Installing ISV Mainframe Products through a Web Browser with CA MSM: Update and User Experiences

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CSC – Global Outsourcing Services

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Session 11840
Agenda

• Environment overview
• MSM installation history and issues
• MSM users
• MSM features used
• Migrating CSIs into MSM
• Acquiring and maintaining software
• Installing software with MSM
• Deploying software with MSM
• MSM Hints and Tips
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Client Environment

- 5 CPCs: 4 z196 + 1 z10 (one z196 is a SA CF)
- About 50,000 MIPs installed (including zAAPs and zIIPs)
- 3 prod parallel sysplexes with 3/6/9 LPARs, 1 basic prod sysplex with 2 LPARs, 1 devl parallel sysplex with 2 LPARs, 2 sandbox parallel sysplexes with 2 LPARs, 3 monoplex prod LPARs. 1 monoplex sandbox LPAR.
- About 140 TB of DASD, 90TB replicated to DR site
- About 700TB of virtual tape, 100% replicated to DR site (tapeless environment).
Client Environment

- GRS used for integrity for most of the shop
- All sharing is sysplex in scope except in one case where MIM is used in place of GRS to facilitate sharing a subset of catalogs and DASD between a prod / devl sysplex.
- Shared DASD string for common install libraries between the companies and sysplexes.
- ISV products installed on secondary / tertiary sysres volume and indirectly cataloged with symbollics, i.e. “&ISV01”.
Client Environment

• Over 75 ISV program products supported by the OS team. Closer to 100 if IBM products are included.
• About 30 CA products currently in use. May be more in the near future as a cost cutting measure for the account.
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MSM History at Client Site

• First installed MSM R2 in December 2009
  • I became interested after seeing MSM at SHARE in Denver
  • CA wanted to come on-site to do the install with me, but I installed it on my own
• Install was on a z/OS 1.10 RACF system
  • Initially had a problem with unix program control attributes after unwinding pre-validation pax file. Fixed via “extattr +p” unix cmd
  • Installation was completed in a couple of days
• After initial startup of R2 and catalog tree update, I only saw a few products. The problem was related to my account settings on the CA Support web site. Product display options must be set to “Branded Products” & “my products” empty.
MSM History at Client Site

• Security…
  • Implemented with internal security at first.
  • Enabled external security about one month later after RACF CDT changes were made + IPL (CDT still in asm/lnk lmod format)
  • RACF team implemented definitions per samples in the MSM manual. “MVS” team ADMINS, others are USERS or no access.
  • Easy to switch back and forth if needed via environment variable in hlq.SAMPLIB(MSMLIB)

• Installed in sandbox first, then re-installed in production
  • Sandbox was removed and subsequent upgrades have only been done in production.
  • We run a single MSM instance and install to shared DASD to support the entire shop.
MSM History at Client Site

- LPAR chosen to run MSM in production was based on:
  - Capacity - largest sysplex in the environment, most DASD.
  - FTP JESINTERFACELEVEL=2 already implemented (install requirement)
  - “Less critical” production online regions + “TSO LPAR”. Same LPAR where we typically logon to TSO and install software in that sysplex.
  - Access to zAAP(s) due to heavy WAS workload on another LPAR on the CPC. Added a single zAAP LP to the LPAR for MSM’s use.
- I check for new MSM maintenance levels regularly, so many different maintenance upgrades to R2 were installed (I still do this with the currently installed release, but not as often).
MSM History at Client Site

• Shop Uses Sysplex Sharing of Unix File Systems
  • Found I had some performance issues because some of the zFS files MSM used as R/W were not owned by the MSM LPAR. Corrected by adding some SETOMVS FILESYS commands to the MSMTC started task:

```
/MSMTC PROC
*---------------------------------------------------------------------**
* Commands to ensure MSM file systems are owned by the LPAR
* that the tomcat server is running on.
*
COMMAND 'SETOMVS FILESYS,FILESYSTEM="SYSTEMS.OMVS.CA.MSM.R2.ROOT.ZFS",SYSNAME=YESNAME'
COMMAND 'SETOMVS FILESYS,FILESYSTEM="SYSI.CA.MSM.R2.MSMINST.ZFS",SYSNAME=YESNAME'
COMMAND 'SETOMVS FILESYS,FILESYSTEM="SYSI.CA.MSM.R2.SETUP.ZFS",SYSNAME=YESNAME'
COMMAND 'SETOMVS FILESYS,FILESYSTEM="SYSTEMS.OMVS.DOWNLOAD.ZOS.ZFS",SYSNAME=YESNAME'
*---------------------------------------------------------------------**
```

• Had a long list of issues / suggestions I discussed with development after using the product for a while
MSM History at Client Site

• Upgraded from R2 to R3 in June 2010
  • Had to download / install Java V6 as a pre-req. MSM still has its own Java V6 zFS today even though it could share.
  • Painless install / migration - done in one day
  • Saw a number of my issues / suggestions implemented in R3
  • Tested deployment function. Not compatible with indirect cataloging (more later on this).
• Implemented new consent banner with USS MSG10 text

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I have read and consent to the terms
MSM History at Client Site

• Upgraded from R3 to R4.1 in January 2012
  • Caused a problem with CA-11 due to refreshing MSM’s Datacom SVC for a new level of Datacom (R12 vs. R11)
    • Datacom’s XCF communications always uses the lowest number SVC at the proper level, so CA-11’s Datacom was using MSM’s SVC on the MSM LPAR for this function without me knowing it.
    • Upgrade checklist said the same SVC number could be chosen
  • Lesson learned: Always use a new SVC number if the Datacom level changes with an MSM upgrade.
  • I plan to use an SVC number for MSM’s Datacom higher than the “product solutions” Datacom next install so the other Datacom won’t ever use MSM’s SVC for XCF when running the same Datacom levels.
MSM History at Client Site

• Initially installed MSM 4.1 using CCS R11 SP08 + CETN300
• Ambiguous information from release notes and various installation documentation if CETN400 was really required.
• Appeared that CETN400 was only required for Software Configuration Service (SCS) – which was not my main interest in installing R4.1. (deployment with “cat=no” was)
• Tested deployment function again without cataloging output
  • Still didn’t work as advertised
  • PTFs suggested from MSM support, but still didn’t work
  • Eventually needed to upgrade Common Services CETN300 to CETN400, and then it functioned as advertised.
• Currently running CCS R12 + CETN400
MSM History at Client Site

• Per recommendation from the best practices guide, I decided to reorg MSM’s Datacom database after my 4.1 upgrade:

The best practices manual states the following:

After you apply maintenance to your product using CA MSM, we recommend that you reorganize your database. Reorganizing your database improves overall access to data the next time you use CA MSM. Use the database reorganization backup and load process to reclaim space and reposition data.

Follow these steps:

1. Stop the CA MSM application server (RCF STOP MSMTC)
2. Stop the CA Datacom/MSM server (RCF STOP MSMDBSRV)
3. Verify that your CA MSM multi-user facility (MSMMUF) is active.
4. Submit the JOB B4KBKUP - copied from msmlq.JCL(B4KBKUP)  
The job B4KBKUP creates a current backup of the CA Datacom/MSM database 4000 to a sequential file on the disk.
5. Submit JOB B4KLOAD - copied from msmlq.JCL(B4KLOAD)  
   Important! You must execute the job B4KLOAD immediately following the job B4KBKUP.
6. Start the CA Datacom/MSM server (RCF START MSMDBSRV)
7. Start the CA MSM application server (RCF START MSMTC)
MSM History at Client Site

• After I restarted MSM, many functions were broken.
• Luckily I had my own DFDSS logical backup that I took prior to the reorg. I run this job prior to any MSM maintenance - even though CA provides a job to back out a “deploy” (deploy is the method of taking the MSM SMP/E maintained code and copying it to the MSM run-time environment).
• After opening an issue with MSM support, who worked with Datacom support, it was found there were missing “CONFIRM” statements in the Datacom reorg reload job. The required changes were related to 4.1 (and perhaps 4.0 also, I’m not sure) and the sample job was never changed nor tested by CA. A PTF was released to update the samples after I verified the fix worked in my environment.
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MSM Users

- Used by the OS team only ("MVS" and "VTAM")
  - Positioned for use by other teams, but today virtually all CA products are maintained by the MVS team. Comm Server team currently maintains only one CA product (CA Spool).
  - Myself and one other local person I trained were the only users at first, but I gave several training sessions over the web to the rest of the OS staff supporting the client.
  - Time savings benefit realized immediately via migration of existing SMP/E CSIs into MSM for a number of CA products that we used and were also supported via MSM at the time.
MSM Users

- Adoption / acceptance immediately from most of the OS staff, especially from a co-worker of mine that is the primary support for installation and maintenance for a majority of the CA products used.
- Some resistance from one team member – until they actually tried it when pressed to get an install done quickly.
- Gave additional training sessions about a year ago to new off shore staff supporting the client. That staff has an average of about 6 years z/OS systems programming experience. The “newbies” seem to like MSM as much as I do.
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MSM Features Used at Client Site

• MSM is only used for software acquisition, installation and maintenance of products. Deployment is not used and I haven’t set up nor tested the configuration service.
  • Tried using deployment in R3, but it didn’t work due to local requirement of creating uncataloged output data sets on a secondary maintenance sysres that gets cloned with the IBM OS sysres. While testing I found that “live” cataloged data sets could or would be inadvertently updated (ouch!).
  • MSM 4.0 (never installed) + CETN400 resolved this issue.
  • MSM 4.1 (currently installed) has deployment working for uncataloged data sets, but has only been active since late January and I haven’t trained people on deployment yet.
MSM Features Used at Client Site

