarios
- Change aware and capable of rolling back committed data changes/scenarios
- Maintains and tracks data integrity using its internal data dictionary and algorithms
- Supports data designing on excel then pasting in Maximo and supports importing data from CSV files
- Supports revision control, friendly logging and progress tracking
- Supports immediate execution or scheduling during non-working hours
- User and SaaS friendly
- High Performance Data Loader

Data Change Management (DCM) - Why DCM?

Features	DCM	Others	Notes
Key Modification	✓	✓ *	* Inaccurate key modifications relying solely on sameasobject and sameascolumn (ex: Master PM)
Simple Data Loading Through Maximo Integration Framework	✓	✓ *	* Data loading requiring technical experience and has no tracking, auditing, rollback or coordination of requests
Maximo Embedded / Workflow Capable	✓		
Scenario Orchestration / What if Analysis	✓		
Rollback Capabilities	✓		
Scheduled Execution	✓		
Tracking, Versioning and Auditing	✓		
Configurable, SaaS and User Friendly	✓		

Data Change Management (DCM) - Solution Architecture



Data Change Management (DCM) - Solution Overview -1

The screenshot shows the DCM application interface with the following components and annotations:

- Header:** Data Change Management, MAXADMIN, navigation icons.
- Left Sidebar:**
 - Find Request#
 - Find Navigation Item
 - Go To Applications
 - Available Queries
 - All Records
 - All Bookmarks
 - My Active Requests
 - For Admin's Attention
 - For My Approval
 - Common Actions:
 - New Request
 - Save Request
 - Clear Changes
 - Configuration Dictionary
 - Refresh Request
 - Change Status
 - Submit Request
 - Cancel Request
 - Rollback Request
 - Revise Request
 - Create Report
 - More Actions
 - View History
 - Attachment Library/Folders
 - Add/Modify Templates
 - Add to Bookmarks
 - Run Reports
 - Cognos Reporting
- Main Content Area:**
 - Request#: DCM1006, Location Hierarchy Restructure - 1, Status: PREVCOMP, Status Date: 11/4/20 8:30 PM, Attachments
 - Requested By: MAXADMIN, Requested Date: 11/4/20 5:30 PM
 - Changed By: MXINTADM, Changed Date: 11/4/20 8:30 PM
 - Progress and Logging: Progress %: 100.00, Last Process Time (Sec): 236
 - Priority and Scheduling: Priority: 5, Calculated Priority: 5,555
 - Run Before: [Calendar icon], Run After: [Calendar icon]
 - Nested Req#: [Search], Nested Rev#: [Search]
 - Log: Detailed execution log showing task progress for various objects (e.g., WOGEN, WOLOCKOUT, WOPATSTATUSSYNC, WORKORDER, WOSAFETYLINK, WOTAGOUT, WITEM).

Status tracking: Draft, Approved, Submit, Inprogress, Preview Completed, Completed, Cancelled, Failed or Closed

CSV Attachments for import

In case of errors, system automatically recognizes if data was compromised during rollback

Apply Template of repeated scenarios

Time tracking

Progress tracking

Scheduling capabilities

Logging

Standard out of the box workflow queries

Rolling back?

Revision Tracking

Preview Request?

If Enabled, end-users can directly run requests from Apps

Configuration Manager

Screen Refresh

Quick access buttons to change request status

Rollback changes

Create a revision

Scenario Creation/Modification

Nested requests for execution in order (Beta)



Data Change Management (DCM) - Solution Overview -2

Home | Data Change Management | MAXADMIN

Find Request# [Search] [Filter] [Refresh] [Back] [Forward]

Request: DCM1006 | Location Hierarchy Restructure -1 | Status: PREVCOMP | Requested By: MAXADMIN | Requested Date: 11/4/20 8:30 PM

Revision: 11 | Preview? | Synchronous? | Rollback? | Data Compromised? | Changed By: MXINTADM | Changed Date: 11/4/20 8:30 PM

Tasks

Individual Tasks of the request | Preconfigured Task | Task Classification (Key Modification, Maximo Excel or Line Updates) | Calculated Priority based on location/asset data (Beta) | Key Modification flag: System or site/org level change?

