



Software Installation: Simplifying the Acquisition and Installation of z/OS Software

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Agenda

Acquiring Software

Software Installation using z/OSMF

Acquiring and Applying Maintenance

Upcoming Webinars & Events



Mainframe Software Management

New cross-vendor platform standard for managing Mainframe software



Current Status

- Little standardization exists today for managing products across the Mainframe platform
- Mainframe expertize is diminishing
- Multiple vendors = Multiple tools

New cross-vendor platform standard for managing Mainframe software

- All z/OS products to be acquired, deployed, configured and maintained in a consistent way
- Standardizing around single tool – z/OSMF

Who is this for?

The new software management is aimed at the next generation of Mainframe System Programmers.

Meet Tyler...

- Junior system programmer who is comfortable with modern tools
- Installs & maintains z/OS products with help from an experienced

SYSPROG



All z/OS products from all Mainframe vendors to be acquired, deployed, configured and maintained in a consistent way



Product installation

**z/OSMF Software
Instances**



Configuration

**z/OSMF
Workflows**



**Maintenance
Acquisition**

**SMP/E Receive
Order**



Maintenance

**z/OSMF Software
Update**



What is a Software Instance?

Software Instances in z/OSMF



Portal Software Instance and Software Instance

Portable Software Instance

Set of archive files that can be deployed within z/OSMF.

Software Instance

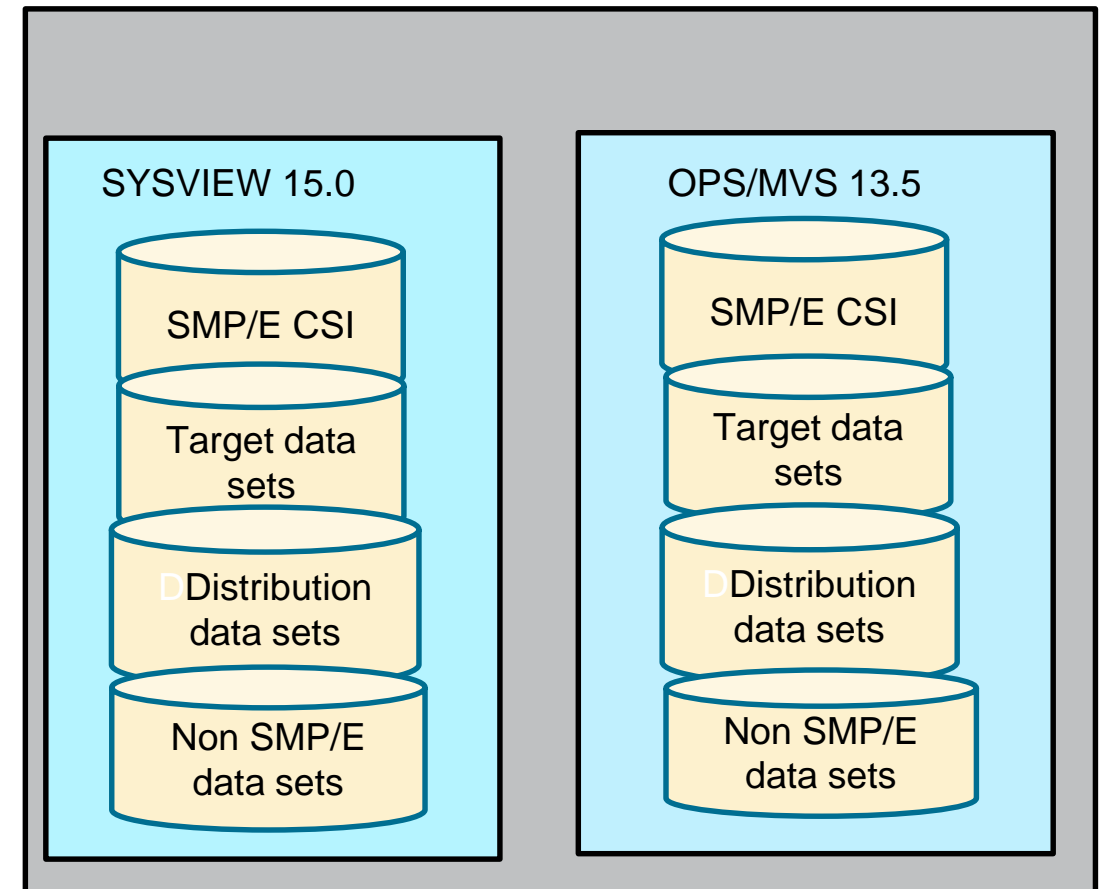
Describes a deployable unit of installed software

Collection of data sets containing installed software

SMP/E managed data sets

CSI, Target and distribution libraries

Non SMP/E data sets





Acquiring z/OSMF Portable Package

Acquiring z/OSMF Portable Package



Download Package from Support Portal

Download the **z/OSMF PAX file** from the Support Portal

Classic PAX files can still be ordered. Product installed using CSM or JCL.

Both PAX files cannot be selected.

CA Vantage Storage Resource Manager 14.0 0000		Release : 14.0
File	DATE	Package
DVD03090555E.pax.Z	Sep 24 2016 10:14AM	Classic
CTU140.pax_Z	May 12 2020 4:27PM	z/OSMF

