

CA Chorus Software Manager UPS Experience



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Agenda

- Installation History at UPS
- Environment
 - Mainframe Configuration
 - CSM Installation & Configuration
 - CSM SMP/E Environment
 - CSM Runtime Environment
- Customer Enhancement Requests (DAR)
- CSM-Enabled Products
- Deployment Management
- Recommendations
- Conclusion

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Installation History at UPS

- 10/2009 2.0 Review/Installation
- 02/2010 2.0 Product Install
- 08/2010 3.0 Product Install (New Install)

Deployment Manager Exploitation

Single File System Allocation

> SMP/E options added (Receive, Apply Check, Apply, Groupextend)

02/2011 3.1 Product Install (New Install)

CA RS Processing

03/2012 4.1 Upgrade (Data Migration)

> CA MSM Resource Center

> Maintenance Usability Enhancements

02/2013 5.1 Upgrade (Data Migration)

Deployment Cloning

Download Maintenance Only!

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Mainframe Environments at UPS

- 4 Sysplexes
 - 2 Production
 - Consisting of 18 LPARs
 - ➤ 1 Development
 - Consisting of 3 LPARs
 - 1 Stress
 - Consisting of 2 LPARs
- 3 MonoPlexes
 - 2 Production
 - ➤ 1 Development

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- JESINTERFACELEVEL=2 using OMVS to install.
- We let SMS do all the "heavy lifting" during the build process.
- CSM address spaces primarily reside on DVLP LPAR and can be moved to any of the 3 development LPARs by modifying the "context.xml" file in /msmruntime/tomcat/conf/
- Starting with MSM 3.0 & again with 4.0, we had to apply maintenance to Common Services 12.x (CETN300, CETN400). By the time we upgraded to 5.1, Common Services was at release 14.1 and required no additional maintenance.

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- Starting with MSM 4.1, we noticed our OMVS "high water marks" increasing from the MSM requests. As a result: We Modified the following OMVS parameters:
 - MSM 4.1 increased MAXMMAPAREA from 4096 to 40960
 - MSM 5.1 increased SHRLIBRGNSIZE from 67108864 to 157386400
 - MSM 5.1 increased IPCMSGNIDS from 500 to 1000

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/ INPOI/			
D OMVS,L			
BPX0051I 15.24.	23 DISPLAY	OMVS 112	
OMVS 0010 A	CTIVE	OMVS	S = (00, 01)
SYSTEM WIDE LIM	ITS:	LIMMSG=NC	ONE
	CURRENT	HIGHWATER	SYSTEM
	USAGE	USAGE	LIMIT
MAXPROCSYS	1215	1400	1500
MAXUIDS	75	80	100
MAXPTYS	0	3	8000
MAXMMAPAREA	7168	7189	40960
MAXCHARFPAGES	41154	99342	10000000
IPCMSGNIDS	29	32	1000
IPCSEMNIDS	43	48	500
IPCSHMNIDS	32	35	500
IPCSHMSPAGES	40	53	262144
IPCMSGQBYTES		456	262144
IPCMSGQMNUM		7	10000
IPCSHMMPAGES		12800	25600
SHRLIBRGNSIZE	157286400	157286400	157386400
SHRLIBMAXPAGES	0	0	4096
MAXUSERMOUNTSYS	0	0	О
MAXUSERMOUNTUSE	R 0	0	0

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- Starting with MSM 4.1 and with CSM 5.1, the Data Migration Utility was used to upgrade the existing product inventory.
- Initial Upgrade to CSM 5.1, we changed from JAVA 6.01 31bit to JAVA 7.0
 31Bit and experienced "Out of Memory" during initial load of the logon screen.
 Worked with support and down leveled to JAVA 6.01 64Bit. Problem resolved.
- Upgraded to JAVA 7.01 64Bit. No issues.....

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Runtime Environment

Unique file system for each release of CSM:

Туре	Perm Changed-EST5EDT Owner	Size F	ilename
_ Dir	775 2013-07-05 10:39 OMVS	8192 .	
_ Dir	775 2011-10-07 12:12 SYS1CJD	608	
_ Dir	775 2013-03-08 13:28 SYS1CJD	8192	deploy
_ Dir	775 2013-04-04 10:19 OMVS	384	mpm
_ Dir	775 2013-04-10 10:20 OMVS	8192	msmtmp
_ Dir	775 2011-03-03 14:52 OMVS	256	v3r0
_ Dir	775 2011-03-07 12:11 OMVS	256	v3r1
_ Dir	775 2012-02-21 07:37 SYS1CJD	672	v4r1
_ Dir	775 2013-04-10 09:37 SYS1CJD	8192	v5r1

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SMP/E Environment

We build a new SMP/E environment for each release of CSM:

EUID=1008 /smpe/ca/msm/

Туре	Peri	m Changed-	EST5E	DT Owne	r	Size	Filename
_ Dir	775	2013-03-07	14:43	SYS1CJD	8´	192.	
_ Dir	775	2012-02-15	14:26	SYS1CJD	6	72	
_ Dir	775	2011-03-02	14:30	SYS1CJD	2	56	v3r0
_ Dir	775	2011-03-02	14:30	SYS1CJD	2	56	v3r1
_ Dir	775	2012-01-10	10:59	SYS1CJD	2	56	v4r1
Dir	775	2013-03-07	14:46	SYS1CJD	81	92	v5r1

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Customer Enhancement Requests (DAR)

• SMP/E Receive, Apply Check and Apply

In MSM 2.0, SMP/E was limited to an install function. Receive, Apply Check, and Apply all in one action.

