CA MSM CSM User Experience
CA Chorus™ Software Manager

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Base Technologies Inc, A CA Technologies Company, for
U.S. Customs and Border Protection

Tuesday, February 5, 2013 3:00 PM
Session 13037
Our environment

• Two Sysplexes, Prod and Test. Prod is an 8 way and test is a three way.

• DASD and UCATs shared across all systems (yes, this causes a problem for PDSes’s)

• We run a lot of ISV’s. Top Secret, FDR, Syncsort, etc.

• I consider myself a novice MSM user. Relatively speaking, I’ve probably done more than most, but still feel rather new at it.
Our environment: Software levels

- z/OS is at 1.13, PUT level is 1210.

- We are in the middle of migrating PUT 1210 through our lpars.

- We put z/os maintenance on bi-monthly, two PUTs back, plus any applicable hipers or special request PTFs.

- We put ISV maintenance on with the IPL schedule in mind, usually one month back.
Our environment: MSM

- MSM, like SMPE, runs only in our SYSPROG LPAR. That LPAR has two shared GP’s and a shared z/zip
- LPAR has 10G storage
- We’ve not had problems with response time:

06.52.50 S0056068  ---- WEDNESDAY, 19 DEC 2012 ----
06.52.50 S0056068  IEF695I START MSMTC WITH JOBNAME MSMTC IS ASSIGNED
06.52.50 S0056068  $HASP373 MSMTC STARTED
06.52.50 S0056068  IEF403I MSMTC - STARTED - TIME=06.52.50 - ASID=0121
06.53.12 S0056068  MSM0013I CA CSM STARTUP INITIATED
06.54.00 S0056068  MSM0009I CA CSM STARTUP COMPLETE

... 

12.56.01 S0056068  MSM0014I CA CSM SHUTDOWN INITIATED
12.56.39 S0056068  MSM0011I CA CSM HAS TERMINATED SUCCESSFULLY
12.56.42 S0056068  - ----- 
12.56.42 S0056068  -STEPNAME PROCSTEP RC EXCP CONN
12.56.42 S0056068  - CSMSRV 00 257K 18935
12.56.42 S0056068  IEF404I MSMTC - ENDED - TIME=12.56.42
12.56.42 S0056068  -MSMTC ENDED. NAME=CA MSM
12.56.42 S0056068  $HASP395 MSMTC ENDED

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Our MSM History

• May 2, 2011 - Downloaded and installed MSM 3.1
  • Had a lot of fun installing, setting it up, mainly SAF issues.
  • SAF wounds were self inflicted
• August 16, 2011 - Upgraded to MSM 4.0
• November 14, 2011 - Upgraded to z/OS 1.13
• November 29, 2011 - Installed 48 PTFs
• December 19, 2011 - Downloaded and installed MSM 4.1
• July 11, 2012 - Downloaded and installed MSM 5.0
• July 23, 2012 - Applied approximately 30 PTFs to MSM 5.0
• Dec 19, 2012 – Upgraded to MSM 5.1 beta
MSM 3.1

- Initial install took a few days
  - Security Setup
  - Catalog Aliases
  - WLM classifications
  - AO startup/shutdown

- The CCS guy hadn’t installed FMID CETN300, since we weren’t using MSM at that time.
MSM 4.0

- Downloaded and installed 8/16/2011 at the request of the Datacom guys. (R14 for them)
- One thing I messed up was unpaxing in my /capack directory rather than in /msmserv/v40/msminstall
- This caused my MSMInstaller, MSMProduct and MSMSetup to land in the wrong location.
- `cp -r -p /capack/MSMInstaller /msmserv/v40/msminstall`

```java
java.io.FileNotFoundException: File
'/msmserv/v40/msmruntime/tomcat/webapps/MSM/MSMMain.html' does not exist
```

```
INFO: Deploying web application archive MSM.war
init
SEVERE: Exception fixing docBase for context [/MSM]
Throwable occurred: java.io.IOException: EDC5133I No space left on
device.
MSMRUNRT was full. Grew the zfs, unmounted, remounted, bounced
MSMTC
```
MSM 4.1 Upgrade