• I’m not sure that I will train / encourage people to use deployment at this site:
  • Since we deploy to shared DASD, sysprogs already have batch FDRCOPY/DFDSS jobs to deploy that are quicker and probably easier than MSM, so this may be a hard sell.
  • With batch jobs, we often deploy a subset of target libraries, not all. For example, samplibs and macro libs may not be deployed as runtime on our ISV sysres since they may only be used for installation and take up unnecessary space on the volume. Data sets can be added with MSM deployment but not omitted.
  • Indirectly cataloging has to be done regardless – although it is a “one time thing” unless new data sets are added with an upgrade or names are changed by CA (there has been a lot of that lately).
Products Maintained via MSM at Client

- Initially migrated existing CSIs into MSM as maintenance needed to be applied for existing software versions.
- Subsequent CA software installs / upgrades all done via MSM after MSM implementation and training.
- Currently about 20 CA products in MSM
- At this point most CA software “owned” by the OS team is maintained via MSM.
- Most CA software is no longer installed locally, but MSM is still used for maintaining software via CSI migration and software acquisition.
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MSM Usage – Migrating Existing CSIs
MSM Usage – Migrating Existing CSIs

CA Mainframe Software Manager™

Logged in as: SYS3E (Log Out)

Software Status | Software Catalog | SMP/E Environments | Deployments | Configurations | System Registry | Tasks | Settings

Search

Search In:

Actions

Migrate an Existing CSI

SMP/E Environments

Expand

SMP/E Environments

- ACF2 15.0 GSES SOE
- ACF2IMS 15.0 GSES SOE
- CA Spool r11.7
- CA Vantage Release 12.6 - GSES
- CA-Allocate GSES SOE
- CA-CCS 12.0 GSES SOE
- CA-Copycat Release 12.0 - GSES
- CA-Datacom/AD 12.0 GSES SOE
- CA-View R11.5
- DATACOM AD R12
- Deliver 11.5
- Easytrieve 11.5 Test (for deployment)
MSM Usage – Migrating Existing CSIs

1. Define the CSI data set you want to migrate and the CSI name.

   CSI Name: ACF2 R14 SP1
   CSI Data Set: SYSICA.ACF2.R14SP1.GLOBAL.CSI
MSM Usage – Migrating Existing CSIs

The migrated CSI contains the following functions:

- CX1E000
- CX1E010
- CX1E018
- CX8E000
MSM Usage – Migrating Existing CSIs
MSM Usage – Migrating Existing CSIs

The following USS paths specified by CSI DDDEFs were found. Select the USS file systems that you want to add as managed product USS file systems. Only those file systems that are mounted exactly on the path specified by the DDDEF are discovered and can be selected.

Information: There are no USS file systems used by DDDEFs in the CSI.
MSM Usage – Migrating Existing CSIs

The following zones were found for the migrated CSI. Specify zone prefixes (the global zone prefix is defined automatically).

<table>
<thead>
<tr>
<th>Zones</th>
<th>Data Set / Prefix</th>
<th>Type</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exists</td>
<td>SYSI.CA.ACF2.R14SP1.GLOBAL.CSI</td>
<td>Distribution</td>
<td>CAID</td>
</tr>
<tr>
<td>Prefix*</td>
<td>SYSI.CA.ACF2.R14SP1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data Set</td>
<td>SYSI.CA.ACF2.R14SP1.GLOBAL.CSI</td>
<td>Target</td>
<td>CAIT</td>
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<td>Prefix*</td>
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</tr>
<tr>
<td>Data Set</td>
<td>SYSI.CA.ACF2.R14SP1.GLOBAL.CSI</td>
<td>Global</td>
<td>GLOBAL</td>
</tr>
<tr>
<td>Prefix</td>
<td>SYSI.CA.ACF2.R14SP1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
MSM Usage – Migrating Existing CSIs
MSM Usage – Migrating Existing CSIs

CSI Migration

1. CSI Data Set Selection
2. CSI Functions
3. Zone DDDEFs
4. File Systems
5. Zone Prefixes
6. Advanced Settings
7. Summary

This step lets you review the CSI migration settings you have specified before starting the migration. To start the migration, click Migrate.

<table>
<thead>
<tr>
<th>Zone Name</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAID</td>
<td>Distribution</td>
</tr>
<tr>
<td>CAIT</td>
<td>Target</td>
</tr>
</tbody>
</table>
MSM Usage – Migrating Existing CSIs
MSM Usage – Migrating Existing CSIs

### CA Mainframe Software Manager™

Logged in as: SYS39 (Log Out)

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</thead>
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<tr>
<td>Show: All tags</td>
<td>Show Working Set Only</td>
<td>Upgrade CA RSE Level</td>
<td>Exception SYSMOD Report</td>
<td>Show All</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Select and: Use as Working Set</td>
<td>Set Automatic Update</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</table>

<table>
<thead>
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<th>Name</th>
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<th>Tags</th>
<th>Actions</th>
</tr>
</thead>
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<td>ACF2 15.0 GSES SOE</td>
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<td>✔</td>
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<td></td>
<td>CA Spool r11.7</td>
<td>SYSI.CA.SPOOL.R117.CSI</td>
<td>dave</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>CA Vantage Release 12.6 - GSES</td>
<td>MVSSMPS.SAMVANTG.V12R6M0.CSI</td>
<td>migrated,zos113soe,thulasi</td>
<td>Actions</td>
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<tr>
<td></td>
<td>CA-Allocate GSES SOE</td>
<td>MVSSMPS.SAMALLOC.V12R5M0.CSI</td>
<td>migrated, bob,zos113soe</td>
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<td>MVSSMPS.DATCOMAD.V12.CSI</td>
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<td>Actions</td>
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<td>SYSI.CA.DATACOM.AD.R12.CSI</td>
<td>bob</td>
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</table>
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MSM Usage – Acquiring Software

CA Mainframe Software Manager™

Logged in as: SYS35 (Log Out)

Software Status | Software Catalog | SMP/E Environments | Deployments | Configurations | System Registry | Tasks | Settings

Search
Search For:
Search In:
Products

Actions
Update Catalog Tree
Add
Inet
Add CA RS File
Update HOLDDATA

Filter
Show:
All

Available Products

Vendor

Vendor information

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>CA</td>
<td>One CA Plaza, Islandia, NY 11749</td>
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</table>

Refresh
Show All

Complete your sessions evaluation online at SHARE.org/AnaheimEval
MSM Usage – Acquiring Software
MSM Usage – Acquiring Software

CA Mainframe Software Manager™

Logged in as: SYS39 (Log Out)

Software Status  Software Catalog  SMP/E Environments  Deployments  Configurations  System Registry  Tasks  Settings

Search
Search For:
ACF2
Search In:
Products

Actions
Update Catalog Tree
Show LMP Keys
Add Product
Install External Package
Add CA 55 File
Update HOLDDATA

Filter
Show:
All

Available Products
- CA 7 Workload Automation
- Smart Console Option - MV5
- CA ACF2 - MV5
- 14.0
- SP01
- 15.0
- CA ACF2 Option for DB2 - MV5
- CA ADS Alive Option - MV5

MAINTENANCE PACKAGES

14.0
Products > CA > CA ACF2 - MV5 > 14.0

Add External Maintenance  Refresh

Maintenance Packages

<table>
<thead>
<tr>
<th>Product</th>
<th>Show</th>
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<tbody>
<tr>
<td>All</td>
<td>All for current release</td>
<td>Install</td>
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Selected 0 of 0.

Related SMP/E Environments

Refresh

This table shows the SMP/E environments to which you can install the maintenance listed in the Maintenance Packages table.

Select and: Update Working Set

Selected 0 of 0.
MSM Usage – Acquiring Software

CA Mainframe Software Manager™

Logged in as: SYS35 (Log Out)

Software Status Software Catalog SMP/E Environments Deployments Configurations System Registry Tasks Settings

Search
Search For: ACF2
Search In: Products

Actions
Update Catalog Tree
Show LMP Keys
Add Product
Install External Package
Add CA RS File
Update HOLDDATA

Filter
Show: All

Available Products
- CA 7 Workload Automation
- Smart Console Option - MVS
- CA ACF2 - MVS
  - 14.0
  - SP01
- 15.0
- CA ACF2 Option for DB2 - MVS

SP01
Products > CA > CA ACF2 - MVS > 14.0 > SP01
Base Install Packages
Show: All
Select and: Download

Select 0 of 0.
MSM Usage – Acquiring Software

CA Mainframe Software Manager™

Logged in as: SYS35 (Loc Out)

Search
Search For:
ACF2
Search In:
Products

Actions
Update Catalog Tree
Show LMP Keys
Add Product
Install External Package
Add CA RS File
Update HOLDDATA

Filter
Show:
All

Available Products

- CA 7 Workload Automation
  Smart Console Option - MVS
- CA ACF2 - MVS
  - 14.0
    - SP01
  - 15.0
- CA ACF2 Option for DB2 - MVS

CA ACF2 - MVS

Products > CA > CA ACF2 - MVS

Releases

Select and: Update Catalog Releases

<table>
<thead>
<tr>
<th>Select</th>
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<td>0</td>
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<td>15.0</td>
<td></td>
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<td></td>
</tr>
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</table>

Selected 0 of 2.

