

Installing IBM's ServerPac Using z/OSMF Software Management

05.05.2021, 92. Schweizer z/OS GSE
Expertenforum

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z/OS V2.4 and V2.5 Announcements

- **2019**

“IBM's first delivery of a **ServerPac in z/OSMF Software Management portable software instance format** is planned for CICS Transaction Server and associated CICS products.
...this is the **first of many** offerings that are planned to be delivered in the PSI format.

...This initial offering of an IBM ServerPac in a z/OSMF portable software instance represents the next step in IBM's **collaboration with other leading z/OS platform software vendors** to deliver a consistent package format intended to be used with z/OSMF software management as a common installer.”

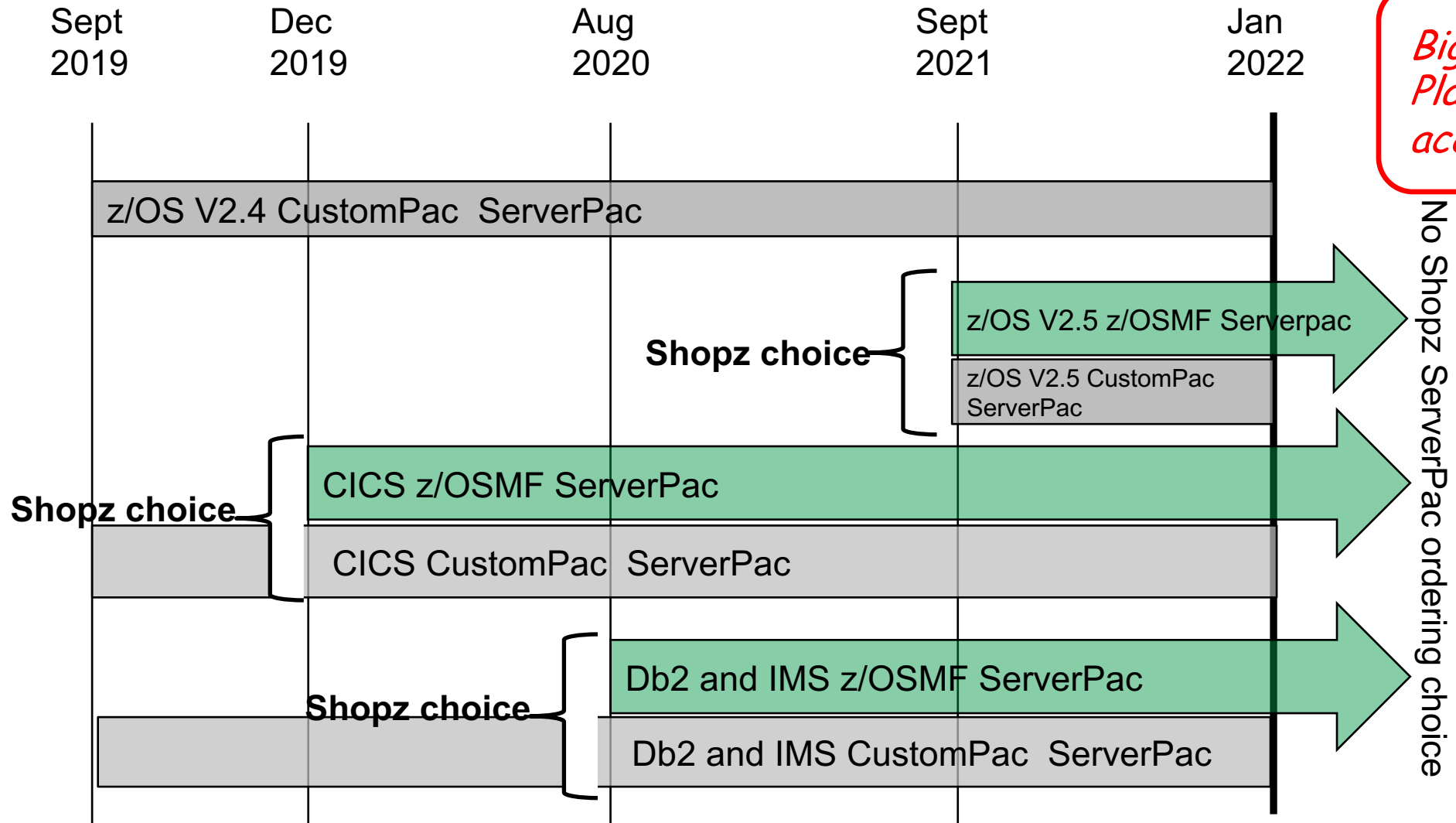
- **September 2020**

“In addition to the delivery option in Shopz of IBM CICS and CICS program products as a ServerPac Portable Software Instance on December 6, 2019, this delivery option has been extended to **IMS and IMS program products**, as well as to **Db2 and Db2 program products**. These additional products became available as a ServerPac Portable Software Instance delivery option on August 20, 2020.”

- **March 2021**

“IBM intends to provide **z/OS V2.5** as a portable software instance. With this change, **IBM plans to discontinue support for the CustomPac dialog** method of installation for all IBM software products in Shopz in **January 2022.**”

ServerPac Portable Software Instance Timeline*



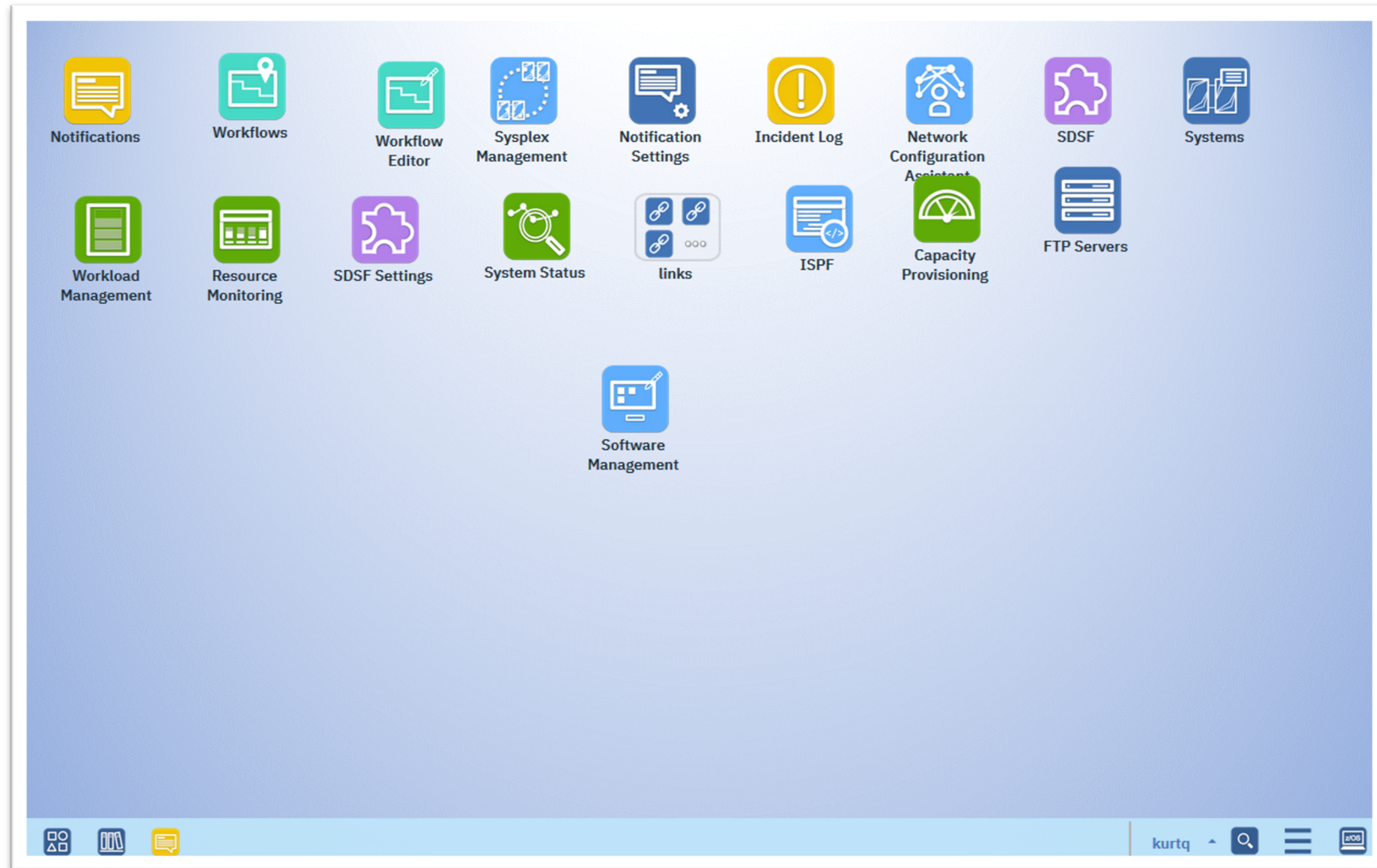
Note: CBPDO is still available, but ServerPac is recommended.

* Statements regarding IBM future direction and intent are subject to change or withdrawal and represent goals and objectives only.

Agenda

- Brief z/OSMF and Software Management overview.
- What is a Software Instance?
- What is a Portable Software Instance?
- Acquiring a Portable Software Instance from a provider.
- Install the Portable Software Instance
 - Launching Workflows supplied by the software provider.
- What can I do with z/OSMF Software Management after install?

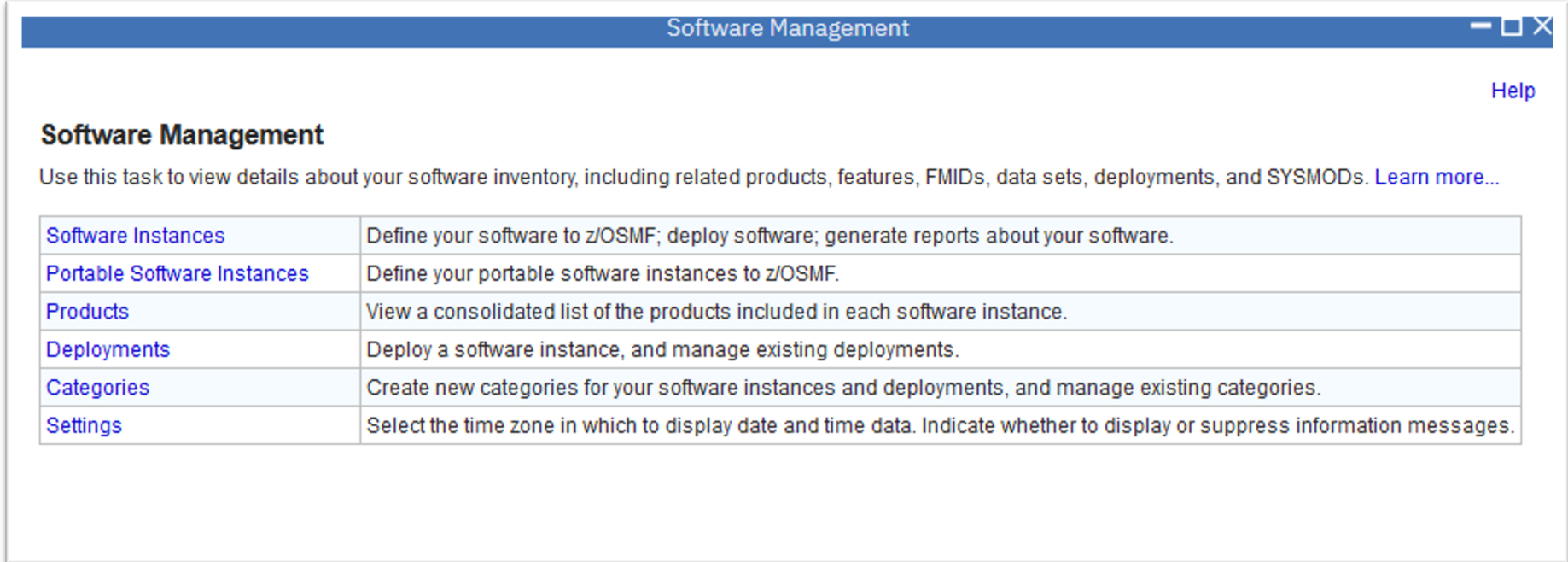
What is z/OSMF Software Management?



The z/OSMF
desktop.

What is z/OSMF Software Management?

The Software Management welcome page.



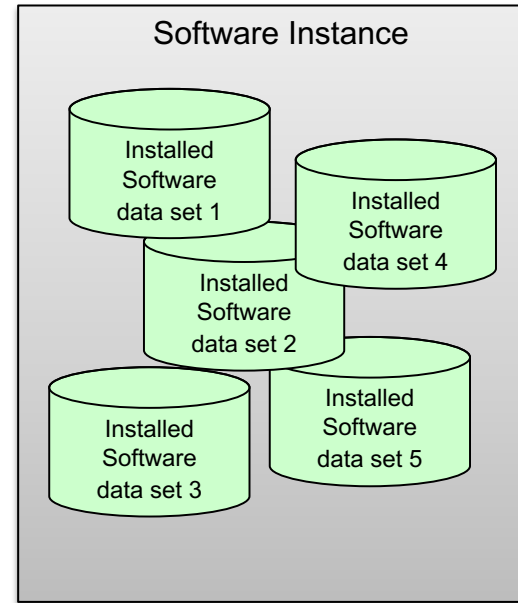
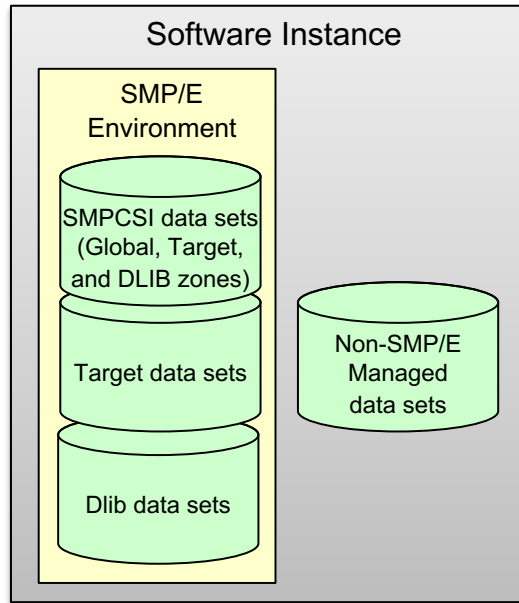
Software Management Help

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.

What is a Software Instance?

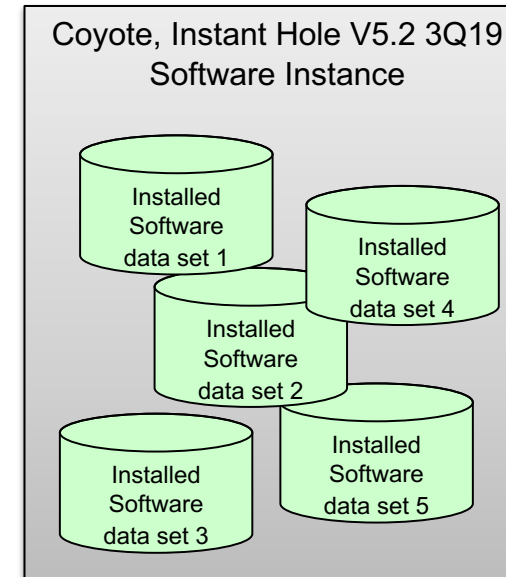
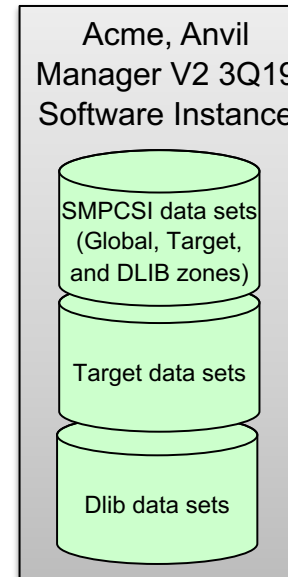
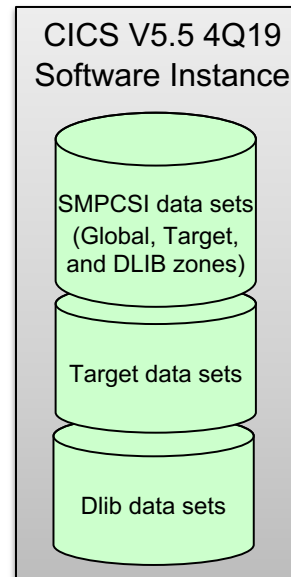
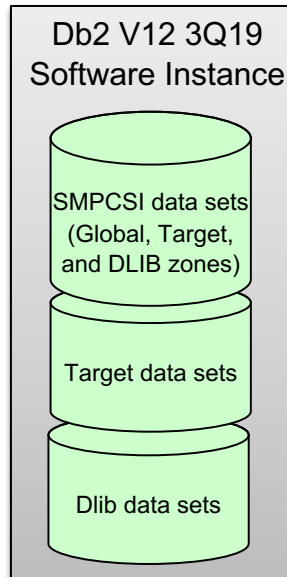
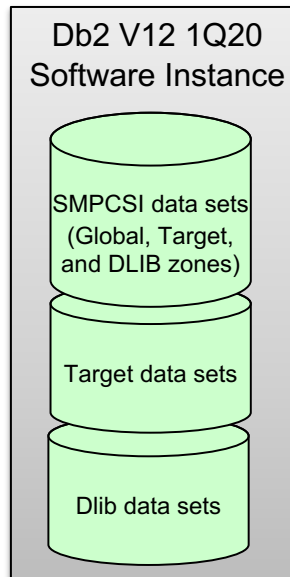
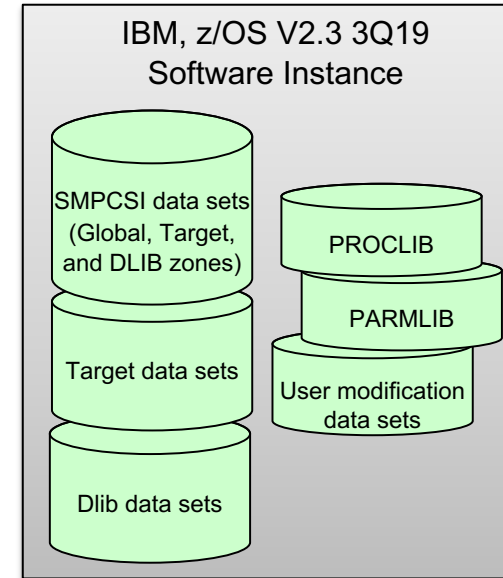
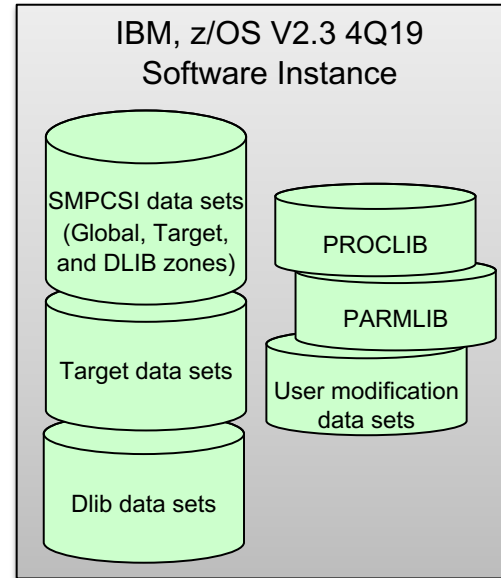
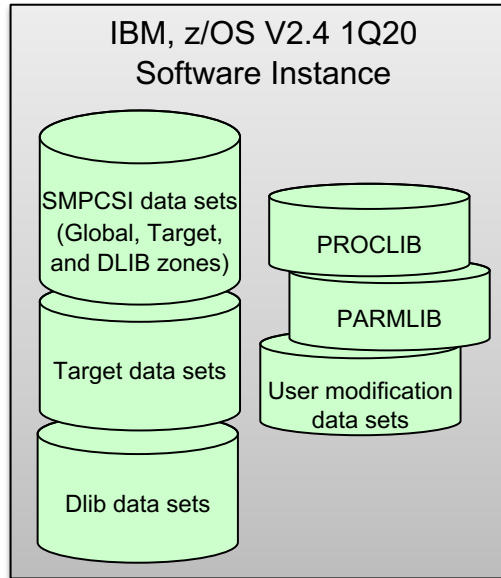
What is a Software Instance?