Download Package for Support Portal

UNPAX z/OSMF PAX file to find

- SMP/E CSI
- SMP/E Target and Distribution libraries
- Other non SMP/E data sets
- JSON file which describes contains
- GIMPAF files

```
File GIMPAF.XML
File GIMPAF.XSL
File IZUD00DF.json
File S0002.CAI.PORTTST.CTU140.GA.ACTUDBRM.pax.Z
File S0003.CAI.PORTTST.CTU140.GA.ACTUHENU.pax.Z
File S0004.CAI.PORTTST.CTU140.GA.ACTUMAC.pax.Z
File S0005.CAI.PORTTST.CTU140.GA.ACTUMOD0.pax.Z
File S0006.CAI.PORTTST.CTU140.GA.ACTUMSEN.pax.Z
File S0007.CAI.PORTTST.CTU140.GA.ACTUPARM.pax.Z
File S0008.CAI.PORTTST.CTU140.GA.ACTUSAMP.pax.Z
File S0009.CAI.PORTTST.CTU140.GA.ACTUSRC.pax.Z
File S0010.CAI.PORTTST.CTU140.GA.ACTUXML.pax.Z
File S0011.CAI.PORTTST.CTU140.GA.ACTUZFS.pax.Z
File S0012.CAI.PORTTST.CTU140.GA.CCTUDBRM.pax.Z
File S0013.CAI.PORTTST.CTU140.GA.CCTUHENU.pax.Z
File S0014.CAI.PORTTST.CTU140.GA.CCTULINK.pax.Z
File S0015.CAI.PORTTST.CTU140.GA.CCTULOAD.pax.Z
File S0016.CAI.PORTTST.CTU140.GA.CCTULPA.pax.Z
File S0017.CAI.PORTTST.CTU140.GA.CCTUMAC.pax.Z
File S0018.CAI.PORTTST.CTU140.GA.CCTUMSEN.pax.Z
File S0019.CAI.PORTTST.CTU140.GA.CCTUPARM.pax.Z
File S0020.CAI.PORTTST.CTU140.GA.CCTUSAMP.pax.Z
File S0021.CAI.PORTTST.CTU140.GA.CCTUSRC.pax.Z
File S0022.CAI.PORTTST.CTU140.GA.CCTUXML.pax.Z
File S0023.CAI.PORTTST.CTU140.GA.CCTUZFS.pax.Z
File S0024.CAI.PORTTST.CTU140.GA.CSI.pax.Z
File S0025.CAI.PORTTST.CTU140.GA.SMPLOG.pax.Z
File S0026.CAI.PORTTST.CTU140.GA.SMPLOGA.pax.Z
File S0027.CAI.PORTTST.CTU140.GA.SMPLTS.pax.Z
File S0028.CAI.PORTTST.CTU140.GA.SMPMTS.pax.Z
```

Software Management Dashboard

Acquire Portable Software Instances

Use **Deployments** to install and create Software Instance

Execute installation workflows as part of deployment

Select **Products** to List FMIDs, products and features

Welcome xSoftware Manage... x

Software Management

Use this task to view details about your software inventory, including related products, features, FMIDs, data sets, deployments, and SYSMODs. [Learn more...](#)

Software Instances	Define your software to z/OSMF; deploy software; generate reports about your software.
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 or suppress information messages.

Acquiring a Portable Software Instance

Add Portable Software Instance

Select to USS location that contains Portable Software Instance

Welcome x Software Manage... x

Software Management > Portable Software Instances > Add Portable Software Instance

Add Portable Software Instance

* System:

XAD1 Select...

* File location (UNIX file):

/cai/porttest/psi/cia060/cia//porttest

Retrieve

Define Portable Software Instance

Adding Portable Software Instance

Define a **name** and **description**

Optional - Add portable software instance to a **category**.

Welcome x

Software Manage... x

Software Management

Portable Software Instances

Add Portable Software Instance

Add Portable Software Instance

* System:

XAD1

Select...

* File location (UNIX file):

/cai/porttest/psi/cia060/cia//porttest

Retrieve

* Name:

CIA060_CIA_DAMDA01

Description: (maximum 256 characters, currently 0 characters)

Compliance Information Analysis V6.0

Categories

Actions

☐

Name

Description

☐

MSM_DEVELOPMEN

☐

MSPS

☐

Testing

OK

Cancel



Install a Portable Software Instance

Installing a Portal Software Instance



Install a Portable Software Instance

Getting Started

Guided Deployment Checklist

- Select portable software instance
- Indicate where and how you want to install
- Specify data set and catalog information
- Submit Deployments Jobs
- Submit product specific workflows

Welcome x Software Manage... x

[Software Management](#) › [Deployments](#) › Deployment Checklist

Deployment Checklist

To deploy software, complete the checklist.

Checklist

Progress	Step
➡	Specify the properties for this deployment.
	Select the software to deploy.
	Select the objective for this deployment.
	Configure this deployment.
	Define the job settings. z/OSMF creates the deployment summary and jobs. <ul style="list-style-type: none">• View the deployment summary.
	Submit deployment jobs.
	Specify the properties for the target software instance.

Close

Install a Portable Software Instance...

Specify Deployment Properties

Specify the **deployment properties**

- Name
- Description
- Optionally select Category

Welcome x Software Manage... x

Software Management > Deployments > Deployment Checklist > Specify Deployment Properties

Specify Deployment Properties

Enter a name and optional description for this deployment.

* Name:
Deployment_Demo

Description: (maximum 256 characters, currently 15 characters)
Deployment Demo

Categories

Actions

No filter applied

<input type="checkbox"/>	Name Filter	Description Filter	Activity Filter	Last Modified (Local) Filter	Modified By Filter
<input type="checkbox"/>	MSM_DEVELOPMENT			Jun 9, 2016, 3:27:14 PM	NEWJA04
<input type="checkbox"/>	MSPS			Sep 27, 2017, 8:32:15 AM	HINPA03
<input type="checkbox"/>	Testing			Mar 19, 2020, 3:24:34 PM	GOOMA04
<input checked="" type="checkbox"/>	Demo	Demo Category		May 8, 2020, 5:14:01 PM	DAMDA01

Total: 4 Selected: 1

Refresh Last refresh: May 8, 2020, 5:14:01 PM local time (May 8, 2020, 10:14:01 PM GMT)

