

# z/OSMF Software Deployment Application User Experience The IBM Perspective

**Greg Daynes**

[gdaynes@us.ibm.com](mailto:gdaynes@us.ibm.com)

**IBM z/OS Installation and Deployment Architect**

**March 14, 2012**

**Session 10787**



## Agenda

### ■ Recent Enhancements

- Support for unmounted z/OS UNIX file system data sets
- Support for deployment configuration copy
- Support for granular control over which users can view and modify deployment task artifacts

### ■ Software Deployment Hints and Tips

- Deploying volumes
- Resuming deployments
- Cancelling and removing deployments
- Submitting the deployment jobs

### ■ Navigation Hints and Tips

## NEW FUNCTION – PTFs UK73699 and UO01300



### ■ Support for Unmounted z/OS UNIX File System Data Sets

- Currently UNIX file system data sets must be mounted so the Deployment task of z/OSMF can find the data sets where directories defined by DDDEF entries reside.
- If a data set cannot be found for one or more directories because the data set is not mounted, then the Deployment task generates an error message to identify the directory and does not continue the deployment operation.
- **Now the user will be given the opportunity to identify the data sets that contain the subject directories.**

# Configure Deployment Wizard ...

ty Log out IBM

Welcome x Deplo

Deployment > Deploy Software > ... > Configure Deployment

Configure Deployment ... Kathy's Missing MP SWI

UNIX File System Data Sets

The UNIX file system data sets that contain the directories listed in the UNIX directories field could not be determined because they are not mounted. Use the Add action to specify the name of those data sets and to identify the mount points that would make the directories accessible. To proceed, a dataset and mount point must be specified for each UNIX directory.

Source software instance: Kathy's Missing MP SWI on system LOCAL  
Target system: LOCAL

▼ Unmounted Directories for Kathy's Missing MP SWI on system LOCAL

UNIX File System Data Sets

Data Set Name Filter	Mount Point Filter
-------------------------	-----------------------

Total: 0

UNIX directories:

- /service/usr/lpp/blz/sbla001/IBM/
- /service/usr/lpp/blz/sbla002/IBM/

< Back Next > Finish Cancel

If a data set cannot be determined because a directory is not mounted or cannot be found, the user will be given the opportunity to supply the mount point and the UNIX file system data set. The deployment will not proceed until the user provides the data set for the mount point or the directory is mounted so that the data set can be determined.

# Configure Deployment Wizard ...



Welcome zosmf8 Log out

Welcome Deployment

Deployment Deployment

Configure Deployment Help

**By selecting Add, you can enter mount point information**

**UNIX File System Data Sets**

The UNIX file system data sets that contain the directories listed in the UNIX directories field could not be identified because they are not mounted. Use the Add action to specify the name of the directory and to identify the mount points that would make the directories accessible to SMP/E. To proceed, a dataset and mount point must be specified for each UNIX directory.

Source software: Kathy's Missing MP SWI on system LOCAL  
Target system: LOCAL

Unmounted Directories for Kathy's Missing MP SWI on system LOCAL

UNIX File System Data Sets	UNIX directories:				
<table border="1"><thead><tr><th>Data Set Name</th><th>Mount Point</th></tr></thead><tbody><tr><td>Filter</td><td>Filter</td></tr></tbody></table>	Data Set Name	Mount Point	Filter	Filter	<pre>/service/usr/lpp/blz/sbla001/IBM/ /service/usr/lpp/blz/sbla002/IBM/</pre>
Data Set Name	Mount Point				
Filter	Filter				

Total: 0

< Back   Next >   Finish   Cancel

On the right you can see the directories for which z/OS UNIX file system data sets could not be obtained. By selecting the Add Action, the user can enter the mount point information.

# Configure Deployment Wizard ...



Welcome zosmf8 Log out

Welcome Deployment

Deployment > Deploy Software > Deployment Checklist > Co Help

### Add UNIX Data Set and Mount Point

Specify a UNIX file system data set name and mount point that makes the data set accessible to SMP/E. The mount point must have a prefix for one or more of the listed UNIX directories. z/OSMF uses the mount point to identify the directories contained in the data set. z/OSMF does not mount the data set.

Software instance: Kathy's Missing MP SWI

\* UNIX file system data set name:

\* Mount point:

UNIX directories:

**Enter the z/OS UNIX file system data set name and mount point**

The user can enter the Unix file system data set and the mount point.



# Configure Deployment Wizard ...



Welcome zosmf8 Log out IBM

Welcome Deployment

Deployment > Deploy Software > Deployment Checklist > Configure Deployment Help

### Configure Deployment for Kathy's Missing MP SWI

**UNIX File System Data Sets**

The UNIX file system data sets that contain the directories listed in the UNIX directory. Specify the name of those data sets and to identify the mount points that would make the directories accessible. To proceed, a dataset and mount point must be specified for each UNIX directory.

Messages 0 0 1 Close All

**IZUD593I:** 1 UNIX directories were assigned to data set "SMPTEST.MIG2.VL144B". Oct 19, 2011 8:53:51 AM x

Source software instance: Kathy's Missing MP SWI on system LOCAL  
Target system: LOCAL

▼ Unmounted Directories for Kathy's Missing MP SWI on system LOCAL

UNIX File System Data Sets

Data Set Name	Mount Point	Messages
Filter	Filter	Filter
<input checked="" type="checkbox"/> SMPTEST.MIG2.VL144B	/service/usr/lpp/blz/sbla001	

Total: 1, Selected: 1

UNIX directories:

/service/usr/lpp/blz/sbla002/IBM/

< Back Next > Finish Cancel

Mount point assigned to a z/OS UNIX file system data set

Upon return from adding a mount point, you can see that one has been resolved. The user would again use the Add Action to resolve the second missing Unix directory.

# Configure Deployment Wizard ...



Welcome zosmf8

Log out



Welcome

Deployment

Deployment > Deploy Software > Deployment Checklist > Configure Deployment

Help

## Configure Deployment for Kathy's Missing MP SWI

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

### UNIX File System Data Sets

The UNIX file system data sets that contain the directories listed in the UNIX directory cannot be identified because they are not mounted. Use the Add action to specify the name of those data sets and to identify the mount points that would make the directories accessible to SMP/E. To proceed, a dataset and mount point must be specified for each UNIX directory.