A software instance (SWI):

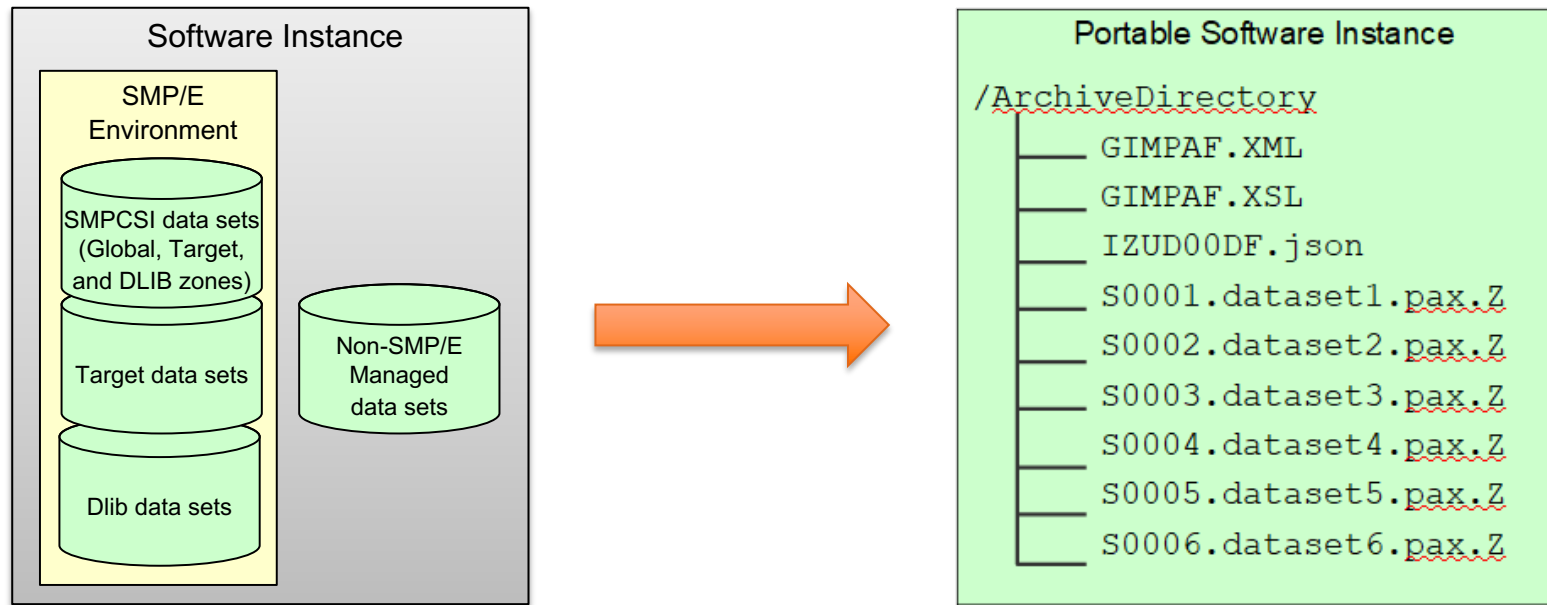
- Describes a deployable unit of installed software.
- Is a collection of data sets containing installed software
 - Sequential, PDS(E), VSAM, zFS, HFS.
- May include SMP/E managed target and distribution libraries, as well as the global, target, and distribution zone SMPCSI data sets.

What is a Software Instance?



What is a Portable Software Instance?

What is a Portable Software Instance?



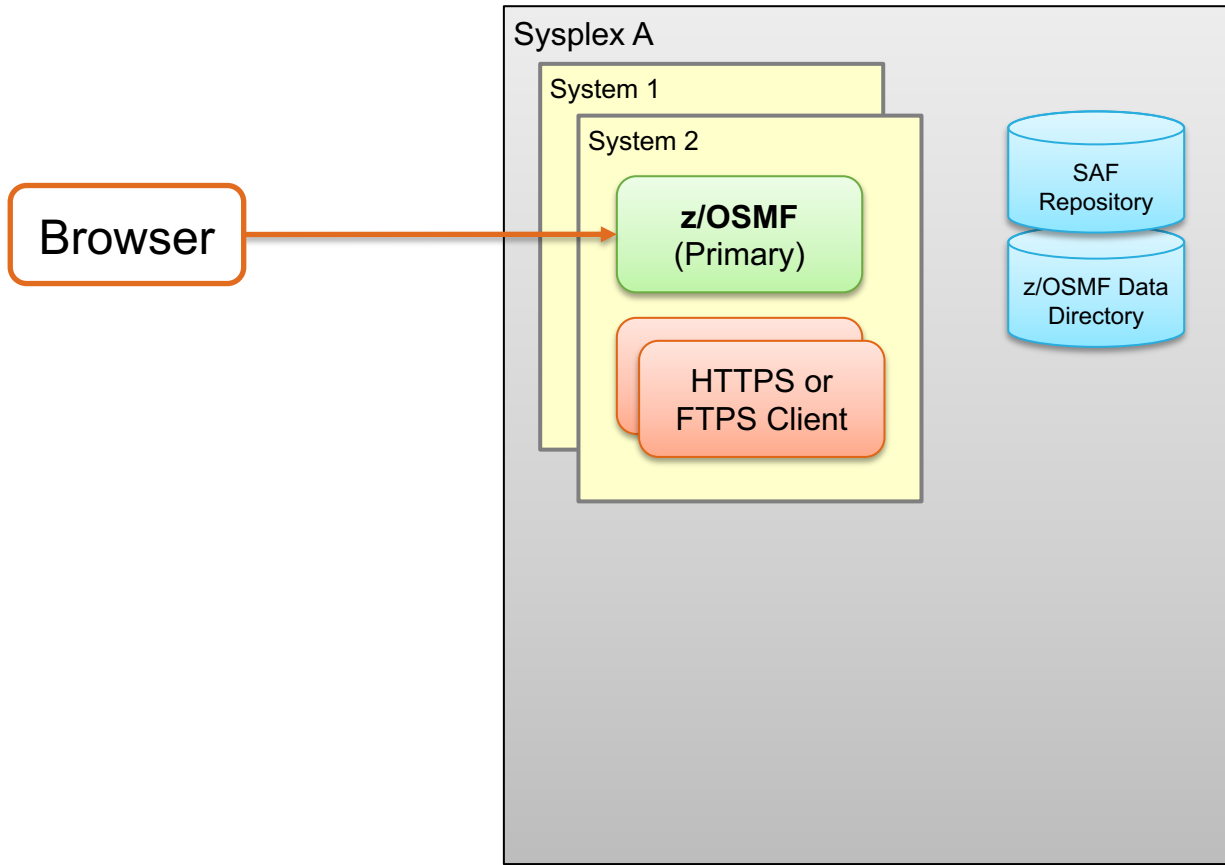
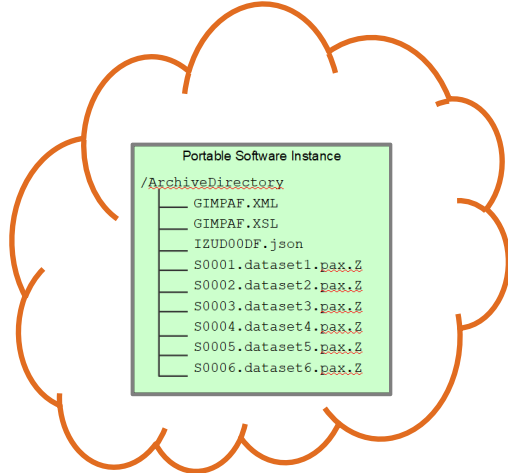
- A Portable Software Instance is a set of archive files that represent the native z/OS data sets for a software instance.
 - Native data sets are not very portable or easily distributed as is.
- The Software Management Export action creates:
 - Portable Software Instance descriptor file (IZUD00DF.json) containing meta-data to describe all of the data sets.
 - A package of GIMZIP archive files from the native software instance data sets.
- SMP/E GIMZIP packages are familiar and portable.

What is a Portable Software Instance?

- Creating a portable form of a software instance enables a provider to easily deliver a complete software instance.
- You can acquire a portable software instance from a provider in at least two ways:
 - **Download** from a server **direct** to z/OS
 - **Store** on workstation **and forward** to z/OS

Acquiring a Portable Software Instance: Download direct to z/OS

Download Server



Acquiring a Portable Software Instance: Download direct to z/OS ...

Select the action to **Add** a new Portable Software Instance from a **download server**.

The screenshot shows the 'Software Management' application window. The main content area is titled 'Portable Software Instances' and contains a table with columns for 'Description Filter', 'Activity Filter', 'System Filter', and 'File Location Filter'. A context menu is open over the table, with the 'Add...' option selected. A sub-menu is visible, showing three options: 'From z/OSMF System', 'From Local Workstation', and 'From Download Server'. A red arrow points to the 'From Download Server' option.

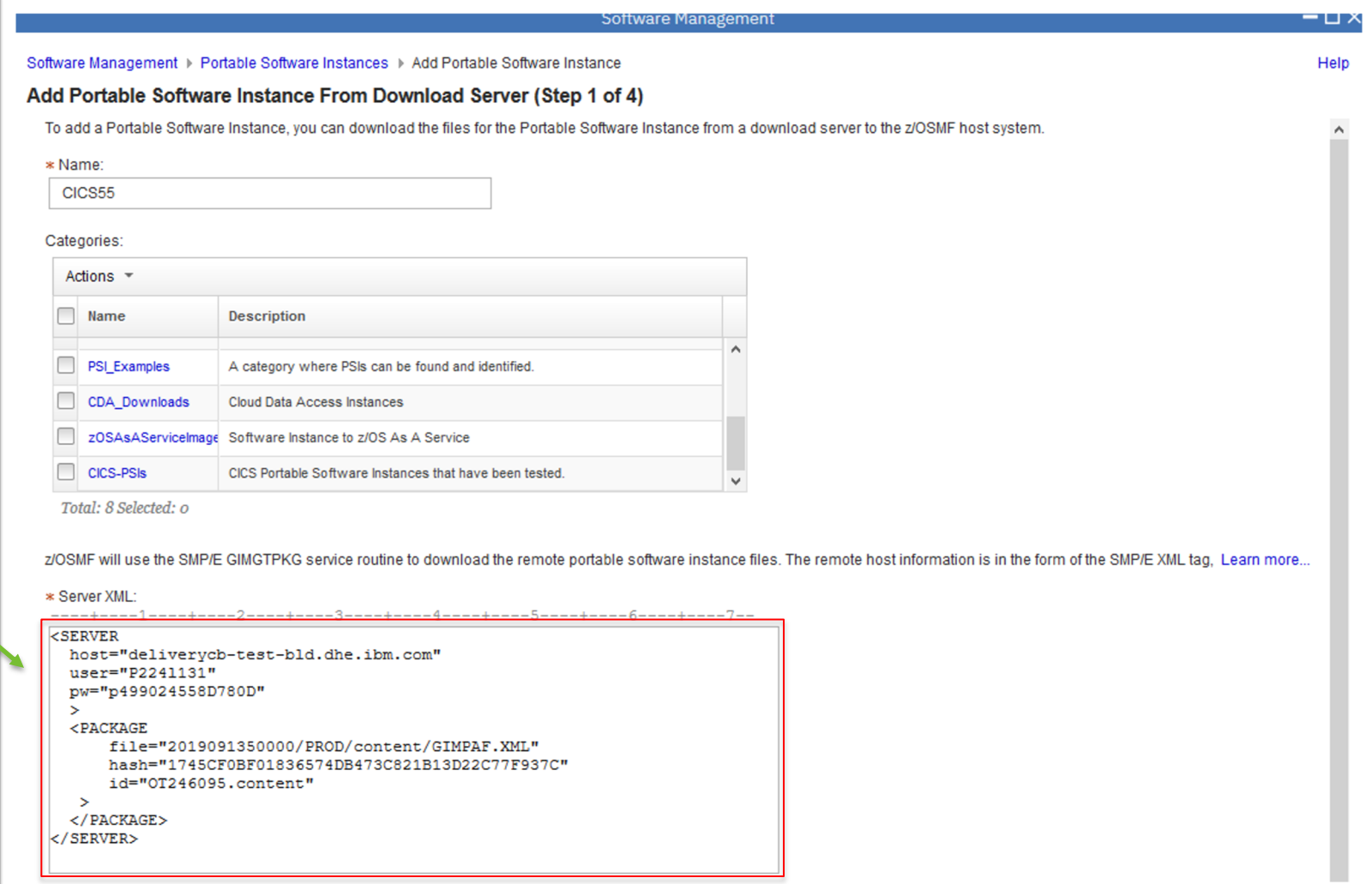
Description Filter	Activity Filter	System Filter	File Location Filter	Cat Filter
ServerPac/CICS: OT246095, d on 2020-09-16		AQFT	/u/kurtq/serverpac/CICS-2019-09-16	
GA on Dec 6, 2019, ceived by MARNA. CICS: OS240354		AQFT	/u/kurtq/KurtCICSPSIGaDec62019	

Acquiring a Portable Software Instance: Download direct to z/OS ...

Specify the information to download the files from the provider's server.

- In the form of <SERVER> XML.

z/OSMF uses SMP/E's GIMGTPKG program to download the PSWI files to your z/OS.



Software Management

Software Management > Portable Software Instances > Add Portable Software Instance

Add Portable Software Instance From Download Server (Step 1 of 4)

To add a Portable Software Instance, you can download the files for the Portable Software Instance from a download server to the z/OSMF host system.

* Name:
CICS55

Categories:

<input type="checkbox"/>	Name	Description
<input type="checkbox"/>	PSI_Examples	A category where PSIs can be found and identified.
<input type="checkbox"/>	CDA_Downloads	Cloud Data Access Instances
<input type="checkbox"/>	zOSAsAServiceImage	Software Instance to z/OS As A Service
<input type="checkbox"/>	CICS-PSIs	CICS Portable Software Instances that have been tested.

