



# CA Chorus Software Manager User Experience at Verizon

## Session 15601

August 6, 2014



# Agenda

---

- Verizon Environment
- Verizon software distribution methodology
- CSM Installation History at Verizon
- Where we see value in CSM
- Recommendations
- Surprises Perhaps
- Summary



# Verizon Environmentals

- zSeries Environment
  - 5 Data Centers
  - 16 Sysplexes, 7 sandbox or test, 9 production
  - 110+ LPARs
  - 230k Active MIPS
  - 75+ CA products and sub products
- CSM Environment
  - CSM 6.0
  - Installed on systems programmer sandbox only
  - Used for z/OS based products, IDMS and Datacom
  - Only used for product installation and maintenance. Configuration and deployment are accomplished via an internal process



# Software Distribution Methodology

- Install once, distribute many
  - All zSeries software is installed in software “warehouse” on our sandbox system by the product developer
  - After installation (RECEIVE – APPLY) software is included in our build process to create an executable version of the software
  - SMP environment copied from the “warehouse” version to an execution environment
  - All executable software resides on the two sysres volumes
- Quarterly software distributions
  - Follows the IBM quarterly RSU calendar
  - Each quarterly RSU is a complete replacement for all prior RSUs
  - Products that have not had any maintenance applied are included in the quarterly distribution as well as products that have had maintenance applied
  - Distributed the month after the IBM quarterly RSU becomes available
  - Takes roughly 8 weeks to roll a distribution through all test and production systems
  - IBM monthly RSU, weekly HIPERs and PEs are downloaded and installed by one person.
  - OEM products are maintained by the developer as maintenance becomes available from the vendor



# CA CSM at Verizon

- June 2010: Install MSM 2.0
  - Configured for use our sandbox system
  - Limited use, poor performance,
- February 2011: Installation of CSM 3.1
  - New product install (separate CSI, separate filesystem)
  - Difficult to migrate the configuration from one release to another
  - Confusing methods to download maintenance
  - Reimport of all managed CSIs
- May 2012: Upgrade to CSM 4.1
  - New install, configuration migration no better than the 2.0 – 3.1 migration
  - Better performance for smaller CSIs, performance for large CSI still abysmal
  - Used primarily for maintenance installation in single product CSIs
- May 2013: Upgrade to CSM 5.1
  - New install, configuration still overly complicated
  - Required help from CA to migrate configuration from 4.1 to 5.1
  - Performance on large CSI no better, fractionally better for smaller CSIs
- May 2014: Upgrade to CSM 6.0
  - Performance markedly improved for large CSI via “zone sets”
  - CA RS Wizard provides good functionality



# CSM's Value

- Previously used CAMPUS
  - CAMPUS was a CA offering that packaged maintenance for all CA products on a semi annual basis.
  - One developer downloaded and installed the CAMPUS tape maintaining all of the products in a single event.
  - New product releases could be included with CAMPUS; we did maintenance only installs.
  - CAMPUS was discontinued several years ago leaving the burden of regular maintenance to the developer
- CA RS
  - CA's monthly maintenance package similar to IBM's monthly RSU
  - Packages CA tested and certified maintenance
- CSM
  - Allows the application of CA RS maintenance via the UPGRADE CA/RS LEVEL function
  - Can span multiple products and multiple zones
- Marriage of CA RS and CSM gets us back to one developer maintaining multiple products in a single event



# Upgrade CARS Maintenance Level

**CA Chorus™ Software Manager**

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

**Search**

Search for:

Search in: SMP/E Environment

**Actions**

[Migrate SMP/E Environment](#)

**SMP/E Environments**

- SMP/E Environments
  - CA Datacom Server - MVS R14
  - CA Products
    - Zone Sets
      - All CA Products**
      - CA 1
      - CA 11
      - CA 7
      - CA Deliver