All mount points are resolved, configuration can continue

Messages

IZUD593I: 1 UNIX directories were assigned to data set "SMPTTEST.MIG2.VL144B".	Oct 19, 2011 8:53:51 AM	x
IZUD593I: 1 UNIX directories were assigned to data set "PINTO.VICOM.JCL".	Oct 19, 2011 8:58:04 AM	x

Source software instance: Kathy's Missing MP SWI on system LOCAL  
Target system: LOCAL

### Unmounted Directories for Kathy's Missing MP SWI on system LOCAL

#### UNIX File System Data Sets

Data Set Name	Mount Point	Messages
<input type="checkbox"/> SMPTTEST.MIG2.VL144B	/service/usr/lpp/blz/sbla001	
<input checked="" type="checkbox"/> PINTO.VICOM.JCL	/service/usr/lpp/blz/sbla002/IBM	

Total: 2, Selected: 1

#### UNIX directories:

< Back **Next >** Finish Cancel

After all mount points have been resolved, clicking Next will proceed through the Configuration process as normally done. If errors result from the mount points entered by the user, control will remain on this pane until the errors are resolved.



## NEW FUNCTION – APAR PM40764 and IO14873



### ■ **Support for Deployment Configuration Copy**

- Currently when creating a deployment operation in the Deployment task of z/OSMF, the configuration to describe the target software instance must be specified from scratch.
- A better solution is to allow a user to reuse the configuration information from a prior completed deployment operation.
  - Allows the user to reuse all the mappings from a prior deployment
  - User can also model after another current software instance
  - Simplifies the deployment, similar to using an existing configuration during a ServerPac install

## Creating access controls for the Deployment task



- **The Deployment task allows users with proper authorization to manage global zones, software instances, deployments, and categories.**
- **For some actions, users must also have appropriate authorization to the physical resource these objects describe, such as a target zone or data set.**
- **In Repository Authorization Mode, you can control which users are authorized to the Deployment task, but you cannot restrict user access to an object or an action.**
  - In this case, all users authorized to the Deployment task have equal access to these objects.
- **In SAF Authorization Mode, if APARs PM40764 and PM50651 are installed, you can use your security product to control access to the task and to create more granular authorizations, such as restricting access to an object or an action.**



## NEW FUNCTION – APAR PM40764 (was PM40765)

- Access to the Deployment task and its objects are controlled through the following default resource profiles, which are defined in the ZMFAPLA class:
  - <safPrefix>.ZOSMF.SOFTWARE\_DEPLOYMENT.\*\*
  - <safPrefix>.ZOSMF.SOFTWARE\_DEPLOYMENT.DATA.\*\*
- By default, the IZUADMIN and IZUUSER groups are permitted
  - READ** - <safPrefix>.ZOSMF.SOFTWARE\_DEPLOYMENT.\*\*
  - CONTROL** - <safPrefix>.ZOSMF.SOFTWARE\_DEPLOYMENT.DATA.\*\*
    - These permissions allow z/OSMF administrators and z/OSMF users to perform all actions for all objects.
- Important: All users of the Deployment task should be permitted at least
  - READ** - <safPrefix>.ZOSMF.SOFTWARE\_DEPLOYMENT.DATA.\*\*.
    - Otherwise, no actions can be performed because users will not have access to any objects.

## NEW FUNCTION – APAR PM40764 and PM50651



- **To further restrict access to the objects and actions, define a SAF resource profile for each object and grant users the appropriate access authority.**
  - Regardless of where the physical resource described by an object resides, the SAF profiles for that object must be defined on the z/OS system that hosts the z/OSMF instance to which a user's Web browser is connected.
    - The Deployment task uses this z/OS system when performing SAF authorization checking.
- **Use the SAF resource names, which are generated by the Deployment task, to help you define profiles that will control user access to an object or an action.**
- **The SAF resource names for each object are constructed using properties of the object.**
  - The casing used for each property value is preserved; therefore, SAF resource names are case sensitive.

## NEW FUNCTION – APAR PM40764 and PM50651



### ■ Authorizing users to global zones

- A global zone object describes an SMPCSI data set that contains an SMP/E global zone.
- To control access to a specific global zone, define a SAF resource profile for that resource. The SAF resource name for a global zone object has the following format:
  - `<safPrefix>.ZOSMF.SOFTWARE_DEPLOYMENT.DATA.GZN.systemName.dsname`
    - o where:
      - » GZN indicates that the object associated with this SAF resource is a global zone.
      - » systemName is the name of the z/OSMF host system that has access to the global zone CSI data set. The system is defined on the Systems page in the Deployment task.
      - » dsname is the name of the CSI data set that contains the global zone.



## NEW FUNCTION – APAR PM40764 and PM50651



### ■ Authorizing users to software instances

- A software instance describes a deployable unit of software, composed of data sets containing SMP/E installed software.
- To control access to a specific software instance, define a SAF resource profile for that resource.
- The SAF resource name for a software instance object has the following format:
  - `<safPrefix>.ZOSMF.SOFTWARE_DEPLOYMENT.DATA.SWI.category.systemName.instanceName`
    - where:
      - o SWI indicates that the object associated with this SAF resource is a software instance.
      - o category is the name of the category assigned to the software instance. If multiple categories are assigned, a separate SAF resource name is created for each category. If no category is assigned, the category value is NOCATEGORY.
      - o systemName is the name of the z/OSMF host system that has access to the volumes and data sets where the software instance resides. The system is inherited from the global zone associated with the software instance, and is defined on the Systems page in the Deployment task.
      - o instanceName is the name of the software instance.
- To perform an action, users must have the access authority required for that action for all the SAF resource names associated with the software instance.