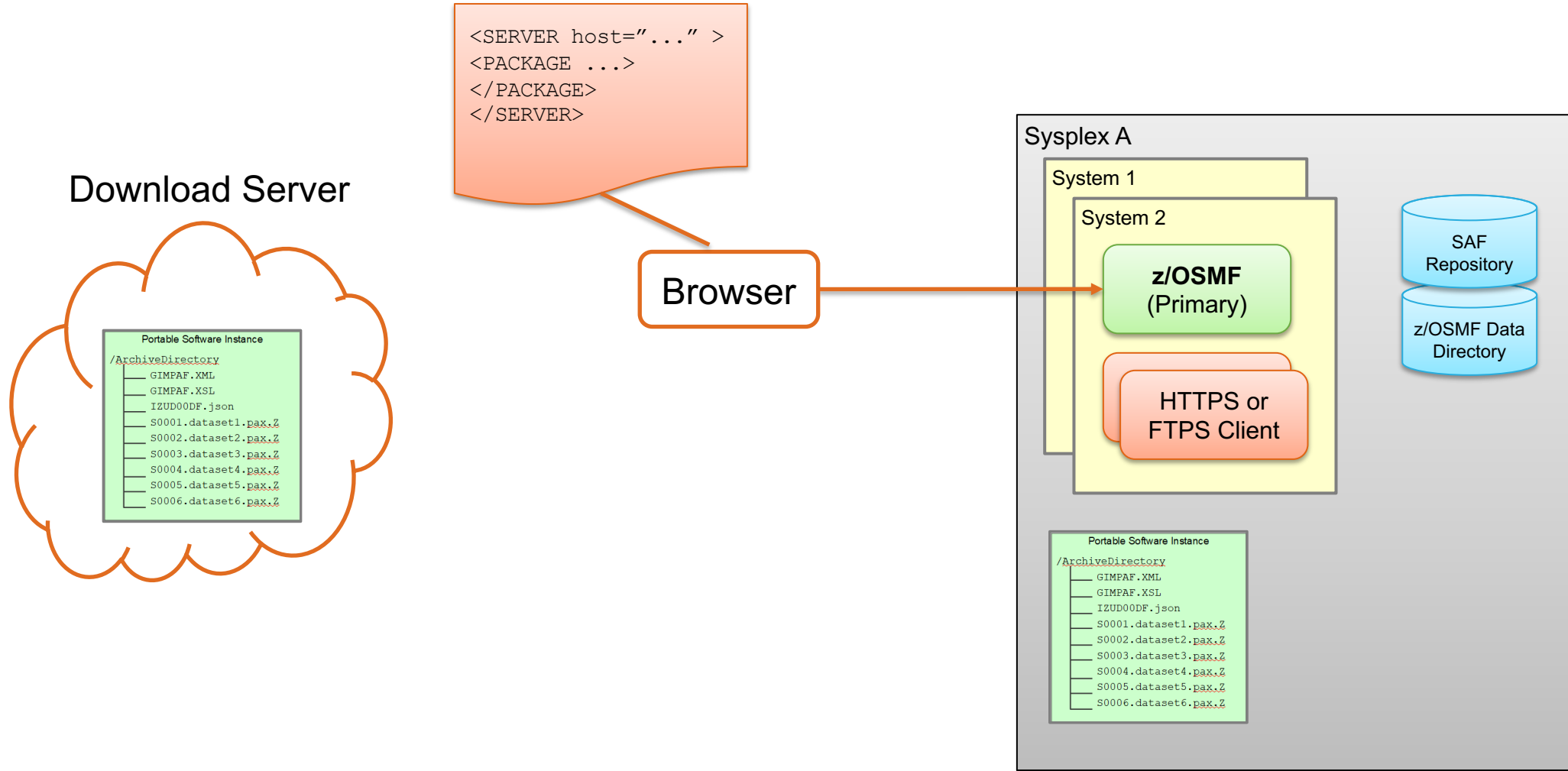
Total: 8 Selected: 0

z/OSMF will use the SMP/E GIMGTPKG service routine to download the remote portable software instance files. The remote host information is in the form of the SMP/E XML tag, [Learn more...](#)

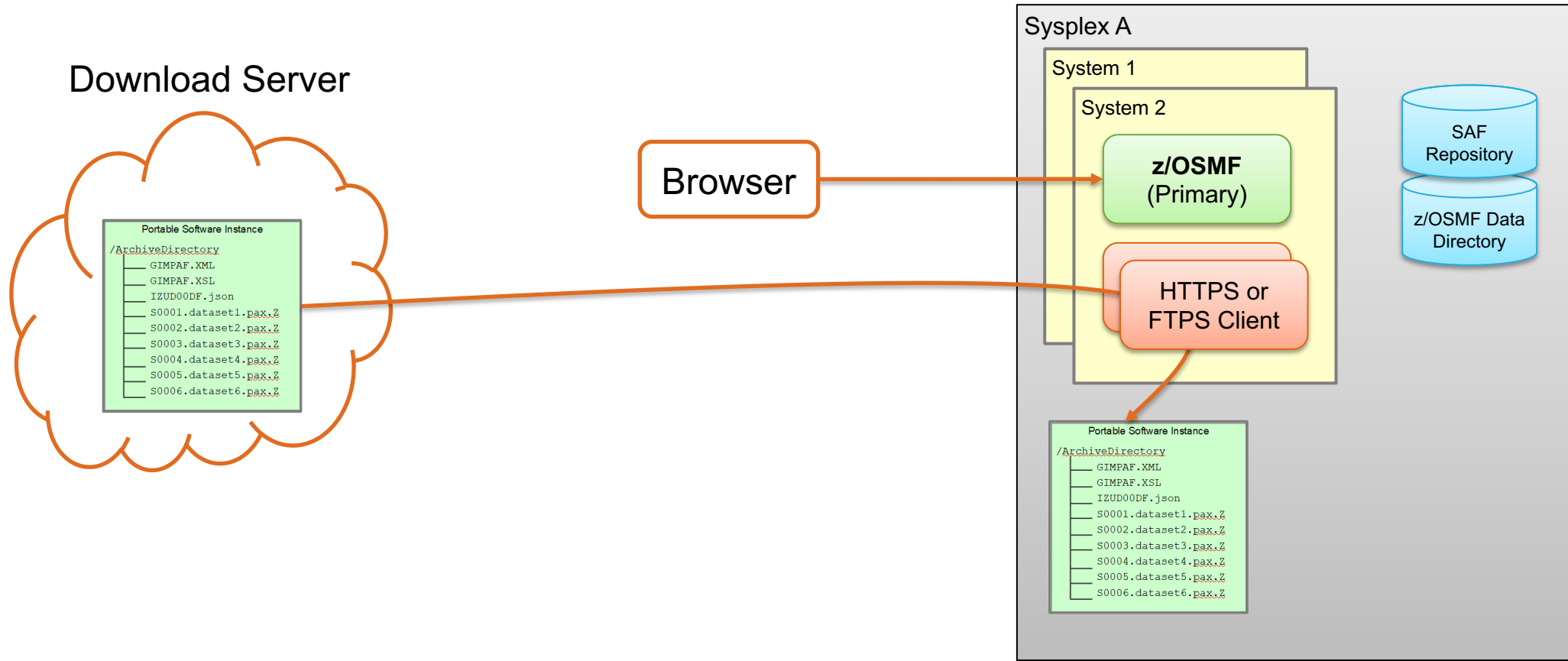
* Server XML:

```
<SERVER
  host="deliverycb-test-bld.dhe.ibm.com"
  user="P2241131"
  pw="p499024558D780D"
  >
  <PACKAGE
    file="2019091350000/PROD/content/GIMPAF.XML"
    hash="1745CF0BF01836574DB473C821B13D22C77F937C"
    id="OT246095.content"
  >
  </PACKAGE>
</SERVER>
```

Acquiring a Portable Software Instance: Download direct to z/OS...

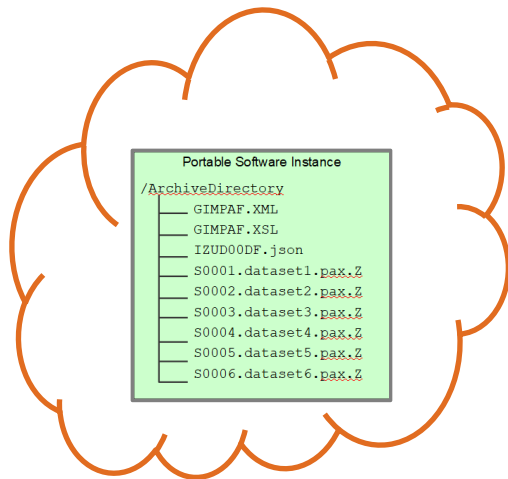


Acquiring a Portable Software Instance: Download direct to z/OS...



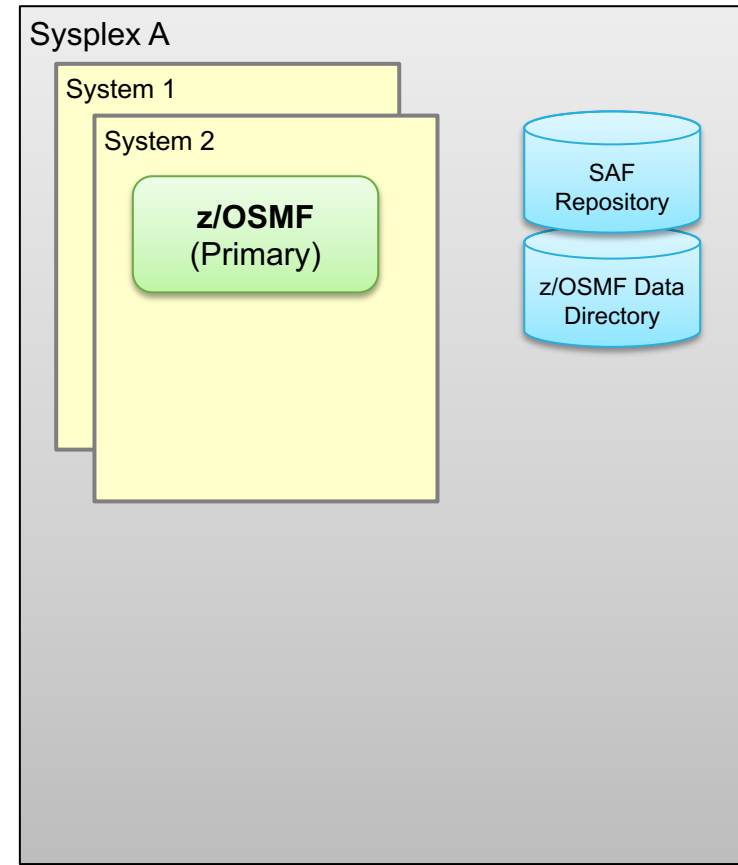
Acquiring a Portable Software Instance: Store and Forward to z/OS

Download Server

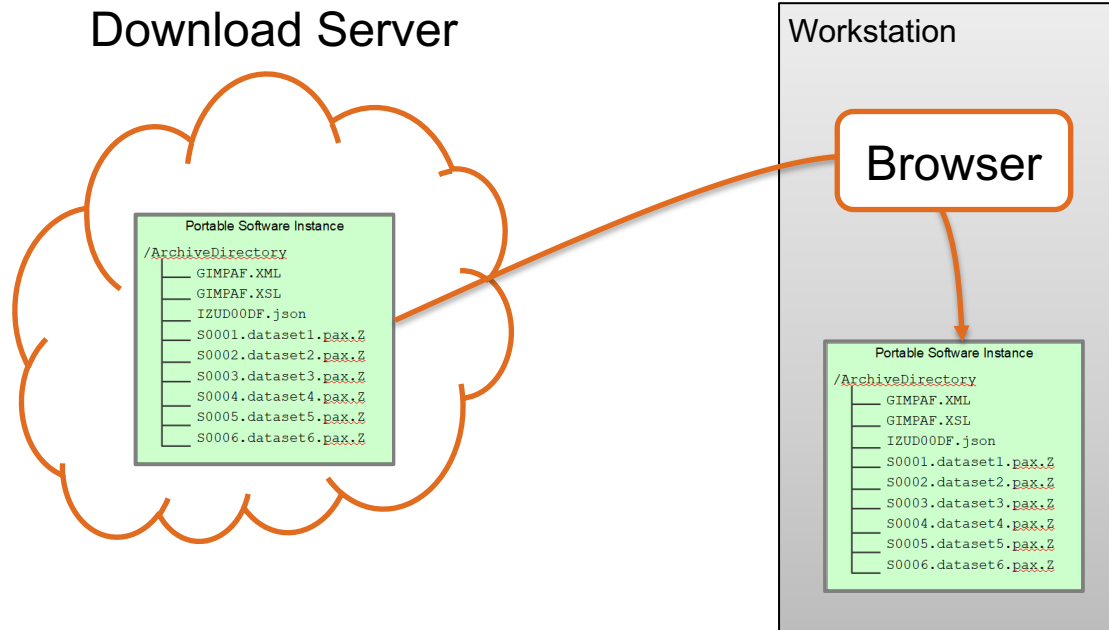


Workstation

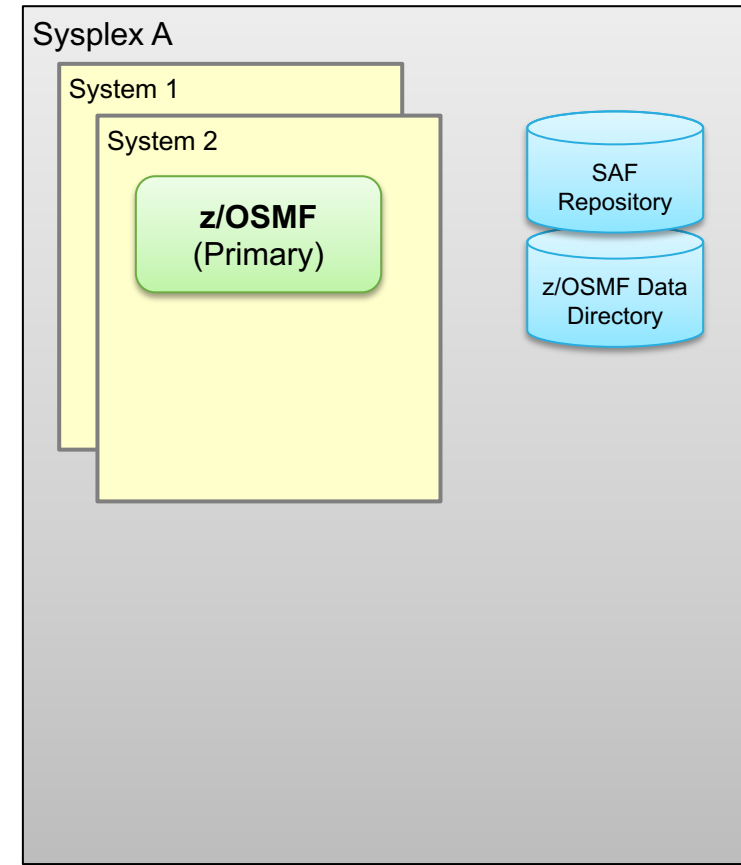
Browser



Acquiring a Portable Software Instance: Store and Forward to z/OS ...



Download the PSWI files from the provider's server to your **workstation**.



Acquiring a Portable Software Instance: Store and Forward to z/OS ...

Select the action to
Add a new Portable
Software Instance from
your **workstation**.

The screenshot shows the 'Software Management' console interface. The main heading is 'Portable Software Instances'. A table lists existing instances with columns for Description, Activity, System, File Location, and Category. A context menu is open over the table, with the 'Add...' option selected, which has opened a sub-menu. In this sub-menu, the 'From Local Workstation' option is highlighted, and a red arrow points to it from the left.

Description Filter	Activity Filter	System Filter	File Location Filter	Category Filter
ServerPac/CICS: OT246095, d on 2020-09-16		AQFT	/u/kurtq/serverpac/CICS-2019-09-16	
GA on Dec 6, 2019, received by MARNA. CICS: OS240354		AQFT	/u/kurtq/KurtCICSPSIGaDec62019	

- Modify
- View
- Open Deployments
- Complete Add
- Remove...
- Add...**
 - From z/OSMF System
 - From Local Workstation**
 - From Download Server
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Sorts
- Export Table Data
- Print Table Data

Acquiring a Portable Software Instance: Store and Forward to z/OS ...

The Browse button allows you to select the files on your workstation.

z/OSMF then uploads those files to your z/OS.

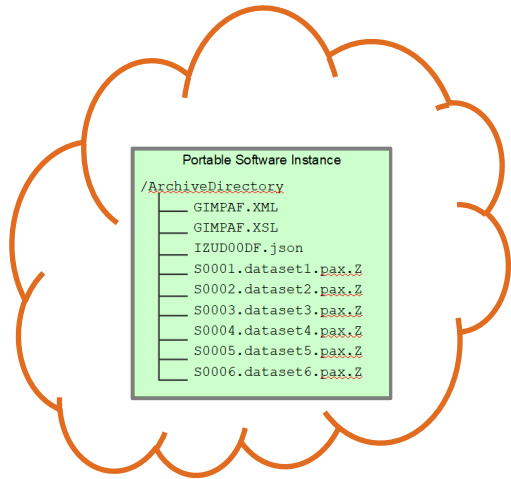
The screenshot shows the 'Software Management' console window. The main area displays the 'Add Portable Software Instance From Local Workstation' dialog. It includes a 'Browse' button with a red arrow pointing to it, and an 'Upload' button. The file location is set to `/u/kurtq/KurtCICSPSIGaDec62019`. A 'File Upload' dialog is open over the console, showing a list of files in the `cicsServerPac` directory. The file list includes:

Name	Date modified	Type	Size
GIMPAF.XML	2/7/2020 5:14 PM	XML File	204 KB
GIMPAF.XSL	2/7/2020 5:14 PM	XSL Stylesheet	5 KB
IZUD00DF.json	2/7/2020 5:14 PM	JSON File	176 KB
S0002.KURTO.CICSGA.CBK.ACBKDWLD.p...	2/7/2020 5:14 PM	Z File	21,042 KB
S0003.KURTO.CICSGA.CBK.ACBKEXEC.pa...	2/7/2020 5:14 PM	Z File	189 KB
S0004.KURTO.CICSGA.CBK.ACBKINST.pax...	2/7/2020 5:14 PM	Z File	32 KB
S0005.KURTO.CICSGA.CBK.ACBKMENUP...	2/7/2020 5:14 PM	Z File	32 KB
S0006.KURTO.CICSGA.CBK.ACBKMJPN.p...	2/7/2020 5:14 PM	Z File	32 KB
S0007.KURTO.CICSGA.CBK.ACBKMOD.pa...	2/7/2020 5:14 PM	Z File	378 KB
S0008.KURTO.CICSGA.CBK.ACBKPENU.pa...	2/7/2020 5:14 PM	Z File	158 KB
S0009.KURTO.CICSGA.CBK.ACBKPJPN.pa...	2/7/2020 5:14 PM	Z File	158 KB
S0010.KURTO.CICSGA.CBK.ACBKSAMP.p...	2/7/2020 5:14 PM	Z File	95 KB
S0011.KURTO.CICSGA.CBK.ACBKTENU.pa...	2/7/2020 5:14 PM	Z File	32 KB
S0012.KURTO.CICSGA.CBK.ACBKTJPN.pa...	2/7/2020 5:14 PM	Z File	32 KB
S0013.KURTO.CICSGA.CBK.SCBKDWLD.p...	2/7/2020 5:14 PM	Z File	21,042 KB
S0014.KURTO.CICSGA.CBK.SCBKEXEC.pa...	2/7/2020 5:14 PM	Z File	189 KB

The 'File Upload' dialog also shows the file name `"S0369.KURTO.CICSGA.OMVS.CICSTS.CICSTS54.pax.Z" "GIMPAF.XML"` and the file type `All Files (*.*)`.

Acquiring a Portable Software Instance: Store and Forward to z/OS ...