**All CA Products**

SMP/E > CA Products > Zone Sets > All CA Products

Zone Set Information | **Installed Products** | Maintenance

**Name:** All CA Products

**Description:** Warehouse target zones for all products.

**Actions:**

**Target Zones**

Name	Data Set	Status
<a href="#">BLDRTGT</a>	OEM.VISNBLDR.R150.CSI	✓ This zone exists in the SMP/E environment and is valid.
<a href="#">CA16TGT</a>	OEM.CA1.R126.CSI	✓ This zone exists in the SMP/E environment and is valid.
<a href="#">CA7CTGT</a>	OEM.CA7.R113.CSI	✓ This zone exists in the SMP/E environment and is valid.
<a href="#">CL7BTGT</a>	OEM.CA11.R11.CSI	✓ This zone exists in the SMP/E environment and is valid.
<a href="#">CPYCTGT</a>	OEM.COPYCAT.R120.GLOBAL.CSI	✓ This zone exists in the SMP/E environment and is valid.
<a href="#">DL12TGT</a>	OEM.GLOBAL.CAMPUS.CSI	✓ This zone exists in the SMP/E environment and is valid.
<a href="#">ESPTGT</a>	OEM.ESP83.GLOBAL.CSI	✓ This zone exists in the SMP/E environment and is valid.
<a href="#">FZTRTGT</a>	OEM.FZTRPLUS.V115.GLOBAL.CSI	✓ This zone exists in the SMP/E environment and is valid.



# Upgrade CARS Maintenance Level (cont'd)

CA Recommended Service Installation

1 Introduction 2 Selection Criteria 3 Finalize 4 Summary

This wizard guides you through CA RS installation. By default, the wizard runs in online mode and GROUP mode: CA CSM checks CA Support Online for the latest updates and maintenance, downloads them, and applies the selected maintenance and all its requisites. To change the default behavior, review and adjust the options on this step.

The SMP/E environment global zone may get updated with new HOLDDATA and maintenance packages during your progress through the wizard. Exiting the wizard before running Check Only or Check and Apply does not cancel these updates.

Your current **CA RS level CAR1406** is **6 days** old.

Your current **HOLDDATA** file is **0 days** old.

Optional Installation Modes

Selecting these overrides the default behavior.

☒ **GROUPEXTEND** CA CSM automatically applies all selected maintenance and all their requisites, and verifies whether a superseding maintenance package is available for any unsatisfied (not received, or held in error) requisite. This mode may pull in additional maintenance packages that are not part of the published CA RS level.

☐ **Offline** CA CSM does not connect to CA Support Online and only uses the CA RS levels and maintenance that are currently available in the software catalog. No additional updates or maintenance are downloaded.

Back Next Check Only Check and Apply Exit Help

Verizon IT Cloud Services – Powerful Answers Every Day

© Verizon 2014 All Rights Reserved.

Information contained herein is provided AS IS and subject to change without notice. All trademarks used herein are property of their respective owners





# Upgrade CARS Maintenance Level (cont'd)

CA Recommended Service Installation

1 Introduction 2 **Selection Criteria (1/3)** 3 Finalize 4 Summary

**Select CA RS Level**

Select the CA RS level that you want to upgrade up to. All of the previous CA RS levels are also automatically included in this installation.

CA RS Level	
<input checked="" type="radio"/>	CAR1406
<input type="radio"/>	CAR1405
<input type="radio"/>	CAR1404
<input type="radio"/>	CAR1403
<input type="radio"/>	CAR1402
<input type="radio"/>	CAR1401
<input type="radio"/>	CAR1312
<input type="radio"/>	CAR1311
<input type="radio"/>	CAR1310
<input type="radio"/>	CAR1309
<input type="radio"/>	CAR1308
<input type="radio"/>	CAR1307

Back **Next** Check Only Check and Apply Exit Help



# Upgrade CARS Maintenance Level (cont'd)

CA Recommended Service Installation

1 Introduction 2 **Selection Criteria (2/3)** 3 Finalize 4 Summary

### Select Zones

Select the zones where you want to apply the maintenance. You must select at least one zone. Use the Filter field to find zones that you want to select.