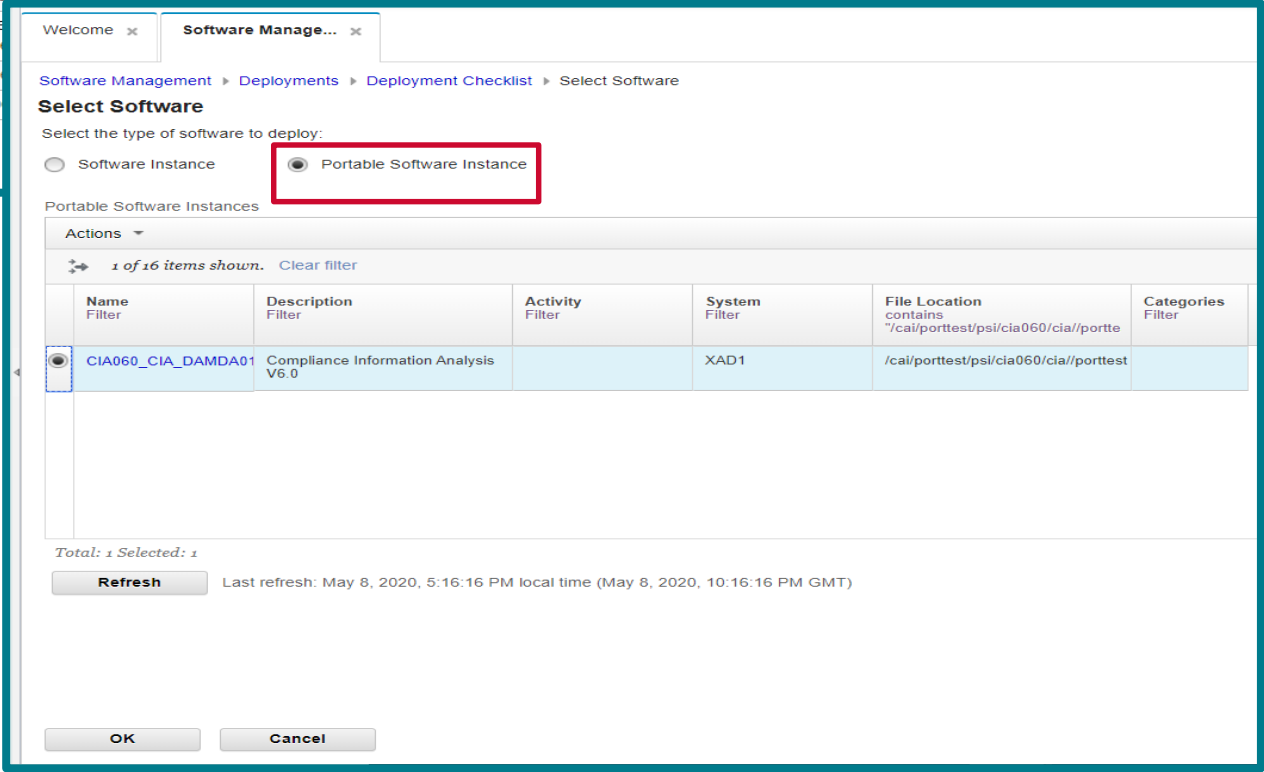
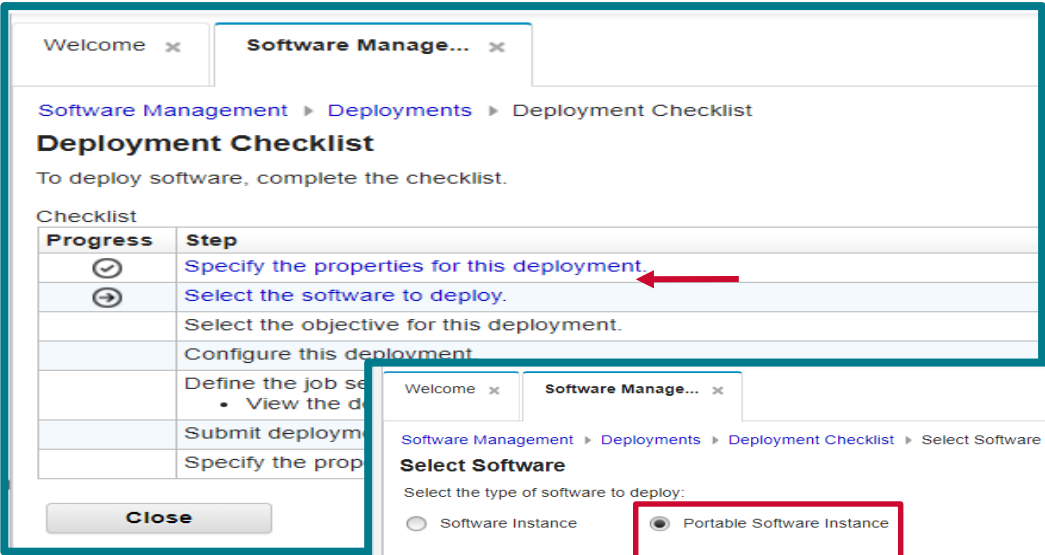
OK Cancel

Install Portable Software Instance...

Select Software

Select type of Software to Deploy

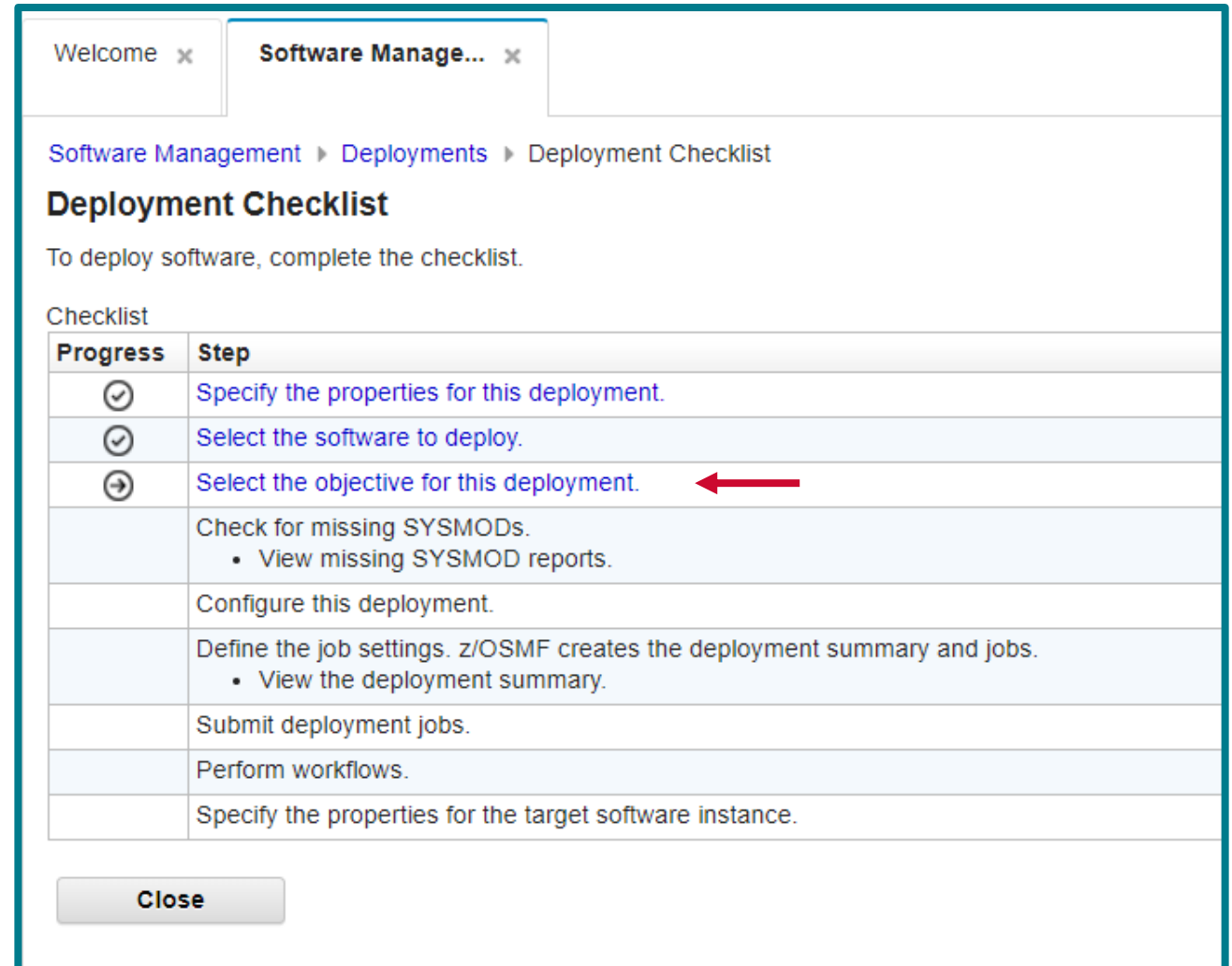
- Software Instance
- Portable Software Instance