Actions
Update Catalog Release
Product Documentation
MSM Usage – Acquiring Software
MSM Usage – Acquiring Software

Acquiring CA ACF2 - MVS 14.0

26%

1027 - Getting Product/Release Information - Downloading RO32101.BIN (size of 65280 bytes).

General | Progress
--- | ---
Name: Acquiring CA ACF2 - MVS 14.0
Task ID: 1027
User ID: SYS35
Status: Executing
Status: 1027 - Getting Product/Release Information - Downloading RO32101.BIN (size of 65280 bytes).

Acquiring CA ACF2 - MVS 14.0

100%

Succeeded

General | Progress
--- | ---
Name: Acquiring CA ACF2 - MVS 14.0
Task ID: 1027
User ID: SYS35
Status: Succeeded
Status Message: Succeeded
MSM Usage – Maintaining Software

CA Mainframe Software Manager™

Logged in as: SYS35 (Log Out)

Software Status | Software Catalog | SMP/E Environments | Deployments | Configurations | System Registry | Tasks | Settings

Search

Search For:

ACF2

Search In:

Products

Actions

Update Catalog Tree

Show LMP Keys

Add Product

Install External Package

Add CA R5 File

Update HGLLDDATA

Filter

Show:

All

Edit

Available Products

- CA 7 Workload Automation
  - Smart Console Option - MVS
- CA ACF2 - MVS
- 14.0
  - SP01
- 15.0
- CA ACF2 Option for DB2 - MVS
- CA ADS Alive Option - MVS

SP01

Products > CA > CA ACF2 - MVS > 14.0 > SP01

Base install Packages

Add External Package

Show:

All

Select and: Download

<table>
<thead>
<tr>
<th>Select</th>
<th>Name</th>
<th>Last Modified Date</th>
<th>Type</th>
<th>Download Status</th>
<th>Size</th>
<th>Release/Gen Level</th>
<th>Actions</th>
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</thead>
<tbody>
<tr>
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<td>Jan 4, 2012</td>
<td>Base Install</td>
<td>Yes</td>
<td>709 Kb</td>
<td>14.0/AT01</td>
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<tr>
<td></td>
<td>ACF2 PRODUCT MAINT LETTER</td>
<td>Feb 26, 2010</td>
<td>PDF</td>
<td>Yes</td>
<td>207 Kb</td>
<td>14.0/SP01</td>
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<td>CA ACF2 PRODUCT PACKAGE</td>
<td>Aug 22, 2011</td>
<td>Base Install</td>
<td>Yes</td>
<td>40 Mb</td>
<td>14.0/SP01</td>
<td>Actions▼</td>
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<td>CA COMMON SERVICES COVER LTR</td>
<td>Jun 26, 2012</td>
<td>PDF</td>
<td>Yes</td>
<td>187 Kb</td>
<td>14.1/0000</td>
<td>Actions▼</td>
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<tr>
<td></td>
<td>CA LDAP SERVER - ESD ONLY</td>
<td>Feb 4, 2010</td>
<td>Base Install</td>
<td>Yes</td>
<td>13 Mb</td>
<td>14.0/SP01</td>
<td>Actions▼</td>
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<td></td>
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<td>Feb 28, 2011</td>
<td>PDF</td>
<td>Yes</td>
<td>291 Kb</td>
<td>14.0/SP01</td>
<td>Actions▼</td>
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<tr>
<td></td>
<td>CA MSM COVER LETTER</td>
<td>May 16, 2012</td>
<td>PDF</td>
<td>Yes</td>
<td>182 Kb</td>
<td>5.0/0000</td>
<td>Actions▼</td>
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<td>CA MSM PRE VAL UTIL - ESD ONLY</td>
<td>May 30, 2012</td>
<td>Base Install (Non SMP/E)</td>
<td>Yes</td>
<td>3 Mb</td>
<td>5.0/0000</td>
<td>Actions▼</td>
</tr>
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</table>
MSM Usage – Maintaining Software

CA Mainframe Software Manager™

Logged in as: SYS36 (Log Out)

Software Status | Software Catalog | SMP/E Environments | Deployments | Configurations | System Registry | Tasks | Settings

Search
Search For:
ACF2
Search In:
Products

Actions
Update Catalog Tree
Show LMP Keys
Add Product
Install External Package
Add CA RS File
Update HOLDDATA

Filter
Show:
All

Available Products
- CA 7 Workload Automation
- Smart Console Option - MVS
- CA ACF2 - MVS
- CA ACF2 Option for DB2 - MVS
- CA ADS Alive Option - MVS

CA ACF2 - MVS

Releases
Select and: Update Catalog Releases

<table>
<thead>
<tr>
<th>Select</th>
<th>Release Name</th>
<th>New HIPERs</th>
<th>New Maintenance</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>14.0</td>
<td>48</td>
<td>381</td>
<td>Actions</td>
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<tr>
<td></td>
<td>15.0</td>
<td>0</td>
<td>0</td>
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</tbody>
</table>

Selected 0 of 2.
MSM Usage – Maintaining Software

CA Mainframe Software Manager™

Logged in as: SYS15 (Log Out)

14.0

Maintenance Packages

Show: All
Select and: Install

Products > CA > CA ACF2 - MVS > 14.0

Select: Fix # Description Confirmed Date Type Installed Actions
- R030286 TA9051B: SEVERAL ERRORS IN ACF2 HELP DATA May 10, 2011 FTF
- R025582 TA9053B: ORPHANED LSQA SP255 XRLT BLOCKS Dec 21, 2010 HIPER FTF
- R035811 TA9057B: Z/OS 1.13 COMPATIBILITY CHANGES Oct 3, 2011 FTF
- R035830 TA9057S: Z/OS 1.13 COMPATIBILITY CHANGES Oct 3, 2011 FTF
- R026012 TA9052S: ACF00119 TRYING TO INSERT A REALM RECORD Jan 12, 2011 FTF
- R032249 TA9065B: MINOR ERRORS IN CIA UNLOAD PROCESS Jun 30, 2011 FTF
- R032008 TA9065B: SB78 ACF60CME Jul 10, 2011 FTF

Actions

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MSM Usage – Maintaining Software

CA Mainframe Software Manager™

Logged in as: SYS35 (Log Out)

Software Status | Software Catalog | SMP/E Environments | Deployments | Configurations | System Registry | Tasks | Settings

---

**ACF2 R14 SP1**

SMP/E > ACF2 R14 SP1:
- Installed Products
- CSI Information
- Maintenance
- Pending Installations

Maintenance View Criteria

Selected Zones: CAIT, CAID
Selected Functions: No scope defined
Edit

Maintenance

Select one or more maintenance packages to be executed.

Show: No CA RS filter

Select and:
- Install
- Receive
- Apply
- Apply GROUPEXTEND
- Accept
- Accept GROUPEXTEND
- Reject
- Restore

Filter:

<table>
<thead>
<tr>
<th>Select</th>
<th>Fix #</th>
<th>Type</th>
<th>Description</th>
<th>Function</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>R008970</td>
<td>PTF</td>
<td>TA8572B: S378-1C ACFRPRTL ACF4ERRL</td>
<td>CX1E000</td>
<td>Superseded</td>
</tr>
<tr>
<td></td>
<td>R008999</td>
<td>PTF</td>
<td>TA8539B: BAD PROMPT FOR LOGONID W/MODIFY FAILURE</td>
<td>CX1E000</td>
<td>Superseded</td>
</tr>
<tr>
<td></td>
<td>R010159</td>
<td>HIPER PTF</td>
<td>TA6615B: SUBPOOL 230 STORAGE LEAK</td>
<td>CX1E000</td>
<td>Superseded</td>
</tr>
<tr>
<td></td>
<td>R010160</td>
<td>PTF</td>
<td>TA86588: UPDATES FOR CMGR AND DB2 ROLE SUPPORT</td>
<td>CX1E000</td>
<td>Superseded</td>
</tr>
</tbody>
</table>

---

Complete your sessions evaluation online at SHARE.org/AnaheimEval

2012
### MSM Usage – Maintaining Software

<table>
<thead>
<tr>
<th>Select</th>
<th>Fix #</th>
<th>Type</th>
<th>Description</th>
<th>Function</th>
<th>Status</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RO40586</td>
<td>PTF</td>
<td>TA9252S: INIT_ACEE RETURN CODE 8/8:4 ON IDID PARM</td>
<td>CX8E000</td>
<td>Not received</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>RO40671</td>
<td>PTF</td>
<td>TA9231S: PKI SERVICES GENCERT NOT BEFORE 12/31</td>
<td>CX8E000</td>
<td>Not received</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>RO40672</td>
<td>PTF</td>
<td>TA8536S: SAFHACF: SKIP INVALID DIRECTORY NAMES</td>
<td>CX8E000</td>
<td>Not received</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>RO40728</td>
<td>PTF</td>
<td>TA9215S: SAFOESMF SOC4 ON INIT_ACEE WITH IDID_AREA</td>
<td>CX8E000</td>
<td>Not received</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>RO40730</td>
<td>PTF</td>
<td>TA9188B: UNIX DATA SET ACCESS SUPPORT</td>
<td>CX1E000</td>
<td>Not received</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>RO40731</td>
<td>PTF</td>
<td>TA9188S: UNIX DATA SET ACCESS SUPPORT</td>
<td>CX8E000</td>
<td>Not received</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>RO40883</td>
<td>PTF</td>
<td>TA9258S: UNABLE TO CHKCCERT/INSERT CERTIFICATE</td>
<td>CX8E000</td>
<td>Not received</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>RO41003</td>
<td>PTF</td>
<td>TA9288S: ENVIRONIN INIT_ACEE SPURIOUS 8/8:4 RETCODE</td>
<td>CX8E000</td>
<td>Not received</td>
<td>Actions</td>
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</table>
### MSM Usage – Maintaining Software