## NEW FUNCTION – APAR PM40764 and PM50651



### ■ Authorizing users to deployments

- A deployment is a checklist that guides users through the process of cloning or deploying a software instance, and it is the object in which z/OSMF stores information about the clone, such as its data set names and locations, catalog structure, and SMP/E zone names.
- To control access to a specific deployment, define a SAF resource profile for that resource.
- The SAF resource name for a deployment object has the following format:  
`<safPrefix>.ZOSMF.SOFTWARE_DEPLOYMENT.DATA.DEP.category.deploymentName`  
where:
  - DEP indicates that the object associated with this SAF resource is a deployment.
  - category is the name of the category assigned to the deployment.
    - o If multiple categories are assigned, a separate SAF resource name is created for each category.
    - o If no category is assigned, the category value is NOCATEGORY.
  - deploymentName is the name of the deployment.
- To perform an action, users must have the access authority required for that action for all the SAF resource names associated with the deployment.

## NEW FUNCTION – APAR PM40764 and PM50651



### ■ Authorizing users to categories

–A category is a string or label used to organize and group software instances and deployments.

- A category might denote a system, subsystem, software vendor, software life cycle state, business function, or geographic location.
- There are no predefined categories.

–To control access to a specific category, define a SAF resource profile for that resource.

–The SAF resource name for a category object has the following format:

`<safPrefix>.ZOSMF.SOFTWARE_DEPLOYMENT.DATA.CAT.categoryName`

where:

- CAT indicates that the object associated with this SAF resource is a category.
- *categoryName* is the name of the category.



## Software Deployment Hints and Tips

### ■ Deploying Volumes

–If you are keeping the logical configuration of the target software instance's data sets the same as the model software instance (same data set names, and same grouping of data sets on volumes)

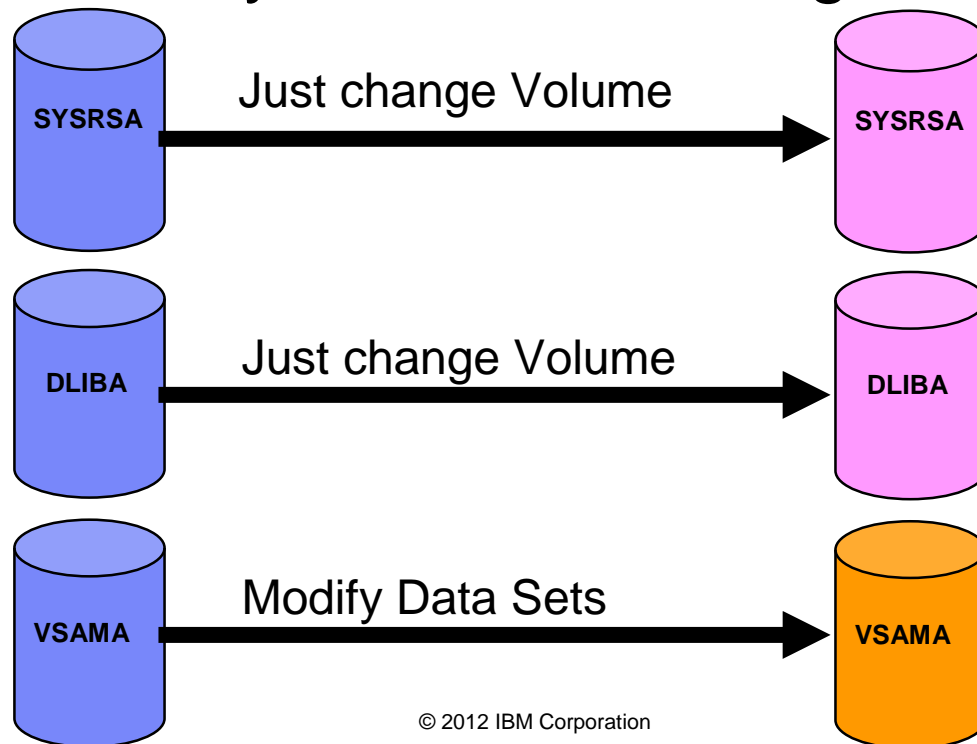
- Then it may be more efficient to change the volume serial on the Volumes page, than change them on the Data Sets page
  - Even though the Data Sets page is presented first in the configuration wizard
- If you want to rename select data sets (e.g., zFS or CSI data sets), then you should do that through the data sets portion of the wizard



## Software Deployment Hints and Tips

### ■ Deploying Volumes ...

–For example, if you have a SYSRES and a DLIB volume that you want to copy and you want to keep all the data set names the same and a third volume where you want to change data set names





### Configure Deployment for MFUSR01 SMP/E V3.6 with PTFs

- ✓ 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. Use the **Modify** action to modify them.

▼ Target Volumes

Actions <span>▼</span>											
Volume <a href="#">Filter</a>	Total Capacity (MB) <a href="#">Filter</a>	Current Allocated Space (MB) <a href="#">Filter</a>	Current Allocated Space (%) <a href="#">Filter</a>	Messages <a href="#">Filter</a>	Allocated Space After Deployment (MB) <a href="#">Filter</a>	Allocated Space After Deployment (%) <a href="#">Filter</a>	Allocated Space Delta (MB) <a href="#">Filter</a>	Planned Threshold (%) <a href="#">Filter</a>	Initialize Volume <a href="#">Filter</a>	Catalog Method <a href="#">Filter</a>	Indirect Catalog Entry Symbol <a href="#">Filter</a>
<input type="radio"/> SYSRSA	8514.05	6126.00	72		6210.20	73	84.20	85	No	Direct	
<input type="radio"/> DLIBA	8514.05	5413.40	64		5515.90	65	102.50	85	No	Direct	

Total: 2, Selected: 0

▶ Target Storage Classes

Last refresh: Jan 16, 2012 3:37:04 PM local time (Jan 16, 2012 8:37:04 PM GMT)

### Configure Deployment for MFUSR01 SMP/E V3.6 with I

1. Select the SYSRSA  
2. Then click Actions and Modify

- ✓ 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 table shows the current status of storage classes where each target data set or new user catalog will be installed. You can use the **Modify** action to modify them.

