



z/OSMF for Standard Software Management

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1

UNIVERSAL INSTALLATION PARADIGM

2

MOVING FROM CSM TO Z/OSMF

3

MAINFRAME SOFTWARE PROVISIONING USING Z/OSMF

4

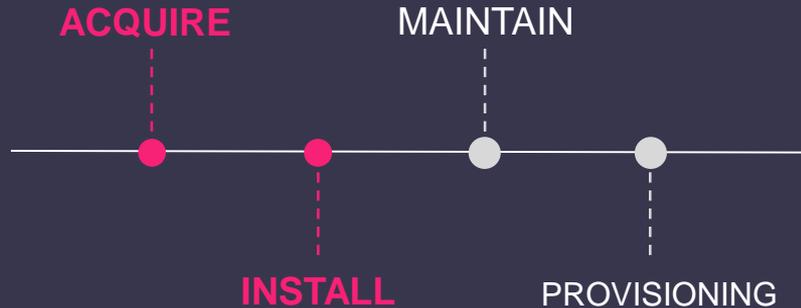
HOW CAN YOU GET INVOLVED

Installation Paradigm



Moving to Common UI

Acquisition and Installation



CA Product Package and Delivery

Today

- #1** Standard SMP/E Installation and Maintenance
- #2** Products Installable using CA Mainframe Software Manager
- #3** Adoption of ERROR standard for PTFs in Error
- #4** Adoption of FIXCAT HOLDDATA for PTFS that are required for upgrades
- #5** Monthly CA Recommended Service

New

- #6** Support for SMP/E Receive Order – GA in January 2018

Future Product Acquisition and Installation



Future Installation using z/OSMF

IBM is driving an initiative to deliver a common modern **GUI-based** installer for all z/OS products.

CA and other major ISVs are participating in effort.

Goal is to provide one way to install, deploy, configure and maintain **all z/OS software**.

Support both SMP/E and non-SMP/E installations.

z/OSMF Software Management

Use z/OSMF Software Management to install portable packages and maintenance software.

Install Software Portable Package

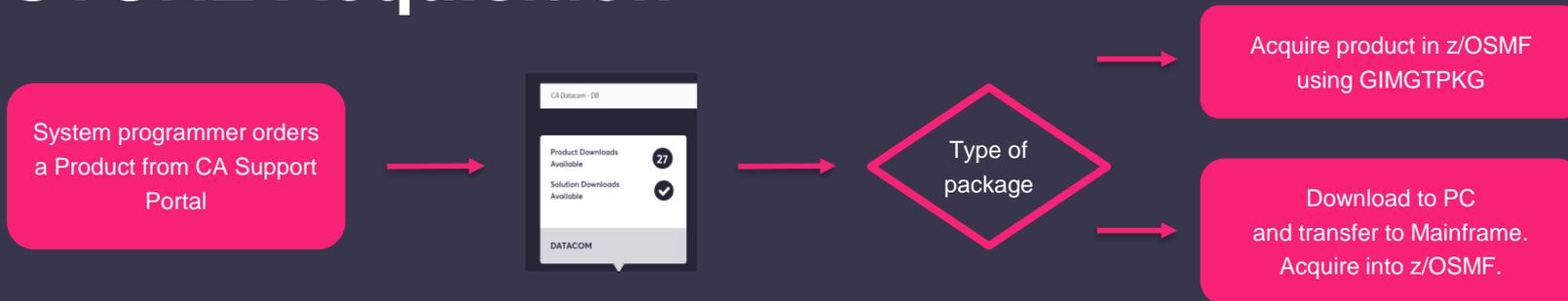
CA will ship Portable Package

Install Software Instance

Describes to z/OSMF a manageable unit of installed software.
Software instances will be deployed to one or more LPARS