Install a Portable Software Instance...

Select Objective for Deployment

Indicate where and how you want to install the selected portable software Instance.



The screenshot shows a web application window titled 'Software Management' with a sub-tab 'Software Manage...'. The breadcrumb navigation is 'Software Management > Deployments > Deployment Checklist'. The main heading is 'Deployment Checklist' with a subtext 'To deploy software, complete the checklist.' Below this is a table with two columns: 'Progress' and 'Step'. The table contains ten rows of deployment steps. The third row, 'Select the objective for this deployment.', is highlighted in light blue and has a red arrow pointing to it from the right. The first two rows are also highlighted in light blue and have checkmark icons in the 'Progress' column. The last row has a circular arrow icon in the 'Progress' column. A 'Close' button is located at the bottom of the window.

Progress	Step
✓	Specify the properties for this deployment.
✓	Select the software to deploy.
→	Select the objective for this deployment. ←
	Check for missing SYSMODs. <ul style="list-style-type: none">• View missing SYSMOD reports.
	Configure this deployment.
	Define the job settings. z/OSMF creates the deployment summary and jobs. <ul style="list-style-type: none">• View the deployment summary.
	Submit deployment jobs.
	Perform workflows.
	Specify the properties for the target software instance.

Close

Install a Portable Software Instance

Select Deployment Objective

Deployment Objectives

- Create a new global CSI
- Connect to an existing global zone
- Replace an existing Software Instance

The screenshot shows a web application interface for software management. At the top, there are two tabs: 'Welcome' and 'Software Manage...'. Below the tabs, a breadcrumb trail reads: 'Software Management > Deployments > Deployment Checklist > Select Deployment Objective'. The main heading is 'Select Deployment Objective'. Below this, a paragraph explains: 'This deployment creates a copy of the source software. The resulting copy is referred to as the target software instance. Indicate whether you want the target instance to be a new software instance or to replace an existing software instance.' Under the heading 'Objective:', there are four radio button options: 1. 'Create a new software instance and connect it to the following global zone CSI. [Learn more...](#)' (This option is selected). 2. 'A new global zone CSI'. 3. 'Another existing global zone CSI'. 4. 'Replace an existing software instance, and connect the new instance to the existing instance's global zone CSI. [Learn more...](#)'. Below these options, a text label says 'Select the system where the target software instance will reside.' This is followed by a label 'Target system:' and a dropdown menu showing 'XAD1'. To the right of the dropdown is a 'Select...' button.

Install a Portable Software Instance...

Configure Deployment

The Configure step defines the target software instance:

- Indicate if DLIBs should be installed.
- Select a model for the initial configuration.

Modify each of the following in the initial configuration:

- SMP/E target and DLIB zones
- Data sets
- Catalogs • Volumes
- UNIX file system mount

The screenshot shows a web-based interface for software management. At the top, there are two tabs: 'Welcome' and 'Software Manage...'. Below the tabs, the breadcrumb navigation reads 'Software Management > Deployments > Deployment Checklist'. The main heading is 'Deployment Checklist', followed by the instruction 'To deploy software, complete the checklist.' Below this is a table with two columns: 'Progress' and 'Step'. The table contains eight rows, each representing a step in the deployment process. The first four steps are marked with a checkmark in the 'Progress' column, indicating they are completed. The fifth step is marked with a right-pointing arrow, indicating it is the current step. The remaining three steps are empty. At the bottom of the window is a 'Close' button.

Progress	Step
✓	Specify the properties for this deployment.
✓	Select the software to deploy.
✓	Select the objective for this deployment.
✓	Check for missing SYSMODs. <ul style="list-style-type: none">• View missing SYSMOD reports.
→	Configure this deployment.
	Define the job settings. z/OSMF creates the deployment summary and jobs. <ul style="list-style-type: none">• View the deployment summary.
	Submit deployment jobs.
	Perform workflows.
	Specify the properties for the target software instance.

Close

Install a Portable Software Instance

Configure Deployment

Select your Target and Distribution Zone names

Welcome xSoftware Manage... x

Software Management > Deployments > Deployment Checklist > Configure DeploymentHelp

Configure Deployment for CIA060_CIA_DAMDA01

✓ Welcome

✓ DLIBs

✓ Model

👉 SMP/E Zones

Data Sets

Catalogs

Volumes and Storage Classes

SMP/E Zones

The Zones table lists the names that will be used for the SMP/E zones included in the target software instance. Accept the default names, or modify the values. To modify the data in a table cell, double click an editable cell, or select it and press **Enter**. To exit an editable cell and preserve your changes, click outside of the cell or press **Enter**.