Sequence	Config#	Object	Class	Description	Calculated Priority	Progress %	System Level?	Set/Org/Site	Exclude?
1	50	LOCATIONS	KEYMOD	Location Key Modification / Renaming	5,555	100.00	<input checked="" type="checkbox"/>	>	<input type="checkbox"/>
2	84	LOCATIONS	MAXEXCEL	Add new Location	5,555	100.00	<input type="checkbox"/>	>	<input type="checkbox"/>
4	86	LOCATIONS	MAXEXCEL	Update Existing Locations/Specs	5,555	100.00	<input type="checkbox"/>	>	<input type="checkbox"/>
5	88	LOCATIONS	MAXEXCEL	Change Location Status with Options	5,555	100.00	<input type="checkbox"/>	>	<input type="checkbox"/>

Import Attachments | New Task

Task Level Attachment Import (Prefixed by seq#) | Rollback Support

Lines and Values

Task lines

Line#	Rollback Instructions	Rollback Identifier
1		
2		
3		
4		
5		

Line values

Sequence	Attribute	Value	Rollback Value
1	OLDVALUE	ND-BOILER	
2	NEWVALUE	BOILER	

New Value

Manual Data Import/Paste from Excel

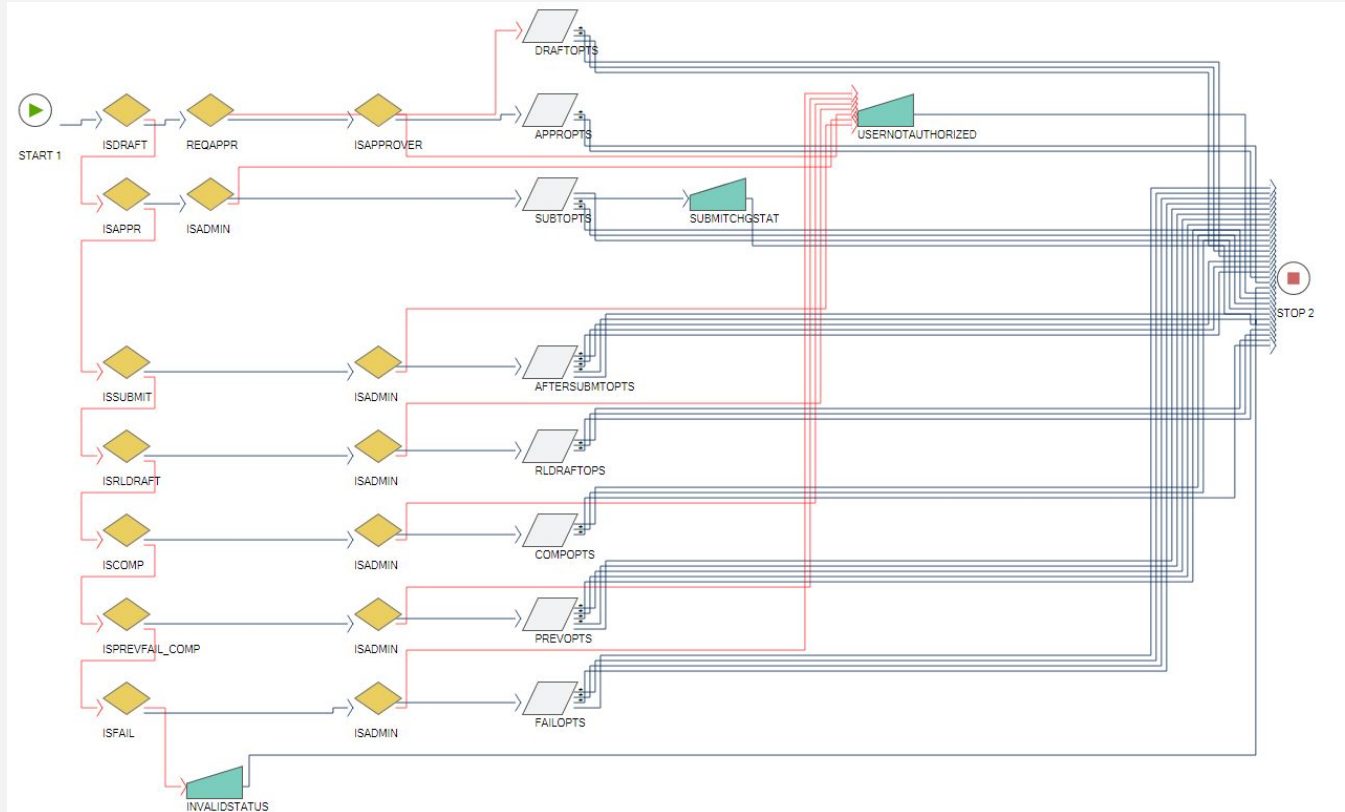
Data Export for Excel

What if Analysis (Exclude/Include specific tasks)

Individual Task Tracking



Event Based Workflow



Data Change Management (DCM) - Example 1- Asset Restructure

Goal - Asset Restructure/Transformation Scenario Topology Restructure and Enrichment

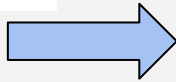
A8004:Unix Server
2062:Unix Operating System