FUTURE Acquisition



Acquire Using GIMGTPKG



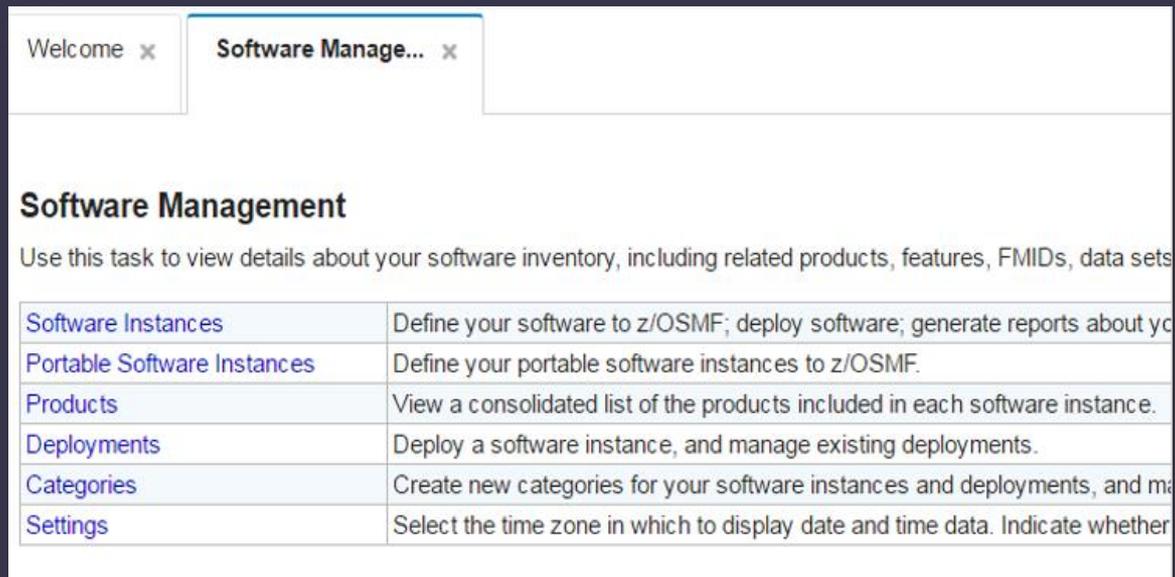
Managing Software Instances

Download Software
Instances

Use the “Deployments”
function to install it

Deployments drive workflows

List of FMID, products and
features



The screenshot shows a web application interface with two tabs: "Welcome" and "Software Manage...". The "Software Manage..." tab is active and displays the "Software Management" section. Below the title, there is a descriptive sentence: "Use this task to view details about your software inventory, including related products, features, FMIDs, data sets". A table follows, listing various tasks and their descriptions.

Task Name	Description
Software Instances	Define your software to z/OSMF; deploy software; generate reports about your software instances.
Portable Software Instances	Define your portable software instances to z/OSMF.
Products	View a consolidated list of the products included in each software instance.
Deployments	Deploy a software instance, and manage existing deployments.
Categories	Create new categories for your software instances and deployments, and manage existing categories.
Settings	Select the time zone in which to display date and time data. Indicate whether to display time data.

Viewing Software Instances

Using z/OSMF, you can view all product software instances.

The screenshot shows the z/OSMF interface for viewing software instances. On the left is a navigation menu with categories like Welcome, Notifications, Workflow Editor, Workflows, Cloud Provisioning, Configuration, Consoles, Links, Performance, Problem Determination, Software (with Software Management selected), Sysplex, z/OS Classic Interfaces, z/OSMF Administration, and z/OSMF Settings. A Refresh button is at the bottom of the menu.

The main content area has tabs for 'Welcome' and 'Software Manage...'. Below the tabs, the breadcrumb 'Software Management > Software Instances' is shown, followed by the heading 'Software Instances'. An 'Actions' dropdown menu is visible above the table. Below the actions, it says '4 of 17 items shown. Clear filter'.