Zones

Actions ▾

✦ No filter applied

Target Target Zone Filter	Target DLIB Zone Filter	Messages Filter	Source Target Zone Filter	Source DLIB Zone Filter	
CAIT0	CAID0		CAIT0	CAID0	

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Install a Portable Software Instance

Modify data sets

Displays all data sets within Portable Software Instance

- Select **data sets**
- Select **Actions** then **Modify**
- Enter your desired high level qualifier

Welcome xSoftware Manage... x

Software Management > Deployments > Deployment Checklist > Configure Deployment

Configure Deployment for CIA060_CIA_DAMDA01

✓ Welcome

✓ DLIBs

✓ Model

✓ SMP/E Zones

👉 Data Sets

Catalogs

Volumes and Storage Classes

Data Sets

The Data Sets table lists the names, volumes, and storage classes that will be used for the data sets included in the target software instance. Accept the default names, volumes, and storage classes, or use the **Modify** action to modify them.

Data Sets

Actions ▾

No filter applied

<input checked="" type="checkbox"/>	Target Data Set Name Filter	Target Volume Filter	Target Storage Class Filter	Data Set Category Filter	Data Set Type Filter	Tracks Filter	Messages Filter	Source Data Set Name Filter
<input checked="" type="checkbox"/>	CAI.PORTTST.CIA060.GA.ACIAIDBRM		SCWRKD	Dlib	PDS	50		CAI.PORTTST.CIA060.GA.ACIAID
<input checked="" type="checkbox"/>	CAI.PORTTST.CIA060.GA.ACIAIDTR		SCWRKD	Dlib	PDS	600		CAI.PORTTST.CIA060.GA.ACIAID
<input checked="" type="checkbox"/>	CAI.PORTTST.CIA060.GA.ACIAJCL0		SCWRKD	Dlib	PDS	350		CAI.PORTTST.CIA060.GA.ACIAJC
<input checked="" type="checkbox"/>	CAI.PORTTST.CIA060.GA.ACIAMAC0		SCWRKD	Dlib	PDS	20		CAI.PORTTST.CIA060.GA.ACIAM
<input checked="" type="checkbox"/>	CAI.PORTTST.CIA060.GA.ACIAMENU		SCWRKD	Dlib	PDS	39		CAI.PORTTST.CIA060.GA.ACIAM
<input checked="" type="checkbox"/>	CAI.PORTTST.CIA060.GA.ACIAMOD0		SCWRKD	Dlib	PDS	92		CAI.PORTTST.CIA060.GA.ACIAM
<input checked="" type="checkbox"/>	CAI.PORTTST.CIA060.GA.ACIAMOD1		SCWRKD	Dlib	PDS	25		CAI.PORTTST.CIA060.GA.ACIAM
<input checked="" type="checkbox"/>	CAI.PORTTST.CIA060.GA.ACIAOPTN		SCWRKD	Dlib	PDS	15		CAI.PORTTST.CIA060.GA.ACIAO

Total: 29 Selected: 29


< Back

Next >

Finish

Cancel

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Install a Portable Software Instance

Modify Data Sets

For all data sets in source software instance

- Specify High Level qualifier
- Specify data set location - Volume or storage class
- Specify Mount Points

Welcome x Software Manage... x

Software Management > Deployments > Deployment Checklist > Configure Deployment > Modify

Modify Data Sets

Enter the data set name or qualifiers to use for the selected data sets.

Common data set qualifiers:

From: CAI.PORTTST.CIA060.GA

To: QAESD|PORTTST.CIA060.GA

Example data set name:

CAI.PORTTST.CIA060.GA.ACIADBRM

QAESD.PORTTST.CIA060.GA.ACIADBRM

Select or type the volume or storage class to use for the selected data sets.

☐ Volume ☒ Storage class

SCWRKD

Selected Data Sets

Actions

No filter applied

<input checked="" type="checkbox"/>	Target Data Set Name Filter	Target Volume Filter	Target Storage Class Filter	Data Set Category Filter	Data Set Type Filter	Tracks Filter
<input checked="" type="checkbox"/>	CAI.PORTTST.CIA060.GA.ACIADBRM		SCWRKD	Dlib	PDS	50
<input checked="" type="checkbox"/>	CAI.PORTTST.CIA060.GA.ACIADDTR		SCWRKD	Dlib	PDS	600
<input checked="" type="checkbox"/>	CAI.PORTTST.CIA060.GA.ACIAJCL0		SCWRKD	Dlib	PDS	350
<input checked="" type="checkbox"/>	CAI.PORTTST.CIA060.GA.ACIAMAC0		SCWRKD	Dlib	PDS	20
<input checked="" type="checkbox"/>	CAI.PORTTST.CIA060.GA.ACIAMENU		SCWRKD	Dlib	PDS	39
<input checked="" type="checkbox"/>	CAI.PORTTST.CIA060.GA.ACIAMOD0		SCWRKD	Dlib	PDS	92
<input checked="" type="checkbox"/>	CAI.PORTTST.CIA060.GA.ACIAMOD1		SCWRKD	Dlib	PDS	25
<input checked="" type="checkbox"/>	CAI.PORTTST.CIA060.GA.ACIAOPTN		SCWRKD	Dlib	PDS	15

Total: 29 Selected: 29

OK Reset Cancel

Install a Portable Package Instance

Create Deployment Jobs

Generate JCL to
install the software

Welcome x

Software Manage... x

Software Management ▶ Deployments ▶ Deployment Checklist

Deployment Checklist

To deploy software, complete the checklist.

Checklist

Progress	Step
✓	Specify the properties for this deployment.
✓	Select the software to deploy.
✓	Select the objective for this deployment.
✓	Check for missing SYSMODs. <ul style="list-style-type: none">View missing SYSMOD reports.
✓	Configure this deployment.
➔	Define the job settings. z/OSMF creates the deployment summary and jobs. <ul style="list-style-type: none">View the deployment summary.
	Submit deployment jobs.
	Perform workflows.
	Specify the properties for the target software instance.

Close

Install a Portable Software Instance

Define Job Settings

JCL data set is
automatically
allocated



Enter your job
statement that will
be used for
generated JCL

The screenshot shows a web-based interface for defining job settings. At the top, there are tabs for 'Welcome' and 'Software Manage...'. Below the tabs is a breadcrumb trail: 'Software Management > Deployments > Deployment Checklist > Define Job Settings'. The main heading is 'Define Job Settings'. Below this, a text box explains: 'To specify the job settings, provide the information requested. Then, click **OK** to generate the deployment summary and jobs. The jobs will be stored in the specified JCL data set. z/OSMF does not run the jobs.'