Download Server



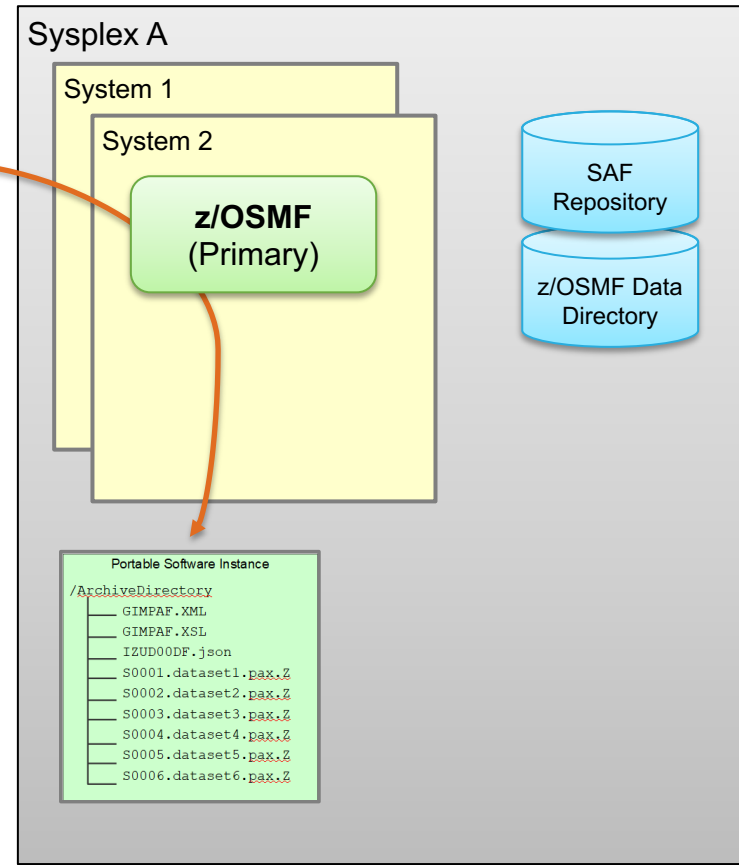
z/OSMF uploads
the files to your
z/OS.

Workstation

Browser

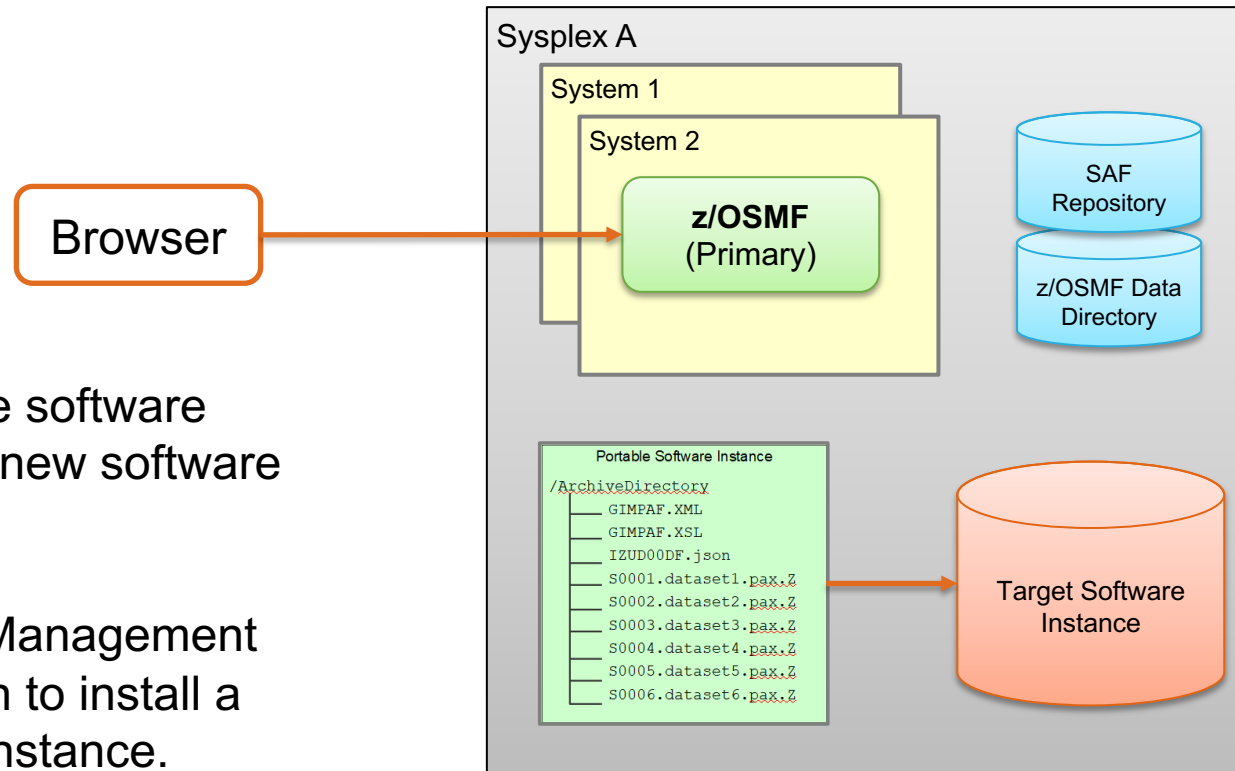
Portable Software Instance

```
/ArchiveDirectory  
├── GIMPAF.XML  
├── GIMPAF.XSL  
├── IZUD00DF.json  
├── S0001.dataset1.pax.Z  
├── S0002.dataset2.pax.Z  
├── S0003.dataset3.pax.Z  
├── S0004.dataset4.pax.Z  
├── S0005.dataset5.pax.Z  
└── S0006.dataset6.pax.Z
```



Install a Portable Software Instance

Install a Portable Software Instance Overview



Installing a portable software instance creates a new software instance.

Use the Software Management **Deployment** action to install a portable software instance.

Install a Portable Software Instance Overview...

Create a new Deployment operation.

Deployment steps:

1. Select the **source** Portable Software Instance.
2. Select the **deployment objective**.
3. For SMP/E managed software, **check for missing requisites** and possible **regressions**.
4. Create a **Configuration** to describe where the source will be installed.
5. Validate the configuration and **Generate Deployment Jobs**.
6. **Execute generated jobs** to install the source and create the Target Software Instance.
7. Execute **workflows** to perform setup and configuration tasks for the installed software.

The screenshot shows a dialog box titled "Deployment Checklist" with a breadcrumb path: "Software Management > Deployments > Deployment Checklist". Below the title is the instruction: "To deploy software, complete the checklist." The main content is a table with two columns: "Progress" and "Step". The first row shows a progress indicator (a circle with a right-pointing arrow) and the step "Specify the properties for this deployment." The subsequent rows list steps: "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. • View the deployment summary.", "Submit deployment jobs.", and "Specify the properties for the target software instance." At the bottom of the dialog is a "Close" button.

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...

Select the source

Select the portable software instance that you want to install.

Remember, you added the portable software instance earlier.

Software Management

Software Management > Deployments > Deployment Checklist > Select Software

Select Software

Select the type of software to deploy:

Software Instance Portable Software Instance

Portable Software Instances

Actions ▾

↔ 2 of 15 items shown. [Clear filter](#)

	Name Filter ▲	Description Filter	Activity Filter	System Filter	File Location Filter
<input type="radio"/>	CICS-ServerPac-GA-Dec62019	CICS PSI at GA on Dec 6, 2019, originally received by MARNA. ServerPac/CICS: OS240354		AQFT	/u/kurtq/KurtCICSPSIGaDec62019
<input checked="" type="radio"/>	CICS-ServerPac-OT246095	ServerPac/CICS: OT246095, downloaded on 2020-09-16		AQFT	/u/kurtq/serverpac/CICS-2019-09-16

Install a Portable Software Instance...

Select the Deployment objective

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

Software Management

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...

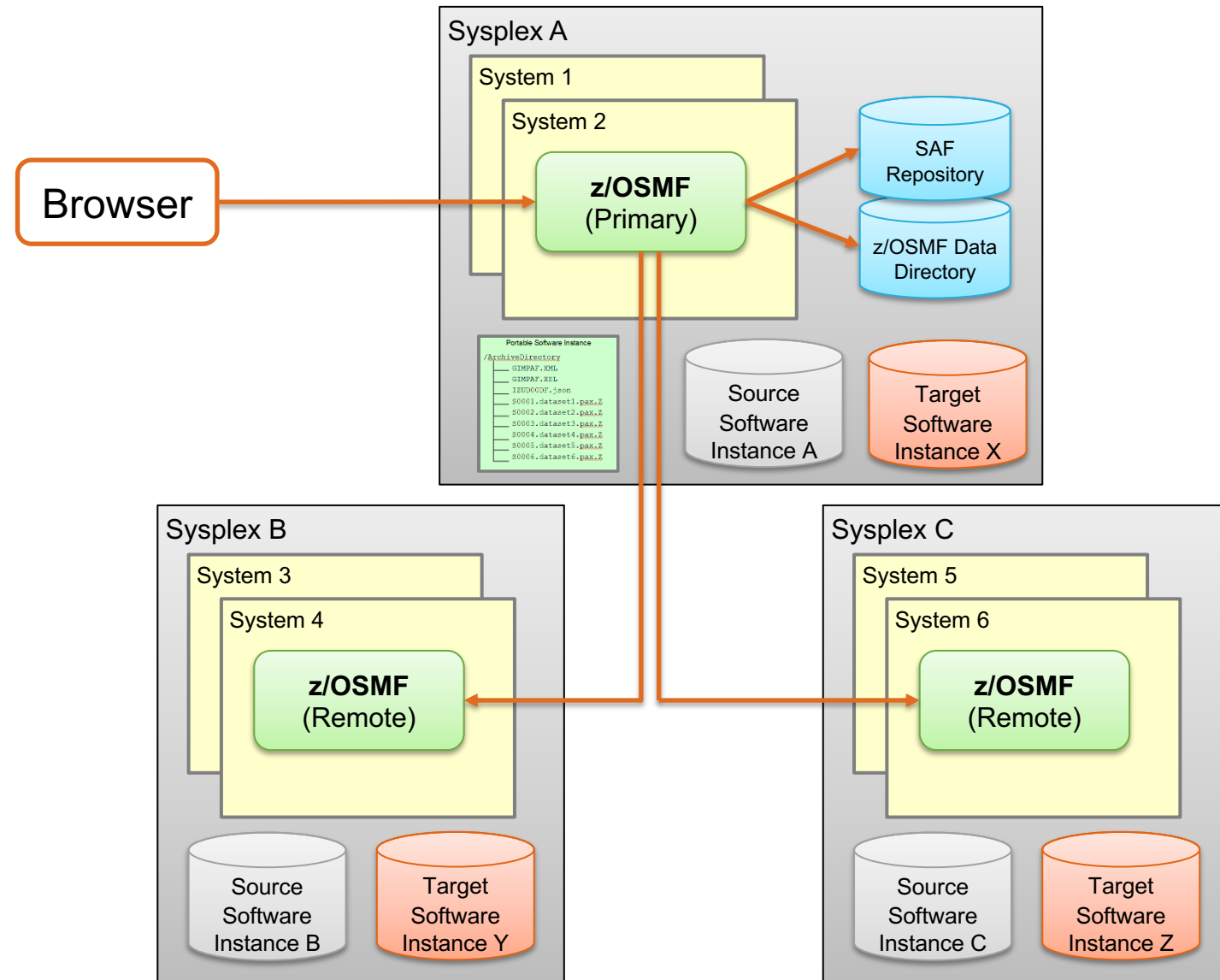
Select the Deployment objective...

- Which sysplex do you want to deploy to?
 - Eligible sysplexes have z/OSMF servers.
- Which global zone do you want to use for the new software instance?
 - Create a new global zone, or
 - Connect to an existing global zone.
- Create a new software instance or replace an existing software instance?
 - If creating new, the source will be copied.
 - If replacing, an existing software instance will be deleted and the source will be copied.

z/OSMF Software Management Topology

The **primary** z/OSMF server communicates with the **remote** z/OSMF servers.

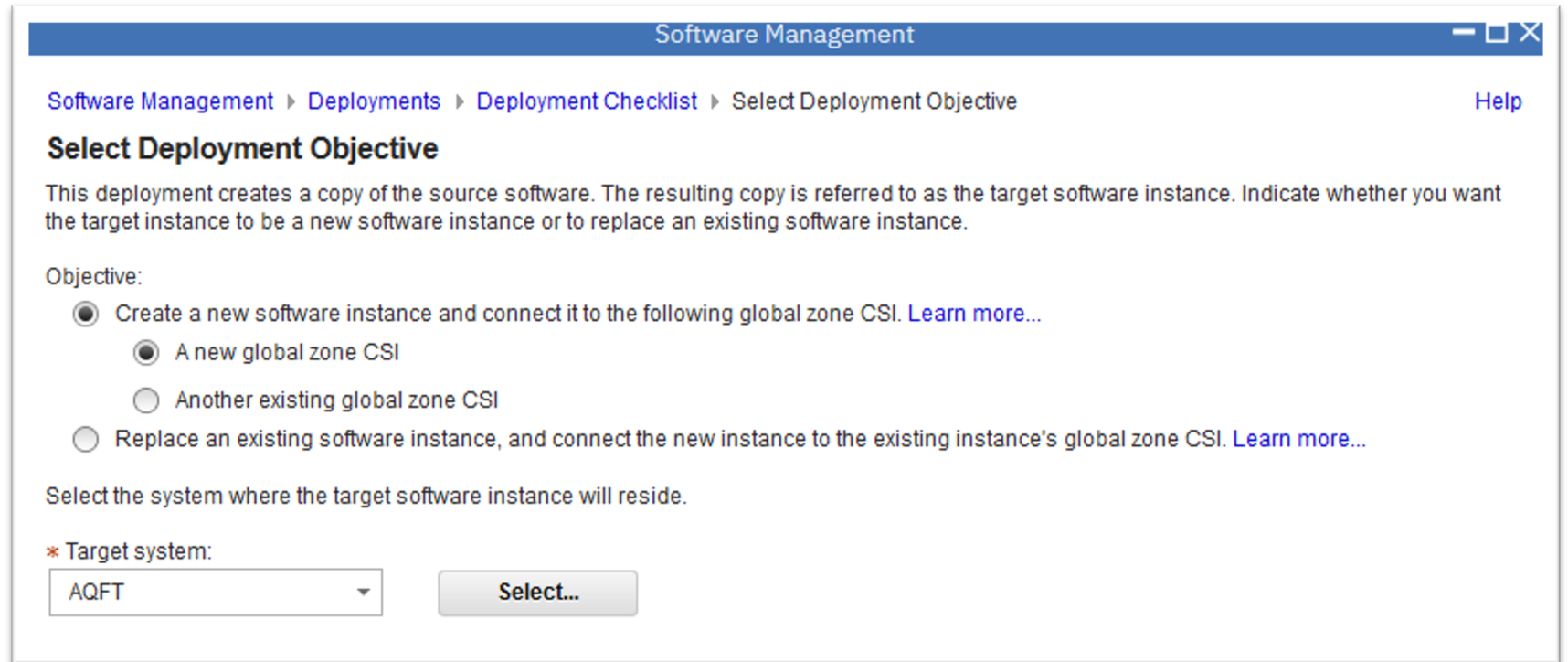
Any z/OSMF host system can be a source or target or both for a deployment.



Install a Portable Software Instance...

Select the Deployment objective

In this example we will create a new software instance with a new global zone.



Software Management

Software Management > Deployments > Deployment Checklist > Select Deployment Objective [Help](#)

Select Deployment Objective

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.

Objective:

- Create a new software instance and connect it to the following global zone CSI. [Learn more...](#)
 - A new global zone CSI
 - Another existing global zone CSI
- Replace an existing software instance, and connect the new instance to the existing instance's global zone CSI. [Learn more...](#)

Select the system where the target software instance will reside.

* Target system:

AQFT

Install a Portable Software Instance...

Check for missing SYSMODs

The Check for missing SYSMODs step is available when deploying SMP/E managed software.

Software Management

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...

Check for missing SYSMODs...

Select which checking to perform.

The screenshot shows a web-based wizard titled 'Check for Missing SYSMODs' within the 'Software Management' application. The breadcrumb trail is 'Software Management > Deployments > Deployment Checklist > Check for Missing SYSMODs'. A left-hand navigation pane shows the following steps: 'Welcome' (checked), 'Select Reports' (active), 'Define Data Set Settings', 'Get HOLDDATA', and 'Summary'. The main content area is titled 'Select the Reports to Generate' and includes the instruction: 'Select the reports that you want this wizard to generate.' There are three checked options:

- Requisite SYSMODs and Fix Categories reports.**

The Requisite SYSMODs report will identify potential software compatibility issues (missing SYSMODs) for software instances that will share resources with, will be migrated to, or will satisfy the dependencies of the target software instance.
[Learn more...](#)

The fix categories report will identify missing SYSMODs for the software instance types and fix category combinations listed in the table below.
[Learn more...](#)

Fix Categories Checked by Software Instance Type

Software Instance Type	Fix Categories to be Checked
Source	<ul style="list-style-type: none">• IBM.Device.*• IBM.Function.*• IBM.TargetSystem-RequiredService.*
Shared Resources	<ul style="list-style-type: none">• IBM.Coexistence.*• IBM.Migrate-Fallback.*
Satisfies Dependencies	<ul style="list-style-type: none">• IBM.TargetSystem-RequiredService.*
- Regressed SYSMODs and HOLDDATA Delta reports.**

The Regressed SYSMODs report will identify the SYSMODs that will be lost, undone, or regressed when you migrate to the target software instance.
[Learn more...](#)

The HOLDDATA Delta report will identify the USER and SYSTEM HOLD delta.
[Learn more...](#)

Install a Portable Software Instance...

Check for missing SYSMODs...

- Check for missing prerequisites:
 - Software Management will identify **missing requisite SYSMODs** to ensure the deployed software can safely run in the target environment.
- Check for regressions:
 - When a prior level software instance will be logically or physically replaced by the target software instance:
 - Identify **SYSMODs** that will be **regressed**.
 - Compare the prior level instance with the source.
 - SYSMODs in the prior level instance that are not in the source will be regressed.
 - Identify **HOLDDATA** that needs review.
 - Compare the source with the prior level instance.
 - SYSTEM and USER Holds for SYSMODs in the source that are not in the prior level instance need review.

Install a Portable Software Instance...