<input type="checkbox"/>	Name Filter	System Filter	Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter
<input type="checkbox"/>	EES120	CA32		CA Mainframe Application Tuner V12.0		CAI.PORTTST.EES120.I00.CSI
<input type="checkbox"/>	CLX130	CA32		CA OPS/MVS Event Management and Automation V13.0		CAI.PORTTST.CLX130.GA.CSI
<input type="checkbox"/>	NM4150	CA32		CA SYSVIEW PERFORMANCE MANAGEMENT V15.0	Being exported	CAI.PORTTST.NM4150.I00.CSI
<input type="checkbox"/>	CTU140	CA32		CA Vantage SRM and CA Vantage GMI V14.0		CAI.PORTTST.CTU140.GA.CSI

z/OSMF Software Management

Future Features

Use SMP/E GIMGTPKG to Acquire Products Download Server.

View GA and EOS Product Information within z/OSMF



Moving from CSM to z/OSMF for maintaining mainframe software

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31 MAY 2018



1

THE BIG PICTURE

2

A BRIEF HISTORY OF CA CHORUS SOFTWARE MANAGER

3

CA IBM PARTNERSHIP

4

CURRENT PROGRESS

5

MOCKUPS

The Big Picture

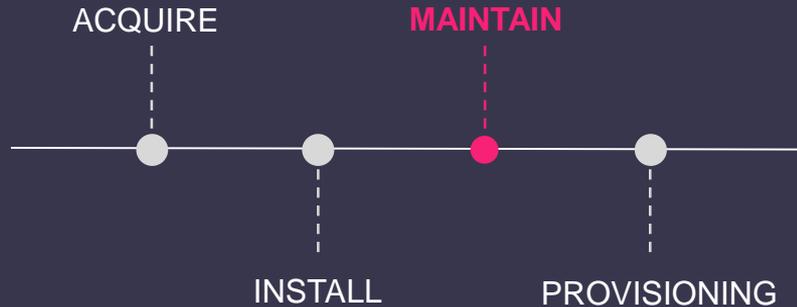


CA Chorus Software Manager

“CA CSM”, formerly CA Mainframe Software Manager (CA MSM), allows products and maintenance to be downloaded, installed, deployed, and configured via a web browser.

It is available at no additional charge to CA customers with any licensed z/OS product.

In the end-to-end z/OS software management lifecycle CSM is primarily used for **maintenance**.



CSM a Brief History



or MSM if you prefer

9 years ago we set out to **evolve** the way CA products were installed and maintained.



Launch in 2009

- Organically developed
- Standardized acquire and install
- Focus on automation



New Features

- Software Deployment Service (SDS)
- Software Configuration Service (SCS)



CA RS

- Introduced monthly recommended service



Market leading maintenance tool

Especially popular amongst GSPs and larger shops with multiple LPARs

CSM IBM Partnership



The IBM z/OS platform installation strategy began to duplicate much of what CSM already delivers

Software packager and installer within z/OSMF

IBM is driving an initiative to deliver a common modern GUI-based installer for all z/OS products.

Broad acceptance amongst software vendors on the platform

Regular group meeting 1 x monthly, consensus on roadmap.

Next logical step PTF installation (Maintenance)

Quickest way to deliver is to make this available to whole market is via z/OSMF?

CA approached IBM with an offer that will benefit the entire ecosystem

Product Installation is already a part of z/OSMF

But adding PTF installation would take IBM years and CA has offered this via CSM since 2009.

Add Maintenance functionality from CSM into z/OSMF

Agree on our use cases. Re-implement into Angular. Insert into z/OSMF.

Ecosystem benefit

IBM, CA and other vendors work together on a project that will provide value for the whole mainframe community

A partnership that will benefit everyone

- #1** IBM receive field tested functionality that significantly accelerates delivery of their roadmap
- #2** Quickly extends the z/OS software maintenance benefits available in CSM to a wider audience
- #3** Provides a foundation from which IBM and other vendors can opt to provide further improvements to the installation process of SMP/E PTFs
- #4** Offers fresh impetus to simplifying z/OS software maintenance
- #5** Helps address the ongoing concerns of mainframe shops about cost reduction, efficiency, and skill management challenges

Current Progress

Development has started.