##### ▼ Target Volumes

Actions ▼



- Modify...**
- Configure Columns...
- Hide Filter Row
- Clear Filters
- Modify Sort...
- Clear Sorts

Current Allocated Space (MB) Filter	Current Allocated Space (%) Filter	Messages Filter	Allocated Space After Deployment (MB) Filter	Allocated Space After Deployment (%) Filter	Allocated Space Delta (MB) Filter	Planned Threshold (%) Filter	Initialize Volume Filter	Catalog Method Filter	Indirect Catalog Entry Symbol Filter
6126.00	72		6210.20	73	84.20	85	No	Direct	
5413.40	64		5515.90	65	102.50	85	No	Direct	

Total: 2, Selected: 1

##### ▶ Target Storage Classes

Refresh Last refresh: Jan 16, 2012 3:37:04 PM local time (Jan 16, 2012 8:37:04 PM GMT)

Welcome Deployment [Deployment](#) ▶ [Deploy Software](#) ▶ [Deployment Checklist](#) ▶ [Configure Deployment](#) ▶ [Modify Volume](#)

## Modify Volume SHRESA

\* Volume:

SYSRSA

Total capacity (MB):  
8514.05

Initialize volume:

 Yes No

Catalog method:

 Direct Indirect

Current allocated space:

MB:        %:  
6126.00    72

\* Planned threshold (%):



85 

Planned allocated space:

MB:        %:  
6210.20    73Allocated space delta (MB):  
84.20

OK

Cancel

Welcome Deployment [Deployment](#) ▶ [Deploy Software](#) ▶ [Deployment Checklist](#) ▶ [Configure Deployment](#) ▶ [Modify Volume](#)

## Modify Volume SHRESA

\* Volume:

SYSRSB

Total capacity (MB):  
8514.05

Initialize volume:

 Yes No

Catalog method:

 Direct Indirect

Current allocated space:

MB:        %:  
6126.00    72

\* Planned threshold (%):

85 

Planned allocated space:

MB:        %:  
6210.20    73Allocated space delta (MB):  
84.20

OK

Cancel

1. Change the Volume to SYSRSB
2. Then click OK



## Deploying Volumes ...

- **Note that you CAN use Modify Data Sets, you just have to:**
  1. Filter the data set list either by volume or data set name
  2. Select all
  3. Use Actions > Modify
  4. Then change the volume as desired





## Software Deployment Hints and Tips

### ■ Resuming Deployments

- You can leave the Software Deployment application at any time (e.g., close tabs, windows, browser, ...)
  - Progress is saved as of the last time you completed a step
    - o Clicked on OK or Finish (for a Wizard)
    - o Clicking Next in a Wizard is not considered a completed step for resuming a deployment
      - » in flight changes will be lost
- If you don't close the application cleanly, then you will still hold a z/OSMF lock
  - You or another user can:
    - o View the resource that is locked
    - o Obtain the lock to continue (or cancel) the deployment
- To resume a deployment you would select the deployment and click **Actions** and then **Modify**

Welcome mfusr01 Log out

Welcome Deployment

Deployment > Deploy Software Help


### Deploy Software

To deploy a software instance, define a new deployment.

Deployments:

Name	Description	Activity	Categories	Source Software Instance	Source System	Target Software Instance	Target Sys
Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
<input type="checkbox"/> MFUSR01 Deploy Lab 1	z/OSMF Software Deployment Lab Exercise 1 - deploy SMP/E V3.6 with PTFs (without DLIBs)					MFUSR01 SW Deployment Lab Tgt	LOCAL
<input checked="" type="checkbox"/> User Experience Hints and Tips	Software Deployment to demonstrate some hints and tips						LOCAL

**Warning**

 **IZUG1005W**  
 Resource "User Experience Hints and Tips" is currently being modified by user "MFUSR01" . It was locked Jan 17, 2012 10:34:21 PM (GMT). You can perform one of the actions listed below.

- Open the resource in view mode
- Obtain the lock for the resource and open the resource in modify mode. Before obtaining the lock, check with the user to avoid disrupting their work.

OK Cancel

**Pop up window to show what happens if you try to open a locked resource for update**  
**You must click to obtain the lock before you can resume the deployment**

Welcome ×Deployment ×

Deployment ▶ Deploy Software

[Help](#)

## Deploy Software

▼Messages × 0 ! 0 i 1

Close All

i **IZUD162I:** Deployment "User Experience Hints and Tips" was modified.Jan 17, 2012 5:33:17 PM ×

To deploy a software instance, define a new deployment.

Deployments:

  Actions ▼

Name <a href="#">Filter</a>	Description <a href="#">Filter</a>	Activity <a href="#">Filter</a>	Categories <a href="#">Filter</a>	Source Software Instance <a href="#">Filter</a>	Source System <a href="#">Filter</a>	Target Software Instance <a href="#">Filter</a>	Target Sys <a href="#">Filter</a>
<input type="checkbox"/> MFUSR01 Deploy Lab 1	z/OSMF Software Deployment Lab Exercise 1 - deploy SMP/E V3.6 with PTFs (without DLIBs)	Completed		MFUSR01 SMP/E V3.6 with PTFs	LOCAL	MFUSR01 SW Deployment Lab Tgt	LOCAL
<input checked="" type="checkbox"/> User Experience Hints and Tips	Software Deployment to demonstrate some hints and tips	In progress		MFUSR01 SMP/E V3.6 with PTFs	LOCAL		LOCAL

**Select the deployment that you want to resume**

Total: 2, Selected: 1

Refresh Last refresh: Jan 17, 2012 5:33:17 PM local time (Jan 17, 2012 10:33:17 PM GMT)

Close

Welcome

Deployment

Deployment > Deploy Software

Help

### Deploy Software

Messages 0 0 1

Close All

**IZUD162I:** Deployment "User Experience and Tips" was modified.

Jan 17, 2012 5:33:17 PM

To deploy a software instance, define a new deployment.