There are two main input fields:

- * JCL data set name:** A text box containing the value 'DAMDA01.DM.D200508.T172929.CNTL'.
- * JOB statement:** A large text area containing the following JCL code:

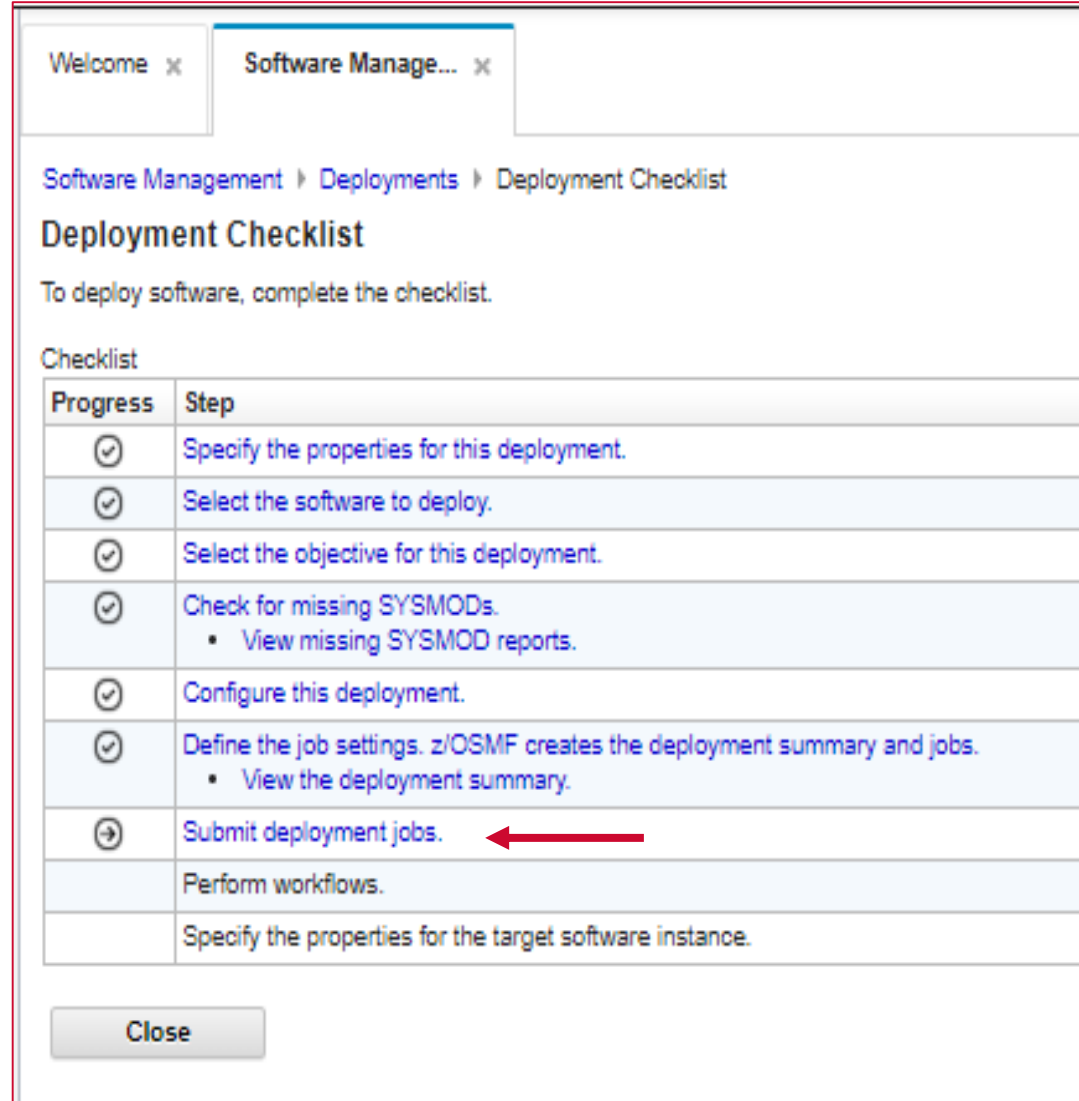
```
-----1-----2-----3-----4-----5-----6-----7--
//DAMDA01I  JOB (106381000), 'DAMDA01 46328', CLASS=B, MSGCLASS=X,
//          NOTIFY=DAMDA01
//*
/*JOBPARM  S=XAD1
/*
```

At the bottom of the dialog, there are four buttons: 'Undo Changes', 'Restore Defaults', 'OK', and 'Cancel'.

Install a Portable Software Instance

Submit Deployment Jobs

Submit generated jobs.



Welcome x Software Manage... x

Software Management > Deployments > Deployment Checklist

Deployment Checklist

To deploy software, complete the checklist.

Checklist

Progress	Step
✓	Specify the properties for this deployment.
✓	Select the software to deploy.
✓	Select the objective for this deployment.
✓	Check for missing SYSMODs. <ul style="list-style-type: none">View missing SYSMOD reports.
✓	Configure this deployment.
✓	Define the job settings. z/OSMF creates the deployment summary and jobs. <ul style="list-style-type: none">View the deployment summary.
→	Submit deployment jobs. ←
	Perform workflows.
	Specify the properties for the target software instance.

Close

Install a Portable Software Instance

Submit Deployment Jobs

Generated JCL will perform the following

1. Unzip data sets
2. Rename data sets
3. Update SMP/E CSI with data sets names.

Welcome xSoftware Manage... x

Software Management > Deployments > Deployment Checklist > Submit Deployment Jobs

Submit Deployment Jobs

Review the jobs created for this deployment, and submit the jobs in sequential order. When all the jobs are complete, click **Close** to proceed to the next step in the deployment checklist.

JCL data set name: DAMDA01.DM.D200508.T172929.CNTL
Target system: XAD1

Jobs

Actions ▾

↔ No filter applied

<input type="checkbox"/>	Sequence Filter	JCL Data Set Member Name Filter	Description Filter	System Filter	Status Filter	Messages Filter
<input checked="" type="checkbox"/>	1	IZUD01UZ	Unzip Data Sets: Extract the target software instance data sets from the portable software instance archive files, into the location defined by the deployment configuration, using temporary and unique data set names.	XAD1		
<input type="checkbox"/>	2	IZUD02RN	Rename Data Sets: Rename the target software instance data sets from their temporary and unique names to their desired names defined by the deployment configuration, and update catalog entries for the data sets as needed.	XAD1		
<input type="checkbox"/>	3	IZUD03UC	Update CSI Data Sets: Update the entries within the SMP/E CSI data sets to reflect the target software instance zone names, data set names and locations, and UNIX directory prefixes.	XAD1		

Total: 3 Selected: 1

RefreshLast refresh: May 8, 2020, 5:30:37 PM local time (May 8, 2020, 10:30:37 PM GMT)

Close

Install a Portable Software Instance

Submit Deployment Jobs

You can view submit job, view JCL and view job output.

