CA Chorus Software Manager: User Experience and Update

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CSC – Global Outsourcing Services

August 15, 2013
Session 13837
Agenda

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

- 5 CPCs: 4 z196 + 1 zEC12 (one z196 is a SA CF)
- About 54,000 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 180 TB of DASD, 125TB replicated to DR site
- About 800TB of virtual tape (after compression, ~ 3.2PB uncompressed), 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 and tape 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”.

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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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CSM 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.
CSM 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 CSM instance and install to shared DASD to support the entire shop.
CSM History at Client Site

- LPAR chosen to run CSM 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 CSM’s use.
- I check for new CSM 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).
CSM History at Client Site

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

```plaintext
//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=&SYSNAME'
/* COMMAND 'SETOMVS FILESYS,FILESYSTEM=''SYSI.CA.MSM.R2.MSMINST.ZFS'',SYSNAME=&SYSNAME'
/* COMMAND 'SETOMVS FILESYS,FILESYSTEM=''SYSI.CA.MSM.R2.SETUP.ZFS'',SYSNAME=&SYSNAME'
/* COMMAND 'SETOMVS FILESYS,FILESYSTEM=''SYSTEMS.OMVS.DOWNLOAD.ZOS.ZFS'',SYSNAME=&SYSNAME'
**
*-----------------------------------------------**
```

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

• Upgraded from R2 to R3 in June 2010
  • Had to download / install Java V6 as a pre-req. CSM 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
CSM 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 CSM upgrade.
  - I used an SVC number for CSM’s Datacom higher than the “product solutions” Datacom for the next install so the other Datacom won’t ever use CSM’s SVC for XCF when running the same Datacom levels.
CSM 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 + CETN500
CSM 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 msmhlq.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 msmhlq.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)
CSM 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.
CSM History at Client Site

• Upgraded from R4.1 to R5.0 in October 2012
  • No problems with the upgrade. CCS R12 and CETN500 were already installed. Java V6 @ SR10 was already installed (SR9 required). Painless upgrade.

• Upgraded from MSM R5.0 to CSM R5.1 in April 2013
  • Needed some additional RACF profiles for 5.1. They were actually added to MSM in 5.0, but I didn’t run into a problem until 5.1 (TM.* access).

    RDEFINE CAMSM SYSREG.* UACC(NONE)
    RDEFINE CAMSM METHOD.* UACC(NONE)
    RDEFINE CAMSM DEPLOY.* UACC(NONE)
    RDEFINE CAMSM CONFIG.* UACC(NONE)
    RDEFINE CAMSM TM.* UACC(NONE)
    RDEFINE CAMSM TM.TASK.@SELF.DELETE UACC(NONE)
CSM History at Client Site

• I Figured out an annoying problem I had with the pre-validation utility once at an earlier release level and also had when I started my 5.1 upgrade. I was not getting the license prompt from the OMVS shell nor the prompts to edit JCL / submit install jobs. I worked with CA support on this in the past and never figured out the problem nor could they figure it out with 5.1. The cause / resolution:

  Both OEDIT and OBROWSE live in hlq.SBPXEXEC. I found the problem was that hlq.SBPXEXEC was either not allocated when I invoked "TSO OMVS" or only in the ISPF environment via ALTLIB from an ISHELL invocation (if ISHELL was used prior to invoking "TSO OMVS"). If hlq.SBPXEXEC was allocated to SYSEXEC (as opposed to being allocated via ALTLIB), it worked as expected.
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CSM 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 2 CA products (CA Spool and CA Netmaster).
  • 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 CSM for a number of CA products that we used and were also supported via CSM at the time.
CSM 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 offshore staff supporting the client. That staff has an average of about 6 years z/OS systems programming experience. The “newbies” seem to like CSM as much as I do.
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CSM Features Used at Client Site

- CSM 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 was installed in January 2012 and had deployment working for uncataloged data sets, but I haven’t trained people on deployment yet.
CSM 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 CSM, 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 CSM 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 CSM at Client

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

CA Mainframe Software Manager™

User Name: sys35
Password: ********
Log In

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CSM Usage – Migrating Existing CSIs
CSM 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*: SYS1.CA.ACF2.R14SP1.GLOBAL.CSI
CSM Usage – Migrating Existing CSIs

The migrated CSI contains the following functions:

- CX1E000
- CX1E010
- CX1E018
- CX8E000
CSM 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.
CSM Usage – Migrating Existing CSIs