<table>
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<th>Fix #</th>
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<td>Actions</td>
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<td>R040671</td>
<td>PTF</td>
<td>TA9231S: PKI SERVICES GENCERT NOT BEFORE 12/31</td>
<td>CX8E000</td>
<td>Not received</td>
<td>Actions</td>
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<tr>
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<td>R040672</td>
<td>PTF</td>
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<td>Actions</td>
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<td>PTF</td>
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<tr>
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<td>Actions</td>
</tr>
<tr>
<td>✓</td>
<td>R040883</td>
<td>PTF</td>
<td>TA9258S: UNABLE TO CHKCERT/INSERT CERTIFICATE</td>
<td>CX8E000</td>
<td>Not received</td>
<td>Actions</td>
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<tr>
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<td>PTF</td>
<td>TA9288S: ENVIRONIN INIT_ACEE SPURIOUS 8/8:4 RETCODE</td>
<td>CX8E000</td>
<td>Not received</td>
<td>Actions</td>
</tr>
</tbody>
</table>
MSM Usage – Maintaining Software

Introduction

You are about to install the following maintenance packages:
RO40586, RO40671, RO40672, RO40728, RO40730, RO40731, RO40883, RO41003, RO41347,
RO41349, RO42867, RO44181, RO44259, RO44886, RO45404, RO45538, RO45968, RO46780,
RO46838, RO46839, RO47067, RO47398, RO47434, RO47493, RO47494, RO48180, RO48202

Review your selection in the following screens, select CSIs where the maintenance will be installed to
and provide installation schedule. To continue click the Next button.
MSM Usage – Maintaining Software
MSM Usage – Maintaining Software

Select CSIs

- Select CSIs where the maintenance packages will be installed to.

<table>
<thead>
<tr>
<th>Select</th>
<th>Name</th>
<th>CSI Data Set</th>
<th>Zones</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACF2 R14 SP1</td>
<td>SYSI.CA.ACF2.R14SP1.GLOBAL.CSI</td>
<td>Automatic</td>
<td>Select Zones</td>
</tr>
</tbody>
</table>

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MSM Usage – Maintaining Software

Maintenance Installation - SYS1.CA.ACF2.R14SP1.GLOBA...

1. Introduction
2. Select Maintenance
3. Select CSIs
4. Select Options
5. Prerequisites
6. HOLDDATA
7. SMP/E Work DDDEFs
8. Summary

Installation options
- Perform RECEIVE and APPLY on selected maintenance items.

Select installation mode
- RECEIVE and APPLY
- RECEIVE and APPLY CHECK
- RECEIVE, APPLY CHECK and APPLY
- RECEIVE only

Back Next Install Cancel Help
MSM Usage – Maintaining Software

Prerequisites

Review prerequisites that will be installed together with maintenance packages that you have selected.

<table>
<thead>
<tr>
<th>PTF</th>
<th>Available</th>
<th>CSIs without this required PTF</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

No prerequisites need to be installed.
MSM Usage – Maintaining Software

HOLDDATA

Review all HOLDDATA. HOLDDATA other than the error HOLDDATA that are selected will be bypassed.

++HOLD (RO40730)
PMID (CX1E000)
SYSTEM
REASON (ACTION)
COMMENT (SMP APPLY and IPL with CLPA required to install this API)

NOTE: For zFS filesystem users:

See Knowledge Document TEC559459 on support.ca.com or informational solution RI38633 for important information
ZFS file system setup / considerations for z/OS 1.12 and
New resource class FSACCESS per IBM apar OA35970 /OA35970 requires resource rules to be written before applying the
MSM Usage – Maintaining Software
MSM Usage – Maintaining Software

Summary

SYSM0Ds that cannot be APPLIED because they are SUPERSEDED or have ERROR/HOLDATA
RO40728 RO41003 RO40586
Selected Maintenance Packages
RO40586 - TA9252S: INIT_ACEE RETURN CODE 8/8:4 ON IDID PARM
RO40671 - TA9231S: PKI SERVICES GENCERT NOT BEFORE 12/31
RO40672 - TA85365: SAFHFACF: SKIP INVALID DIRECTORY NAMES
RO40728 - TA92155: SAFCESMF S0C4 ON INIT_ACEE WITH IDID_AREA
RO40730 - TA9188B: UNIX DATA SET ACCESS SUPPORT
RO40731 - TA9188S: UNIX DATA SET ACCESS SUPPORT
RO40883 - TA9258S: UNABLE TO CHKCERT/INSERT CERTIFICATE
RO41003 - TA9288S: ENVIRON IN INIT_ACEE SPORIOUS 8/8:4 RETCODE
RO41347 - TA9218B: DIFFERENT MSG FOR ACFNRULE NO-RULE COND.
RO41349 - TA9288T: CORRECT PRE/SUP LIST FOR RO41003/TA9288S
RO42867 - TA9307B: CICS-DRIVEN RACROUTE EXTRACT NOT REJECTED
RO44181 - TA9030S: 0C4 AT OFFSET 'X'866' IN CAS4BL0L
RO44259 - TA9203B: 0C4 OFFSET X'444' ACFFCC205
RO44886 - TA9294B: INCORRECT OMVS USER PROCESSING
RO45404 - TA9207B: MAKE ACF8CSNCN AMODE(31) RMODE(24)
RO45538 - TA9309B: VSAM AUTOERASE BYPASSED WITH Z/OS 1.13

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MSM Usage – Maintaining Software

![Software Maintenance Monitors (SMMS) screens showing installation progress and success messages for a series of task IDs.](image)
Agenda

• Environment overview
• MSM installation history and issues
• MSM users
• MSM features used
• Migrating CSIs into MSM
• Acquiring and maintaining software
• Installing software with MSM
• Deploying software with MSM
• MSM Hints and Tips
MSM Usage – Installing Software

CA Mainframe Software Manager™

Logged in as: SYS35 (Log Out)

<table>
<thead>
<tr>
<th>Software Status</th>
<th>Software Catalog</th>
<th>SMP/E Environments</th>
<th>Deployments</th>
<th>Configurations</th>
<th>System Registry</th>
<th>Tasks</th>
<th>Settings</th>
</tr>
</thead>
</table>

Search

Search For:
- mim

Search In:
- Products

Actions

- Update Catalog Tree
- Show LMP Keys
- Add Product
- Install External Package
- Add CA RS File
- Update HOLDDATA

Filter

Show:
- All

Available Products

- CA MIM Resource Sharing - MVS
  - 11.6
  - 11.7
  - 11.8
  - 0000
  - 11.9

CA MIM Resource Sharing - MVS

Products > CA > CA MIM Resource Sharing - MVS

Releases

Select and: Update Catalog Releases

<table>
<thead>
<tr>
<th>Select</th>
<th>Release Name</th>
<th>New HIPERs</th>
<th>New Maintenance</th>
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<tbody>
<tr>
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<td>11.6</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>11.7</td>
<td>0</td>
<td>0</td>
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<td>11.8</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>11.9</td>
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<td>0</td>
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</tbody>
</table>

Selected 0 of 4.

Update Catalog Release
Product Documentation

Actions

- Show All
- Update Catalog Releases
- Actions
MSM Usage – Installing Software

CA Mainframe Software Manager™

Search
Search For:
mim
Search In:
Products

Actions
Update Catalog Tree
Show LMP KEYS
Add Product
Install External Package
Add CA RS File
Update HOLDDATA

Filter
Show:
All

Available Products
- CA MIM Resource Sharing - MVS
  - 11.6
  - 11.7
  - 11.8
  - 0000
  - 11.9

Base Install Packages
Show: All
Select and: Download

Select
Name
Last Modified Date
Type
Download Status
Size
Release/Gen Level
Actions

- CA COMMON SERVICES COVER LTR
  - Jun 30, 2011
  - PDF
  - Yes
  - 211 Kb
  - 14.0/0000

- CA MIM PRODUCT PACKAGE
  - May 19, 2011
  - Base Install
  - Yes
  - 2 Mb
  - 11.8/0000

- CA MIM COVER LETTER
  - Nov 2, 2011
  - PDF
  - Yes
  - 180 Kb
  - 4.1/0000

- CA MSM PRE-VAL UTIL-ESD ONLY
  - Nov 7, 2011
  - Base Install (Non SMP/E)
  - Yes
  - 3 Mb
  - 4.1/0000

- CA MSM PRE-VALIDATION INSTR
  - Nov 22, 2011
  - PDF
  - Yes
  - 183 Kb
  - 4.1/0000

- CA MSM PRODUCT PKG-ESD ONLY
  - Nov 7, 2011
  - Base Install (Non SMP/E)
  - Yes
  - 245 Mb
  - 4.1/0000

Complete your sessions evaluation online at SHARE.org/AnaheimEval
MSM Usage – Installing Software

Welcome
Welcome to the CA MSM Base Installation Wizard. This wizard will guide you through the steps required to install the following product:
CA MIM(TM) Resource Sharing for z/OS 11.8.0  CA Inc.