Deployments:

Name Filter	Activity Filter	Categories Filter	Source Software Instance Filter	Source System Filter	Target Software Instance Filter	Target System Filter
<input type="checkbox"/> MFUSR01 1	Completed		MFUSR01 SMP/E V3.6 with PTFs	LOCAL	MFUSR01 SW Deployment Lab Tgt	LOCAL
<input checked="" type="checkbox"/> User Experience and Tips	In progress		MFUSR01 SMP/E V3.6 with PTFs	LOCAL		LOCAL



**Click on Actions, and then Modify**

- Modify...
- View...
- Cancel...
- Remove...
- New...
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Filters
- Modify Sort...
- Clear Sorts

Total: 2, Selected: 1

Refresh Last refresh: Jan 17, 2012 5:33:17 PM local time (Jan 17, 2012 10:33:17 PM GMT)


Close

Welcome Deployment [Deployment](#) ▶ [Deploy Software](#) ▶ Deployment Checklist

## Deployment Checklist

To deploy a software instance, complete the checklist.

### Checklist

Progress	Step
✓	1. Specify the properties for this deployment.
✓	2. Select the software instance to deploy.
✓	3. Select the objects for this deployment.
✓	4. Check for missing SYSMODs. <a href="#">View missing SYSMOD reports.</a>
	5. Configure this deployment.
	6. Define the job settings. z/OSMF creates the deployment summary and jobs. <ul style="list-style-type: none"><li>• View the deployment summary.</li><li>• View the deployment jobs.</li></ul>
	7. Specify the properties for the target software instance.

You are brought back to the Deployment Checklist where you left off

[Close](#)





## Software Deployment Hints and Tips

- **Cancelling and Removing Deployments**
  - Only canceled or completed deployments can be removed
  - You can't remove (delete) deployments that are in progress
  - If you want to remove a deployment that is in progress, you will have to cancel it first

ty Welcome mfulsr01 Log out IBM

Welcome Deployment

Deployment Deploy Software Help

### Deploy Software

To deploy a software instance, define a new deployment.

Deployments:

Name Filter	Activity Filter	Categories Filter	Source Software Instance Filter	Source System Filter	Target Software Instance Filter	Target Sy: Filter
<input type="checkbox"/> MFUSR01 1	Completed		MFUSR01 SMP/E V3.6 with PTFs	LOCAL	MFUSR01 SW Deployment Lab Tgt	LOCAL
<input checked="" type="checkbox"/> User Exper and Tips	In progress		MFUSR01 SMP/E V3.6 with PTFs	LOCAL		LOCAL

**To attempt to remove an in progress deployment:**

- 1. Select the deployment to be removed**
- 2. Click on Actions, and then Remove**

Total: 2, Selected: 1

Refresh Last refresh: Jan 18, 2012 12:58:13 PM local time (Jan 18, 2012 5:58:13 PM GMT)

Close

Deployment > Deploy Software Help


### Deploy Software

To deploy a software instance, define a new deployment.

Deployments:

Name	Description	Activity	Categories	Source Software Instance	Source System	Target Software Instance	Target System
<input type="checkbox"/> MFUSR01 Deploy Lab 1	z/OSMF Software Deployment Lab Exercise 1 - deploy SMP/E V3.6 with PTFs (without DLIBs)					MFUSR01 SW Deployment Lab Tgt	LOCAL
<input checked="" type="checkbox"/> User Experience Hints and Tips	Software Deployment to demonstrate some hints and tips						LOCAL

**Warning**

 **IZUD203W**  
You are about to remove the selected deployments. Do you want to continue?

Selected deployments:

User Experience Hints and Tips

**Pop-up window to ask you if you know what you are doing and do you want to continue**

**See message that the deployment could not be removed because it was in progress**  
**Click on the Message ID to see full text**

Welcome Deployment

Deployment Deploy Software Help

### Deploy Software

▼Messages ✖ 1 ⚠ 0 ℹ 0 Close All

✖ **IZUD773E**: Deployment "User Experience Hints and Tips" cannot be removed because it is in progress. Jan 18, 2012 12:59:25 PM ✖

To deploy a software instance, define a new deployment.

Deployments:

Name	Description	Activity	Categories	Source Software Instance	Source System	Target Software Instance	Target Sys
<input type="checkbox"/> MFUSR01 Deploy Lab 1	z/OSMF Software Deployment Lab Exercise 1 - deploy SMP/E V3.6 with PTFs (without DLIBs)	Completed		MFUSR01 SMP/E V3.6 with PTFs	LOCAL	MFUSR01 SW Deployment Lab Tgt	LOCAL
<input checked="" type="checkbox"/> User Experience Hints and Tips	Software Deployment to demonstrate some hints and tips	In progress		MFUSR01 SMP/E V3.6 with PTFs	LOCAL		LOCAL

Total: 2, Selected: 1

Last refresh: Jan 18, 2012 12:58:13 PM local time (Jan 18, 2012 5:58:13 PM GMT)

Search:  GO [Search scope:](#) All topics

**Contents**

- IZUD733E
- IZUD740E
- IZUD741E
- IZUD743E
- IZUD750E
- IZUD751E
- IZUD752E
- IZUD753E
- IZUD770E
- IZUD771E
- IZUD772E
- IZUD773E**
- IZUD774E
- IZUD775E
- IZUD776E
- IZUD777E
- IZUD778E
- IZUD779E
- IZUD780E
- IZUD781E
- IZUD782E
- IZUD801I
- IZUD802I
- IZUD803I
- IZUD804I

[z/OSMF messages](#) > [IZUD0001-IZUD9999](#)

## IZUD773E

**Deployment *deployment-name* cannot be removed because it is in progress.**

### Explanation

The specified deployment cannot be removed because it is in progress. You can remove only canceled or completed deployments.

In the message text:

#### *deployment-name*

Name of the deployment.

### System programmer response

No action is required.

### User response

You can wait until the deployment is completed or cancel it, and then remove the deployment.

**Parent topic:** [IZUD0001-IZUD9999](#)



### Deploy Software

▼Messages ✖ 1 ⚠ 0 ℹ 0

**Close All**

✖ **IZUD773E:** Deployment "User Experience Hints and Tips" cannot be removed because it is in progress. Jan 18, 2012 12:59:25 PM ✖

To deploy a software instance, define a new deployment.