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

<table>
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<tr>
<th>Zones</th>
<th>Data Set / Prefix</th>
<th>Type</th>
<th>Name</th>
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<td>Distribution</td>
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<tr>
<td>Prefix</td>
<td>SYSI.CA.ACF2.R14SP1</td>
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<td></td>
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</tbody>
</table>
CSM Usage – Migrating Existing CSIs
CSM Usage – Migrating Existing CSIs

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

- **CSI Name**: ACF2 R14 SP1
- **CSI Data Set**: SYS1.CA.ACF2.R14SP1.GLOBAL.CSI
- **CSI Prefix**: SYS1.CA.ACF2.R14SP1

---

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CSM Usage – Migrating Existing CSIs

![Screenshot of CSM Usage - Migrating Existing CSIs](image)

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CSM Usage – Migrating Existing CSIs

CA Mainframe Software Manager™

Logged in as: SYS39 (Log Out)

Search

Search For:

Search In: CSI

Actions

Migrate an Existing CSI

SMF/E Environments

- SMP/E Environments
  - ACF2 15.0 GSES SOE
  - 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

- Product 11.5 Tools
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CSM 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
Scope SMP Keys
Add
Init
Update the whole software catalog
Add CA RS File
Update HOLDDATA

Filter
Show:
All

Available Products

Products
CA

Vendor information
Name
Description
CA
One CA Plaza, Islandia, NY 11749

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CSM 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 OSP - MVS

CA ACF2 - MVS

Products > CA > CA ACF2 - MVS

Releases
Select and: Update Catalog Releases

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<th>Release Name</th>
<th>New HIPERS</th>
<th>New Maintenance</th>
<th>Actions</th>
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</tr>
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Selected 0 of 2.
CSM Usage – Acquiring Software
CSM Usage – Acquiring Software
CSM Usage – Acquiring Software
CSM Usage – Acquiring Software

![Image of acquiring software progress](image_url)
CSM Usage – Acquiring Software

![Progress bar displaying 26% completion](image1)

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

![Progress bar displaying 100% completion](image2)

**General**
- **Name:** Acquiring CA ACF2 - MVS 14.0
- **Task ID:** 1027
- **User ID:** SYS35
- **Status:** Succeeded
- **Status Message:** Succeeded
CSM Usage – Acquiring Software
Get Latest Maintenance (added in 5.0)

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Actions:
- Show License Keys
- Add Product
- Install External Package
- Update HLD
- Show Hidden Products

Available Products:
- CA MICS Resource Management - MVS
- CA Migrate COBOL - MVS
- CA MII Data Sharing - MVS
- CA MIM Resource Sharing - MVS

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CSM Usage – Acquiring Software
Get Latest Maintenance (added in 5.0)
### CSM Usage – Maintaining Software

**CA Mainframe Software Manager™**

Logged in as: SYS35 (Log Out)

#### Software Status
- **Search**
  - Search For: ACF2
  - Search In: Products

#### Actions
- Update Catalog Tree
- Show LMP Keys
- Add Product
- Install External Package
- Add CA R3 File
- Update HGLDDATA

#### 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 ADS Alive Option - MVS

#### SP01

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Complete your sessions evaluation online at SHARE.org/BostonEval
CSM 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 R6 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 ADS Alive Option - MVS

CA ACF2 - MVS

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<th>New Maintenance</th>
<th>Actions</th>
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<td>0</td>
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</table>

Selected 0 of 2.
CSM 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

14.0
Products > CA > CA ACF2 - MVS > 14.0

Maintenance Packages

Show: All  All for current release  All source IDs
Select and: Install  1 - 100 of 1078

<table>
<thead>
<tr>
<th>Select</th>
<th>Fix #</th>
<th>Description</th>
<th>Confirmed Date</th>
<th>Type</th>
<th>Installed</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>R027079</td>
<td>#MODIDX - SERVICEABILITY MACRO DELIVERY - CAIMAC</td>
<td>Feb 16, 2011</td>
<td>APAR</td>
<td>No CSI available</td>
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<td></td>
<td>R020075</td>
<td>#MODIDX - SERVICEABILITY MACRO DELIVERY - CAIMAC</td>
<td>Jul 1, 2010</td>
<td>APAR</td>
<td>No CSI available</td>
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<tr>
<td></td>
<td>R020081</td>
<td>#MODIDX - SERVICEABILITY MACRO DELIVERY - CAIMAC</td>
<td>Jul 1, 2010</td>
<td>PTF</td>
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<tr>
<td></td>
<td>R027182</td>
<td>SUNI TRACK GIVES RC=-3 FOR FUNCTIONS ALLOC/DEALLOC.</td>
<td>Feb 22, 2011</td>
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<td>SUNI TRACK GIVES RC=-3 FOR FUNCTIONS ALLOC/DEALLOC.</td>
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<tr>
<td></td>
<td>R120046</td>
<td>* CA COMMON SERVICES R12 FOR Z/OS COMPONENT XREF</td>
<td>Jun 30, 2010</td>
<td>PEA/PDC</td>
<td>Not installable</td>
<td>Actions</td>
</tr>
<tr>
<td></td>
<td>R120416</td>
<td>* CAILPA DATASET REQUIREMENT WITH CCS R12 CAIRIM</td>
<td>Jul 25, 2010</td>
<td>PEA/PDC</td>
<td>Not installable</td>
<td>Actions</td>
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<tr>
<td></td>
<td>D195110</td>
<td>* DO I NEED TO INSTALL THE CCS COMPONENT DATACOM/TR?</td>
<td>Feb 24, 2008</td>
<td>PEA/PDC</td>
<td>Not installable</td>
<td>Actions</td>
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</tbody>
</table>