Jobs must be executed in sequence

- Select Deployment Job
- Under Actions select **SUBMIT**

Welcome x Software Manage... x

Software Management > Deployments > Deployment Checklist > Submit Deployment Jobs

Submit Deployment Jobs

Messages 0 0 1

Job "DAMDA01I" (JOB03915) has been submitted. IZUD786I May 8, 2020, 5:31:26 PM

Review the jobs created for this deployment, and submit the jobs in sequential order. When all the jobs are complete, click **Close** to proceed to the next step in the deployment checklist.

JCL data set name: DAMDA01.DM.D200508.T172929.CNTL
Target system: XAD1

Jobs

Actions

No filter applied

Sequence Filter	JCL Data Set Member Name Filter	Description Filter	System Filter	Status Filter	Messages Filter	Job Name Filter	Job ID Filter
<input type="checkbox"/> 1	IZUD01UZ	Unzip Data Sets: Extract the target software instance data sets from the portable software instance archive files, into the location defined by the deployment configuration, using temporary and unique data set names.	XAD1	<input checked="" type="checkbox"/> Complete		DAMDA01I	JOB03915
<input checked="" type="checkbox"/> 2	IZUD02RN	Rename Data Sets: Rename the target software instance data sets from their temporary and unique names to their desired names defined by the deployment configuration, and update catalog entries for the data sets as needed.	XAD1				
<input type="checkbox"/> 3	IZUD03UC	Update CSI Data Sets: Update the entries within the SMP/E CSI data sets to reflect the target software instance zone names.	XAD1				

Total: 3 Selected: 1

Refresh Last refresh: May 8, 2020, 5:31:41 PM local time (May 8, 2020, 10:31:41 PM GMT)

Close

Install a Portable Software Instance

Complete Jobs

Continue to next step
after Deployment
Jobs Complete

Welcome xSoftware Manage... x

Software Management > Deployments > Deployment Checklist > Submit Deployment Jobs

Submit Deployment Jobs

Review the jobs created for this deployment, and submit the jobs in sequential order. When all the jobs are complete, click **Close** to proceed to the next step in the deployment checklist.

JCL data set name: DAMDA01.DM.D200508.T172929.CNTL
Target system: XAD1

Jobs

Actions

No filter applied

<input type="checkbox"/>	Sequence Filter	JCL Data Set Member Name Filter	Description Filter	System Filter	Status Filter	Messages Filter	Job Name Filter	Job ID Filter
<input type="checkbox"/>	1	IZUD01UZ	Unzip Data Sets: Extract the target software instance data sets from the portable software instance archive files, into the location defined by the deployment configuration, using temporary and unique data set names.	XAD1	<input checked="" type="checkbox"/> Complete		DAMDA01I	JOB03915
<input type="checkbox"/>	2	IZUD02RN	Rename Data Sets: Rename the target software instance data sets from their temporary and unique names to their desired names defined by the deployment configuration, and update catalog entries for the data sets as needed.	XAD1	<input checked="" type="checkbox"/> Complete		DAMDA01I	JOB03922
<input type="checkbox"/>	3	IZUD03UC	Update CSI Data Sets: Update the entries within the SMP/E CSI data sets to reflect the target software instance zone names, data set names and locations, and UNIX directory prefixes.	XAD1	<input checked="" type="checkbox"/> Complete		DAMDA01I	JOB03923

Total: 3 Selected: 0

RefreshLast refresh: May 8, 2020, 5:33:58 PM local time (May 8, 2020, 10:33:58 PM GMT)

Close

Install a Portable Software Instance

Perform Workflows

If a portable Software Instance contains workflows, complete the Perform Workflows step

Welcome xSoftware Manage... x

Software Management ▶ Deployments ▶ Deployment Checklist

Deployment Checklist

To deploy software, complete the checklist.

Checklist

Progress	Step
✓	Specify the properties for this deployment.
✓	Select the software to deploy.
✓	Select the objective for this deployment.
✓	Check for missing SYSMODs. <ul style="list-style-type: none">View missing SYSMOD reports.
✓	Configure this deployment.
✓	Define the job settings. z/OSMF creates the deployment summary and jobs. <ul style="list-style-type: none">View the deployment summary.
✓	Submit deployment jobs.
➔	Perform workflows. ←
	Specify the properties for the target software instance.

Close

Install a Portable Software Instance

Executing Workflows

Most products include a
Post SMP/E Workflow

Other workflows include:

- Base installation Workflow
- Upgrade Workflow

Welcome x Software Manage... x

Software Management › Deployments › Deployment Checklist › Perform Workflows

Perform Workflows

It is recommended that you open and complete all the workflows in sequential order before you proceed to the next step in the deployment checklist.

Workflow Definition Files

Actions ▾

No filter applied

<input type="checkbox"/>	Sequence Filter	Name Filter	Description Filter	Messages Filter	Status Filter	Percent Complete	System Filter	Owner Filter
<input type="checkbox"/>	1	Post SMPE Workflow	Post SMPE Workflow			0%		

Install a Portal Software Instance

Execute Workflows

Post SMP/E Workflow

- Update CSI with site specific **external data sets** (DB2LOAD, CICS, MQ)
- **Execute SMP/E LINKLMODs** to relink load modules
- Optional step - **Mount USS directories**

Click on step title to perform the step.

Welcome xSoftware Manage... xWorkflows x

Workflows

Post SMPE Workflow_6

Post SMPE Workflow_6

Description:
Post deployment workflow to update data set and path name DDDEFs in the CSI of a portable package

Percent complete:

9%

Owner:
damda01

System:
PLEXC1.XAD

Steps complete:
1 of 3

Status:
In Progress


Workflow Steps

Actions

No filter applied

<input type="checkbox"/>	State Filter	No. Filter	Title Filter	CalledWorkflow Filter	Automated Filter	Owner Filter
<input checked="" type="checkbox"/>	Complete	1	Define Software Instance Variables		No	damda01
<input type="checkbox"/>	Ready	2	Generate and submit the JCL to update the SMP/E DSNAMEs		No	damda01
<input type="checkbox"/>	Not Ready	3	Update load modules with installation specific include modules		Yes	damda01

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Install a Portal Software Instance

Execute Workflows

All Steps are COMPLETE.