Deployments:

Name <small>Filter</small>	Activity <small>Filter</small>	Categories <small>Filter</small>	Source Software Instance <small>Filter</small>	Source System <small>Filter</small>	Target Software Instance <small>Filter</small>	Target Sys <small>Filter</small>
<input type="checkbox"/> MFUSR01 1	Completed		MFUSR01 SMP/E V3.6 with PTFs	LOCAL	MFUSR01 SW Deployment Lab Tgt	LOCAL
<input checked="" type="checkbox"/> User Exper and Tips	In progress		MFUSR01 SMP/E V3.6 with PTFs	LOCAL		LOCAL

- Modify...
- View...
- Cancel...**
- Remove...
- New...
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Filters
- Modify Sort...
- Clear Sorts

**To cancel an in progress deployment:**  
**1. Select the deployment to be canceled**  
**2. Click on Actions, and then Cancel**

Total: 2, Selected: 1

Refresh Last refresh: Jan 18, 2012 12:58:13 PM local time (Jan 18, 2012 5:58:13 PM GMT)

Close



Welcome mfusr01 Log out IBM

Welcome Deployment

Deployment Deploy Software Help

### Deploy Software

Messages 1 0 0 Close All


**IZUD773E:** Deployment "User Experience Hints and Tips" cannot be removed because it is in progress. Jan 18, 2012 12:59:25 PM

To deploy a software instance, define a new deployment

Deployments:

Name	Description	Target Software Instance	Target System
Filter	Filter	Filter	Filter
<input type="checkbox"/> MFUSR01 Deploy Lab 1	z/OSMF Software Deployment Lab Exercise 1 - deploy SMP/E V3.6 with PTFs (without DLIBs)	MFUSR01 SW Deployment Lab Tgt	LOCAL
<input checked="" type="checkbox"/> User Experience Hints and Tips	Software Deployment to demonstrate some hints and tips		LOCAL

**Confirm Cancel**

 **IZUD207W**  
You are about to cancel the selected deployments. Doing so releases the lock for the associated software instances. Consequently, you can only view or remove the deployments. You cannot undo this action. Do you want to continue?

Selected deployments:

User Experience Hints and Tips

OK Cancel

Total: 2, Selected: 1

Refresh Last refresh: Jan 18, 2012 12:58:13 PM local time (Jan 18, 2012)

Close

**Another pop-up window to ask you if you know what you are doing and do you want to continue**

**Clicking OK will cancel the deployment**

Deployment > Deploy Software

### Deploy Software

**See message that the deployment was canceled**

▼Messages Close All

- ✖ **IZUD773E:** Deployment "User Experience Hints and Tips" cannot be removed because it is in progress. Jan 18, 2012 12:59:25 PM ✖
- i **IZUD182I:** Deployment "User Experience Hints and Tips" was canceled. Jan 18, 2012 1:01:31 PM ✖

To deploy a software instance, define a new deployment.

#### Deployments:

Actions							
Name	Description	Activity	Categories	Source Software Instance	Source System	Target Software Instance	Target System
<input type="checkbox"/> MFUSR01 Deploy Lab 1	z/OSMF Software Deployment Lab Exercise 1 - deploy SMP/E V3.6 with PTFs (without DLIBs)	Completed		MFUSR01 SMP/E V3.6 with PTFs	LOCAL	MFUSR01 SW Deployment Lab Tgt	LOCAL
<input checked="" type="checkbox"/> User Experience Hints and Tips	Software Deployment to demonstrate some hints and tips	Canceled		MFUSR01 SMP/E V3.6 with PTFs	LOCAL		LOCAL

**Deployment canceled**

Total: 2, Selected: 1

Refresh Last refresh: Jan 18, 2012 1:01:32 PM local time (Jan 18, 2012 6:01:32 PM GMT)

Close

ty Welcome mfulsr01 Log out IBM

Welcome Deployment

Deployment Deploy Software Help

### Deploy Software

To deploy a software instance, define a new deployment.

Deployments:

Name Filter	Activity Filter	Categories Filter	Source Software Instance Filter	Source System Filter	Target Software Instance Filter	Target Sy: Filter
<input type="checkbox"/> MFUSR01 1	Completed		MFUSR01 SMP/E V3.6 with PTFs	LOCAL	MFUSR01 SW Deployment Lab Tgt	LOCAL
<input checked="" type="checkbox"/> User Exper and Tips	In progress		MFUSR01 SMP/E V3.6 with PTFs	LOCAL		LOCAL

Actions

- Modify...
- View...
- Cancel...
- Remove...
- New...
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Filters
- Modify Sort...
- Clear Sorts

Total: 2, Selected: 1

Refresh Last refresh: Jan 18, 2012 12:58:13 PM local time (Jan 18, 2012 5:58:13 PM GMT)

Close

**To attempt to remove an in progress deployment:**

- 1. Select the deployment to be removed**
- 2. Click on Actions, and then Remove**

Deployment ▸ Deploy Software [Help](#)


## Deploy Software

To deploy a software instance, define a new deployment.

Deployments:

Name	Description	Activity	Categories	Source Software Instance	Source System	Target Software Instance	Target System
<input type="checkbox"/> MFUSR01 Deploy Lab 1	z/OSMF Software Deployment Lab Exercise 1 - deploy SMP/E V3.6 with PTFs (without DLIBs)					MFUSR01 SW Deployment Lab Tgt	LOCAL
<input checked="" type="checkbox"/> User Experience Hints and Tips	Software Deployment to demonstrate some hints and tips						LOCAL

**Warning**

 **IZUD203W**  
You are about to remove the selected deployments. Do you want to continue?

Selected deployments:

User Experience Hints and Tips

**Click OK to remove the deployment**

Total: 2, Selected: 1

Last refresh: Jan 18, 2012 12:58:13 PM local time (Jan 18, 2012 5:58:13 PM GMT)

Welcome

Deployment

Deployment > Deploy Software

### Deploy Software

**See message that the deployment was removed**

Messages 1 0 2

Close All

- IZUD773E:** Deployment "User Experience Hints and Tips" cannot be removed because it is in progress. Jan 18, 2012 12:59:25 PM
- IZUD182I:** Deployment "User Experience Hints and Tips" was canceled. Jan 18, 2012 1:01:31 PM
- IZUD172I:** Deployment "User Experience Hints and Tips" was removed. Jan 18, 2012 1:01:55 PM

To deploy a software instance, define a new deployment.