Configure

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 points

Software Management

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... Configure...

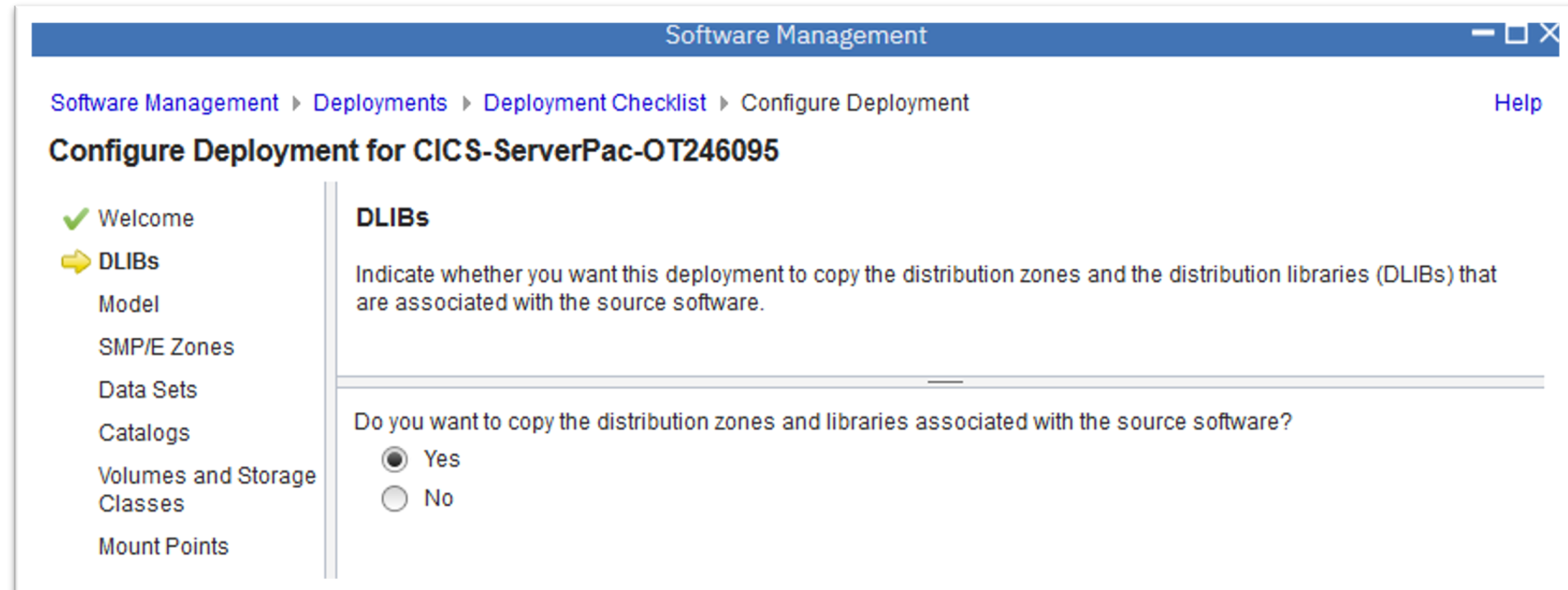
The screenshot shows a web-based interface for software management. The title bar reads 'Software Management'. The breadcrumb navigation is 'Software Management > Deployments > Deployment Checklist > Configure Deployment'. A 'Help' link is visible in the top right. The main heading is 'Configure Deployment for CICS-ServerPac-OT246095'. On the left, a navigation menu lists: Welcome (selected with a yellow arrow), DLIBs, Model, SMP/E Zones, Data Sets, Catalogs, Volumes and Storage Classes, and Mount Points. The main content area is titled 'Welcome' and contains the following text: 'Use this wizard to configure the data set names, catalogs, volumes, mount points, and SMP/E zones to be used for the target software instance.' Below this, a section titled 'This wizard guides you through the following steps:' lists seven numbered steps: 1. Indicate whether this deployment should copy the distribution zones and distribution libraries (DLIBs) that are associated with the source software. 2. Select the software to use as a model for configuring the target software instance. 3. Specify the SMP/E zone names to use. 4. Specify the data set names to use, and assign the data sets to a volume or storage class. 5. Assign each data set prefix to a catalog. 6. Ensure that the volumes and storage classes have enough space to store the target software instance. 7. Specify the mount point to use for each UNIX file system data set that will be included in the target software instance.

Install a Portable Software Instance...

Configure – Deploy distribution libraries?

Deploy distribution zones and libraries?

- If included, a complete SMP/E environment capable of APPLY operations will be created, with a full global zone and SMPPTS.
- If not included, only a minimal global zone will be created and no SMPPTS.



Software Management

Software Management > Deployments > Deployment Checklist > Configure Deployment [Help](#)

Configure Deployment for CICS-ServerPac-OT246095

- ✓ Welcome
- ➔ **DLIBs**
- Model
- SMP/E Zones
- Data Sets
- Catalogs
- Volumes and Storage Classes
- Mount Points

DLIBs

Indicate whether you want this deployment to copy the distribution zones and the distribution libraries (DLIBs) that are associated with the source software.

Do you want to copy the distribution zones and libraries associated with the source software?

Yes

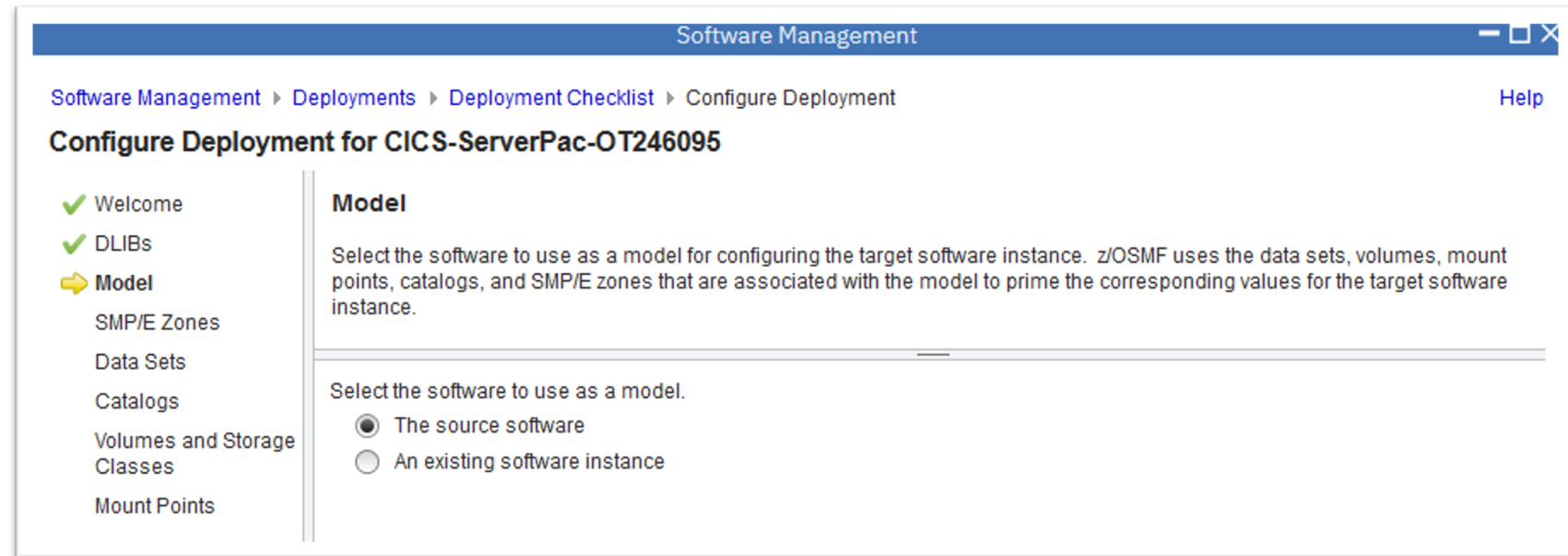
No

Install a Portable Software Instance...

Configure – Model

Choose how to prime the initial configuration.

- If you have an existing SWI that has close to your desired data set names and volumes or storage classes, then choose it.
 - You will have less changes to make in the Configuration step.
- Otherwise use the source data set names and volumes/storage classes to initialize the configuration.



Install a Portable Software Instance... Configure – Zones

Specify the desired zone names.

If using an existing global zone, the zone names will be verified unique in that global.

Software Management

Software Management > Deployments > Deployment Checklist > Configure Deployment [Help](#)

Configure Deployment for CICS-ServerPac-OT246095

- ✓ Welcome
- ✓ DLIBs
- ✓ Model
- ➔ SMP/E Zones
- Data Sets
- Catalogs
- Volumes and Storage Classes
- Mount Points

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
<input type="text" value="CICST54"/>	<input type="text" value="CICSD54"/>		<input type="text" value="CICT500"/>	<input type="text" value="CICT500"/>

Install a Portable Software Instance... Configure – Data Sets

- For all data sets in the source software instance:
 - Target and distribution libraries
 - UNIX file system data sets
 - Non-SMP/E managed data sets
 - SMPCSI and related data sets
- Specify data set names.
- Specify data set locations: volume or storage class.

The screenshot shows the 'Configure Deployment for CICS-ServerPac-OT246095' interface. The breadcrumb trail is 'Software Management > Deployments > Deployment Checklist > Configure Deployment'. The left sidebar shows a navigation menu with 'Data Sets' selected. The main content area is titled 'Data Sets' and includes a description: '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.' Below this is a table with the following columns: Target Data Set Name, Target Volume, Target Storage Class, Tracks, Data Set Category, Data Set Type, Messages, and Source Data Set Name. The table contains 14 rows of data, each with a checkbox in the first column.

<input type="checkbox"/>	Target Data Set Name Filter	Target Volume Filter	Target Storage Class Filter	Tracks Filter	Data Set Category Filter	Data Set Type Filter	Messages Filter	Source Data Set Name Filter
<input type="checkbox"/>	KURTQ.CICSDEMO.CQT.ACQTSAMP	VSMPOV		18	Dlib	PDS		CT.OT246095.CQT.ACQT
<input type="checkbox"/>	KURTQ.CICSDEMO.CQT.SCQTINST	VSMPOV		7	Target	PDS		CT.OT246095.CQT.SCQT
<input type="checkbox"/>	KURTQ.CICSDEMO.CQT.SCQTLLOAD	VSMPOV		18	Target	PDS		CT.OT246095.CQT.SCQT
<input type="checkbox"/>	KURTQ.CICSDEMO.CQT.SCQTLPA	VSMPOV		4	Target	PDS		CT.OT246095.CQT.SCQT
<input type="checkbox"/>	KURTQ.CICSDEMO.CQT.SCQTMAC	VSMPOV		9	Target	PDS		CT.OT246095.CQT.SCQT
<input type="checkbox"/>	KURTQ.CICSDEMO.CQT.SCQTRPL	VSMPOV		20	Target	PDS		CT.OT246095.CQT.SCQT
<input type="checkbox"/>	KURTQ.CICSDEMO.CQT.SCQTSAMP	VSMPOV		18	Target	PDS		CT.OT246095.CQT.SCQT
<input type="checkbox"/>	KURTQ.CICSDEMO.SCPPLOAD	VSMPOV		1402		PDS		CT.OT246095.SCPPLOA
<input type="checkbox"/>	KURTQ.CICSDEMO.SMPE.CICT500.SMPMITS	VSMPOV		1	Dlib, Target, SMP/E	PDS		CT.OT246095.SMPE.CICT
<input type="checkbox"/>	KURTQ.CICSDEMO.SMPE.CICT500.SMPSCDS	VSMPOV		2	Dlib, Target, SMP/E	PDS		CT.OT246095.SMPE.CICT
<input type="checkbox"/>	KURTQ.CICSDEMO.SMPE.CICT500.SMPSTS	VSMPOV		1	Dlib, Target,	PDS		CT.OT246095.SMPE.CICT

Install a Portable Software Instance...

Configure – Catalogs

By data set prefix, how do you want data sets cataloged?

- **Default Catalog:** The active target system catalog is queried to determine the default.
- **Other Catalog:** For a new data set prefix only (new catalog alias)
 - Relate to an existing user catalog, or
 - Relate to and define a new user catalog.
- **Uncataloged:** If not required based on data set attributes (not VSAM or SMS-managed).

Software Management

Software Management > Deployments > Deployment Checklist > Configure Deployment Help

Configure Deployment for CICS-ServerPac-OT246095

- ✓ Welcome
- ✓ DLIBs
- ✓ Model
- ✓ SMP/E Zones
- ✓ Data Sets
- ➔ **Catalogs**
- Volumes and Storage Classes
- Mount Points

Catalogs

The Target Data Set Name Prefixes table lists the catalogs where target data sets with the data set name prefixes will be cataloged. You can accept the default catalog assignments, select different catalogs, or select not to catalog the corresponding data sets.

Target Data Set Name Prefixes

Actions ▾

➔ No filter applied

<input type="checkbox"/>	Prefix Filter	▲	New or Existing Filter	Catalog the Data Sets? Filter	Catalog Name Filter	Catalog Type Filter	Messages Filter
<input type="checkbox"/>	KURTQ		Existing	Yes (Required)	ICFCAT.UCAT01	USER	

Install a Portable Software Instance... Configure – Volumes

For each volume specified as a data set location:

- Display volume capacity, current allocated space, and planned allocated space.
- Ensure each volume has enough free space for the data sets.
- Initialize the volume?
- Indirectly catalog data sets on the volume?

Software Management

Software Management > Deployments > Deployment Checklist > Configure Deployment

Configure Deployment for CICS-ServerPac-OT246095

- ✓ Welcome
- ✓ DLIBs
- ✓ Model
- ✓ SMP/E Zones
- ✓ Data Sets
- ✓ Catalogs
- ➔ **Volumes and Storage Classes**
- Mount Points

Volumes and Storage Classes

The Target Volumes and Target Storage Classes tables list the volumes or storage classes where each target data set or new user catalog will reside. Accept the default volumes and storage classes, or use the **Modify** action to modify them.

Target Volumes

Actions ▾

↔ No filter applied

Volume Filter	Total Capacity (MB) Filter	Current Allocated Space (MB) Filter	Current Allocated Space (%) Filter	Messages Filter	Allocated Space After Deploye (MB) Filter	Allocated Space After Deploye (%) Filter	Allocated Space Delta (MB) Filter	Planned Threshold (%) Filter	Initialize Volume Filter	Catalog Method Filter	Indirect Catalog Entry Symbol Filter
<input type="radio"/> VSMPD1	27844.69	16276.34	58		20139.29	72	3862.95	85	No	Direct	

Install a Portable Software Instance...

Configure – Volumes, Modify

Use the Volume -> Modify action to indicate:

- Initialize the volume before installing data sets.
- Indirectly catalog data sets on the volume.
 - If yes, specify the symbol to use when cataloging data sets on the volume.


Software Management

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


Modify Volume VSMPD1

* Volume:
VSMPD1

Total capacity (MB):
27844.69

Initialize volume: 

Yes
 No

Catalog method:
 Direct * Indirect catalog entry symbol: 
 Indirect &SYSR1

* Planned threshold (%):
85

Allocated Space

State	Allocated Space (MB)	Allocated Space (%)
Before deployment	16276.34	58
After deployment	20139.29	72

Allocated space delta (MB):
3862.95

Install a Portable Software Instance...

Configure – UNIX file system mount points

For each UNIX file system data set:

- Specify the mountpoint to use for the data set on the target system.
- Target mountpoint will be used to update directory names in DDDEF entries.

Software Management

Software Management > Deployments > Deployment Checklist > Configure Deployment Help

Configure Deployment for CICS-ServerPac-OT246095

- ✓ Welcome
- ✓ DLIBs
- ✓ Model
- ✓ SMP/E Zones
- ✓ Data Sets
- ✓ Catalogs
- ✓ Volumes and Storage Classes
- ➔ **Mount Points**

Mount Points

The Mount Points table lists the mount points that will be used for the UNIX file system data sets included in the target software instance. Accept the default mount points, or use the **Modify Target Mount Point** action to modify them.

Mount Points

Actions ▾

↔ No filter applied

<input type="checkbox"/>	Target mount point Filter	Target Data Set Name Filter	Source mount point Filter	Source Data Set Name Filter
<input type="checkbox"/>	/u/kurtq/cics55/usr/lpp/cicsts/cicsts55	KURTQ.CICSDemo.OMVS.CICSTS.CICSTS55	/aproot/CT/OT246095/usr/lpp/cicsts/cicsts55	CT.OT246095.OMVS.CICSTS.CICSTS55

Install a Portable Software Instance...

Validate, Generate Jobs and Summarize

- Ensure there are no unintended data set collisions:
 - On the target volumes, and
 - In the target system catalog.
- Generate JCL to install the software.

Software Management

Software Management > Deployments > Deployment Checklist [Help](#)

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.

Install a Portable Software Instance...