Complete your sessions evaluation online at SHARE.org/BostonEval
CSM Usage – Maintaining Software

CA Mainframe Software Manager™

Logged in as: SYS15 (Log Out)

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

Search
Search For:
ACF2
Search In:
Products  Search

Actions
Update Catalog Tree  Show UMP Keys  Add Product  Install External Package  Add CA RS File  Update HIOLDDATA

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 ADFS Alive Option - MVS

Maintenance Packages

Select and: Install

Fix #  Description  Confirmed Date  Type  Installed  Actions

- R030286  TA9651B: SEVERAL ERRORS IN ACF2 HELP DATA  May 10, 2011  FTF  All zones
- R025582  TA9653B: ORPHANED LSQA SP255 XRLT BLOCKS  Dec 21, 2010  HIPER  All zones
- R035811  TA9657B: Z/OS 1.13 COMPATIBILITY CHANGES  Oct 3, 2011  FTF  All zones
- R035830  TA9657S: Z/OS 1.13 COMPATIBILITY CHANGES  Oct 3, 2011  FTF  All zones
- R026012  TA9652S: ACF00119 TRYING TO INSERT A REALM RECORD  Jan 12, 2011  FTF  All zones
- R032249  TA9656B: MINOR ERRORS IN CIA UNLOAD PROCESS  Jun 30, 2011  FTF  All zones
- R036008  TA9658B: S576 ACF60CME  Jun 10, 2011  FTF  All zones

Complete your sessions evaluation online at SHARE.org/BostonEval
CSM Usage – Maintaining Software
# CSM 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>
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</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: SAFHFACF: 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 CHKCERT/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: ENVIRONMENT INIT_ACEE SPURIOUS 8/8:4 RETCODE</td>
<td>CX8E000</td>
<td>Not received</td>
<td>Actions</td>
</tr>
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</table>
## CSM Usage – Maintaining Software

### Table Contents

<table>
<thead>
<tr>
<th>Select</th>
<th>Fix #</th>
<th>Type</th>
<th>Description</th>
<th>Function</th>
<th>Status</th>
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<td>Actions</td>
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<tr>
<td>✔️</td>
<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>
</tr>
<tr>
<td>✔️</td>
<td>R040672</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>R040728</td>
<td>PTF</td>
<td>TA9215S: SAFINESMF SOC4 ON INIT_ACEE WITH IDID_AREA</td>
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<tr>
<td>✔️</td>
<td>R040730</td>
<td>PTF</td>
<td>TA9188B: UNIX DATA SET ACCESS SUPPORT</td>
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<tr>
<td>✔️</td>
<td>R040731</td>
<td>PTF</td>
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<td>CX8E000</td>
<td>Not received</td>
<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>
</tr>
<tr>
<td>✔️</td>
<td>R041003</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>
</tr>
</tbody>
</table>
CSM 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.
CSM Usage – Maintaining Software
CSM Usage – Maintaining Software

Select CSIs

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

Show: Working Set | All

<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>

Back | Next | Install | Cancel | Help
CSM Usage – Maintaining Software
CSM 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>No prerequisites need to be installed.</td>
</tr>
</tbody>
</table>

**Steps**

1. Introduction
2. Select Maintenance
3. Select CSIs
4. Select Options
5. **Prerequisites**
6. HOLDDATA
7. SMP/E Work DDDEFs
8. Summary
CSM Usage – Maintaining Software

HOLDDATA

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

++HOLD (RO40730)
FMID (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 /OA35979 requires resource rules to be written before applying the
CSM Usage – Maintaining Software
CSM Usage – Maintaining Software