Product README instructions for this installation
MSM Usage – Installing Software

Installation Type Selection

Installation types represent sets of predefined product features.

**Installation Types**

<table>
<thead>
<tr>
<th>Select</th>
<th>Installation Types</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Base Install</strong></td>
</tr>
</tbody>
</table>

**Base Install:**
This will install CA MIM(TM) Resource Sharing for z/OS r11.8
MSM Usage – Installing Software

Installation Prerequisites Report

This step displays all prerequisite products and/or functions that must already be installed in order to successfully install the selected product features.

<table>
<thead>
<tr>
<th>Prerequisites</th>
<th>Feature</th>
<th>Products</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

There are no prerequisites.
MSM Usage – Installing Software

Target SMP/E CSI Selection

This step lets you select an SMP/E CSI where the selected product features should be installed. You can either select an existing CSI from your working set, or create a new SMP/E CSI.

Create a New SMP/E CSI:
This option lets you create and setup a new SMP/E CSI to install the product to.

CSIs

- Available only
- Whole Working Set

Select

- Create a New SMP/E CSI
- ACF2 R14 SP1
MSM Usage – Installing Software

| **Name***: | MIM 11.8 SP0 |
| Data Set Name | SYSI.CA.MIM.R118SP0 |
| Prefix*: | .CSI |
| **Catalog** | |
| **Cross-Region**: | 2 |
| **Cross-System**: | 3 |

**SMP/E Data Sets Allocation Parameters**

- **High-Level Qualifier**: SYSI.CA.MIM.R118SP0
- **DSN Type**: PDS
- **SMS Parameters**
  - **Storage Class**: VOLSER: SYSMT1
  - **Management Class**: Unit*: 3390
  - **Data Class**: Catalog: YES
MSM Usage – Installing Software

This step lets you enter additional parameters necessary to set up the target SMP/E CSI and optionally override the allocation parameters of SMP/E data sets.

Use SMS

Storage Class*: [Enter value]

Unit*: SYSALLDA

Management Class:

Data Class:

<table>
<thead>
<tr>
<th>Name</th>
<th>Data Set Name</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMPLOG</td>
<td>SYSI.CA.MIM.R118SP0.SMPLOG</td>
<td>Override</td>
</tr>
<tr>
<td>SMPLOGA</td>
<td>SYSI.CA.MIM.R118SP0.SMPLOGA</td>
<td>Override</td>
</tr>
<tr>
<td>SMPPTS</td>
<td>SYSI.CA.MIM.R118SP0.SMPPTS</td>
<td>Override</td>
</tr>
</tbody>
</table>
MSM Usage – Installing Software

This step lets you select the Target zone where the selected product features should be installed.

Create a New SMP/E Target Zone:
Select this option to create and set up a new SMP/E Target zone to be used by this product.
MSM Usage – Installing Software

![Diagram of software installation process](image-url)
MSM Usage – Installing Software

This step lets you enter additional parameters necessary to set up the Target zone and optionally override the allocation parameters of Target libraries.

<table>
<thead>
<tr>
<th>Name</th>
<th>Data Set Name</th>
<th>Action</th>
</tr>
</thead>
<tbody>
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<td>SMPLTS</td>
<td>SYSI.CA.MIM.R118SP0.SMPLTS</td>
<td>Override</td>
</tr>
<tr>
<td>SMPMTS</td>
<td>SYSI.CA.MIM.R118SP0.SMPMTS</td>
<td>Override</td>
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<tr>
<td>SMPSCDS</td>
<td>SYSI.CA.MIM.R118SP0.SMPSCDS</td>
<td>Override</td>
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<tr>
<td>SMPST5</td>
<td>SYSI.CA.MIM.R118SP0.SMPST5</td>
<td>Override</td>
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<td>CBTDCLS0</td>
<td>SYSI.CA.MIM.R118SP0.CBTDCLS0</td>
<td>Override</td>
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<tr>
<td>CBTDEZTM</td>
<td>SYSI.CA.MIM.R118SP0.CBTDEZTM</td>
<td>Override</td>
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<td>CBTDENU</td>
<td>SYSI.CA.MIM.R118SP0.CBTDENU</td>
<td>Override</td>
</tr>
<tr>
<td>CBTDJCL</td>
<td>SYSI.CA.MIM.R118SP0.CBTDJCL</td>
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</tr>
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<td>CBTDLDOA</td>
<td>SYSI.CA.MIM.R118SP0.CBTDLDOA</td>
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<tr>
<td>CBTDMAC</td>
<td>SYSI.CA.MIM.R118SP0.CBTDMAC</td>
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<tr>
<td>CBTDMSEN</td>
<td>SYSI.CA.MIM.R118SP0.CBTDMSEN</td>
<td>Override</td>
</tr>
</tbody>
</table>
MSM Usage – Installing Software

Distribution Zone Selection

Create a New SMP/E Distribution Zone:
Select this option to create and set up a new SMP/E Distribution zone to be used by this product.
MSM Usage – Installing Software
### MSM Usage – Installing Software

**Distribution Zone Parameters**

This step lets you enter additional parameters necessary to set up the Distribution zone and optionally override the allocation parameters of Distribution libraries.

<table>
<thead>
<tr>
<th>Name</th>
<th>Data Set Name</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABTDCLS0</td>
<td>SYSI.CA.MIM.R118SP0.ABTDCLS0</td>
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<td>ABTDEZTM</td>
<td>SYSI.CA.MIM.R118SP0.ABTDEZTM</td>
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<td>ABTDEZTR</td>
<td>SYSI.CA.MIM.R118SP0.ABTDEZTR</td>
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<tr>
<td>ABTDSAMP</td>
<td>SYSI.CA.MIM.R118SP0.ABTDSAMP</td>
<td>Override</td>
</tr>
</tbody>
</table>
MSM Usage – Installing Software

Summary

Installation Types
Selected Installation Type:
Base Install - CA MIM(TM) Resource Sharing for z/OS r11.8

CSIs
Selected CSI:
Create a New SMP/E CSI - A new SMP/E CSI will be created for this installation.

CSI Definition
Name: MIM 11.8 SP0
Data Set Name: SYSI.CA.MIM.R118SP0.CSI
Data Sets Prefix: SYSI.CA.MIM.R118SP0

Target Zones
Selected Target Zone:
Create a New SMP/E Target Zone - A new SMP/E Target zone will be created for this installation.

CSI Definition
Name: CAIT0
Data Set Name: SYSI.CA.MIM.R118SP0.CSI
Data Sets Prefix: SYSI.CA.MIM.R118SP0

Distribution Zones
Selected Distribution Zone:
MSM Usage – Installing Software

![Diagram showing installation process and status]

- **50%**
  - Executing SMP/E APPLY - Waiting for GIMSMP
- **100%**
  - Succeeded
MSM Usage – Installing Software: Output

![Image of installation output](image-url)
MSM Usage – Installing Software: Output

CA MIM(TM) Resource Sharing for z/OS 11.8.0 (SQ...}

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Description</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pre-installation report</td>
<td>Gathering and writing pre-installation report about the ongoing installation.</td>
<td>Succeeded</td>
</tr>
<tr>
<td>2</td>
<td>Create CSI SYSI.CA.MIM.R118SP0.CSI</td>
<td>Allocating CSI VSAM dataset SYSI.CA.MIM.R118SP0.CSI</td>
<td>Succeeded</td>
</tr>
<tr>
<td>3</td>
<td>Data Set Allocation</td>
<td>Allocating datasets SYSI.CA.MIM.R118SP0.CSI</td>
<td>Succeeded</td>
</tr>
<tr>
<td>4</td>
<td>Initialize CSI</td>
<td>Executing SMP/E commands using GIMSP program.</td>
<td>Succeeded</td>
</tr>
<tr>
<td>5</td>
<td>Executing SMP/E RECEIVE</td>
<td>Executing SMP/E commands using GIMSP program.</td>
<td>Succeeded</td>
</tr>
<tr>
<td>6</td>
<td>Executing SMP/E APPLY</td>
<td>Executing SMP/E commands using GIMSP program.</td>
<td>Succeeded</td>
</tr>
<tr>
<td>7</td>
<td>Executing SMP/E ACCEPT</td>
<td>Executing SMP/E commands using GIMSP program.</td>
<td>Succeeded</td>
</tr>
<tr>
<td>8</td>
<td>Add product to CSI</td>
<td>Executing SMP/E commands using GIMSP program.</td>
<td>Succeeded</td>
</tr>
<tr>
<td>9</td>
<td>Repository Manager update</td>
<td>Inserting new SMP/E Repository and installed functionality.</td>
<td>Succeeded</td>
</tr>
<tr>
<td>10</td>
<td>Post installation cleanup</td>
<td>Cleaning temporary directories and datasets.</td>
<td>Succeeded</td>
</tr>
</tbody>
</table>

Complete your sessions evaluation online at SHARE.org/AnaheimEval
### MSM Usage – Installing Software: Output