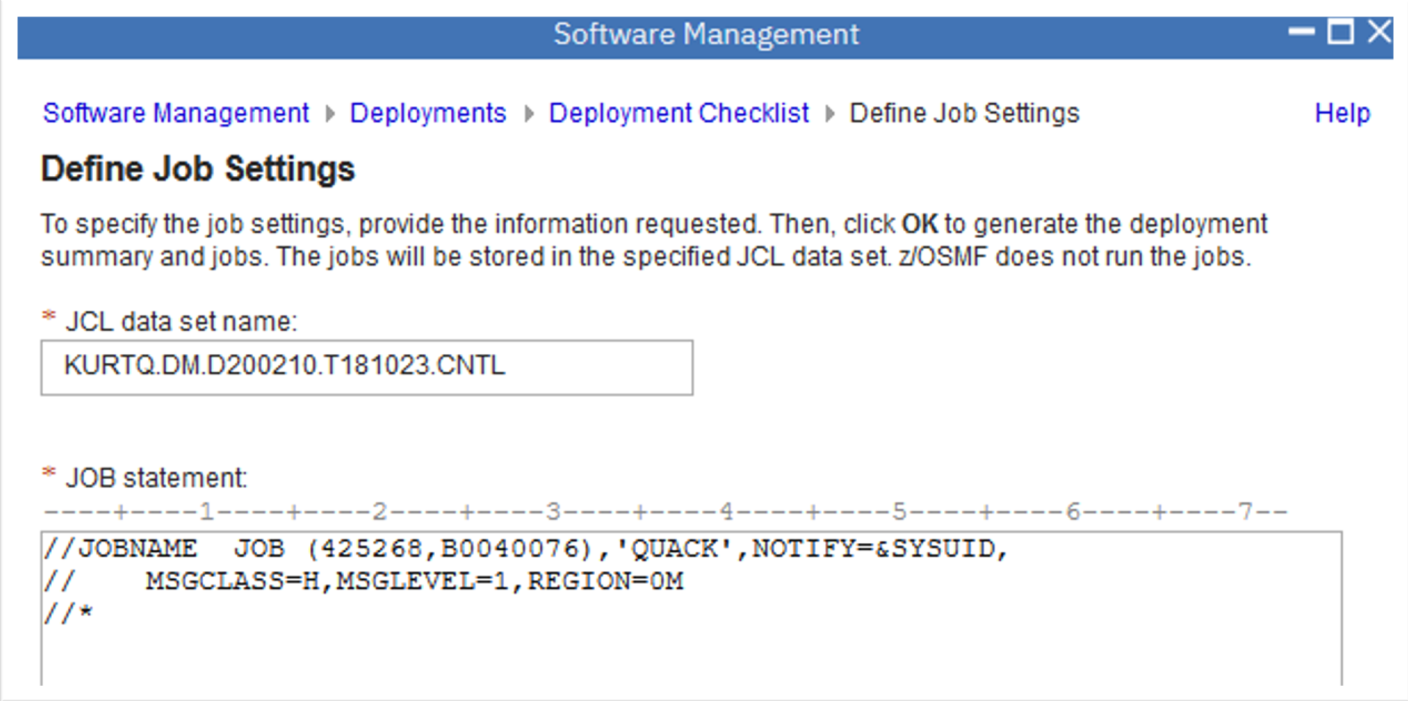
Validate, Generate Jobs and Summarize...

Enter your desired JOB statement for the generated jobs.

- Specify your desired job name, or let Software Management use default names of the form “IZUDnnmm”.
- JOB statement is remembered for next time.

z/OSMF ensures there are no unintended data set collisions:

- On the target volumes, and
- In the target system catalog.



The screenshot shows a window titled "Software Management" with a breadcrumb trail: "Software Management > Deployments > Deployment Checklist > Define Job Settings". A "Help" link is visible in the top right. The main heading is "Define Job Settings". Below this, a paragraph 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 sections: "* JCL data set name:" with a text box containing "KURTQ.DM.D200210.T181023.CNTL", and "* JOB statement:" with a text box containing the following JCL code:

```
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7--  
//JOBNAME JOB (425268,B0040076), 'QUACK', NOTIFY=&SYSUID,  
// MSGCLASS=H, MSGLEVEL=1, REGION=0M  
//*
```

Install a Portable Software Instance...

View the Summary

View the summary of the changes that will be made when the generated jobs are run.

Software Management

Software Management > Deployments > Deployment Checklist [Help](#)

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.

Install a Portable Software Instance...

View the Summary...

Summarize the following:

- Volumes that will be affected.
- Data sets that will be:
 - Deleted
 - Added
 - Replaced
- Catalogs that will be affected.
- Catalog entries that will be:
 - Deleted
 - Added
 - Updated

Software Management

Software Management > Deployments > Deployment Checklist > View Deployment Summary [Help](#)

View Deployment Summary

Review the changes that will occur on the target system when you submit the deployment jobs.

Source software: CICS-ServerPac-OT246095 on system AQFT
Target system: AQFT
Deployment objective: Create new software instance, create new global zone

Data Sets to Replace | Catalogs | Catalog Aliases | Catalog Entries To Delete | **Catalog Entries To Add** | Catalog Entries To Update

Catalog Entries

Actions ▾

↔ No filter applied

Data Set Name Filter	Catalog Filter	Catalog Entry Volume Filter	Data Set Volume Filter	Data Set Storage Class Filter
KURTQ.CICSDEMO.CICS.REXX.ACICBOOK	ICFCAT.UCAT01	VSMPD1	VSMPD1	
KURTQ.CICSDEMO.CICS.REXX.ACICMDS	ICFCAT.UCAT01	VSMPD1	VSMPD1	
KURTQ.CICSDEMO.CICS.REXX.ACICDBRM	ICFCAT.UCAT01	VSMPD1	VSMPD1	
KURTQ.CICSDEMO.CICS.REXX.ACICDMOD	ICFCAT.UCAT01	VSMPD1	VSMPD1	
KURTQ.CICSDEMO.CICS.REXX.ACICDOC	ICFCAT.UCAT01	VSMPD1	VSMPD1	
KURTQ.CICSDEMO.CICS.REXX.ACICDUSR	ICFCAT.UCAT01	VSMPD1	VSMPD1	
KURTQ.CICSDEMO.CICS.REXX.ACICEXEC	ICFCAT.UCAT01	VSMPD1	VSMPD1	
KURTQ.CICSDEMO.CICS.REXX.ACICJCL	ICFCAT.UCAT01	VSMPD1	VSMPD1	
KURTQ.CICSDEMO.CICS.REXX.ACICMOD	ICFCAT.UCAT01	VSMPD1	VSMPD1	
KURTQ.CICSDEMO.CICS.REXX.ACICPNL	ICFCAT.UCAT01	VSMPD1	VSMPD1	
KURTQ.CICSDEMO.CICS.REXX.ACICRMOD	ICFCAT.UCAT01	VSMPD1	VSMPD1	
KURTQ.CICSDEMO.CICS.REXX.ACICUSER	ICFCAT.UCAT01	VSMPD1	VSMPD1	
KURTQ.CICSDEMO.CICS.REXX.SCICBOOK	ICFCAT.UCAT01	VSMPD1	VSMPD1	

Total: 14

Install a Portable Software Instance...

Submit the generated jobs

Submit and run the generated jobs to make changes to the target system.

Software Management

Software Management > Deployments > Deployment Checklist Help

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.

Install a Portable Software Instance...

Submit the generated jobs...

The generated jobs execute system utilities to update the target system. In this example:

1. Unzip data sets
2. Rename data sets and update catalog entries
3. Update SMPCSI

On this page you can submit jobs, view JCL, and view job output.

Software Management

Software Management > Deployments > Deployment Checklist > Submit Deployment Jobs [Help](#)

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: KURTQ.DM.D200210.T181023.CNTL
Target system: AQFT

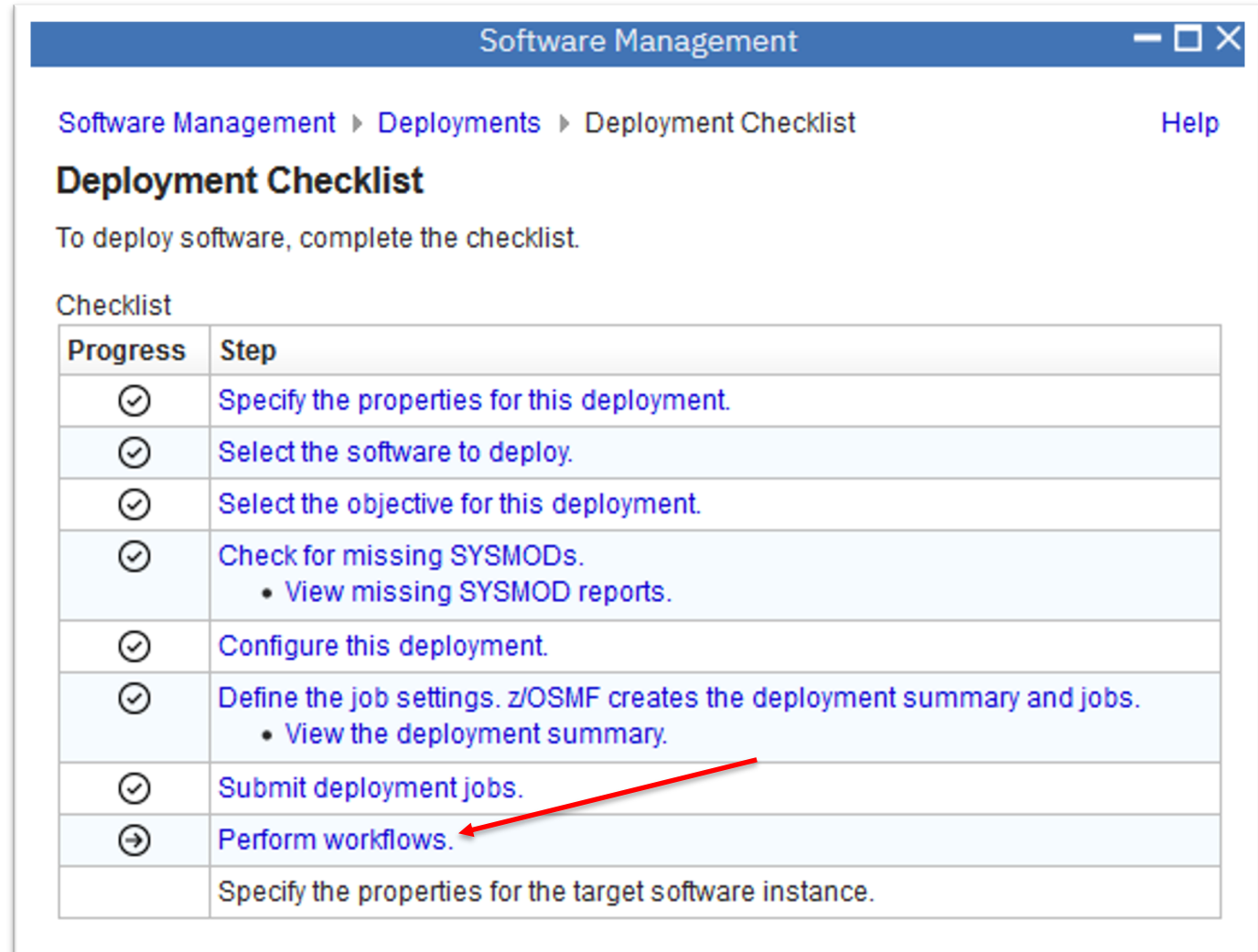
Jobs

Actions									
No filter applied									
<input type="checkbox"/>	Sequence Filter	JCL Data Set Member Name Filter	Description Filter	System Filter	Status Filter	Return Code 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.	AQFT	<input checked="" type="checkbox"/> Complete	CC 0000		IZUD01UZ	JOB26798
<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.	AQFT	<input checked="" type="checkbox"/> Complete	CC 0000		IZUD02RN	JOB26829
<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.	AQFT	<input type="checkbox"/> Submitted			IZUD03UC	JOB26856

Install a Portable Software Instance...

Perform Workflows

If the originating software instance has defined workflows, then the Perform workflows step is enabled.



Software Management

Software Management > Deployments > Deployment Checklist [Help](#)

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.

Install a Portable Software Instance... Perform Workflows...

Open each workflow to perform the setup and configuration tasks defined by the workflow.

“Click” the name.

Each IBM ServerPac will have 3 workflows.

Software Management

Software Management > Deployments > Deployment Checklist > Perform Workflows [Help](#)

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	Owner Filter	System Filter	Created By Filter	Created (Local) Filter
<input type="checkbox"/>	1	OT246095_YOURORDER	About Your Order			<input type="text" value="0%"/>				
<input type="checkbox"/>	2	OT246095_POSTDEPLOY	Post-Deployment			<input type="text" value="0%"/>				
<input type="checkbox"/>	3	OT246095_VERIFY	Deployment Verification			<input type="text" value="0%"/>				

Install a Portable Software Instance... Perform Workflows...

- The selected workflow is opened in the **Workflows** task.
- The workflow's steps are displayed.
- Perform each step.
- The ServerPac "YourOrder" workflow contains reference information about the ServerPac order.

The screenshot displays the 'Software Management' application interface. The main window is titled 'Perform Workflows' and shows a breadcrumb trail: 'Software Management > Deployments > Deployment Checklist > Perform Workflows'. A red arrow points from the 'Perform Workflows' breadcrumb to a smaller, overlapping window titled 'Workflows'. This 'Workflows' window displays details for the workflow 'OT246095_YOURORDER'.

Workflows > OT246095_YOURORDER

OT246095_YOURORDER

Description: This Workflow describes your CICS ServerPac Order: OT246095
Percent complete: 0%

Owner: kurtq
Steps complete: 0 of 8

System: MCLXCF01.AQFT
Status: In Progress

Is Callable: Cannot be called by another workflow
Access(Learn More): Public

Contains Parallel Steps: No

Workflow Steps

State Filter	No. Filter	Title Filter	CalledWorkflow Filter	Automated Filter	Owner Filter	Skill Category Filter
Ready	1	Copyright		No	kurtq	System Programmer
In Progress	2	About Your Order				
Ready	3	Provide feedback for About Your Order workflow		No	kurtq	System Programmer

Total: 9 Selected: 0

Return to Workflows Refresh Last refresh: Feb 11, 2020, 10:53:21 AM local time (Feb 11, 2020, 3:53:21 PM GMT)

Install a Portable Software Instance... Perform Workflows...

The ServerPac
“PostDeploy”
workflow contains
the steps to setup
and configure the
installed software.

The screenshot displays the 'Workflows' application window. The main title is 'OT246095_POSTDEPLOY'. Below the title, there are several key-value pairs: Description (Post-Deployment Workflow for CICS), Owner (kurtq), System (MCLXCF01.AQFT), Is Callable (Cannot be called by another workflow), and Contains Parallel Steps (No). A progress bar indicates 'Percent complete: 18%'. Below this, it shows 'Steps complete: 1 of 35' and 'Status: In Progress'. There are also links for 'Notes | History' and 'Access (Learn More)'. The 'Workflow Steps' section is a table with columns for State, No. Filter, Title Filter, CalledWorkflow Filter, Automated Filter, and Owner Filter. The table lists 16 steps, all with a 'Ready' state. The first step is partially visible and is 'Create CICS Profiles member'. The other steps are: 'Copy CICS Procedures to PROCLIB', 'Add DFHPSVC to IEASVCCI', 'Install MVS ASREXIT', 'Add CICS RACF Definitions', 'Create CICS Common Data Sets', 'Create CICS Unique Data Sets', 'Create CICS Messages Data Set', and 'Customize JVM Environment'. At the bottom, it says 'Total: 35 Selected: 1'.

Workflows

Workflows > OT246095_POSTDEPLOY [Help](#)

OT246095_POSTDEPLOY

[Notes](#) | [History](#)

Description: Post-Deployment Workflow for CICS. Owner: kurtq System: MCLXCF01.AQFT Is Callable: Cannot be called by another workflow Contains Parallel Steps: No

Percent complete: Steps complete: 1 of 35 Status: ■ In Progress Access([Learn More](#)): 🔒 Public

Workflow Steps

Actions Search

No filter applied

State Filter	No. Filter	Title Filter	CalledWorkflow Filter	Automated Filter	Owner Filter
<input type="checkbox"/> Ready	8	<input type="checkbox"/> Create CICS Profiles member		No	kurtq
<input type="checkbox"/> Ready	9	<input type="checkbox"/> Copy CICS Procedures to PROCLIB		No	kurtq
<input type="checkbox"/> Ready	10	<input type="checkbox"/> Add DFHPSVC to IEASVCCI		No	kurtq
<input type="checkbox"/> Ready	11	<input type="checkbox"/> Install MVS ASREXIT		No	kurtq
<input type="checkbox"/> Ready	12	<input type="checkbox"/> Add CICS RACF Definitions		No	kurtq
<input type="checkbox"/> Ready	13	<input type="checkbox"/> Create CICS Common Data Sets		No	kurtq
<input type="checkbox"/> Ready	14	<input type="checkbox"/> Create CICS Unique Data Sets		No	kurtq
<input type="checkbox"/> Ready	15	<input type="checkbox"/> Create CICS Messages Data Set		No	kurtq
<input type="checkbox"/> Ready	16	<input type="checkbox"/> Customize JVM Environment		No	kurtq

Total: 35 Selected: 1

Install a Portable Software Instance... Perform Workflows...

This workflow step generates JCL to read variable information about the installed software.

This information is used for subsequent workflow steps.

Workflows

Workflows > OT246095_POSTDEPLOY > 1. Gather user input for this workflow [Help](#)

Properties for Workflow Step 1. Gather user input for this workflow

General Details Dependencies Notes **Perform** Status Input Variables Feedback

➔ Review Instructions
Edit Sysout DD Name
Create JOB statement
Review JCL
Submit and Save JCL

Review Instructions

To proceed with the guided path through creating and submitting the JCL on MCLXCF01.AQFT, click **Next**. Or, you can choose to bypass this step. If so, first review and confirm that the instructions below are complete. Then, click **Finish** to mark the step complete.

Instructions:

This workflow step reads the variable information about the installed software. The Maximum Expected Return Code for this step is 0. This step is a prerequisite step for subsequent workflow steps. This step should be in 'Complete' status.

Workflows

Workflows > OT246095_POSTDEPLOY > 1. Gather user input for this workflow [Help](#)

Properties for Workflow Step 1. Gather user input for this workflow

General Details Dependencies Notes **Perform** Status Input Variables Feedback

✓ Review Instructions
✓ Edit Sysout DD Name
✓ Create JOB statement
➔ Review JCL
Submit and Save JCL

Review JCL

Review the generated JCL, then click **Next** to proceed. Optionally, you can edit the JCL. To do so, click the **Edit JCL** button.

```
//JOBNAME JOB (425268,B0040076), 'QUACK', NOTIFY=&SYSUID,  
// MSGCLASS=H, MSGLEVEL=1, REGION=0M  
//*  
/*JOBPARM SYSAFF=AQFT  
//*  
//READPROP EXEC PGM=IEBGENER  
//SYSPRINT DD SYSOUT=*  
//SYSIN DD DUMMY  
//SYSUT1 DD DSN=KURTQ.CICSDEMO.PROPVAR,  
// DISP=SHR  
//SYSUT2 DD SYSOUT=*
```


Install a Portable Software Instance... Perform Workflows...

This workflow step

- Requests user input for CALLIBS data set names.
- Generates JCL to update DDDEF entries and relink load modules using the updated data set names.