**Summary**

SYSMODs that cannot be APPLIED because they are SUPERSEDED or have ERRORHOLDATA
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 - TA8536S: SAFHACF: SKIP INVALID DIRECTORY NAMES
RO40728 - TA9215S: SAFCESMF SOC4 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: ENVIRONON 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
R044181 - TA9030S: 0C4 AT OFFSET X'866' IN CAS4BLDL
RO444259 - TA9203B: 0C4 OFFSET X'444' ACFCC205
RO44886 - TA9294B: INCORRECT OMVS UNIQUES PROCESSING
RO45404 - TA9207B: MAKE ACF8SCSN AMODE(31) RMODE(24)
RO45538 - TA9309B: VSAM AUTOERASE BYPASSED WITH Z/OS 1.13
CSM Usage – Maintaining Software

![Image of CSM Usage](image_url)
Agenda

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

Select and: Update Catalog Releases

Select

Release Name
New HIPERs
New Maintenance
Actions

11.6
0
0
Actions

11.7
0
0
Actions

11.8
1
9
Actions

11.9
0
0

Selected 0 of 4.
### CSM Usage – Installing Software

**CA Mainframe Software Manager™**

Logged in as: SYS35 (Log Out)

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

#### Base Install Packages

<table>
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<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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<tbody>
<tr>
<td>☐</td>
<td>CA COMMON SERVICES COVER LTR</td>
<td>Jun 30, 2011</td>
<td>PDF</td>
<td>Yes</td>
<td>211 Kb</td>
<td>14.0/0000</td>
<td>Actions▼</td>
</tr>
<tr>
<td>☐</td>
<td>CA MIM PRODUCT PACKAGE</td>
<td>May 19, 2011</td>
<td>Base Install</td>
<td>Yes</td>
<td>2 Mb</td>
<td>11.8/0000</td>
<td>Actions▼</td>
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<tr>
<td>☐</td>
<td>CA MSM COVER LETTER</td>
<td>Nov 2, 2011</td>
<td>PDF</td>
<td>Yes</td>
<td>180 Kb</td>
<td>4.1/0000</td>
<td>Actions▼</td>
</tr>
<tr>
<td>☐</td>
<td>CA MSM PREVAL UTIL-ESD ONLY</td>
<td>Nov 7, 2011</td>
<td>Base Install (Non SMP/E)</td>
<td>Yes</td>
<td>3 Mb</td>
<td>4.1/0000</td>
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<tr>
<td>☐</td>
<td>CA MSM PREVALIDATION INSTR</td>
<td>Nov 22, 2011</td>
<td>PDF</td>
<td>Yes</td>
<td>183 Kb</td>
<td>4.1/0000</td>
<td>Actions▼</td>
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<tr>
<td>☐</td>
<td>CA MSM PRODUCT PKG-ESD ONLY</td>
<td>Nov 7, 2011</td>
<td>Base Install (Non SMP/E)</td>
<td>Yes</td>
<td>245 Mb</td>
<td>4.1/0000</td>
<td>Actions▼</td>
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</tbody>
</table>

**Actions**:
- Install
- Delete

---

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CSM 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
CSM Usage – Installing Software

Installation Type Selection

Installation Types

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

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.

CSIs

Show: Available only | Whole Working Set

Select: CSIs

- Create a New SMP/E CSI
- ACF2 R14 SP1

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

Back | Next | Install | Cancel | Help
CSM Usage – Installing Software
**CSM Usage – Installing Software**

### Target SMP/E CSI Parameters

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.

#### Work DDDEF Parameters

<table>
<thead>
<tr>
<th>Use SMS</th>
<th>Use Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<table>
<thead>
<tr>
<th>Storage Class*</th>
<th>Unit*</th>
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<table>
<thead>
<tr>
<th>Management Class</th>
<th>Data Class:</th>
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</table>

### Data Sets

<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>
CSM 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.
CSM Usage – Installing Software

![Base Installation - CA MIM(TM) Resource Sharing for ...](image)

- **Name**: CAIT0
- **Data Set Name Prefix**: SYSI.CA.MIM.R118SP0
- **Catalog**: 
- **Cross-Region**: 2
- **Cross-System**: 3

**Target Libraries Allocation Parameters**

- **High-Level Qualifier**: SYSI.CA.MIM.R118SP0
- **DSN Type**: PDS
- **Storage Class**: 
- **Management Class**: 
- **Unit**: 3390
- **Data Class**: 
- **VOLSER**: SYSMT1
- **Catalog**: YES