• Very smooth! Too smooth, in fact. 😊

• /msmserv/msmInstall/MSMSetup/MSMSetupOptionsFile.properties

• PreviousRelease.MSMPATH=/msmserv/v40/msm

• Specifying the wrong ‘PreviousRelease’ makes MSM appear to be a few months older than it was before. Maintenance is missing, etc.
  • /msmserv/msm
  • /msmserv/v40/msm
MSM 5.0

- Release was requested by the Datacom guys, via Level 2.
- Started at 8:00AM, completed at 10:12AM.
- Smooth sailing.
- A few days later, applied 20-some PTFs.
- Missed the MSMDEPLY job somehow
- After I ran it, bounced MSM, got a browser message that my cache didn’t match my MSM version, and to clear cache. Did that and all was well.
MSM 5.0 Upgrade – Overview

- Order and download PAX from CA Support
- `pax -rvf 50000068X01.pax.Z`
- `sh MSMSetup.sh copyOPT /msmserv/v41/msm/`
- Checked `capack/msmserv/v51b/msminstall/MSMSetup/`
  - MSMSetupOptionsFile.properties
- MSMSetup.sh
- Startup DBMSMUF (Datacom MUF)
- Run MFNEW03
- Startup DBMSSRVRR (Datacom Server)
- Startup MSMTC (TomCat Server)
- Logon, and ‘Migrate an existing CSI’ to bring MSM 5 in.
MSMDEPLY Notes

- /msmserv/V50/msm is the TARGET path
- /msmserv/V50/msmruntime is where MSM actually executes
- This is all set up for you properly in SMPE
- You just have to remember to run the ‘deploy’ job.
- Maybe there should be holddata for that. 😊
  - 21272477-1: DAR - MSMDEPLY IN HOLDDATA
Where stuff is

- **OPTIONS File:** (Only used during install, used for copyopt)
  - /msmserv/v51b/msm/CEGPHFS/MSMSetupOptionsFile.properties

- **BANNER File:**
  - /msmserv/v51b/msmruntime/tomcat/webapps/MSMBanner.html
UITool

- Used the UITool with MSM 3.1, 4.1, 5.0 and 5.1.
- You download it along with MSM itself
- Like! Or Plus 1 if you’re a Google Plus person
- `exec 'CAMSM.V51B.UITOOL(#RUNTOOL)'`

**MAIN MENU**

OPTION ==> _____________________________________________________

Gather Site values for CSM Option File parms
1 Gather Site values for Pre-Filling Installer Option File

Create and Mount paths for CSM installation
2 zFS Multiple File System JCL or
3 zFS Single File System JCL or
4 HFS Multiple File System JCL or
5 HFS Single File System JCL

D Display Mount File Attributes

Edit CSM Installation Options File
6 Using pre-filled site values or
7 Using ISPF Editor

I CSM Installer Invocation Details
H Help L Log

Enter = Process PF12 = Exit
TIPS

Navigation Tabs

CA Chorus™ Software Manager

Product News
December 21, 2012
Happy holidays from CA Technologies!

New Maintenance

Information: There are no new HIPERs for any product.

Warning: 2 new maintenance items are available for 1 product.

Information: There are no new products, no new releases, and no new gen levels available.

Information: There are no new CA RS files.

SMP/E Environments

Information: There are no SMP/E environments with missing HIPERs.

Information: There are no SMP/E environments with missing maintenance.

Tasks

Warning: You have 5 current tasks.

Information: There are no tasks awaiting your input.

Information: There are no tasks in error.

Quick Actions

CA CSM Actions
Migrate SMP/E Environment
View CA Support Online Credentials
CA CSM Information
CA Support Online for CA CSM
CA CSM Resource Center
CA CSM Knowledge Center
General Information
CA Chorus Information
CA Recommended Service (CA RS)
Release and Support Lifecycle Dates
CA CSM Compliant Product Matrix
SMP/E Environments
Tasks Tab

Breadcrumbs/Subtabs

![CA Chorus™ Software Manager screenshot](image)