You are ready to continue..

Welcome xSoftware Manage... xWorkflows x

Workflows

Post SMPE Workflow_6

Post SMPE Workflow_6

Description:
Post deployment workflow to update data set and path name DDDEFs in the CSI of a portable package

Percent complete:

100%

Owner:
damda01

System:
PLEXC1.XAD1

Steps complete:
3 of 3

Status:
✔ Complete

Is C
Cal
Acc

Workflow Steps

Actions ▾

No filter applied

<input type="checkbox"/>	State Filter	No. Filter	Title Filter	CalledWorkflow Filter	Automated Filter	Owner Filter	Skill Category Filter
<input type="checkbox"/>	✔ Complete	1	■ Define Software Instance Variables		No	damda01	JCL, REXX
<input type="checkbox"/>	✔ Complete	2	■ Generate and submit the JCL to update the SMP/E DSNAMES		No	damda01	JCL, SMP/E
<input type="checkbox"/>	✔ Complete	3	■ Update load modules with installation specific include modules		Yes	damda01	JCL, SMP/E

Install a Portal Software Instance

Specify Properties

Enter a **name** and **description** for a New Target Software Instance

Welcome x Software Manage... x

Software Management › Deployments ›
Deployment Checklist
To deploy software, complete the checklist.
Checklist

Progress	Step
✓	Specify the properties for this
✓	Select the software to deploy.
✓	Select the objective for this de
✓	Check for missing SYSMODs. • View missing SYSMOD reports.
✓	Configure this deployment.
✓	Define the job settings. z/OSMF creates the deployment summary and jobs. • View the deployment summary.
✓	Submit deployment jobs.
✓	Perform workflows.
➔	Specify the properties for the target software instance.

Close

Software Manage... x Workflows x
Software Management › Deployments › Deployment Checklist › Specify Target Software Instance Properties
Specify Target Software Instance Properties
* Target software instance name:
CIA060_CIA_DAMDA01_1
Description: (maximum 256 characters, currently 36 characters)
Compliance Information Analysis V6.0

Configure a Portable Software Instance

Installation is
Complete!!!

Welcome x

Software Manage... x

Workflows x

Software Management ▶ Deployments ▶ Deployment Checklist

Deployment Checklist

To deploy software, complete the checklist.

Checklist

Progress	Step
✓	Specify the properties for this deployment.
✓	Select the software to deploy.
✓	Select the objective for this deployment.
✓	Check for missing SYSMODs. <ul style="list-style-type: none">View missing SYSMOD reports.
✓	Configure this deployment.
✓	Define the job settings. z/OSMF creates the deployment summary and jobs. <ul style="list-style-type: none">View the deployment summary.
✓	Submit deployment jobs.
✓	Perform workflows.
✓	Specify the properties for the target software instance.

Close

Find Product Information

Select Products from Dashboard

Welcome x

Software Manage... x

Software Management

Use this task to view details about your software inventory, including related products, features, FMIDs, data sets, deployments, and SYSMODs. [Learn more...](#)

Software Instances	Define your software to z/OSMF; deploy software; generate reports about your software.
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 or suppress information messages.

GA and EOS dates are displayed

Product Filter	Release Filter	General Availability Filter	End of Service Filter
TESTING TOOLS COMMON SYMBOLIC COMPONENT	09.00.00	Dec 22, 2016	 Jan 30, 2020
CA MAT base component	12.00.00	Feb 1, 2017	 Not Announced
Performance Management Assistant	12.00.00	Feb 1, 2017	 Not Announced
CA MAT @DAM component	12.00.00	Feb 1, 2017	 Not Announced



Acquiring and Applying Maintenance

Acquisition of PTF Maintenance using SMP/E Receive Order



Using SMP/E Receive Order

BEST PRACTICE is to use **SMP/E Receive Order**

- All major vendors support Receive Order

SMP/E Receive command

- Builds custom package of missing PTFS
- Download PTFS to your SMPNTS USS directory
- Receive PTFS into Global Zone

Package includes ++HOLDDATA and ++ASSIGN statements

Benefits of Using Receive Order

Order PTFs, APARs, Critical, Recommended, ALL or just HOLDDATA

Use Job scheduler to automate acquisition on a regular cadence

Fast Delivery of your PTFS

One time security and network setup

- Download certificates and create keyring
- Update your network DNS to ensure access to vendor servers



Apply Maintenance Using z/OSMF Software Update

Software Update Action (Planned for August 2020)

- Apply of Corrective Service

- Apply Preventative Maintenance

- Apply PTFs required for installation of new Software, Hardware or Functions

Summary

- Acquisition of a Portable Software Instance
- Installation of Portable Software Instance using z/OSMF
- Acquisition of maintenance using Receive Order
- Use of z/OSMF Software Update to apply maintenance
- Use z/OSMF workflows to automate configuration

Webcast Series Covering Mainframe Software Management Using z/OSMF

Past:

CA Mainframe Software Manager & New Standard For Mainframe Software Management

When: Jan 15, 2020 from 11:00 AM to 12:00 PM (ET)

Recording available here: <https://community.broadcom.com/mainframesoftware/communities/community-home>

Software Update: Modernizing the Maintenance of z/OS Software

When: Mar 23, 2020 from 11:00 AM to 12:00 PM (ET)

Recording available here: <https://community.broadcom.com/mainframesoftware/communities/community-home>

Software Configuration: Automating the Configuration of z/OS Software

When: Apr 20, 2020 from 11:00 AM to 12:00 PM (ET)

Recording available here: <https://community.broadcom.com/mainframesoftware/communities/community-home>

To register go to community.broadcom.com/mainframesoftware and search for 'New Webcast Series Covering Mainframe Software Management Using z/OSMF'

Register now for the

Mainframe Technical Exchanges

in these locations in 2020:

Lisle, IL	Aug. 25 – 27, 2020
Pittsburgh, PA - NEW DATE	Sept. 15 – 17, 2020
Prague, Czech Republic - NEW DATE	Sept. 22 – 24, 2020
Plano, TX	Oct. 13 – 15, 2020



Thank You

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