[Options: Back, Next, Install, Cancel, Help]
## CSM Usage – Installing Software

### Target Zone Parameters

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>Data Sets</th>
<th>Data Set Name</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<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>
</tr>
<tr>
<td>SMPSCDT</td>
<td>SYSI.CA.MIM.R118SP0.SMPSCDT</td>
<td>Override</td>
</tr>
<tr>
<td>SMPSTS</td>
<td>SYSI.CA.MIM.R118SP0.SMPSTS</td>
<td>Override</td>
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<tr>
<td>CBTDC150</td>
<td>SYSI.CA.MIM.R118SP0.CBTDC150</td>
<td>Override</td>
</tr>
<tr>
<td>CBTDEZTM</td>
<td>SYSI.CA.MIM.R118SP0.CBTDEZTM</td>
<td>Override</td>
</tr>
<tr>
<td>CBTDEZTR</td>
<td>SYSI.CA.MIM.R118SP0.CBTDEZTR</td>
<td>Override</td>
</tr>
<tr>
<td>CBTHENU</td>
<td>SYSI.CA.MIM.R118SP0.CBTHENU</td>
<td>Override</td>
</tr>
<tr>
<td>CBTDJCL</td>
<td>SYSI.CA.MIM.R118SP0.CBTDJCL</td>
<td>Override</td>
</tr>
<tr>
<td>CBTDLOAD</td>
<td>SYSI.CA.MIM.R118SP0.CBTDLOAD</td>
<td>Override</td>
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<td>Override</td>
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<tr>
<td>CBTDMS</td>
<td>SYSI.CA.MIM.R118SP0.CBTDMS</td>
<td>Override</td>
</tr>
</tbody>
</table>

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Complete your sessions evaluation online at SHARE.org/BostonEval
CSM Usage – Installing Software

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

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.
CSM Usage – Installing Software
C SM Usage – Installing Software

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>
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<tbody>
<tr>
<td>ABTDCLS0</td>
<td>SYSI.CA.MIM.R118SP0.ABTDCLS0</td>
<td>Override</td>
</tr>
<tr>
<td>ABTDEZTM</td>
<td>SYSI.CA.MIM.R118SP0.ABTDEZTM</td>
<td>Override</td>
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<tr>
<td>ABTDEZTR</td>
<td>SYSI.CA.MIM.R118SP0.ABTDEZTR</td>
<td>Override</td>
</tr>
<tr>
<td>ABTDHENU</td>
<td>SYSI.CA.MIM.R118SP0.ABTDHENU</td>
<td>Override</td>
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<td>SYSI.CA.MIM.R118SP0.ABTDMOD</td>
<td>Override</td>
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<tr>
<td>ABTDMSEN</td>
<td>SYSI.CA.MIM.R118SP0.ABTDMSEN</td>
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<tr>
<td>ABTPARM</td>
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<td>ABTDPENU</td>
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<td>Override</td>
</tr>
<tr>
<td>ABTDAMP</td>
<td>SYSI.CA.MIM.R118SP0.ABTDSAMP</td>
<td>Override</td>
</tr>
</tbody>
</table>
C SM Usage – Installing Software

![Software Installation Interface](image)

**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:

---

**Note:**
Complete your sessions evaluation online at SHARE.org/BostonEval
CSM Usage – Installing Software

![Diagram showing CSM Usage with progress and status details.]

- **General**
  - Name: CA MIM(TM) Resource Sharing for z/OS 11.8.0 (SQ1,11.8.0)
  - Task ID: 1031
  - User ID: SYS55
  - Status: Executing
  - Message: Executing SMP/E APPLY - Waiting for GIMSMP

- **Progress**
  - 50%
  - Executing SMP/E APPLY - Waiting for GIMSMP

- **Status**
  - 100%
  - Succeeded

- **Message**
  - Executing SMP/E APPLY - Waiting for GIMSMP
  - Succeeded
**CSM Usage – Installing Software: Output**

![Image of CSM installation progress]

- **100%**
  - Succeeded

### General Progress

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pre-installation report</td>
<td>Succeeded</td>
</tr>
<tr>
<td>2</td>
<td>Create CSI SYSI.CA.MIM.R118SP0.CSI</td>
<td>Succeeded</td>
</tr>
<tr>
<td>3</td>
<td>Data Set Allocation</td>
<td>Succeeded</td>
</tr>
<tr>
<td>4</td>
<td>Initialize CSI</td>
<td>Succeeded</td>
</tr>
<tr>
<td>5</td>
<td>Executing SMP/E RECEIVE</td>
<td>Succeeded</td>
</tr>
<tr>
<td>6</td>
<td>Executing SMP/E APPLY</td>
<td>Succeeded</td>
</tr>
<tr>
<td>7</td>
<td>Executing SMP/E ACCEPT</td>
<td>Succeeded</td>
</tr>
<tr>
<td>8</td>
<td>Add product to CSI</td>
<td>Succeeded</td>
</tr>
<tr>
<td>9</td>
<td>Repository Manager update</td>
<td>Succeeded</td>
</tr>
<tr>
<td>10</td>
<td>Post installation cleanup</td>
<td>Succeeded</td>
</tr>
</tbody>
</table>