A team of engineers in Prague is currently working on a first version of the corrective maintenance flow.

We have identified **3 main use cases**

- #1** Install a software update to fix a problem
(corrective service)
- #2** Install vendor-recommended software updates
(preventive service)
- #3** Install software updates that provide a new function to a system
(FIXCAT service)

Redesigned UI



Completely redesigned UI

We are using IBM's UI standard framework Carbon. Our goal was to make the UI more **simple** and **faster** in compare with the current version.

- Welcome
- Notifications
- Workflow Editor
- Workflows
- Cloud Provisioning
- Configuration
- Consoles
- Jobs and Resources
- Links
- Performance
- Problem Determination
- Software
 - Software Management
 - Software Maintenance**
- Sysplex
- z/OS Classic Interfaces
- z/OSMF Administration
- z/OSMF Settings

Welcome x **Software Maintenance** x

Software Maintenance / DB2-instance

DB2-instance

Select zone:

Zone	Last time updated to Recommended service	History of updates
Zone 001	⚠ 4:00 p. m., 2/19/2018	Go to History
Zone 002	⚠ 3:37 p. m., 2/10/2018	Go to History
Zone 003	✅ 7:09 p. m., 2/01/2018	Go to History
Zone 004	✅ 9:00 a. m., 1/19/2018	Go to History

Select zone

⚠ **Recommended service updates**

Last successful installation was on 4:00 p. m., 2/19/2018.

[Maintenance History](#)

[Start the Maintenance](#)

ⓘ It is 10 days since the last receive order was used.

Install or search specific PTFs or FIXCATs

RO123456

PTF Name	Status
RO123456	⚠ Not Installed, ready to be Installed

[Install this PTF](#)

[Install specific PTF\(s\)](#) [List all installed PTFs](#) [List all available FIXCATs](#)

[Back to Dashboard](#)

Key features



Pause and Resume

You can save your progress in doing maintenance



Easier terminology

We are using more causal terminology for easier onboard process



Reports

You can download and browse all the maintenance reports



Wizard

Easy step by step wizard.

HOLDDATA easy as Amazon shopping

Resolving using standardized actions.

The possibility of group actions.

All the data ready to be downloaded as a text file.

The screenshot displays the IBM z/OS Management Facility Software Maintenance interface. The left sidebar contains a navigation menu with categories like Welcome, Notifications, Workflow Editor, Workflows, Cloud Provisioning, Configuration, Consoles, Jobs and Resources, Links, Performance, Problem Determination, and Software. The main content area shows 'Installation instructions (13)' with a progress bar indicating steps: Preparing installation, Installation instructions (active), Apply check, Installation, and Post-Installation instructions. A notification states 'Updates marked IN ERROR are automatically excluded.' Below this is a table with columns for Software instance and Zone, showing 'My custom software instance' in 'Zone 1'. The 'Select instructions to display' section shows counts for Unresolved (56), Done (34), Post-installation (23), and Excluded (0). A table lists instructions with columns for Name, FMID, and Reason, including entries like RO20340, RO20378, RO20358, RO34544, RO34876, RO20123, RO40799, RO43502, and RO45671. At the bottom, there are buttons for 'Cancel', 'Save and Exit', and 'Run Apply check'.

IBM z/OS Management Facility

Welcome x Software Maintenance x

Installation instructions (13)

Preparing installation Installation instructions Apply check Installation Post-Installation instructions

Updates marked IN ERROR are automatically excluded.