Deployments:

Actions

Name Filter	Description Filter	Activity Filter	Categories Filter	Source Software Instance Filter	Source System Filter	Target Software Instance Filter	Target System Filter
<input type="checkbox"/> MFUSR01 Deploy Lab 1	z/OSMF Software Deployment Lab Exercise 1 - deploy SMP/E V3.6 with PTFs (without DLIBs)	Completed		MFUSR01 SMP/E V3.6 with PTFs	LOCAL	MFUSR01 SW Deployment Lab Tgt	LOCAL

Total: 1, Selected: 0

Refresh Last refresh: Jan 18, 2012 1:01:56 PM local time (Jan 18, 2012 6:01:56 PM GMT)

Close





## Software Deployment Hints and Tips

- **Submitting Deployment jobs**
  - Do **NOT** edit the generated jobs
    - You should make your changes using the dialog to configure your deployment
    - Editing the copy job will cause it to fail





## Navigation Hints and Tips

- **Never use the Browser Back button**
  - Use the “bread crumbs” instead
- **In general, the Enter key doesn’t advance the dialog**
  - You need to click on links or action buttons to advance
- **Never use blanks in software instance, deployment, or category names**
  - You can use national characters, or underscores (“\_”)
  - Software instance, deployment, and an category names (if used) will be resource names for security
    - The security profile resource names can’t contain blanks

Do **NOT** use the browser Back button

## IBM z/OS Management

You **CAN** use the “bread crumbs” to jump backward

- Welcome
- + Configuration
- + Links
- + Performance
- + Problem Determination
- Software
  - Deployment
- + z/OS Classic Interfaces

Refresh

Welcome Deployment

[Deployment](#) ▶ [Deploy Software](#) ▶ Deployment Checklist

### Deployment Checklist

To deploy a software instance, complete the checklist.

#### Checklist

Progress	Step
✓	1. <a href="#">Specify the properties for this deployment.</a>
✓	2. <a href="#">Select the software instance to deploy.</a>
✓	3. <a href="#">Select the objective for this deployment.</a>
✓	4. <a href="#">Check for missing SYSMODs.</a> <ul style="list-style-type: none"><li><a href="#">View missing SYSMOD reports.</a></li></ul>
⇒	5. <a href="#">Configure this deployment.</a>
	6. Define the job settings. z/OSMF creates the deployment summary and jobs. <ul style="list-style-type: none"><li><a href="#">View the deployment summary.</a></li><li><a href="#">View the deployment jobs.</a></li></ul>
	7. <a href="#">Specify the properties for the target software instance.</a>

Close



## Navigation Hints and Tips ...

- **In multi-tab summary displays, don't click OK until you've viewed all tabs**
  - If you do you may want to close the current window and select the link for the summary display to see any remaining tabs.
  
- **In table displays where you want to perform multiple actions, don't click OK (or Next) until all your updates have been made**
  - If you do you may get error or warning messages if additional changes are required

Welcome ✕Deployment ✕[Deployment](#) ▶ [Deploy Software](#) ▶ [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 instance: MFUSR01 SMP/E V3.6 with PTFs on system LOCAL

Target system: LOCAL

Deployment objective: Create new software instance, connect to existing global zone

SMP/E Zones

Volumes

Data Sets to Delete

Data Sets to Add

Data Sets to Replace

Catalogs

Catalog Aliases

Catalog Entries To Delete

Catalog Entries To Add

Catalog Entries To Update

Volumes

Volume	Initialize Volume	Data Sets to Delete	Data Sets to Add	Data Sets to Replace
SHRESB			Yes	
SHRESA			Yes	