A8005:Unix Server
1883:Unix Operating System

A8006:Unix Server

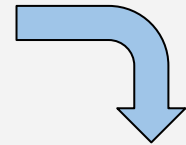
A8007:Unix Server

A8008:Unix Server



Assets renamed, moved to a newly created location and asset specs enriched

Sequence	Config#	Object	Class	Description
1	84	LOCATIONS	MAXEXCEL	Add new Location
2	45	ASSET	KEYMOD	Asset Key Modification / Renaming
3	89	ASSET	MAXEXCEL	Add New Assets
4	121	ASSET	MAXEXCEL	Move Existing Assets
5	102	ASSET	MAXEXCEL	Update Existing Assets/Specs/Change s



Location: UXSERVERS Unix Servers

UX8004:Unix Server
UX8005:Unix Server
UX8006:Unix Server
UX8007:Unix Server
UX8008:Unix Server
UX8100:Unix Server
UX8101:Unix Server
UX8102:Unix Server
UX8103:Unix Server

Data Change Management (DCM) - Example 2- Location Restructure

Goal - Location Restructure/Transformation Scenario Update Specs/Decommission Locs

NEEDHAM:Needham Site

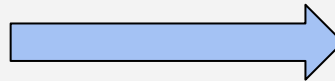
- BR250:Circulation Fan #3- Main Office HVAC
- BR450:Feed Water Pump- Centrifugal/100GPM/60FTHD
- FLDSTF:Field Users
- FLTGAR:Fleet Garages
- FRANKLIN:Franklin Rail Yard
- ND-BOILER:Boiler Room
- OFFICE:Office Building - Address Unit #2010 Oak St.
- PACKAGE:Packaging Department
- PLANT-P1:Materials Processing Plant #1
- SHIPPING:Shipping and Receiving Department

Renamed and moved under the new location: DCMBOILERS

NEEDHAM:Needham Site

Logical grouping of locations under DCMCREW

- DCMCREW:Needham Operations/Maintenance Crew
 - DCMBOILERS:Needham Boilers
 - ND-FLTGAR:Fleet Garages
 - ND-OFFICE:Office Building - Address Unit #2010 Oak St.
 - ND-PACKAGE:Packaging Department
 - ND-PLANT-P1:Materials Processing Plant #1
 - ND-SHIPPING:Shipping and Receiving Department
- ND-BR250:Circulation Fan #3- Main Office HVAC
- ND-BR450:Feed Water Pump- Centrifugal/100GPM/60FTHD
- ND-FLDSTF:Field Users
- ND-FRANKLIN:Franklin Rail Yard



Data Change Management (DCM) - Example 2- Data Design on Spreadsheets

1.1 Rename Locations

OLDVALUE	NEWVALUE
ND-BOILER	BOILER
BR450	ND-BR450
FLTGAR	ND-FLTGAR
PACKAGE	ND-PACKAGE
OFFICE	ND-OFFICE
PLANT-P1	ND-PLANT-P1
SHIPPING	ND-SHIPPING
FLDSTF	ND-FLDSTF
WOBURN	ND-WOBURN
FRANKLIN	ND-FRANKLIN
BR250	ND-BR250

1.3 Update Location Specs

LOCATION	SITEID	HIERARCHYPATH	ASSETATTRID	ALNVALUE	NUMVALUE
DCMCREW	BEDFORD	43000000	DESC	Needham Operations/Maintenance Crew	
DCMBOILERS	BEDFORD	43000000	DESC	Needham Operations/Maintenance Crew	
ND-BR450	BEDFORD	PUMP \ CNTRFGL	SIZE		4000
ND-BR450	BEDFORD	PUMP \ CNTRFGL	PRESSURE		52
ND-BR250	BEDFORD	FANS \ CENTRIF	SPEED		40000
ND-BR250	BEDFORD	FANS \ CENTRIF	CAPACITY		10

1.4 Decommission a Location

LOCATION	SITEID	STATUS
ND-WOBURN	BEDFORD	DECOMMISSIONED

1.2 Add New Locations

LOCATION	SITEID	DESCRIPTION	STATUS	TYPE
DCMCREW	BEDFORD	Needham Operations/Maintenance Crew	ACTIVE	OPERATING
DCMBOILERS	BEDFORD	Needham Boilers	ACTIVE	OPERATING

2.1 Location Movement

LOCATION	SITEID	PARENT	SYSTEMID	NEWPARENT
BOILER	BEDFORD	NEEDHAM	PRIMARY	DCMBOILERS
ND-FLTGAR	BEDFORD	NEEDHAM	PRIMARY	DCMCREW
ND-OFFICE	BEDFORD	NEEDHAM	PRIMARY	DCMCREW
ND-PACKAGE	BEDFORD	NEEDHAM	PRIMARY	DCMCREW
ND-PLANT-P1	BEDFORD	NEEDHAM	PRIMARY	DCMCREW
ND-SHIPPING	BEDFORD	NEEDHAM	PRIMARY	DCMCREW

Data Change Management (DCM) - Thank you!

Thank you for watching !

If this product meets your needs, you have questions or you are interested to view a live demo, please contact us on the below email address:

amers@seifware.com