<table>
<thead>
<tr>
<th>Task Name</th>
<th>Type</th>
<th>Status</th>
<th>Message</th>
<th>Progress</th>
<th>Start Time</th>
<th>Task ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECEIVE HOLDDATA</td>
<td>FIXCAT Update</td>
<td>Succeeded</td>
<td></td>
<td>100 %</td>
<td>12/5/2012 12:06:32PM</td>
<td>1197</td>
</tr>
<tr>
<td>HOLDDATA</td>
<td>FIXCAT Update</td>
<td>Succeeded</td>
<td></td>
<td>100 %</td>
<td>12/5/2012 12:06:32PM</td>
<td>1196</td>
</tr>
<tr>
<td>Apply Settings - MVS Program Executor - Output, Package Management - User</td>
<td>System Settings</td>
<td>Succeeded</td>
<td></td>
<td>100 %</td>
<td>7/19/2012 10:42:02AM</td>
<td>794</td>
</tr>
<tr>
<td>Acquiring CA Mainframe Software Manager - MVS 5.0</td>
<td>Product Acquisition</td>
<td>Succeeded</td>
<td></td>
<td>100 %</td>
<td>7/17/2012 01:23:02PM</td>
<td>787</td>
</tr>
<tr>
<td>Acquire CA 1 Tape Management - MVS</td>
<td>Product Acquisition</td>
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<td></td>
<td>100 %</td>
<td>7/11/2012 12:31:48PM</td>
<td>776</td>
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<tr>
<td>Acquiring CA Mainframe Software Manager - MVS 5.0</td>
<td>Product Acquisition</td>
<td>Succeeded</td>
<td></td>
<td>100 %</td>
<td>7/11/2012 06:31:20AM</td>
<td>764</td>
</tr>
</tbody>
</table>
Tasks Tab – Task History

Navigation
Tabs
Subtabs

Help

Refresh
Number of items

Tasks Tab – Task History

CA Chorus™ Software Manager

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

Task History

Current date and time is 12/27/2012 10:51:01AM

Show: My tasks All types All status □ Start Time □ Stop Time

Select: My tasks

Exception SYSMOD Report for CASMP, MSYM30, SMPE, SMPCS1, CS1

Apply Settings - Mount Point Management, Mountpoint Management - Data Set Allocation, Managed Product USS File Systems

Apply Settings - Base Settings, HFS Data sets Parameters, HOLDDATA, CA RS

Apply Settings - Base Settings, HFS Data sets Parameters, HOLDDATA, CA RS

Apply Settings - Base Settings, HFS Data sets Parameters, HOLDDATA, CA RS

Exception SYSMOD Report for CASMP, CA1V126, DP00, CSI

Apply Settings - Base Settings, HFS Data sets Parameters, HOLDDATA, CA RS

Update HOLDDATA

Acquire Product Knowledge

Receiving Maintenance

Remove of release CA Mainframe Software Manager - MV5, 4.1

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Tasks – Review previous output
Tasks Tab – View SMPRPT sysout
I miss green bar paper
Settings Tab

CA Chorus™ Software Manager

Software Acquisition

Information

- **Information**: Changes made are applied immediately.
  - To set user and password, use settings in section User Settings - Software Acquisition.

HTTP Proxy

- **Enable Proxy Settings**: ✔
  - **Address**: [Redacted]
  - **Port**: 80

Enable Advanced Settings:

- **Advanced Settings Data Set**: CAMSM.V50.RUN.CUSMAC(PASADVOP)

FTP Proxy

- **Enable Proxy Settings**: ✔
  - **Address**: 10.159.[Redacted]
  - **Port**: 21

Enable Advanced Settings:

- **Advanced Settings Data Set**: CAMSM.V50.RUN.CUSMAC(PASADVOP)

Acquisition Options

- **CA MPS Usage**: 

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SHARE in San Francisco 2013
Settings – Remote Credentials

CA Chorus™ Software Manager

FTP Proxy

Enable Proxy Settings: ✓
Address*: 10.159.168.197
Port*: 21
Enable Advanced Settings:  
Advanced Settings Data Set: CAMSM.V5G.RUN.CUSMAC(PASADVOP)

Acquisition Options

CA MPS Usage:  
Ignore Common Products During Discovery:  
Use HTTP for Downloads:  