- [Show detailed output](#)
CSM Usage – Installing Software: Output

CA Mainframe Software Manager™

Logged in as: SYS35 (Log Out)

Task Steps
- CA MIM(TM) Resource Sharing for z/OS 11.3.0 (SQ...
  - Pre-installation report
  - Create CSI
  - Data Set Allocation
  - Initialize CSI
  - Executing SMP/E RECEIVE
  - Executing SMP/E APPLY
  - Executing SMP/E ACCEPT
  - Add product to CSI
  - Repository Manager update
  - Post installation cleanup

CA MIM(TM) Resource Sharing for z/OS 11.3.0 (SQ...

Name: CA MIM(TM) Resource Sharing for z/OS 11.3.0 (SQ,11.3.0)
Task ID: 1031
User ID: SYS35
Status: Succeeded
Status Message: Succeeded

Steps

<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 GIMSMP program.</td>
<td>Succeeded</td>
</tr>
<tr>
<td>5</td>
<td>Executing SMP/E RECEIVE</td>
<td>Executing SMP/E commands using GIMSMP program.</td>
<td>Succeeded</td>
</tr>
<tr>
<td>6</td>
<td>Executing SMP/E APPLY</td>
<td>Executing SMP/E commands using GIMSMP program.</td>
<td>Succeeded</td>
</tr>
<tr>
<td>7</td>
<td>Executing SMP/E ACCEPT</td>
<td>Executing SMP/E commands using GIMSMP program.</td>
<td>Succeeded</td>
</tr>
<tr>
<td>8</td>
<td>Add product to CSI</td>
<td>Executing SMP/E commands using GIMSMP 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>

Download Zipped Output

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

![The image shows a computer screen displaying a Notepad document containing output from a job control language (JCL) summary report for SYSMOD CBT080. The report includes details about changes made to the system, such as added members and types of changes.](image-url)
CSM Usage – Installing Software
CSM Usage – Installing Software

![Software installation settings](image_url)
## CSM Usage – Installing Software

<table>
<thead>
<tr>
<th>Command</th>
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<th>Volume</th>
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<td></td>
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<tr>
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<td></td>
</tr>
<tr>
<td>SYSI.CA.MIM.R118SP0.ABTDZTR</td>
<td>SYSTMT1</td>
<td></td>
</tr>
<tr>
<td>SYSI.CA.MIM.R118SP0.ABDHENU</td>
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<td>SYSI.CA.MIM.R118SP0.ABDTSAMP</td>
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<tr>
<td>SYSI.CA.MIM.R118SP0.SMPSCDS</td>
<td>SYSTMT1</td>
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</table>

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

• Environment overview
• CSM installation history and issues
• CSM users
• CSM features used
• Migrating CSIs into CSM
• Acquiring and maintaining software
• Installing software with CSM
• **Deploying software with CSM**
• CSM Hints and Tips
CSM 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).
To start, first set up the system registry and then configure the data destinations.
CSM Usage – Deployment

![CSM Usage Diagram]

- **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]
CSM Usage – Deployment

- Maintain / Create a methodology
CSM Usage – Deployment

Edit Methodology

Information:
Name*: MIM
Description: MIM Methodology

Data Set Name Mask:
* SYSS.CA.MIM.TEST

Style of Deployment:
- Create Only
- Create or Update
- Replace
CSM Usage – Deployment
CSM 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 CSM mask would be: SYSS...-.
CSM Usage – Deployment

- Create a deployment
CSM Usage – Deployment

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.

Select a CSI:

- 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 R8.6
- Jobtrac 11.0
- MIM 11.8 SP0
CSM 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 MIM 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

<table>
<thead>
<tr>
<th>Select</th>
<th>Product Name</th>
<th>Data Set Name</th>
<th>Mask</th>
<th>Actions</th>
</tr>
</thead>
</table>

Selected 0 of 0.
CSM 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.

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.

Selected 1 of 5.
CSM Usage – Deployment
CSM Usage – Deployment

- **Validate deployment - Response required on Progress Page**

- **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 the 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.