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Compressed size</th>
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<tbody>
<tr>
<td>0001-Pre-installation_report</td>
<td>File folder</td>
<td></td>
</tr>
<tr>
<td>0002-Create_CSI_SYSI.CA.MIM.R1</td>
<td>File folder</td>
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</tr>
<tr>
<td>0003-Data_Set_Allocation</td>
<td>File folder</td>
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<td>0004-Initialize_CSI</td>
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<tr>
<td>0005-Executing_SMP_E_RECEIVE</td>
<td>File folder</td>
<td></td>
</tr>
<tr>
<td><strong>0006-Executing_SMP_E_APPLY</strong></td>
<td><strong>File folder</strong></td>
<td></td>
</tr>
<tr>
<td>0007-Executing_SMP_E_ACCEPT</td>
<td>File folder</td>
<td></td>
</tr>
<tr>
<td>0008-Add_product_to_CSI</td>
<td>File folder</td>
<td></td>
</tr>
<tr>
<td>0009-Repository_Manager_update</td>
<td>File folder</td>
<td></td>
</tr>
<tr>
<td>0010-Post_installation_cleanup</td>
<td>File folder</td>
<td></td>
</tr>
<tr>
<td>Task_Status.txt</td>
<td>Text Document</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>19780-SMPOUT.txt</td>
<td>Text Document</td>
</tr>
<tr>
<td><strong>19781-SMPRPT.txt</strong></td>
<td><strong>Text Document</strong></td>
</tr>
<tr>
<td>19784-SYSPRINT.txt</td>
<td>Text Document</td>
</tr>
<tr>
<td>19787-messageLog.txt</td>
<td>Text Document</td>
</tr>
<tr>
<td>Command_Status.txt</td>
<td>Text Document</td>
</tr>
</tbody>
</table>
MSM Usage – Installing Software: Output
# MSM Usage – Installing Software

## SMP/E Environments
- **ACF2 R14 SP1**
- **ACF2IMS 15.0 GSES SOE**
- **CA Spool r11.7**
- **CA Vantage Release 12.6 - GSES**
- **CA-Allocate GSES SOE**
- **CA-CCS 12.0 GSES SOE**
- **CA-Copycat Release 12.0 - GSES**
- **CA-Datacom/AD 12.0 GSES SOE**
- **CA-View R11.5**
- **DATACOM AD R12**
- **Deliver 11.5**
- **Easytrieve 11.5 Test (for deployment)**
- **File Master Plus - MVS R8.5**
- **Jobtrac 11.0**
- **MIM 11.8 SP0**
- **MIM 11.8 SP0 - GSES SOE**
- **MSM Release 4.1**
- **SYSVIEW 13.0 - GSES SOE**

### Table

<table>
<thead>
<tr>
<th>Environment</th>
<th>Description</th>
<th>User(s)</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACF2 R14 SP1</strong></td>
<td>SYSI.CA.ACF2.R14SP1.GLOBAL.CSI</td>
<td>mark, migrated</td>
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<tr>
<td><strong>ACF2IMS 15.0 GSES SOE</strong></td>
<td>MVSSMPS.ACF2IMS.R15.CSI</td>
<td>mark, migrated, zos113soe</td>
<td></td>
</tr>
<tr>
<td><strong>CA Spool r11.7</strong></td>
<td>SYSI.CA.SPOOL.R117.CSI</td>
<td>dave</td>
<td></td>
</tr>
<tr>
<td><strong>CA Vantage Release 12.6 - GSES</strong></td>
<td>MVSSMPS.SAMVANTG.V12R6M0.CSI</td>
<td>migrated, zos113soe, thulasi</td>
<td></td>
</tr>
<tr>
<td><strong>CA-Allocate GSES SOE</strong></td>
<td>MVSSMPS.SAMALLOC.V12R5M0.CSI</td>
<td>migrated, bob, zos113soe</td>
<td></td>
</tr>
<tr>
<td><strong>CA-CCS 12.0 GSES SOE</strong></td>
<td>MVSSMPS.CAS9.R12.CSI</td>
<td>migrated, bob, zos113soe</td>
<td></td>
</tr>
<tr>
<td><strong>CA-Copycat Release 12.0 - GSES</strong></td>
<td>MVSSMPS.COPYCAT.V12R0M0.CSI</td>
<td>migrated, bob, zos113soe</td>
<td></td>
</tr>
<tr>
<td><strong>CA-Datacom/AD 12.0 GSES SOE</strong></td>
<td>MVSSMPS.DATCOMAD.V12.CSI</td>
<td>migrated, bob</td>
<td></td>
</tr>
<tr>
<td><strong>CA-View R11.5</strong></td>
<td>SYSI.CA.VIEW.R115.GLOBAL.CSI</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DATACOM AD R12</strong></td>
<td>SYSI.CA.DATACOM.AD.R12.CSI</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Deliver 11.5</strong></td>
<td>SYSI.CA.DELIVER.R115.GLOBAL.CSI</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Easytrieve 11.5 Test (for deployment)</strong></td>
<td>SYSI.CA.EZT.R115.TEST.CSI</td>
<td></td>
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</tr>
<tr>
<td><strong>File Master Plus - MVS R8.5</strong></td>
<td>SYSI.CA.FILEMSTR.R85.GLOBAL.CSI</td>
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</tr>
<tr>
<td><strong>Jobtrac 11.0</strong></td>
<td>SYSI.CA.JOBTAC.R11.CSI</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MIM 11.8 SP0</strong></td>
<td>SYSI.CA.MIM.R118SP0.CSI</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Actions**
- Add to Working Set
- Change Name
- Edit Tags
- Set Automatic Update
- Upgrade CA RS Level
- Delete CSI Data Sets
- Exception SYSMOD Report
- Remove CSI from CA MSM
- Create Deployment

---

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SHARE in Anaheim 2012
MSM Usage – Installing Software

![Software Installation Settings](image.png)
### MSM Usage – Installing Software

<table>
<thead>
<tr>
<th>Message</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYSI.CA.MIM.R118SP0.ABTDCLS0</td>
<td>SYSTM1</td>
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<td>SYSI.CA.MIM.R118SP0.ABTDJCL</td>
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<td>SYSI.CA.MIM.R118SP0.ABTDME</td>
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<td>SYSTM1</td>
</tr>
</tbody>
</table>

*End of Data Set list*
Agenda

- Environment overview
- MSM installation history and issues
- MSM users
- MSM features used
- Migrating CSIs into MSM
- Acquiring and maintaining software
- Installing software with MSM
- **Deploying software with MSM**
- MSM Hints and Tips
MSM Usage – Deployment

- If you haven’t done so already, you need to install Common Services component CETN300 or CETN400. This contains the code for the Software Deployment Service (SDS). CETN400 is included with CCS R14 but needs to be downloaded if you are running R11 or R12.
- Two started task called “CCISPNSV” & “CCIDSCSV” need to be set up on the target LPAR(s) you will deploy to.
- CETN400 needs to be installed to support the creation of output datasets without cataloging.
- CETN400 is also required for the Software Configuration Service (SCS).
MSM Usage – Deployment

- To start, first set up the system registry and then configure the data destinations.
MSM Usage – Deployment

Edit Data Destination

Information: Name this data destination then choose transmission method and remote allocation data.

General

- Name*: SYSMZ1
- Description: ISV Maintenance sysres

Transmission Method: Shared DASD
- Mount Point*: /products/prod/msm/ms
- Storage Class:
- VOLSER: SYSMZ1

Remote Allocation Data

- GIMUNZIP Volume*: SYSMZ1
- Catalog Data Sets: NO
- Unit: SYSALLDA
- zFS Candidate Volumes: SYSMZ1

Save  Cancel  Help
MSM Usage – Deployment

• Maintain / Create a methodology
MSM Usage – Deployment

[Image of an MSM Usage Deployment window]

- **Information**: Name the methodology, provide data set name mask, and select the style of deployment.
- **Methodology Information**
  - **Name**: MIM
  - **Description**: MiM Methodology
- **Data Set Name Mask**
  - SYSS.CA.MIM.TEST
- **Style of Deployment**
  - Create Only
  - Create or Update
  - Replace

[buttons: Save, Cancel, Help]
MSM Usage – Deployment
MSM Usage – Deployment

For those of you familiar with FDR, a nice methodology enhancement would be to enable the use of a PLUS (+), MINUS (-) or PERIOD (.) in the mask to add, subtract or skip levels when creating the mask for the new name. For example, a common naming convention is to change the HLQ for runtime libraries (compared to install) and drop the version number. Here is how FDR does it:

```
SELECT  CATDSN=SYSI.CA.MIM.R118SP0.CBT**, NEWI=SYSS...-.
```

Output DSNs are created as SYSS.CA.MIM.CBT**

The equivalent MSM mask would be: SYSS...-.  

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MSM Usage – Deployment

- Create a deployment
MSM Usage – Deployment

Introduction
Welcome to the CA MSM deployment wizard. This wizard will guide you through the steps required to deploy one or more products to one or more systems.

Note: You can save your deployment at any step in this wizard.

Deployment Identification
Name*: MIM 11.8 SP0
Description:

Select a CSI.

CSIs to Deploy

Select | CSI Name
--- | ---
- | CA-Datacom/AD 12.0 GSES SOE
- | CA-View R11.5
- | DATACOM AD R12
- | Deliver 11.5
- | Easytrieve 11.5 Test (for deployment)
- | File Master Plus - MVS R8.5
- | Jobtrac 11.0
- | MIM 11.8 SP0
MSM Usage – Deployment

The following products are available from the selected CSI. You can add more products after this deployment is created. See the help topic Add products.