Filter:

<input checked="" type="checkbox"/>	Target Zone	Related Distribution Zone
<input checked="" type="checkbox"/>	BLDRTGT	BLDRDLB
<input checked="" type="checkbox"/>	CA16TGT	CA16DLB
<input checked="" type="checkbox"/>	CA7CTGT CA7 Vision 5 Target Zone	CA7CDLB CA7 Vision 5 Distribution zone
<input checked="" type="checkbox"/>	CL7BTGT CA-11 Release 11 Vision 5 Target Zone	CL7BDLB CA-11 Release 11 Vision 5 Distribution Zone
<input checked="" type="checkbox"/>	CPYCTGT	CPYCDLB
<input checked="" type="checkbox"/>	DL12TGT	DL12DLB
<input checked="" type="checkbox"/>	ESPTGT	ESPDLB
<input checked="" type="checkbox"/>	EZTRTGT	EZTRDLB
<input checked="" type="checkbox"/>	IPC4TGT CA-IDEAL USED BY CA-11	IPC4DLB
<input checked="" type="checkbox"/>	JCHKTGT	JCHKDLB
<input checked="" type="checkbox"/>	MIMTGT	MIMDLB
<input checked="" type="checkbox"/>	NDVFTGT	NDVFDLB
<input checked="" type="checkbox"/>	NMC1TGT	NMC1DLB
<input checked="" type="checkbox"/>	OPSTGT	OPSCDLB
<input checked="" type="checkbox"/>	PAN6TGT	PAN6DLB

Back Next Check Only Check and Apply Exit Help



# Upgrade CARS Maintenance Level (cont'd)

CA Recommended Service Installation

1 Introduction 2 **Selection Criteria (3/3)** 3 Finalize 4 Summary

### Select Functions

Review the product and function selection. Clear check boxes for the products and functions that you want to exclude from processing.

You selected 127 functions.

- ☒ Products and Functions - All products and functions installed in selected zones
  - ☒ A03,11.05.00 - CA Easytrieve Compiler
    - ☒ CI6B500
  - ☒ AG8,12.06.00 - CA-OSI/Common Component-MVS
    - ☒ CAG8C60 - CA OSI/COMMON COMPONENT-MVS
  - ☒ AJA,04.02.00 - CAIIPC/EDK-MVS
    - ☒ CJA4200 - Unicenter CA-11
  - ☒ AL0,12.06.00 - CA 1 MVS TAPE MANAGEMENT
    - ☒ CAL0C60 - CA1 MVS Tape Management
  - ☒ APD,04.02.00 - CAIIPC/PDF-MVS
    - ☒ CPD4200 - Unicenter CA-11
  - ☒ ASI,04.02.00 - CAIIPC/SCF-MVS
    - ☒ CSI4200 - Unicenter CA-11
  - ☒ ASR,07.01.00 - CA-SRAM-MVS
    - ☒ CASR710 - UNICENTER CA-SRAM SORT REENTRANT ACCESS METHOD
  - ☒ AT1,04.02.00 - CAIIPC/PSS-MVS
    - ☒ CT14200 - Unicenter CA-11
  - ☒ AT4,04.02.00 - CAIIPC/PMS-MVS

Back Next Check Only Check and Apply Exit Help

Verizon IT Cloud Services – Powerful Answers Every Day

© Verizon 2014 All Rights Reserved.

Information contained herein is provided AS IS and subject to change without notice. All trademarks used herein are property of their respective owners



# Upgrade CARS Maintenance Level (cont'd)

CA Recommended Service Installation

1 Introduction

2 Selection Criteria (3/3)

3 **Finalize (1/1)**

4 Summary

Finalize

Review unresolved HOLDDATA. Select the maintenance packages that you want to bypass. The packages that are not selected will be excluded. CA CSM will run APPLY CHECK for all excluded packages.

You can click a maintenance package to review its details.  
Click Export to display all HOLDDATA information in a separate browser window.

Your selection in the previous step resulted in exclusion of all maintenance from installation into these zones: TLN5TGT, MIMTGT, TP54TGT, IPC4TGT, CPYCTGT, RAMTGT, TAPETGT, CA16TGT, QFETTGT, PMO4TGT, SPL7TGT, BLDRTGT, NDVFTGT, OPSCTGT, TELNTGT. If you continue, CA CSM will not install any new maintenance into these zones.