- **Steps**
  - 1. Validate deployable state (Succeeded)
  - 2. Deployment Update Status: Snapshot In Progress (Succeeded)
  - 3. Validate remote systems (Succeeded)
  - 4. Lock CSIs in deployment (Succeeded)
  - 5. Validate deployment (Prompting)
  - 6. Archive creation (Not started)
  - 7. SYSMODS Extraction (Not started)
  - 8. Freeze deployment (Not started)
  - 9. Record target library names (Not started)
  - 10. Unlock CSIs in this deployment (Not started)

[101 Complete your sessions evaluation online at SHARE.org/BostonEval]
CSM Usage – Deployment

- 85% Create configuration artifacts - Executing
- 100% Succeeded

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Deployment Update Status: Snapshot Completed</td>
<td>Succeeded</td>
</tr>
<tr>
<td>12</td>
<td>Deployment Update Status: Deploying</td>
<td>Succeeded</td>
</tr>
<tr>
<td>13</td>
<td>Deploy Products</td>
<td>Succeeded</td>
</tr>
<tr>
<td>14</td>
<td>Create configuration artifacts</td>
<td>Executing</td>
</tr>
<tr>
<td>15</td>
<td>Deployment Update Status: Deployed</td>
<td>Not started</td>
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</tbody>
</table>

<table>
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<tr>
<th>#</th>
<th>Name</th>
<th>Status</th>
</tr>
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<tr>
<td>11</td>
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<td>Succeeded</td>
</tr>
<tr>
<td>12</td>
<td>Deployment Update Status: Deploying</td>
<td>Succeeded</td>
</tr>
<tr>
<td>13</td>
<td>Deploy Products</td>
<td>Succeeded</td>
</tr>
<tr>
<td>14</td>
<td>Create configuration artifacts</td>
<td>Succeeded</td>
</tr>
<tr>
<td>15</td>
<td>Deployment Update Status: Configurable</td>
<td>Succeeded</td>
</tr>
</tbody>
</table>
CSM Usage – Deployment

Menu Select Referential Utilities Help

Option ---

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

Enter one or both of the parameters below:

Volume Level: SYSS.CA.MIM

Data set list options

1. Volume
2. Space
3. Attribute
4. Total
5. Confirm Data Set Delete
6. Confirm Member Delete
7. Increase Additional Qualifiers
8. Display Catalog Name
9. Display Total Tracks
10. Prefix Volume Level

When the data set list is displayed, enter either:

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

Menu Options View Utilities Compilers Help

DMLIST - Data Sets on volume SYSMZ1
Command ---

SYSS.CA.MIM.TEST.CBTDCLUS
SYSS.CA.MIM.TEST.CBTDCLTR
SYSS.CA.MIM.TEST.CBTDPLTR
SYSS.CA.MIM.TEST.CBTDHENU
SYSS.CA.MIM.TEST.CBTDJCL
SYSS.CA.MIM.TEST.CBTDLOAD
SYSS.CA.MIM.TEST.CBTDMAC
SYSS.CA.MIM.TEST.CBTDMSN
SYSS.CA.MIM.TEST.CBTDPARM
SYSS.CA.MIM.TEST.CBTDPELU
SYSS.CA.MIM.TEST.CBTDPRCL
SYSS.CA.MIM.TEST.CBTDAMP
SYSS.CA.MIM.TEST.CBTSAMP
SYSS.CA.MIM.TEST.CBTSZ1

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

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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
Hints and Tips – Using Tags

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

Tags for CSI: ACF2 R14 SP1

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

Selected 2 of 7.

Tags editor

Changes were successfully applied.

OK

Tags for CSI: 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>
</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.
## 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>
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<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>
</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>
</tbody>
</table>

[Links and images in the original text are not reproduced here.]
Hints and Tips – Catalog Cleanup

Delete Unwanted Product Releases from Product List

You should delete a product release from the CA CSM Software Catalog when the product and maintenance files are no longer needed. When you use CA CSM to delete a product release, it deletes all of the USS files, directories, and file systems associated with the release.

Business Value:

When you delete the release from the CA CSM Software Catalog, CA CSM deletes all of the product files and maintenance files that CA CSM has downloaded. This ensures that CA CSM space utilization is kept at a minimum requirement for your environment.

The release will be added back to the Software Catalog on the next execution of the Update Product List task. However, the associated product and maintenance files will only be downloaded again when a CA CSM user initiates an Update Product task for that product or product release.

The SMP/E environment for the product-release is not deleted using this function.