CA Support Online Accounts

<table>
<thead>
<tr>
<th>Support Online User ID</th>
<th>Owner</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Redacted]</td>
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<td>Not available</td>
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</tr>
<tr>
<td>[Redacted]</td>
<td>[Redacted]</td>
<td>Not available</td>
</tr>
<tr>
<td>mary.a.matyaz@[Redacted]</td>
<td>[Redacted]</td>
<td>Not available</td>
</tr>
<tr>
<td>mary.a.matyaz@[Redacted]</td>
<td>MAM</td>
<td>Actions</td>
</tr>
<tr>
<td>[Redacted]</td>
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</tr>
<tr>
<td>[Redacted]</td>
<td>[Redacted]</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Complete your sessions evaluation online at SHARE.org/SanFranciscoEval
Migrate a CSI
Migrate a CSI - Summary

This step lets you review the SMP/E environment migration settings you have specified before starting the migration. To start the migration, click Migrate.
Migrate - Succeeded
Let’s apply some service…
### Applying Service Wizard

#### Introduction
You are about to apply the following maintenance packages: ROS2035, ROS2020. Review your selection in the following screens. To continue, click the Next button.

#### Maintenance Action Wizard

1. **Welcome**
2. Select Maintenance
3. Select Options
4. Prerequisites
5. HOLDDATA
6. SMP/E Work DDDEFs
7. Summary

---

Complete your sessions evaluation online at SHARE.org/SanFranciscoEval
Applying Service – Select PTFs

**Select Maintenance**

Select maintenance packages to be applied. You cannot apply disabled maintenance packages.

<table>
<thead>
<tr>
<th>Select</th>
<th>Name</th>
<th>Description</th>
<th>Status</th>
<th>Zones</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RO52035</td>
<td>CHORUS SOFTWARE MANAGER (MSM) BETA PTF 1</td>
<td>Received</td>
<td>CAIT</td>
</tr>
<tr>
<td></td>
<td>RO52020</td>
<td>CA CHORUS SOFTWARE MANAGER (CA CSM) BETA REFRESH PTF</td>
<td>Received</td>
<td>CAIT</td>
</tr>
</tbody>
</table>

Selected 2 of 2.
Applying Service – Apply Check
Applying Service

Summary

SYSMODs that cannot be APPLIED because they are SUPERSEDED or have ERRORHOLDATA
None.

Selected Maintenance Packages
- RO52035 - CHORUS SOFTWARE MANAGER (MSM) BETA PTF 1 - SELECTED ZONE: CAIT
- RO53020 - CA CHORUS SOFTWARE MANAGER (CA CSM) BETA REFRESH PTF - SELECTED ZONE: CAIT

Installation options:
- Selected installation options:
- Perform APPLY CHECK on selected maintenance items.

Prerequisites
- No prerequisite needs to be confirmed.

HOLDDATA
- No HOLDDATA needs to be reviewed.

SMP/E Work DDDEFs
- There are no SMP/E Work DDDEFs to override.
Applying Service
Applying Service – Summary of Apply

Summary

SYSMODs that cannot be APPLIED because they are SUPERSEDED or have ERRORHOLDDATA
None.

Selected Maintenance Packages
RO52035 - CHORUS SOFTWARE MANAGER (MSM) BETA PTF 1 - SELECTED ZONE: CAIT
RO53020 - CA CHORUS SOFTWARE MANAGER (CA CSM) BETA REFRESH PTF - SELECTED ZONE: CAIT

Installation options
Selected installation options:
Perform APPLY on selected maintenance items.

Prerequisites
Prerequisites: No prerequisite needs to be confirmed.

HOLDDATA
No HOLDDATA needs to be reviewed.

SMP/E Work DDDEFs
There are no SMP/E Work DDDEFs to override.

Back  Next  Apply  Cancel
Fear not, Grasshopper

• Your SMP/E CSI and all its datasets are still where they were
• You can still access them via the SMP/E ISPF Panels
• You can still Receive, apply, and accept in batch
• The only thing you really *shouldn’t* do outside of MSM is delete the CSI. And FYI, when you delete a CSI *in* MSM, he will go to each of the DDDEF datasets and delete those too!
### SMP/E Panels

#### CSI CROSS-ZONE QUERY - ENTRY SELECTION

---

**Entry Type:** SYSMOD  
**Entry Name:** R053020  

To return to the previous panel, enter END.

To select an entry from a zone, enter S next to the zone.

* - Entry not found in zone.  
** - Zone could not be allocated or is not initialized.