All HOLDDATA

ERROR

AR64161

AR66104

AR66494

☒ SYSTEM

☒ ACTION

☒ DOC

☒ DYNACT

```
++HOLD (RO64161)
FMID (CI6B500)
ERROR
REASON (AR64161)
COMMENT (  PROBLEM: EZTRVE 477 -
            EZT 11.5 PGM REPORT SHOWING NEGATIVE ZERO
            (0.00-)
            SMRTDATA(
              SYMP()
            )
          )

++HOLD (RO66104)
FMID (CCTUC60)
ERROR
REASON (AR66104)
COMMENT (  PROBLEM VANT-9572:  INCORRECT DISTRIBUTION OF CO
            PTF RO66104
            SMRTDATA(
              SYMP()
            )
          )

--HOLD (RO66104)
```

EXPORT

Back

**Next**

Check Only

Check and Apply

Exit

Help



# Upgrade CARS Maintenance Level (cont'd)

CA Recommended Service Installation

1 Introduction 2 Selection Criteria (3/3) 3 **Finalize (2/2)** 4 Summary

**Finalize**

There is no unresolved HOLDDATA.

**Warning:** Your selection in the previous step resulted in exclusion of all maintenance from installation into these zones: TLN5TGT, EZTRTGT, MIMTGT, TP54TGT, IPC4TGT, CPYCTGT, RAMTGT, TAPETGT, CA16TGT, QFETTGT, PMO4TGT, SPL7TGT, BLDRTGT, NDVFTGT, OPSCTGT, TELNTGT. If you continue, CA CSM will not install any new maintenance into these zones.

Back **Next** Check Only Check and Apply Exit Help



# Upgrade CARS Maintenance Level (cont'd)

CA Recommended Service Installation

1 Introduction 2 Selection Criteria (3/3) 3 Finalize (2/2) 4 **Summary**

**Summary**

Print Export

Review the summary.  
Click Check Only to verify that the maintenance can be applied to the selected target zones. Click Check and Apply to verify and apply the maintenance to the selected target zones.

The maintenance will be applied to the SMP/E environment:

**CA Products**

**OEM.GLOBAL.CAMPUS.CSI**

Selected Mode:

**GROUPEXTEND**

Selected CA RS Level:

**CAR1406**

- ▶ Maintenance That Will Be Applied (79 in total)
- ▶ Maintenance That Will Not Be Applied (4 in total)
- ▶ Selected Target Zones
- ▶ Selected Functions
- ▶ Bypassed HOLDDATA by Target Zone

Back Next **Check Only** **Check and Apply** Exit Help



---

# Recommendations





# Migrate to CSM 6.0

- Install 6.0, then migrate all CSIs into CSM
  - We ran 6.0 and 5.1 in parallel for several months. There are no issues updating the same CSI from both releases of CSM
  - The upgrade process seemed messy and so we just remigrated all our CSIs
  - Allows for a much needed cleanup of the prior release filesystems
  - You do lose access to task output from work done with prior releases unless you upgrade
- Improved performance
  - Overall better performance than 5.1 even for large CSIs
  - Performance further improved for large CSIs (over 100 zones) using Zone Sets
- Installed products listed by name rather than arcane 3 letter codes
- Improved CARS and maintenance wizards
- Automatic maintenance download and receive function



# Specify Adequate Download Size

**CA Chorus™ Software Manager**

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

**Actions**

- [Change Password](#)
- [Change Diagnostic Log Level](#)
- [Clean Up Deployment Snapshots](#)

**Settings**

- System Settings
  - Software Acquisition
  - Software Catalog
  - Software Installation
  - Software Deployment
  - Mount Point Management**
- User Settings
  - Software Installation
  - User Preferences
  - Software Acquisition
  - Remote Credentials

**Mount Point Management**

**Information**

On this page, you can configure the following:

- General and allocation parameters to mount file systems (as a file system becomes full, a new file system is created)
- The way how CA CSM handles managed product USS file systems at startup

If you change a parameter on this page, click Apply to apply and save the changes. The changes take effect immediately.