**Don't click OK until you've opened all the tabs above**

OK



### Configure Deployment for MFUSR01 SMP/E V3.6 with PTFs

- ✓ Welcome
- ✓ DLIBs
- ✓ Model
- ✓ SMP/E Zones
- ➔ **Data Sets**

- Catalogs
- Volumes and Storage Classes
- Mount Points

#### 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

Target Data Set Name <small>Filter</small>	Target Volume <small>Filter</small>	Target Storage Class <small>Filter</small>	Messages <small>Filter</small>	Source Data Set Name <small>Filter</small>	Source Volumes <small>Filter</small>	Source Storage Class <small>Filter</small>
<input checked="" type="checkbox"/> ZOSMF2.SMPE36N.GIM.MACLIB	SHRESA			ZOSMF.SMPE36P.GIM.MACLIB	SHR002	SHARE
<input checked="" type="checkbox"/> ZOSMF2.SMPE36N.GIM.MIGLIB	SHRESA			ZOSMF.SMPE36P.GIM.MIGLIB	SHR004	SHARE
<input checked="" type="checkbox"/> ZOSMF2.SMPE36N.GIM.NONSMP.DATA	SHRESA			ZOSMF.SMPE36P.GIM.NONSMP.DATA	SHR003	SHARE
<input checked="" type="checkbox"/> ZOSMF2.SMPE36N.GIM.SAMPLIB	SHRESA			ZOSMF.SMPE36P.GIM.SAMPLIB	SHR005	SHARE
<input checked="" type="checkbox"/> ZOSMF2.SMPE36N.GIM.SGIMCLS0	SHRESA			ZOSMF.SMPE36P.GIM.SGIMCLS0	SHR003	SHARE
<input checked="" type="checkbox"/> ZOSMF2.SMPE36N.GIM.SGIMLMD0	SHRESA			ZOSMF.SMPE36P.GIM.SGIMLMD0	SHR001	SHARE
<input checked="" type="checkbox"/> ZOSMF2.SMPE36N.GIM.SGIMMENU	SHRESA			ZOSMF.SMPE36P.GIM.SGIMMENU	SHR002	SHARE
<input checked="" type="checkbox"/> ZOSMF2.SMPE36N.GIM.SGIMPENU	SHRESA			ZOSMF.SMPE36P.GIM.SGIMPENU	SHR002	SHARE
<input checked="" type="checkbox"/> ZOSMF2.SMPE36N.GIM.SGIMSENU	SHRESA			ZOSMF.SMPE36P.GIM.SGIMSENU	SHR002	SHARE
<input checked="" type="checkbox"/> ZOSMF2.SMPE36N.GIM.SGIMTENU	SHRESA			ZOSMF.SMPE36P.GIM.SGIMTENU	SHR001	SHARE
<input type="checkbox"/> ZOSMF.SWDEPLOY.SMPE36P.ZFS		SHARE		ZOSMF.SWDEPLOY.SMPE36P.ZFS	SHR005	SHARE
<input type="checkbox"/> ZOSMF.SWDEPLOY.TARGET.SMPE36P.CSI		SHARE		ZOSMF.SWDEPLOY.TARGET.SMPE36P.CSI	SHR005	SHARE
<input type="checkbox"/> ZOSMF.SWDEPLOY.TARGET.SMPE36P.SMPL		SHARE		ZOSMF.SWDEPLOY.TARGET.SMPE36P.SMPL	SHR003	SHARE
<input type="checkbox"/> ZOSMF.SWDEPLOY.TARGET.SMPE36P.SMPL		SHARE		ZOSMF.SWDEPLOY.TARGET.SMPE36P.SMPL	SHR001	SHARE
<input type="checkbox"/> ZOSMF.SWDEPLOY.TARGET.SMPE36P.SMPL		SHARE		ZOSMF.SWDEPLOY.TARGET.SMPE36P.SMPL	SHR005	SHARE
<input type="checkbox"/> ZOSMF.SWDEPLOY.TARGET.SMPE36P.SMPM		SHARE		ZOSMF.SWDEPLOY.TARGET.SMPE36P.SMPM	SHR003	SHARE
<input type="checkbox"/> ZOSMF.SWDEPLOY.TARGET.SMPE36P.SMPS		SHARE		ZOSMF.SWDEPLOY.TARGET.SMPE36P.SMPS	SHR001	SHARE
<input type="checkbox"/> ZOSMF.SWDEPLOY.TARGET.SMPE36P.SMPS		SHARE		ZOSMF.SWDEPLOY.TARGET.SMPE36P.SMPS	SHR004	SHARE

Total: 18, Selected: 10

**Don't click Next until you've completed all your changes**



# Summary

## ■ Recent Enhancements

- Support for unmounted z/OS UNIX file system data sets
- Support for deployment configuration copy
- Support for granular control over which users can view and modify deployment task artifacts

## ■ Software Deployment Hints and Tips

- Deploying volumes
- Resuming deployments
- Cancelling and removing deployments
- Submitting the deployment jobs

## ■ Navigation Hints and Tips

- Never use the Browser Back button
- In general, the Enter key doesn't advance the dialog
  - Use Action Buttons and links instead
- Never use blanks in software instance, deployment, or category names
- In multi-tab summary displays, don't click OK until you've viewed all tabs





Thank You



## Additional Information

- **z/OS Management Facility website**
  - <http://ibm.com/systems/z/os/zos/zosmf/>
- **IBM z/OS Management Facility education modules in IBM Education Assistant**
  - <http://publib.boulder.ibm.com/infocenter/ieduasst/stgv1r0/index.jsp>
    - Scroll down to z/OS Management Facility
- **z/OS Hot Topics, Issue 21 and 23:**
  - [http://ibm.com/systems/z/os/zos/bkserv/hot\\_topics.html](http://ibm.com/systems/z/os/zos/bkserv/hot_topics.html)
- **IBM z/OS Management Facility Configuration Guide (SA38-0652)**
  - Renamed from IBM z/OS Management Facility User's Guide in z/OSMF V1.12
- **IBM WebSphere Application Server OEM Edition for z/OS Configuration Guide, Version 7.0 (GA32-0631)**
- **Program Directory for z/OS Management Facility (GI11-2886)**
- **IBM z/OS Management Facility License Information (GC52-1263)**



## Trademarks

**The following are trademarks of the International Business Machines Corporation in the United States and/or other countries.**

IBM*	ServerPac*	* Registered trademarks of IBM Corporation
IBM (logo)	WebSphere*	
RACF*	z/OS*	

**The following are trademarks or registered trademarks of other companies.**

Adobe, the Adobe logo, PostScript, and the PostScript logo are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States, and/or other countries.

Firefox is a trademark of Mozilla Foundation

Cell Broadband Engine is a trademark of Sony Computer Entertainment, Inc. in the United States, other countries, or both and is used under license there from.

Java and all Java-based trademarks are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

Internet Explorer is a trademark of Microsoft Corp

InfiniBand is a trademark and service mark of the InfiniBand Trade Association.

Intel, Intel logo, Intel Inside, Intel Inside logo, Intel Centrino, Intel Centrino logo, Celeron, Intel Xeon, Intel SpeedStep, Itanium, and Pentium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

ITIL is a registered trademark, and a registered community trademark of the Office of Government Commerce, and is registered in the U.S. Patent and Trademark Office.

IT Infrastructure Library is a registered trademark of the Central Computer and Telecommunications Agency, which is now part of the Office of Government Commerce.

\* All other products may be trademarks or registered trademarks of their respective companies.

### Notes:

Performance is in Internal Throughput Rate (ITR) ratio based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput that any user will experience will vary depending upon considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput improvements equivalent to the performance ratios stated here.

IBM hardware products are manufactured from new parts, or new and serviceable used parts. Regardless, our warranty terms apply.

All customer examples cited or described in this presentation are presented as illustrations of the manner in which some customers have used IBM products and the results they may have achieved. Actual environmental costs and performance characteristics will vary depending on individual customer configurations and conditions.

This publication was produced in the United States. IBM may not offer the products, services or features discussed in this document in other countries, and the information may be subject to change without notice. Consult your local IBM business contact for information on the product or services available in your area.

All statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only.

Information about non-IBM products is obtained from the manufacturers of those products or their published announcements. IBM has not tested those products and cannot confirm the performance, compatibility, or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

Prices subject to change without notice. Contact your IBM representative or Business Partner for the most current pricing in your geography.

See url <http://www.ibm.com/legal/copytrade.shtml> for a list of IBM trademarks.