Workflows

Workflows > OT246095_POSTDEPLOY > 5. Execute post-apply link

Properties for Workflow Step 5. Execute post-apply link

General Details Dependencies Notes **Perform** Status Input Variables Feedback

✓ Input Variables
➔ CALLIB DSN
Product
Review Instructions
Create JOB statement
Review JCL
Submit and Save JCL

Input Variables - CALLIB DSN
Enter the variable values for this input category.

MVS CSSLIB DSN: ⓘ - CALLIB DSN-CSSLIB:	SYS1.CSSLIB
DB2 SDSNLOAD DSN: ⓘ - CALLIB DSN-SDSNLOAD:	DSN.SDSNLOAD
MVS SCEEBND2 DSN: ⓘ - CALLIB DSN-SCEEBND2:	CEE.SCEEBND2
MVS SCEECPP DSN: ⓘ - CALLIB DSN-SCEECPP:	CEE.SCEECPP
MVS SCEELIB DSN: ⓘ - CALLIB DSN-SCEELIB:	CEE.SCEELIB
MVS SCEELKED DSN: ⓘ - CALLIB DSN-SCEELKED:	CEE.SCEELKED
MVS SCEELKEX DSN: ⓘ - CALLIB DSN-SCEELKEX:	CEE.SCEELKEX

Workflows

Workflows > OT246095_POSTDEPLOY > 5. Execute post-apply link

Properties for Workflow Step 5. Execute post-apply link

General Details Dependencies Notes **Perform** Status Input Variables Feedback

✓ Input Variables
✓ CALLIB DSN
✓ Product
✓ Review Instructions
✓ Create JOB statement
➔ Review JCL
Submit and Save JCL

Review JCL
Review the generated JCL, then click **Next** to proceed. Optionally, you can edit the JCL. To do so, click the **Edit JCL** button.

```
/*-----  
//LNKLMODS EXEC PGM=GIMSMP,REGION=0M  
//SMPCSI DD DISP=SHR,DSN=KURTQ.CICSDEMO.SMPE.CICS.GLOBAL.CSI  
//SMPOUT DD SYSOUT=**  
//SMPRPT DD SYSOUT=**  
//SYSPRINT DD SYSOUT=**  
//SMPLOG DD SYSOUT=**  
//SMPLOGA DD SYSOUT=**  
//SMPCNTL DD *  
SET BDY(CICST54) .  
LINK LMODS CALLIBS (  
CSSLIB  
DSNLOAD  
SCEEBND2  
SCEECPP  
SCEELIB  
SCEELKED  
SCEELKEX  
SCEEJOB
```

Install a Portable Software Instance... Perform Workflows...

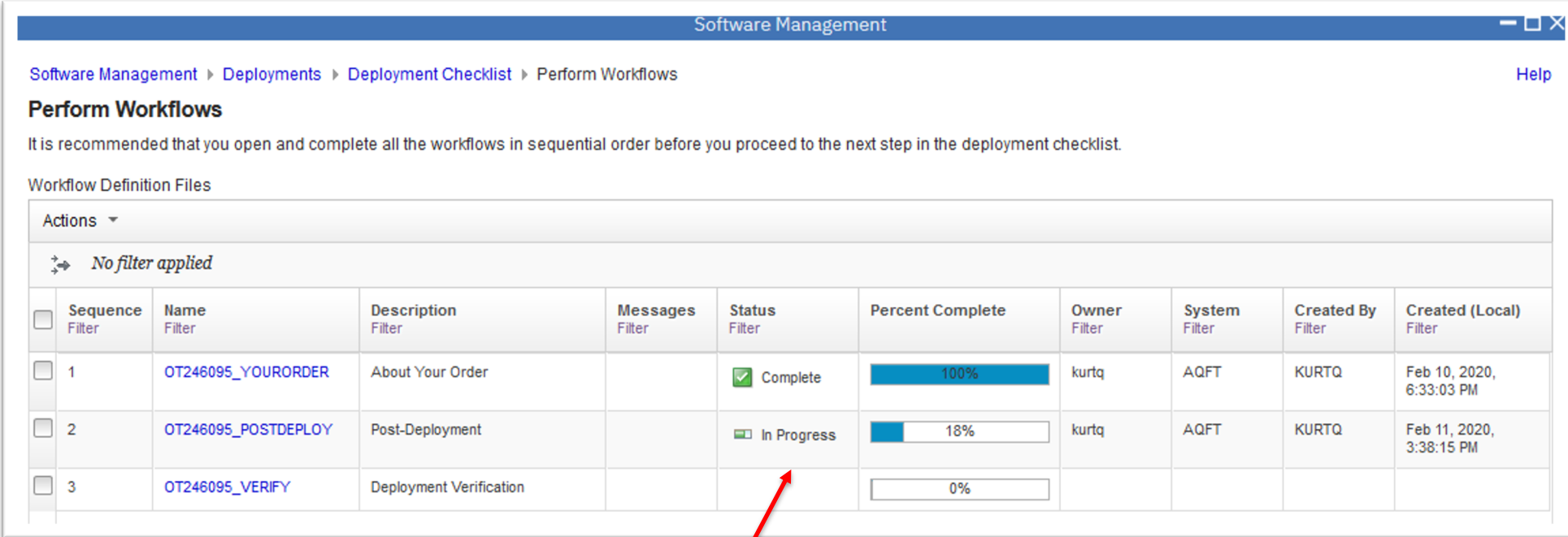
The ServerPac
“Verify” workflow
contains steps to
test and verify the
setup and
configuration of
the installed
software.

The screenshot shows the 'Workflows' application window. The title bar reads 'Workflows'. Below the title bar, there is a breadcrumb 'Workflows > OT246095_VERIFY' and a 'Help' link. The main heading is 'OT246095_VERIFY'. To the right of the heading are links for 'Notes | History'. Below the heading, there are several key-value pairs: 'Description: Deployment Verification Workflow for CICS.', 'Owner: kurtq', 'System: MCLXCF01.AQFT', 'Is Callable: Cannot be called by another workflow', and 'Contains Parallel Steps: No'. There is also a 'Percent complete:' field showing '0%' and a 'Steps complete:' field showing '0 of 9'. A status indicator shows 'In Progress'. Other fields include 'Access(Learn More):' and 'Public'. Below this information is a 'Workflow Steps' section with a search bar and a table of steps.

State Filter	No. Filter	Title Filter	CalledWorkflow Filter	Automated Filter	Owner Filter	Sk Filt
<input type="checkbox"/> Ready	1	<input type="checkbox"/> Gather user input for this workflow		Yes	kurtq	Sy
<input type="checkbox"/> Not Ready	2	<input type="checkbox"/> CICS Batch IVP		No	kurtq	Sy
<input type="checkbox"/> Not Ready	3	<input type="checkbox"/> Define CSD for Online IVP		No	kurtq	Sy
<input type="checkbox"/> Not Ready	4	<input type="checkbox"/> CICS Online IVP		No	kurtq	Sy
<input type="checkbox"/> Not Ready	5	<input type="checkbox"/> Execute EYUCMASP to Start a CMAS		No	kurtq	Sy
<input type="checkbox"/> Not Ready	6	<input type="checkbox"/> Execute EYUWUIP to Start a WUI		No	kurtq	Sy
<input type="checkbox"/> Not Ready	7	<input type="checkbox"/> Execute EYUCSYSP to Start a MAS		No	kurtq	Sy
<input type="checkbox"/> Not Ready	8	<input type="checkbox"/> Save user input for this workflow		Yes	kurtq	Sy
<input type="checkbox"/> Ready	9	<input type="checkbox"/> Provide feedback for Verify workflow		No	kurtq	Sy

Install a Portable Software Instance... Perform Workflows...

Software Management keeps track of the progress for each workflows instance.



The screenshot shows the 'Software Management' application window. The breadcrumb navigation is 'Software Management > Deployments > Deployment Checklist > Perform Workflows'. The page title is 'Perform Workflows'. A note states: '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.' Below this is a section for 'Workflow Definition Files' with an 'Actions' dropdown and a filter status 'No filter applied'. A table lists three workflow instances:

Sequence Filter	Name Filter	Description Filter	Messages Filter	Status Filter	Percent Complete	Owner Filter	System Filter	Created By Filter	Created (Local) Filter
<input type="checkbox"/>	1	OT246095_YOURORDER	About Your Order	<input checked="" type="checkbox"/> Complete	100%	kurtq	AQFT	KURTQ	Feb 10, 2020, 6:33:03 PM
<input type="checkbox"/>	2	OT246095_POSTDEPLOY	Post-Deployment	<input type="checkbox"/> In Progress	18%	kurtq	AQFT	KURTQ	Feb 11, 2020, 3:38:15 PM
<input type="checkbox"/>	3	OT246095_VERIFY	Deployment Verification		0%				

A red arrow points to the 'In Progress' status of the second workflow instance.

Install a Portable Software Instance...

Complete the deployment

- After the jobs have been executed and workflows performed, the physical target software instance has been created.
- Update Software Management to have knowledge of the new software instance.

Software Management

Software Management > Deployments > Deployment Checklist [Help](#)

Deployment Checklist

To deploy software, complete the checklist.

Checklist

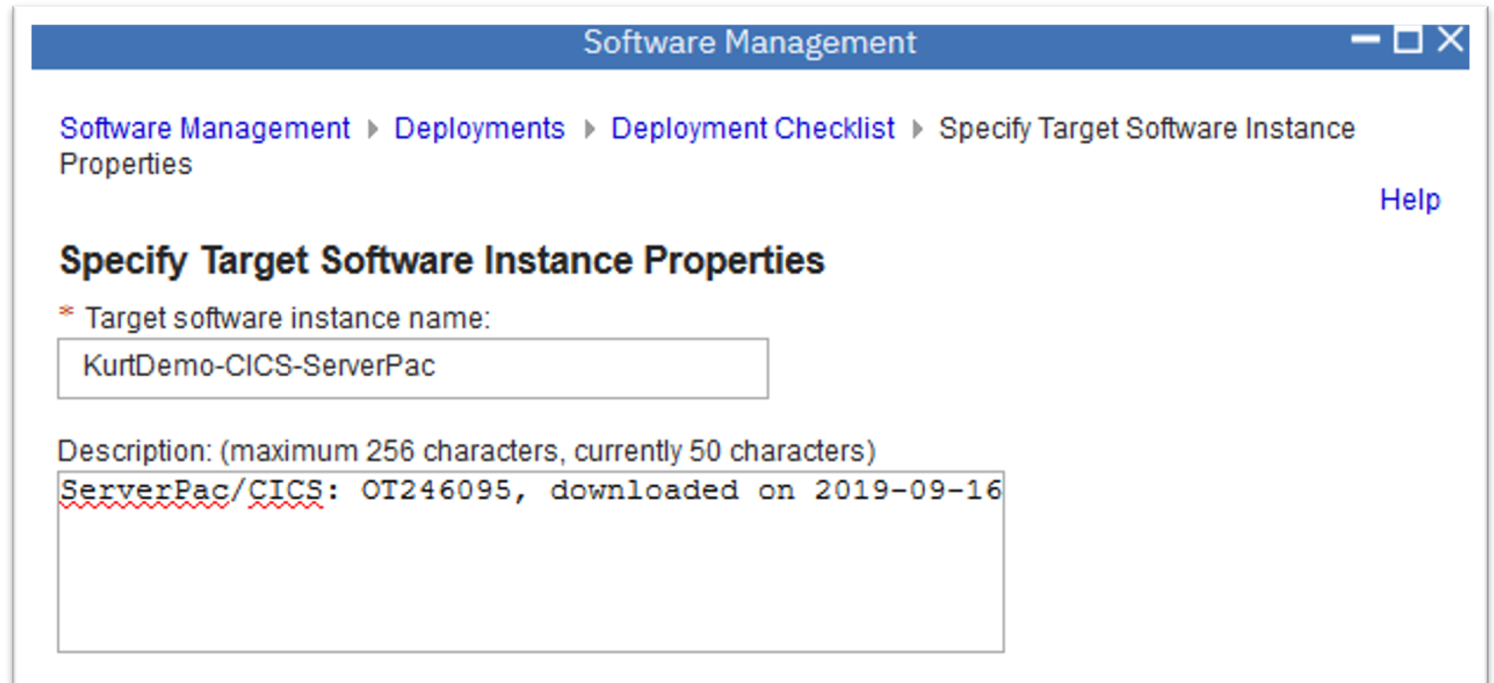
Progress	Step
☑	Specify the properties for this deployment.
☑	Select the software to deploy.
☑	Select the objective for this deployment.
☑	Check for missing SYSMODs. <ul style="list-style-type: none">• View missing SYSMOD reports.
☑	Configure this deployment.
☑	Define the job settings. z/OSMF creates 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.

Install a Portable Software Instance...

Complete the deployment...

Enter a name and optional description for the new target software instance.

- Name and description are primed from the source portable software instance.



The screenshot shows a window titled "Software Management" with a breadcrumb trail: "Software Management > Deployments > Deployment Checklist > Specify Target Software Instance Properties". A "Help" link is visible in the top right. The main heading is "Specify Target Software Instance Properties". Below it, there is a label "Target software instance name:" followed by a text input field containing "KurtDemo-CICS-ServerPac". Underneath, there is a label "Description: (maximum 256 characters, currently 50 characters)" followed by a text area containing the text "ServerPac/CICS: OT246095, downloaded on 2019-09-16".

Install a Portable Software Instance... Complete the deployment...

The Install is now complete.

The screenshot shows the 'Software Management' interface, specifically the 'Deployment Checklist' page. The breadcrumb navigation is 'Software Management > Deployments > Deployment Checklist'. The page title is 'Deployment Checklist'. Below the title, there is a 'Messages' section with 3 information messages and 0 error or warning messages. The messages are:

- The product, feature, and FMID information for software instance "KurtDemo-CICS-ServerPac" on system "AQFT" was retrieved. (IZUD164I, Feb 11, 2020, 4:21:50 PM)
- Deployment "cics55demo" is complete. (IZUD155I, Feb 11, 2020, 4:21:48 PM)
- Target software instance "KurtDemo-CICS-ServerPac" was added or updated. (IZUD154I, Feb 11, 2020, 4:21:48 PM)

Below the messages, there is a note: 'To deploy software, complete the checklist.' This is followed by a checklist table with 10 items, all of which are marked as complete with a checkmark icon.

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.

At the bottom of the checklist, there is a 'Close' button.

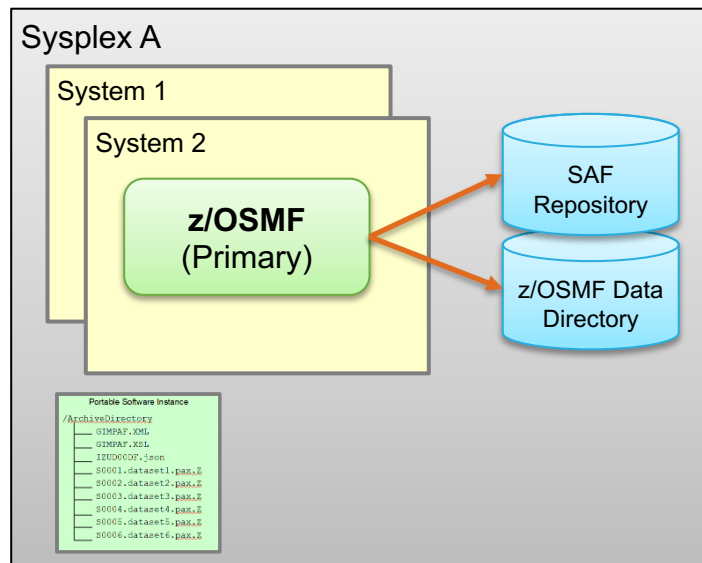
Install a Portable Software Instance...

Summary

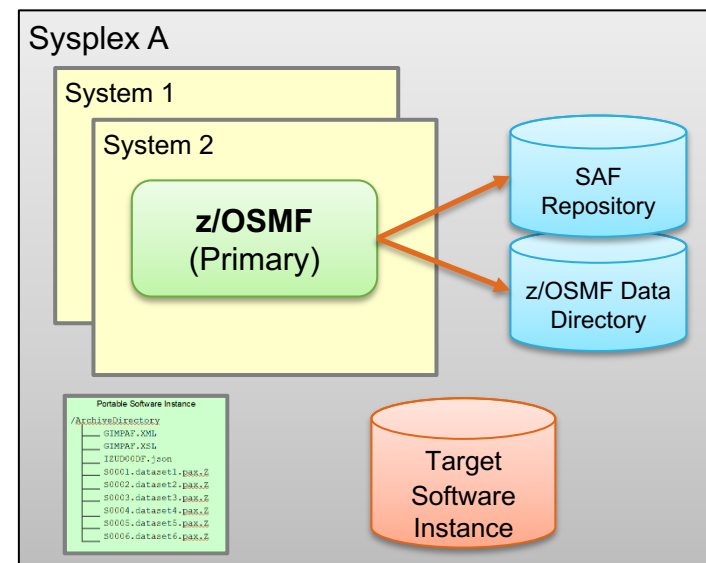
To summarize:

- Installation of the Portable Software Instance creates a new Software Instance.
- Actions can be performed on the new Software Instance.

Before Deployment



After Deployment



What can I do after the install?

- **Software Update** action
 - APPLY PTFs to fix a specific problem (select by SYSMOD ID)
 - APPLY recommended PTFs (select by recommended SOURCEID)
 - APPLY PTFs to enable a new function (select by Fix Category)
- **Perform workflows** after the install.
- **View the data sets** for the software instance.
- **View the products, features, and FMIDs** for the software instance.
- Other reports and queries...
- **Deploy** the software instance.

What can I do after the install?

Software Instance, Perform workflows action

- View and open workflow instances created during the install (deployment) of the software instance.
- For tasks that may be repeated, create new workflow instances for the software instance.

Software Management > Software Instances > Perform Workflows

Perform Workflows for KurtDemo-CICS-ServerPac

Below is the list of workflow instances that have been created for the software instance using the Create Workflow action.