**Mount**

**Hierarchical File System (HFS):** ☐

**z/OS Distributed File Service zSeries File System (zFS):** ☒

**Data Set Size\*:**  **TRKS**

**Automount:** ☒

**Data Set Prefix\*:**

**Application Root\*:**

**Unmount at Shutdown:** ☐

**Mount - File System Allocation Parameters**

**Use SMS:** ☒ **Use Non-SMS:** ☐

**Storage Class:**  **VOLSER\*:**

**Management Class:**  **Unit:**

**Data Class:**

**Managed Product USS File Systems**

**Verify File System Mount Capability at Startup:** ☐

**Issue an Operator Console Message If Verification Fails:** ☐

**Attempt to Mount File System If Not Mounted:** ☐

**Stop Verifying File Systems at Startup after a Period of Time:** ☐

**Number of Days Since File System Has Been Added to CA CSM:**

**Apply**



# Download HOLDDATA and CARS Weekly

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

**Actions**  
[Change Password](#)  
[Change Diagnostic Log Level](#)  
[Clean Up Deployment Snapshots](#)

**Settings**

- System Settings
  - Software Acquisition
  - Software Catalog**
  - Software Installation
  - Software Deployment
  - Mount Point Management
- User Settings
  - Software Installation
  - User Preferences
  - Software Acquisition
  - Remote Credentials

**Software Catalog**

**Information**

On this page, you can configure the following:

- The software package database location and package processing resource allocation
- Parameters for HFS data sets (file systems) that constitute the package databases
- Parameters for automatic download of CA RS levels and HOLDDATA

If you change a parameter on this page, click Apply to apply and save the changes. The changes in the Base Settings section take effect after you restart the CA CSI after you apply them.

**Base Settings**

**Root Directory\*:** /etc/local/msmservice/r60/r

**Threads for Package Processing\*:** 3

**Number of MCS Scanners\*:** 3

**Queue Length of Incoming Packages\*:** 500

**HFS Data Set Parameters**

**Data Set Suffix\*:** CASC

**Primary Quantity\*:** 80 **TRKS**

**Secondary Quantity\*:** 80 **TRKS**

**CA RS Settings**

**Enable Automatic Updates:** ☒

**Owner of Update Task:** V334052

**Number of Displayed CA RS Levels:** 12

**Recurrence:** Weekly

**Update Software Catalog On:** Sunday **Every:** 1 **Week**

**System Time:** 00:00:00 **Greenwich Mean Time**

**Local Time:** 20:00:00

**Update Immediately**

**HOLDDATA Settings**

**Enable Automatic Updates:** ☒

**Owner of Update Task:** V334052

**Recurrence:** Weekly

**Update Software Catalog On:** Sunday **Every:** 1 **Week**

Verizon IT Cloud Services – Powerful Answers Every Day

© Verizon 2014 All Rights Reserved.

Information contained herein is provided AS IS and subject to change without notice. All trademarks used herein are property of their respective owners



# Use ZONE SETS For Large CSIs

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

**SMP/E Environments**

Search for:

Search in: **SMP/E Environment**

Actions

[Migrate SMP/E Environment](#)

SMP/E Environments

- SMP/E Environments
  - CA Datacom Server - MVS R14
  - CA Products
  - Zone Sets
    - All CA Products
    - CA 1
    - CA 11
    - CA 7
    - CA Deliver
    - CA ESP
    - CA Easytrieve
    - CA Endevor 15.1

**SMP/E Environments**

Show: All tags ☐ Show Working Set Only

Select and: [Use as Working Set](#) | [Exception SYSMOD Report](#) | [Upgrade CA RS Level](#) | Show All ▾

Select	Name	Data Set	Tags	Actions
<input type="checkbox"/>	<a href="#">CA Datacom Server - MVS R14</a>	NSSNADR.DBSRV14.SMPE.SMPCSI.CSI	No tags	<a href="#">Actions ▾</a>
<input type="checkbox"/>	<a href="#">CA Products</a>	OEM.GLOBAL.CAMPUS.CSI	No tags	<a href="#">Actions ▾</a>
<input type="checkbox"/>	<a href="#">CICS Services Rel.14.0</a>	NSSNADR.DC14.SMPE.SMPCSI.CSI	No tags	<a href="#">Actions ▾</a>
<input type="checkbox"/>	<a href="#">CSM 6.0</a>	OEM.CSM60.SMPCSI.CSI	No tags	<a href="#">Actions ▾</a>
<input type="checkbox"/>	<a href="#">Datacom DB Rel. 14.0</a>	NSSNADR.DB14.SMPE.SMPCSI.CSI	No tags	<a href="#">Actions ▾</a>
<input type="checkbox"/>	<a href="#">DATACOM REL.12.0</a>	NSSNADR.DB12.SMPE.SMPCSI.CSI	No tags	<a href="#">Actions ▾</a>
<input type="checkbox"/>	<a href="#">IDEAL Rel.14.0</a>	NSSNADR.ID14.SMPE.SMPCSI.CSI	No tags	<a href="#">Actions ▾</a>
<input type="checkbox"/>	<a href="#">IPC / VPE Rel.14.0</a>	NSSNADR.IC14.SMPE.SMPCSI.CSI	No tags	<a href="#">Actions ▾</a>
<input type="checkbox"/>	<a href="#">JCLCHECK R12</a>	OEM.JCHKR12.CSI	No tags	<a href="#">Actions ▾</a>

Selected 0 of 9.