Products to Deploy

<table>
<thead>
<tr>
<th>Select</th>
<th>Product Name</th>
<th>Feature</th>
<th>Release/Gen Level</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td>CA MM r11.8</td>
<td></td>
<td>11.8.0</td>
<td></td>
</tr>
</tbody>
</table>

Selected 1 of 1.

You can add your own custom data sets and USS parts paths to the deployment. Click the Add Data Set button.

Note: Any entries that have been prepopulated below are USS parts from the CSI and should be edited before continuing to the next step.

Custom Data Sets

Selected 0 of 0.
MSM Usage – Deployment

Methodologies are named objects with a description they provide the how of deployments. They have a single data set name mask that is used to control which target libraries are called on the target system. Select the applied methodology.

Methodologies

<table>
<thead>
<tr>
<th>Select</th>
<th>Name</th>
<th>Description</th>
<th>DSN Mask</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>C5C5OE1</td>
<td>SOE HLQ + LLQ</td>
<td>3MEMHLQ</td>
<td></td>
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</tr>
<tr>
<td>EZT</td>
<td>EZT TEST</td>
<td>SYSS.CA.EZT.TEST</td>
<td></td>
<td>Actions</td>
</tr>
<tr>
<td>NIM</td>
<td>NIM Methodology</td>
<td>SYSS.CA.NIM.TEST</td>
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<td>Actions</td>
</tr>
</tbody>
</table>

The following systems were included from the selected template. You can add additional systems, or remove systems for this deployment after this deployment is created. See the help topics Add Systems or Remove Systems.

System to Deploy

<table>
<thead>
<tr>
<th>Select</th>
<th>Name</th>
<th>Type</th>
<th>Data Destinations</th>
<th>Description</th>
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<tbody>
<tr>
<td>ISV</td>
<td>Shared DASD Cluster</td>
<td>Default</td>
<td>Change</td>
<td>SYSMF1</td>
</tr>
<tr>
<td>PLEX</td>
<td>Sysplex</td>
<td>Default</td>
<td>Change</td>
<td>PLEX</td>
</tr>
<tr>
<td>PLEX:</td>
<td>Sysplex System</td>
<td>Default</td>
<td>Change</td>
<td>PL1 LPAR</td>
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<tr>
<td>PLEX:</td>
<td>Sysplex System</td>
<td>Default</td>
<td>Change</td>
<td>PL2 LPAR</td>
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<td>ISV</td>
<td>Shared DASD Cluster</td>
<td>Default</td>
<td>Change</td>
<td>SYSMZ1</td>
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</tbody>
</table>

Selected 1 of 5.
MSM Usage – Deployment

New Deployment

1. Introduction
2. CSI Selection
3. Product Selection
4. Custom Data Sets
5. Methodology Selection
6. System Selection
7. Preview

Preview

Deployment Identification
Deployment ID: ???
Name: MIM 11.8 SP0
Style of Deployment: Replace

Products
Name: CA MIM r11.8 Source: MIM 11.8 SP0

Systems
Name: ISV

Transport
To: ISV: No transmission needed

Target Libraries on ISV
Source DSN: CBTDCLS0
DSN: SYS1.CA.MIM.R118SP0.CBTDCLS0
Target DSN: SYSS.CA.MIM.TEST
Resolved as: SYSS.CA.MIM.TEST.CBTDCLS0
Catalog datasets? NO
GIMUNZIP Volume: SYSMZ1
GIMUNZIP Unit: SYSALLDA

Deploy: MIM 11.8 SP0

Progress

26%
Validate deployment - Response required on Progress Page

General
Name: Deploy: MIM 11.8 SP0
Task ID: 1049
User ID: SYS35
Status: Prompting
Status: Validate deployment - Response required on Progress Page
Message: Page
MSM Usage – Deployment

Deployment has external requirements

Deployment MIM 11.8 SP0 requires
CA Common Services r11 for z/OS
on the target system and it was
not known to have been deployed.

If you know that product already
exists on system ___ISV,
select "OK" and you will not be
prompted again.

Otherwise, select "Cancel" and
add that product to the
deployment.

Note: Your deployed product may
not function properly on the
target system(s) if you
reply "OK" and it does not exist.
MSM Usage – Deployment

![Deployment Status Screenshots]

- **85%**:
  - Create configuration artifacts - Executing
  - Steps: #11-15 of 15
  - Status: Completed

- **100%**:
  - Succeeded
  - Steps: #11-15 of 15
  - Status: Completed
MSM Usage – Deployment

Menu DefList RepNode Utilities Help

Option -->

Data Set List Utility

Option -->

blank  Display data set list  F Print data set list
    P Print VTOC Information

Enter one or both of the parameters below:
    Volume serial .. SYSS.MIM
    VTOC Level .. SYSZM1

Data set list options

1. Volume
2. Space
3. Attribute
4. Total

Enter "A" to select option

When the data set list is displayed, enter either:

1. / on the data set list command field for the command prompt pop-up,
   or ISPF line command, the name of a TSO command, CLIST, or REXX exec, or
   F1 to execute the previous command.

Menu Options View Utilities Compilers Help

DLSIEST - Data Sets on volume SYSSZ1

Command -->

Scroll --> CSR

Command - Enter "/" to select action

<table>
<thead>
<tr>
<th>Command</th>
<th>Message</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYSS.CA.MIM.TEST.CBTDCLSO</td>
<td></td>
<td>SYSSZ1</td>
</tr>
<tr>
<td>SYSS.CA.MIM.TEST.CBTDZTM</td>
<td></td>
<td>SYSSZ1</td>
</tr>
<tr>
<td>SYSS.CA.MIM.TEST.CBTDZTR</td>
<td></td>
<td>SYSSZ1</td>
</tr>
<tr>
<td>SYSS.CA.MIM.TEST.CBTHENU</td>
<td></td>
<td>SYSSZ1</td>
</tr>
<tr>
<td>SYSS.CA.MIM.TEST.CBTDJCL</td>
<td></td>
<td>SYSSZ1</td>
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<tr>
<td>SYSS.CA.MIM.TEST.CBTDLOAD</td>
<td></td>
<td>SYSSZ1</td>
</tr>
<tr>
<td>SYSS.CA.MIM.TEST.CBTDHC</td>
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<tr>
<td>SYSS.CA.MIM.TEST.CBTDMC</td>
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<td>SYSSZ1</td>
</tr>
<tr>
<td>SYSS.CA.MIM.TEST.CBTDSEN</td>
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<td>SYSSZ1</td>
</tr>
<tr>
<td>SYSS.CA.MIM.TEST.CBTDPROM</td>
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<tr>
<td>SYSS.CA.MIM.TEST.CBTDPCU</td>
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<td>SYSSZ1</td>
</tr>
<tr>
<td>SYSS.CA.MIM.TEST.CBTPROC</td>
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</tr>
<tr>
<td>SYSS.CA.MIM.TEST.CBTDZMT</td>
<td></td>
<td>SYSSZ1</td>
</tr>
</tbody>
</table>

*********************************************************************** End of Data Set list ***********************************************************************
Agenda

• Environment overview
• MSM installation history and issues
• MSM users
• MSM features used
• Migrating CSIs into MSM
• Acquiring and maintaining software
• Installing software with MSM
• Deploying software with MSM
• MSM Hints and Tips
Hints and Tips

• Have plenty of DASD available. 😊
• Review the Best Practices Guide
• Use Help when needed (upper right hand corner)
• A “fast” PC helps. If the GUI seems slow you may want to set the number of table rows displayed to lower value. Controlled via “Settings → User Preferences”
• Select the option to “Ignore Common Products During Discovery” on the “Settings → Software Acquisition” tab
Hints and Tips

• Take regular backups
Hints and Tips – Using Tags

SMP/E Environments

<table>
<thead>
<tr>
<th>Select</th>
<th>Name</th>
<th>Data Set</th>
<th>Tags</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACF2 15.0 GSES SOE</td>
<td>MVSSMPS.ACF2.R15.CSI</td>
<td>mark, migrated, zos113soe</td>
<td></td>
</tr>
<tr>
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<td>SYSI.CA.ACF2.R14SP1.GLOBAL.CSI</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>CA Spool r11.7</td>
<td>SYSI.CA.SPOOL.R117.CSI</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CA Vantage Release 12.6 - GSES</td>
<td>MVSSMPS.SAMVANTG.V12R6M0.CSI</td>
<td>Set Automatic Update</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CA-Allocate GSES SOE</td>
<td>MVSSMPS.SAMALLOC.V12R5M0.CSI</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CA-CCS 12.0 GSES SOE</td>
<td>MVSSMPS.CAS9.R12.CSI</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CA-Copycat Release 12.0 - GSES</td>
<td>MVSSMPS.COPYCAT.V12R0M0.CSI</td>
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<tr>
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<td>CA-Datacom/AD 12.0 GSES SOE</td>
<td>MVSSMPS.DATCOMAD.V12.CSI</td>
<td>migrated, bob, zos113soe</td>
<td></td>
</tr>
</tbody>
</table>

Complete your sessions evaluation online at SHARE.org/AntaheimEval
Hints and Tips – Using Tags

Select or remove tags. Disabled buttons mean that tag cannot be removed because it is in use.