Workflow Instances

Actions ▾

↔ No filter applied

<input type="checkbox"/>	Name Filter	Description Filter	Messages Filter	Status Filter	Percent Complete	Owner Filter	System Filter	Created By Filter	Created (Local) Filter
<input type="checkbox"/>	OT246095_VERIFY	Deployment Verification		In Progress	<input type="text" value="0%"/>	kurtq	AQFT	KURTQ	Feb 11, 2020, 4:15:01 PM
<input type="checkbox"/>	OT246095_POSTDEPLOY	Post-Deployment		In Progress	<input type="text" value="20%"/>	kurtq	AQFT	KURTQ	Feb 11, 2020, 3:38:15 PM
<input type="checkbox"/>	OT246095_YOURORDER	About Your Order		Complete	<input type="text" value="100%"/>	kurtq	AQFT	KURTQ	Feb 10, 2020, 6:33:03 PM

Software Management

Software Management > Software Instances > Perform Workflows > Create Workflow Help

Create Workflow for "KurtDemo-CICS-ServerPac"

Select a workflow definition file to use for creating a new workflow.

Workflow Definition Files

Actions ▾

↔ No filter applied

<input type="radio"/>	Name Filter	Sequence Filter	Description Filter	SMP/E Element Type / Name Filter	Data set or UNIX file Filter
<input type="radio"/>	OT246095_YOURORDER	1	About Your Order		KURTQ.CICSDEMO.WORKFLOW(WELCOME)
<input type="radio"/>	OT246095_POSTDEPLOY	2	Post-Deployment		KURTQ.CICSDEMO.WORKFLOW(POSTINST)
<input type="radio"/>	OT246095_VERIFY	3	Deployment Verification		KURTQ.CICSDEMO.WORKFLOW(VERIFY)

What can I do after the install?

Software Instance, View Data sets action

Analyze the SMPCSI to determine the data sets for the software instance.

- Target, dlib, SMP/E, non-SMP/E
- Display data set name, category, volume, type, space, DCB, etc.

Software Management

Software Management > Software Instances > View Data Sets

View Data Sets

Selected software instance: KurtDemo-CICS-ServerPac on system AQFT

Data Sets UNIX Data Sets

Actions

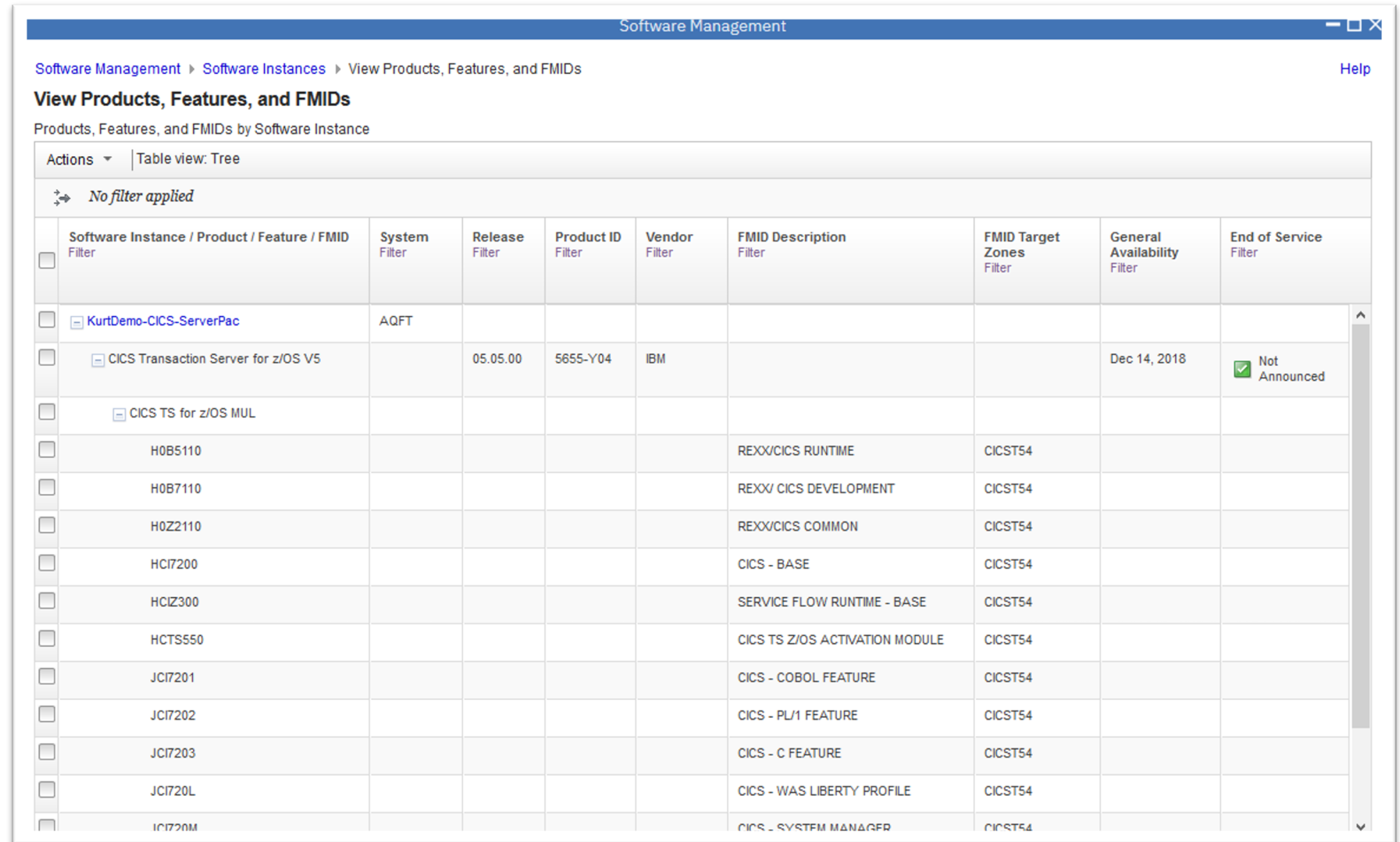
No filter applied

Data Set Name Filter	Data Set Category Filter	Volumes Filter	Data Set Type Filter	RECFM Filter	LRECL Filter	BLKSIZE Filter	Tracks Filter	% Used Filter	Extents Filter	Zone Names Filter
KURTQ.CICSDEMO.CICS.REXX.ACICBOOK	Dlib	VSMPD1	PDS	FB	4096	24576	34	52	1	CICSD54
KURTQ.CICSDEMO.CICS.REXX.ACICMDS	Dlib	VSMPD1	PDS	VB	255	27998	6	16	1	CICSD54
KURTQ.CICSDEMO.CICS.REXX.ACICDBRM	Dlib	VSMPD1	PDS	FB	80	27920	5	20	1	CICSD54
KURTQ.CICSDEMO.CICS.REXX.ACICDMOD	Dlib	VSMPD1	PDS	U	0	32760	7	14	1	CICSD54
KURTQ.CICSDEMO.CICS.REXX.ACICDOC	Dlib	VSMPD1	PDS	VB	8192	27998	112	67	1	CICSD54
KURTQ.CICSDEMO.CICS.REXX.ACICDUSR	Dlib	VSMPD1	PDS	VB	255	27998	7	28	1	CICSD54
KURTQ.CICSDEMO.CICS.REXX.ACICEXEC	Dlib	VSMPD1	PDS	VB	255	27998	7	28	1	CICSD54
KURTQ.CICSDEMO.CICS.REXX.ACICJCL	Dlib	VSMPD1	PDS	FB	80	27920	13	46	1	CICSD54
KURTQ.CICSDEMO.CICS.REXX.ACICMOD	Dlib	VSMPD1	PDS	U	0	32760	95	38	1	CICSD54
KURTQ.CICSDEMO.CICS.REXX.ACICPNL	Dlib	VSMPD1	PDS	FB	80	27920	5	20	1	CICSD54
KURTQ.CICSDEMO.CICS.REXX.ACICRMOD	Dlib	VSMPD1	PDS	U	0	32760	7	14	1	CICSD54
KURTQ.CICSDEMO.CICS.REXX.ACICUSER	Dlib	VSMPD1	PDS	VB	255	27998	6	33	1	CICSD54
KURTQ.CICSDEMO.CICS.REXX.SCICBOOK	Target	VSMPD1	PDS	FB	4096	24576	34	52	1	CICST54
KURTQ.CICSDEMO.CICS.REXX.SCICMDS	Target	VSMPD1	PDS	VB	255	27998	6	16	1	CICST54
KURTQ.CICSDEMO.CICS.REXX.SCICDBRM	Target	VSMPD1	PDS	FB	80	27920	5	20	1	CICST54

What can I do after the install?

Software Instance, View Products action

Display products, features, and FMIDs for the selected software instance.



The screenshot shows the 'Software Management' application window. The breadcrumb path is 'Software Management > Software Instances > View Products, Features, and FMIDs'. The title of the page is 'View Products, Features, and FMIDs'. Below the title, it says 'Products, Features, and FMIDs by Software Instance'. There is a dropdown menu for 'Actions' and a text label 'Table view: Tree'. A filter status indicates 'No filter applied'. The table has the following columns: 'Software Instance / Product / Feature / FMID Filter', 'System Filter', 'Release Filter', 'Product ID Filter', 'Vendor Filter', 'FMID Description Filter', 'FMID Target Zones Filter', 'General Availability Filter', and 'End of Service Filter'. The table contains several rows of data, including a summary row for 'KurtDemo-CICS-ServerPac' and a list of individual products and features.

<input type="checkbox"/>	Software Instance / Product / Feature / FMID Filter	System Filter	Release Filter	Product ID Filter	Vendor Filter	FMID Description Filter	FMID Target Zones Filter	General Availability Filter	End of Service Filter
<input type="checkbox"/>	<input type="checkbox"/> KurtDemo-CICS-ServerPac	AQFT							
<input type="checkbox"/>	<input type="checkbox"/> CICS Transaction Server for z/OS V5		05.05.00	5655-Y04	IBM			Dec 14, 2018	<input checked="" type="checkbox"/> Not Announced
<input type="checkbox"/>	<input type="checkbox"/> CICS TS for z/OS MUL								
<input type="checkbox"/>	H0B5110					REXX/CICS RUNTIME	CICST54		
<input type="checkbox"/>	H0B7110					REXX/ CICS DEVELOPMENT	CICST54		
<input type="checkbox"/>	H0Z2110					REXX/CICS COMMON	CICST54		
<input type="checkbox"/>	HC17200					CICS - BASE	CICST54		
<input type="checkbox"/>	HC1Z300					SERVICE FLOW RUNTIME - BASE	CICST54		
<input type="checkbox"/>	HCTS550					CICS TS Z/OS ACTIVATION MODULE	CICST54		
<input type="checkbox"/>	JC17201					CICS - COBOL FEATURE	CICST54		
<input type="checkbox"/>	JC17202					CICS - PL/1 FEATURE	CICST54		
<input type="checkbox"/>	JC17203					CICS - C FEATURE	CICST54		
<input type="checkbox"/>	JC1720L					CICS - WAS LIBERTY PROFILE	CICST54		
<input type="checkbox"/>	IC1720M					CICS - SYSTEM MANAGER	CICST54		

What can I do after the install?

Software Instance, other reports and queries

Examples:

- SYSMOD Search
- Missing Critical Service
- End of Service Support

Software Management

Software Management > Software Instances > Maintenance Reports

Maintenance Reports

Missing Critical Service x

Review the list of critical service and determine which service are critical for your installation. Use SMP/E to apply the resolving service to the corresponding target zone.

Actions | Table view: Tree

No filter applied

Software Instance / FMID / Held SYSMOD / Missing APAR Filter	System Filter	HOLDDATA Received (GMT) Filter	Target Zones Filter	Resolving SYSMODs Received in Global Zone Filter	Resolving SYSMODs Not in Global Zone Filter	Hold Class Filter	Hold Symptom Filter
<input type="checkbox"/> KurtDemo-CICS-ServerPac	AQFT	February 11, 2020 'at' 17:47:52					
<input type="checkbox"/> HCl7200							
<input type="checkbox"/> HCl7200							
<input type="checkbox"/> AH09914			CICST54	UI6			
<input type="checkbox"/> AH15055			CICST54				
<input type="checkbox"/> AH15115			CICST54				
<input type="checkbox"/> AH15887			CICST54				
<input type="checkbox"/> AH16397			CICST54				

Software Management > Software Instances > Maintenance Reports

Maintenance Reports

SYSMOD Search x

Use this page to search the selected software instances for one or more SYSMODs.

* SYSMOD search list

UI60580 UI65654

Search

Search Results

Actions | Table view: Tree

No filter applied

Software Instance / Zone Name / SYSMOD Filter	System Filter	Type Filter	FMID Filter	Status Filter	Installed Filter
<input type="checkbox"/> KurtDemo-CICS-ServerPac	AQFT				
<input type="checkbox"/> CICSD54					
<input type="checkbox"/> CICST54					
<input type="checkbox"/> UI60580		PTF	HCl7200	Applied	September 13, 2019 'at' 06:18:17
<input type="checkbox"/> UI65654				Not Found	

Software Management

Software Management > Software Instances > Maintenance Reports

Maintenance Reports

End of Service x

Timeline

View Legend

2020

2021

Retrieve End of Service Information...

Software Instances by Product

Actions | Table view: Tree

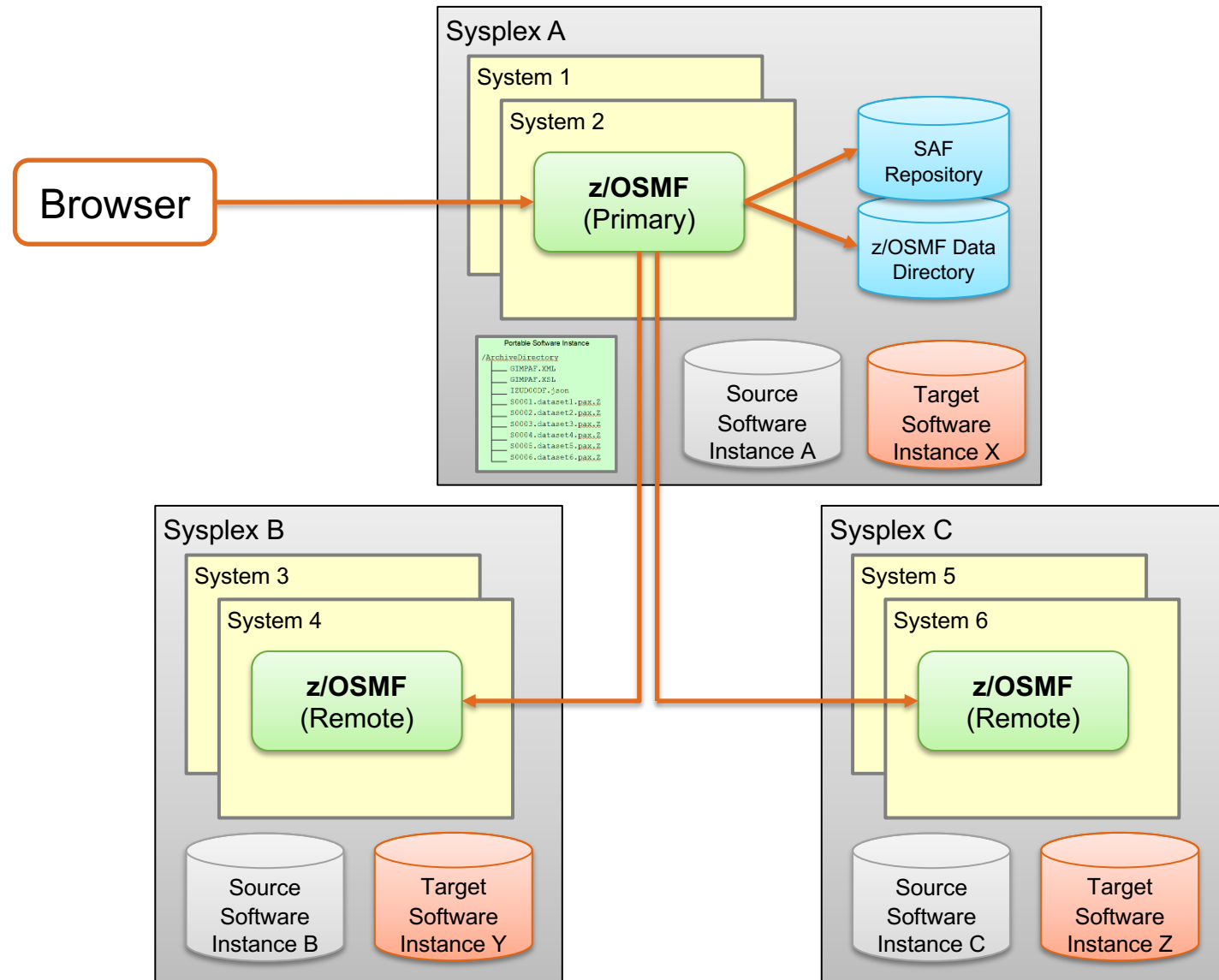
No filter applied

Product / Software Instance Filter	Release Filter	Product ID Filter	Vendor Filter	End of Service Filter	General Availability Filter	System Filter	Description Filter	Additional Product Information Filter
<input type="checkbox"/> CICS Transaction Server for z/OS V5	05.05.00	5655-Y04	IBM	<input checked="" type="checkbox"/> Not Announced	Dec 14, 2018			http://www.ibm.com/common/ssi/cgi-bin/ssi.subtype=sm&apname=ShopSeries&ntmf
<input type="checkbox"/> IBM Security zSecure CICS Toolkit	02.03.01	5655-N18	IBM	<input checked="" type="checkbox"/> Not Announced	Sep 14, 2018			http://www.ibm.com/common/ssi/cgi-bin/ssi.subtype=sm&apname=ShopSeries&ntmf

What can I do after the install?

Deploy

Deploy the software instance to create a new software instance.



In Summary

- Brief z/OSMF and Software Management overview.
- What is a Software Instance?
- What is a Portable Software Instance?
- Acquiring a Portable Software Instance from a provider.
- Install the Portable Software Instance
 - Launching Workflows supplied by the software provider.
- What can I do with z/OSMF Software Management after install?
- For more information about installing IBM ServerPac with z/OSMF:
<https://www.ibm.com/support/z-content-solutions/serverpac-install-zosmf/>

THANK
YOU!



IBM