CA RS Maintenance Package & Receive (available with 6.x)

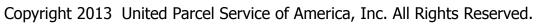
Currently, CA RS is limited to reporting recommended service. A request was submitted to enhance CA RS with download and receive options.

Data Set Allocation – Deployment (considered)

The current deployment feature transmits and allocates data sets in bytes ONLY! No option available to customize the allocation.

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CSM Enabled Products Installed at UPS:

- Currently, 26 CA products are installed on UPS Mainframes.
- 21 are Installed and Managed in CSM.
- With the opportunity to migrate/manage 5 DB2 Utilities.
- CSM is managed by z/OS and third party software support team.
- CSM accessible to all mainframe software support groups.

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Deployment & Configuration

- Leveraging TCPIP.
- Deploy to 4 SYSPLEXES & 3 Mono Plexes.
- Deployments are scheduled to staging libraries with Legacy Procedures for "RUNTIME" population.
- We "DO NOT" utilize Software Configuration Services.

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Deployment – System Registry

We are CCI-registered to 1 LPAR on each Plex.

CA Chorus™ Software Manager				sys1cjd	
	vironments Deployments Confi	gurations System Registry Tasks	Settings		
Search	Sysplexes				
Jearch For:	<u>System Registry</u> > Sysplexes	System Registry > Sysplexes			
earch In:	Information	Information			
Systems Search	Information: To create a r	Information: To create a new system object, select the appropriate action.			
Actions Sysplexes Create Non-Sysplex System Select and: Delete Create Shared DASD Cluster Select and: Delete					
<u>Create Staging System</u> <u>faintain Data Destinations</u>	Select	Name	Description	Actions	
System Registry		DVLP		Actions -	
🖯 🗊 System Registry		GRMY		Actions -	
🖼 Non-Sysplex Systems Ξ 🌄 Sysplexes 🕨		MENT		Actions 🔻	
G Syspiexes DVLP		<u>MVS1</u>		Actions 🔻	
🕀 🔩 GRMY		RAMAPO		Actions 🔻	
		STRESS		Actions -	
E 🔩 RAMAPO		WINDWARD		Actions -	
🕀 🌄 STRESS	Selected 0 of 7.				
🕀 🛃 WINDWARD					

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Deployment - Methodologies

- Maintain a separate "Methodology" for each product. We use a "standard" SMS-Managed HLQ.
- Choice of:
 - Create
 - Create or Update
 - ➢ Replace

Since our deployment data sets are for "staging purposes", they should never be "in use" by another user, so we use the "REPLACE" option.

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Deployment – Methodologies

Information	Information					
Information: You can create, edit or delete methodologies.						
Methodologies Create						
Select and: D				1 - 10 of 16 🛛 🔻 > >>		
Select	Name 🌲	Description	DSN Mask	Actions		
	CA Deliver 11.6		N802.CA.DELV11R6	Actions -		
	CA Faver 4.5		N802.CA.FAVER45	Actions		
	CA TLMS 12.6		N802.CA.TLMSR126.PTFS	Actions -		
	CA View		N802.CA.VIEWR116	Actions		
	CA1 12.6		N802.CA.CA1V12R6.PTFS	Actions		
	cadisk		N802.CA.DISK	Actions		
	CASpool		N802.CA.SPOOL116	Actions -		
	cjd view test		N802.CA.VIEW	Actions		
	del 117		N802.CA.DEL117	Actions -		
	Easytreive		N802.CA.EASYT116	Actions		
1 - 10 of 16 ▼ > >>						
Selected 0 of 16.						
				Close Help		

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Recommendations

- Stay as current as possible with JAVA JRE.
- Always stay current with CA Common Services.
- Use "Prerequisite Validation".
- Monitor your OMVS "System Wide Settings". CSM 5.1 had a substantial impact on these settings.

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Conclusion

- Substantially cuts down on the amount of time to bring a product to production.
- Little training required. Whether new to SMP/E product delivery and maintenance or experienced, CSM offers the flexibility to bring a product to production in a fraction of the time. CSM offers the experienced programmer flexibility to manage the outcome.
- CSM has grown immensely since 2.0 and offers a complete service from ordering a product through production implementation.
- "Browser Friendly"

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Questions?

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Thank You

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