<table>
<thead>
<tr>
<th>ZONE</th>
<th>TYPE</th>
<th>FMID</th>
<th>STATUS</th>
<th>DATE</th>
<th>TIME</th>
<th>REWORK</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAID</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAIT</td>
<td>PTF</td>
<td>CEGP510</td>
<td>APP</td>
<td>12.362</td>
<td>14:38:21</td>
<td></td>
</tr>
<tr>
<td>GLOBAL</td>
<td>PTF</td>
<td></td>
<td>REC</td>
<td>12.362</td>
<td>14:31:18</td>
<td></td>
</tr>
</tbody>
</table>

************************************************************************** Bottom of data **************************************************************************
## SMPPTS contents

<table>
<thead>
<tr>
<th>Menu</th>
<th>Functions</th>
<th>Confirm</th>
<th>Utilities</th>
<th>Help</th>
</tr>
</thead>
<tbody>
<tr>
<td>USCT</td>
<td>BROWSE</td>
<td>CASMP.MSMV51B.SMPE.SMPPTS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Command ===>

<table>
<thead>
<tr>
<th>Name</th>
<th>Prompt</th>
<th>Size</th>
<th>Created</th>
</tr>
</thead>
<tbody>
<tr>
<td>_______</td>
<td>R049964</td>
<td></td>
<td></td>
</tr>
<tr>
<td>_______</td>
<td>R050501</td>
<td></td>
<td></td>
</tr>
<tr>
<td>_______</td>
<td>R050604</td>
<td></td>
<td></td>
</tr>
<tr>
<td>_______</td>
<td>R052035</td>
<td></td>
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</tr>
<tr>
<td>_______</td>
<td>R053020</td>
<td></td>
<td></td>
</tr>
<tr>
<td>_______</td>
<td>TR39075</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>End</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Tips...All those zFS’s...

```
//STEP05A  EXEC PGM=DBSQLPR,
//         PARM='PRTWIDTH=1500,INPUTWIDTH=72'
//STEPLIB  DD DSN=CAMSM.V50.RUN.CUSLIB,DISP=SHR
//         DD DSN=CAMSM.V50.RUN.CAAXLOAD,DISP=SHR
//CXX      DD  DSN=CAMSM.V50.RUN.CXX,DISP=SHR
//SYSUDUMP DD SYSOUT=*  
//SYSPRINT DD SYSOUT=*  
//STDERR  DD SYSOUT=* 
//STDOUT   DD  SYSOUT=*  
//OPTIONS  DD  *  
AUTHID=CASWMGT
/*
//SYSIN    DD  *
/*
SELECT * FROM MOUNTPOINT;
/*
MOUNTPOINTID,     <8>,                      INT NOT NULL
MP_PATH,          < /msmserv/mpm/scroot/DatabaseM/CA/MAINTENANCE>, VARCHAR
MP_DATASET,       < OMVS.CAMSM.MSMT5>, VARCHAR(16/45)
MP_TYPE,          <*> (NULL),                VARCHAR(20)
MP_OPTIONS,       < ZFS>,                    VARCHAR(3/2000)
MOUNTPOINTID,     <9>,                      INT NOT NULL
MP_PATH,          < /msmserv/mpm/scroot/DatabaseM/CA/MAINTENANCE/descri
MP_DATASET,       < OMVS.CAMSM.MSMT6>, VARCHAR(16/45)
MP_TYPE,          <*> (NULL),                VARCHAR(20)
MP_OPTIONS,       < ZFS>,                    VARCHAR(3/2000)
MOUNTPOINTID,     <10>,                     INT NOT NULL
MP_PATH,          < /msmserv/mpm/scroot/DatabaseM/CA/MAINTENANCE/CA_1_T
40)               
MP_DATASET,       < OMVS.CAMSM.MSMT7>, VARCHAR(16/45)
MP_TYPE,          <*> (NULL),                VARCHAR(20)
MP_OPTIONS,       < ZFS>,                    VARCHAR(3/2000)
```
Stupid things I did along the way…

• I lost my notice and consent banner. 😊 It lives in: /msmserv/v50/msmruntime/tomcat/webapps/MSMBanner.html
  • Make a copy (I did have a copy, just had to find it)
• Got an error in MSM when I had the CSI in use in SMPE in TSO.
• S047 in MSMTC because it used a steplib and SIOELNKE wasn’t explicitly apf’ed. This created a bunch of MSMTnn zfs’s that didn’t get IOEAGFMT’ed. Ugly.
• Missed the MSMDEPLY (Deploy) job after applying maintenance.
• Accidentally got CAMSM SAF security turned on, without actually putting the definitions in.
  • We rely on dataset security at this point
Current status