More Information:

For more information, see the User Guide.
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 CSM or delete the CSI and data sets, the base product and all the maintenance packages remain in the CSM catalog.
• If someone removes a product / genlevel from CSM 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

CA Mainframe Software Manager™

Logged in as: SYS15 (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
Show LMP Keys
Add Product
Install External Package
Add CA RS File
Update HOLDDATA

Filter

Show:

All

Download

Available Products

MVS

CA 7 Workload Automation
Smart Console Option - MVS

CA ACF2 - MVS

14.0

SP01

15.0

CA ACF2 Option for P03 - 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>
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<tr>
<td></td>
<td>ACF2 APAR MEDIA - ESD ONLY</td>
<td>Jan 4, 2012</td>
<td>Base Install</td>
<td>Yes</td>
<td>709 Kb</td>
<td>14.0/AT01</td>
<td>Actions</td>
</tr>
<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>
<td>Actions</td>
</tr>
<tr>
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<td>Aug 22, 2011</td>
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<td>Yes</td>
<td>40 Mb</td>
<td>14.0/SP01</td>
<td>Actions</td>
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<tr>
<td></td>
<td>CA COMMON SERVICES COVER LTR</td>
<td>Jun 26, 2012</td>
<td>PDF</td>
<td>Yes</td>
<td>167 Kb</td>
<td>14.1/0000</td>
<td>Actions</td>
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<tr>
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<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>
</tr>
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<td></td>
<td>CA LDAP SERVER COVER LETTER</td>
<td>Feb 28, 2011</td>
<td>PDF</td>
<td>Yes</td>
<td>201 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 15, 2012</td>
<td>PDF</td>
<td>Yes</td>
<td>182 Kb</td>
<td>5.0/0000</td>
<td>Actions</td>
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<tr>
<td></td>
<td>CA MSM PRE VAL UTIL - ESD ONLY</td>
<td>May 30, 2012</td>
<td>Base Install</td>
<td>Yes</td>
<td>3 Mb</td>
<td>5.0/0000</td>
<td>Actions</td>
</tr>
</tbody>
</table>
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
Command Filename Message Type Permission Audit Ext Fmat Owner
.
```

```
error_hold_data
CA_Allocate_DASD_Space_an
CA_ACF2__MVS
CA_Copycat_Utility__MVS
CA_Datacom_AD__MVS
CA_Deliver__MVS
CADispatch__MVS
CA_Easytrieve_Report_Gene
CA_File_Master_Plus__MVS
CA_Jobtrac_Job_Management
CA_Mainframe_Software_Man
CA_MIM_Resource_Sharing__
CA_Spool_Package__MVS
CA_SYSVIEWE_JES_Component
CA_Vantage_Storage_Resour
CA_View__MVS
CA_Workload_Automation_Re
CA_7_Workload_Automation
```

```
Dir rwxr-xr-x fff-- ---- BPXROOT
Dir rwxr-xr-x fff-- ---- BPXROOT
Dir rwxr-xr-x fff-- ---- BPXROOT
Dir rwxr-xr-x fff-- ---- BPXROOT
Dir rwxrwxr-x fff-- ---- BPXROOT
Dir rwxrwxr-x fff-- ---- BPXROOT
Dir rwxrwxr-x fff-- ---- BPXROOT
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Dir rwxrwxr-x fff-- ---- BPXROOT
Dir rwxrwxr-x fff-- ---- BPXROOT
Dir rwxrwxr-x fff-- ---- BPXROOT
Dir rwxrwxr-x fff-- ---- BPXROOT
```

Complete your sessions evaluation online at SHARE.org/BostonEval
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 Fmt Owner
. . Dir rw+xr-x x fff--- ---- BPXROOT
.. Dir rw+xr-x x fff--- ---- BPXROOT

14.0 Dir rw+xr-x x fff--- ---- BPXROOT
15.0 Dir rw+xr-x 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 Fmt Owner
. . Dir rw+xr-x x fff--- ---- BPXROOT
.. Dir rw+xrwx-x x fff--- ---- BPXROOT

SP01 Dir rw+xr-x x fff--- ---- BPXROOT

0000 Dir rw+xr-x 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.
Hints and Tips – Catalog Cleanup

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

In CSM 5.1 the option is now “Clean Up and Hide”.

![CA Chorus™ Software Manager Interface]

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Hints and Tips – Catalog Cleanup
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

General  Progress
Name: Acquire Product Knowledge
Task ID: 1039
User ID: SYS35
Status: Succeeded
Status Message: Succeeded

Site 1 of 1 - Products for Site Processing 185 of 387
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

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