Tags for CST: ACF2 R14 SP1

<table>
<thead>
<tr>
<th>Select</th>
<th>Tag</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>bob</td>
<td>Remove</td>
</tr>
<tr>
<td></td>
<td>dave</td>
<td>Remove</td>
</tr>
<tr>
<td></td>
<td>fred</td>
<td>Remove</td>
</tr>
<tr>
<td></td>
<td>mark</td>
<td>Remove</td>
</tr>
<tr>
<td></td>
<td>migrated</td>
<td>Remove</td>
</tr>
<tr>
<td></td>
<td>thuasi</td>
<td>Remove</td>
</tr>
<tr>
<td></td>
<td>zos113soe</td>
<td>Remove</td>
</tr>
</tbody>
</table>

Selected 2 of 7.

Tags editor

Changes were successfully applied.

OK

Tags for CST: ACF2 R14 SP1

<table>
<thead>
<tr>
<th>Select</th>
<th>Tag</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>migrated</td>
<td>Remove</td>
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<tr>
<td></td>
<td>zos113soe</td>
<td>Remove</td>
</tr>
</tbody>
</table>

Selected 2 of 7.
Hints and Tips – Using Tags

SMP/E Environments

<table>
<thead>
<tr>
<th>Select</th>
<th>Name</th>
<th>Data Set</th>
<th>Tags</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACF2 15.0 GSES SOE</td>
<td>MVSSMPS.ACF2.R15.CSI</td>
<td>mark, migrated, zos113soe</td>
<td>Actions</td>
</tr>
<tr>
<td>✔</td>
<td>ACF2 R14 SP1</td>
<td>SYSI.CA.ACF2.R14SP1.GLOBAL.CSI</td>
<td>mark, migrated</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>ACF2IMS 15.0 GSES SOE</td>
<td>MVSSMPS.ACF2IMS.R15.CSI</td>
<td>mark, migrated, zos113soe</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>CA Spool r11.7</td>
<td>SYSI.CA.SPOOL.R117.CSI</td>
<td>dave</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>CA Vantage Release 12.6 - GSES</td>
<td>MVSSMPS.SAMVANTG.V12R6M0.CSI</td>
<td>migrated, zos113soe, thulasi</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>CA-Allocate GSES SOE</td>
<td>MVSSMPS.SAMALLOC.V12R5M0.CSI</td>
<td>migrated, bob, zos113soe</td>
<td>Actions</td>
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<tr>
<td></td>
<td>CA-CCS 12.0 GSES SOE</td>
<td>MVSSMPS.CAS9.R12.CSI</td>
<td>migrated, bob, zos113soe</td>
<td>Actions</td>
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<tr>
<td></td>
<td>CA-Copycat Release 12.0 - GSES</td>
<td>MVSSMPS.COPYCAT.V12R0M0.CSI</td>
<td>migrated, bob, zos113soe</td>
<td>Actions</td>
</tr>
</tbody>
</table>
Hints and Tips – Catalog Cleanup

• The data from products acquired is held in z/OS unix file systems (HFS or zFS).
• Even if you remove a CSI from MSM or delete the CSI and data sets, the base product and all the maintenance packages remain in the MSM catalog.
• If someone removes a product / genlevel from MSM control and you aren’t sure they removed the product from the catalog, you have to manually start expanding release and genlevels from the catalog tree and see if there is anything left over to remove.
Hints and Tips – Catalog Cleanup
Hints and Tips – Catalog Cleanup

- Instead of expanding all the products from the catalog tree, it may be helpful to look at the mount point manager directory structure as a starting point.

```
Menu Utilities View Options Help
Command ===>
Pathname . : /products/prod/msmmpm/scroot/DatabaseM/CA
```

<table>
<thead>
<tr>
<th>Command</th>
<th>Filename</th>
<th>Message</th>
<th>Type</th>
<th>Permission</th>
<th>Audit</th>
<th>Ext</th>
<th>Fmat</th>
<th>Owner</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Dir</td>
<td>rwxr-xr-x</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>.</td>
<td>.</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>.</td>
<td>error_hold_data</td>
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<tr>
<td>CA_Allocate_DASD_Space_an</td>
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<td>BPXROOT</td>
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<tr>
<td>CA_ACF2__MVS</td>
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<td>Dir</td>
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<td>fff--</td>
<td></td>
<td></td>
<td>BPXROOT</td>
</tr>
</tbody>
</table>

Complete your sessions evaluation online at SHARE.org/AnaheimEvalu
Hints and Tips – Catalog Cleanup

- You can look at what releases / genlevels are below the higher level directory, but it doesn’t always mean there is something in the catalog.

```
Menu Utilities View Options Help
Command ===> _
Pathname : /products/prod/msmmpm/scroot/DatabaseM/CA/CA_ACF2__-_MVS

Command Filename Message Type Permission Audit Ext Fmat Owner
.                        Dir rw-rw-r-x fff--- ---- BPXROOT
..                       Dir rw-r-xr-x fff--- ---- BPXROOT
14.0                     Dir rw-r-xr-x fff--- ---- BPXROOT
15.0                     Dir rw-r-xr-x fff--- ---- BPXROOT

*********************************************************************** Bottom of data ***************
```

```
Menu Utilities View Options Help
Command ===> _
Pathname : /products/prod/msmmpm/scroot/DatabaseM/CA/CA_ACF2__-_MVS/14.0

Command Filename Message Type Permission Audit Ext Fmat Owner
.                        Dir rw-r-xr-x fff--- ---- BPXROOT
..                       Dir rw-rwxr-x fff--- ---- BPXROOT
SP01                     Dir rw-r-xr-x fff--- ---- BPXROOT
0000                     Dir rw-r-xr-x fff--- ---- BPXROOT

*********************************************************************** Bottom of data ***************
```
Hints and Tips – Catalog Cleanup

Here I am removing the ACF2 R14 CSI that we migrated earlier.
Hints and Tips – Catalog Cleanup

You can see from the SMP/E screen ACF2 R14 is now gone.

<table>
<thead>
<tr>
<th>Select</th>
<th>Name</th>
<th>Data Set</th>
<th>Tags</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACF2 15.0 GSES SOE</td>
<td>MVSSMPS.ACF2.R15.CSI</td>
<td>mark, migrated, zos113soe</td>
<td>Actions</td>
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<td></td>
<td>ACF2IMS 15.0 GSES SOE</td>
<td>MVSSMPS.ACF2IMS.R15.CSI</td>
<td>mark, migrated, zos113soe</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>CA Spool r11.7</td>
<td>SYSI.CA.SPOOL.R11.7.CSI</td>
<td>dave</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>CA Vantage Release 12.6 - GSES</td>
<td>MVSSMPS.SAMVANTG.V12R6M0.CSI</td>
<td>migrated, zos113soe, thulasi</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>CA-Allocate GSES SOE</td>
<td>MVSSMPS.SAMALLOC.V12R5M0.CSI</td>
<td>migrated, bob, zos113soe</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>CA-CCS 12.0 GSES SOE</td>
<td>MVSSMPS.CAS9.R12.CSI</td>
<td>migrated, bob, zos113soe</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>CA-Copycat Release 12.0 - GSES</td>
<td>MVSSMPS.COPYCAT.V12R0M0.CSI</td>
<td>migrated, bob, zos113soe</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>CA-Datacom/AD 12.0 GSES SOE</td>
<td>MVSSMPS.DATCOMAD.V12.CSI</td>
<td>migrated, bob, zos113soe</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>CA-View R11.5</td>
<td>SYSI.CA.VIEW.R115.GLOBAL.CSI</td>
<td>bob</td>
<td>Actions</td>
</tr>
</tbody>
</table>
Hints and Tips – Catalog Cleanup

To delete the product genlevel, mouse over the genlevel in the catalog tree and right click to select the delete option.
Hints and Tips – Catalog Cleanup

Confirm Delete
Are you sure you want to delete gen level from Software Catalog?

OK  Cancel

Remove of GenLevel CA ACF2 - MVS / 14...
Hints and Tips – Catalog Cleanup

You can see the genlevel is gone, but note that there are still PTFs. These are from common services, which was included with the ACF2 R14 package.
Hints and Tips – Catalog Cleanup

Here is screen shot from after I deleted the entire ACF2 R14 release (not just the genlevel)
Hints and Tips – Catalog Cleanup

Note that the next time you update the catalog tree, the available releases and genlevels you delete may show up in the tree again.
Hints and Tips – Catalog Cleanup

Confirm Action

Are you sure you want to update the Software Catalog?

OK  Cancel

Acquire Product Knowledge

100%

Succeeded

Acquire Product Knowledge

43%

Site 1 of 1 - Products for Site 265 - Processing 105 of 387

Name:  Acquire Product Knowledge
Task ID:  1039
User ID:  SYS35
Status:  Executing
Status Message:  Succeeded
Hints and Tips – Catalog Cleanup

The catalog tree is updated and ACF2 R14 is back! But it is just an entry in the tree.
Summary

- MSM takes time and effort for the initial installation and configuration, but will more than pay for itself in terms of time saved later on.
- Probably not worth it if you only have a couple of CA products.
- Product is more mature now. MSM installation and usability are much improved over the initial GA release at R2 (plus new features like SDS and SCS).
- Your shop can benefit immediately by migrating existing CSIs into MSM.
Summary

• Helpful for inexperienced system programmers or those not well versed with SMP/E, but also valuable to the experienced ones as well. You can teach an old dog new tricks!

• MSM’s development has benefited all CA customers, whether you choose to use MSM or not. SMP/E works the way it was designed to work. No more “BYPASS(ID)” when installing CA maintenance.
Questions?