- I use it for my products (acquisition and maintenance)
- I’ve imported SMPE zones in, and used it for new products
- Another sysprog, who does most of the CA products, is reluctant, but willing to try.
- The Datacom guys love it:
  - It’s just so much quicker!
  - It uses CA-Datacom databases!
- We’re not using Deployment or Configuration yet. We have a fairly robust and well-loved deployment process. I’m picking my battles.
- DB2 is using it (They heard the datacom guys talking about it)
- CICS is using it for their Intertest product
Overall Pro’s and Con’s

• PRO’S:
  • Everything is in one place. Someone else can come in and pick it right up.
  • Love the ability to manipulate the holddata, smp/e output, etc.
  • I CAN put PTFS on and take them off in 45 seconds. No looking for JCL, changing the APPLY statement…etc. No uploading fixes, oops I forgot bin, finding ftp jcl, etc.

• CON’S:
  • Adoption by the other sysprogs is slow.
  • Adjusting to the terminology
Room for improvement:

• I use different TSO ID’s. I’d like to have two TSO ID’s use the same CA support ID. FIXED in 5.1!

• I’d like to be able to adjust the navbar and columns a bit.

• Cancelling (rather than hiding) a task

• I’d like to be able to hide the news.
Room for Improvement

• Strange field lengths in User Settings:
  • GIMUNZIP Temporary Prefix; we wanted DATACOM.R14BETA, we could only get R14BET.
  • However, volser field is plenty long, but gives 1-6 error msg.
Conclusions:

• Well worth the effort to get it going.
• You could have colored me skeptical initially.
• I am now a fan.
• And I haven’t even tried deploy and config yet!
• From a 25 year systems programmer who still prefers MVSCP to HCD…give it a try!
Some of my MSM Emails…

• The r14 ‘mass PTF install’ went very well, Mary Anne. Pointed the ‘external dataset’ at a member with 21 PTFs of which 4 were installed, and one other was on as an APAR. You remember that I was concerned that MSM might try to re-apply those 4, and cause an error. Well, when it displayed the contents of the member, it listed all 21 PTFs as separate line items, correctly annotating those 4 that were already installed. When I hit ‘SELECT’, it automatically selected just the 17 new ones (including the one replacing the APAR), so there was no question of trying to reinstall a fix. After that it was a regular MSM install.

• Summer, just wanted to let you know that I brought z/OS 1.13 up today and checked MSM…it came up, no intervention, no configs, nothing. Just comes right up beautifully. Great job!

• I used your advice, and played with selecting the CAS RS level on the PTFs. I also played with the UPGRADE CAS RS LEVEL from the SMPE/Information level (before maintenance). That actually was quite easy to use. So, I think that I’ve played with all avenues of applying maintenance.
20586681-1: ENHANCEMENT REQUEST

20586681-1  10/17/11
We'd like an enhancement to MSM that allows us to specify NORWSHARE on the zfs mounts for the MSMTnn files. Since MSM takes care of the mounting/unmounting of these files, we are unable to specify this attribute. We only run MSM in one LPAR. Defaulting to RWSHARE can cause unnecessary overhead.

12/27/11 Accepted and is currently targeted for implementation in a future release.

21272477-1  01/24/13 MSMDEPLY IN HOLDDATA
21272467-1  01/24/13 ALLOW UNCHECKING OF DDDEF
21247841-2  01/10/13 Allow REJECT(APPLYCHECK)
Education

• https://support.ca.com/irj/portal/anonymous/phpdocs?filePath=0/8319/8319_videoindex.html

• Give the link above to other sysprogs (or in my case, the Datacom and CICS guys).

• How to search for PTFs. :

• https://support.ca.com/phpdocs/7/8319/videos/MSM_Search%20KD_demo/MSM_Search%20KD_html_demo/TEC511364.html (% is a blank)

• How to find jobs that you have run through MSM:

• https://support.ca.com/phpdocs/7/8319/videos/MSM_Task/HTML_Demo/TEC527579.htm
Questions?