Software instance	Zone
My custom software instance	Zone 1

Select instructions to display

Unresolved (56) Done (34) Post-installation (23) Excluded (0)

User (23)

Search compute Download all instructions (TXT, 20kb)

<input type="checkbox"/>	Name	FMID	Reason
<input type="checkbox"/>	> RO20340	CA3C010	ACTION
<input type="checkbox"/>	> RO20378	CA3C010	ACTION
<input type="checkbox"/>	▼ RO20358	CA3C010	ACTION
Description This is where you would write a description of the brand new volume you just created, which would help you remember everything.			
<input type="button" value="Mark as Done"/> <input type="button" value="Mark as Post-Installation"/> <input type="button" value="Exclude from Installation"/>			
<input type="checkbox"/>	> RO34544	CA3C010	ACTION
<input type="checkbox"/>	> RO34876	CA3C010	ACTION
<input type="checkbox"/>	> RO20123	CA3C010	DYNACT
<input type="checkbox"/>	> RO40799	CA3C010	DYNACT
<input type="checkbox"/>	> RO43502	CA3C010	DYNACT
<input type="checkbox"/>	> RO45671	CA3C010	DYNACT

Items per page: 10 | 1 - 10 of 40 items 1 of 4 pages

> Fixcat (23)
> System (5)
> Error (5)

Cancel Save and Exit Run Apply check



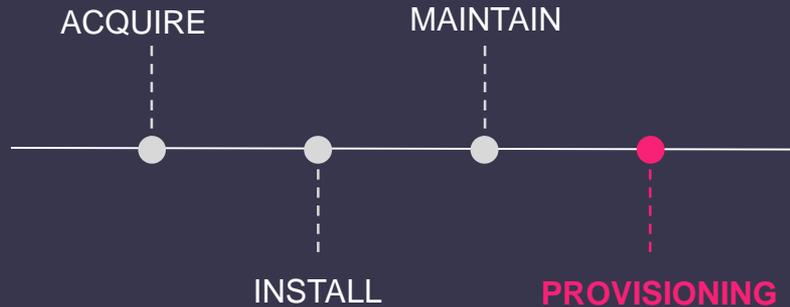
Mainframe software provisioning using z/OSMF

JAN PRIHODA

31 MAY 2018



Cloud-like Experience for Software Provisioning



1

THE BIG PICTURE

2

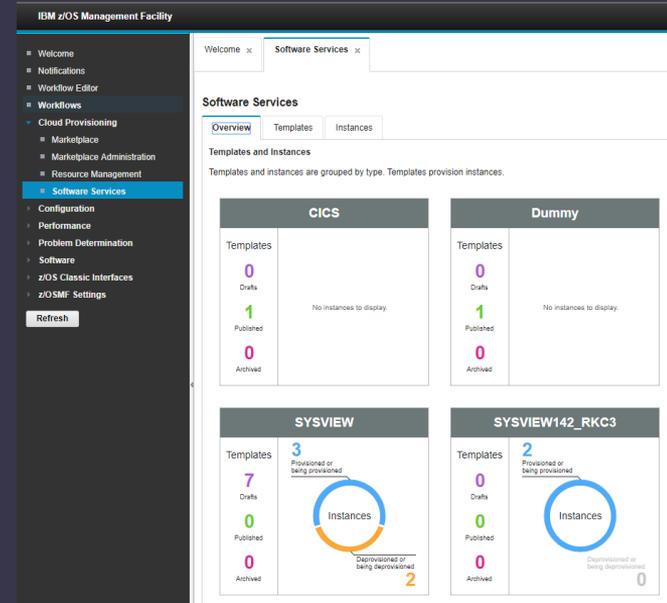
CURRENT PROGRESS

3

FUTURE VISION

What Does It Mean Provisioning

Bring up a new instance of software with configuration on target system in few clicks.



Current Progress

- CA SYSVIEW provisioning **templates** for z/OSMF
- They cover 4 basic scenarios
 - **Fresh install** with default configuration
 - **Upgrade** from a version to higher one
 - **Cloning** existing **instance** from one location to another
 - **Clone** with instance **upgrade**
- ESM microservice certificates configuration

Future Vision

One tool to cover whole process

- From **acquisition**
- Through **install** and **maintenance**
- To **configure running** software instance

How can you get involved



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z/OSMF for Standard Software Management

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