# Creating ZONE SETs

**CA Products** Refresh

SMP/E > CA Products

SMP/E Environment Information **Zone Sets** Installed Products Maintenance Pending Installations

Zone Sets Create

This page lists all user-defined zone sets in the SMP/E environment. A zone set is a set of SMP/E environment target zones that are grouped together.

Name	Description	Number of Zones	Actions
<a href="#">All CA Products</a>	Warehouse target zones for all products except Panvalet	26	<span>Actions</span>
<a href="#">CA 1</a>		1	<span>Actions</span>
<a href="#">CA 11</a>		1	<span>Actions</span>
<a href="#">CA 7</a>		1	<span>Actions</span>
<a href="#">CA Deliver</a>		1	<span>Actions</span>
<a href="#">CA ESP</a>		1	<span>Actions</span>
<a href="#">CA Easytrieve</a>		1	<span>Actions</span>
<a href="#">CA Endeavor 15.1</a>		1	<span>Actions</span>
<a href="#">CA MIM</a>		1	<span>Actions</span>
<a href="#">CA Netmaster</a>	Netmaster	1	<span>Actions</span>
<a href="#">CA OPS/MVS</a>		1	<span>Actions</span>
<a href="#">CA Panvalet</a>		1	<span>Actions</span>
<a href="#">CA Spool</a>		1	<span>Actions</span>
<a href="#">CA Ventra</a>		1	<span>Actions</span>





# Improved Product Identification

**Software Status** **Products** **SMP/E Environments** **Deployments** **Configurations**

Search

Search For:

Search In: SMP/E Environment

Actions

Migrate SMP/E Environment

**SMP/E Environments**

CA Datacom Server - MVS R14

CICS Services Rel.14.0

CSM 5.1

Datacom DB Rel. 14.0

DATAKOM REL.12.0

General CA Products

A03,11.05.00

AG8,12.06.00

AJA,04.02.00

AL0,12.06.00

APD,04.02.00

ASI,04.02.00

ASR,07.01.00

AT1,04.02.00

AT4,04.02.00

AUW,12.00.00

AVQ,04.02.00

AXE,06.01.00

**SMP/E Environments**

Show: All tags

Select and: Use as Working Set

Select	Name
<input type="checkbox"/>	CA Datacom Server - MV
<input type="checkbox"/>	CICS Services Rel.14.0
<input type="checkbox"/>	CSM 5.1
<input type="checkbox"/>	Datacom DB Rel. 14.0
<input type="checkbox"/>	DATAKOM REL.12.0
<input type="checkbox"/>	General CA Products
<input type="checkbox"/>	IDEAL Rel.14.0
<input type="checkbox"/>	IPC / VPE Rel.14.0
<input type="checkbox"/>	JCLCHECK R12
<input type="checkbox"/>	OPSMVS Rel 12.1

Selected 0 of 10.

CSM 5.1

**Software Status** **Products** **SMP/E Environments** **Deployments** **Configurations** **System Registry**

Search

Search for:

Search in: SMP/E Environment

Actions

Migrate SMP/E Environment

**CA Products**

SMP/E > CA Products

SMP/E Environment Information

Zone Sets

Install

Installed Products

Setting up, running, and clearing an automatic maintenance up

Select and Set Up: Maintenance Update

Select All | Expand All | Collapse All

CA Common Services 140100

CA Deliver 12.0

CA Easytrieve 11.5

CA Endeavor 15.1.00

CA Endeavor 16.0.00

CA ESP\_BaseAndOptions\_11.3 11.03.00

CA JCLCheck\_BaseandOptions\_11.0 11.00.00

CA JCLCheck\_BaseandOptions\_12.0 12.00.00

CA Management Services (6.3) 6.3

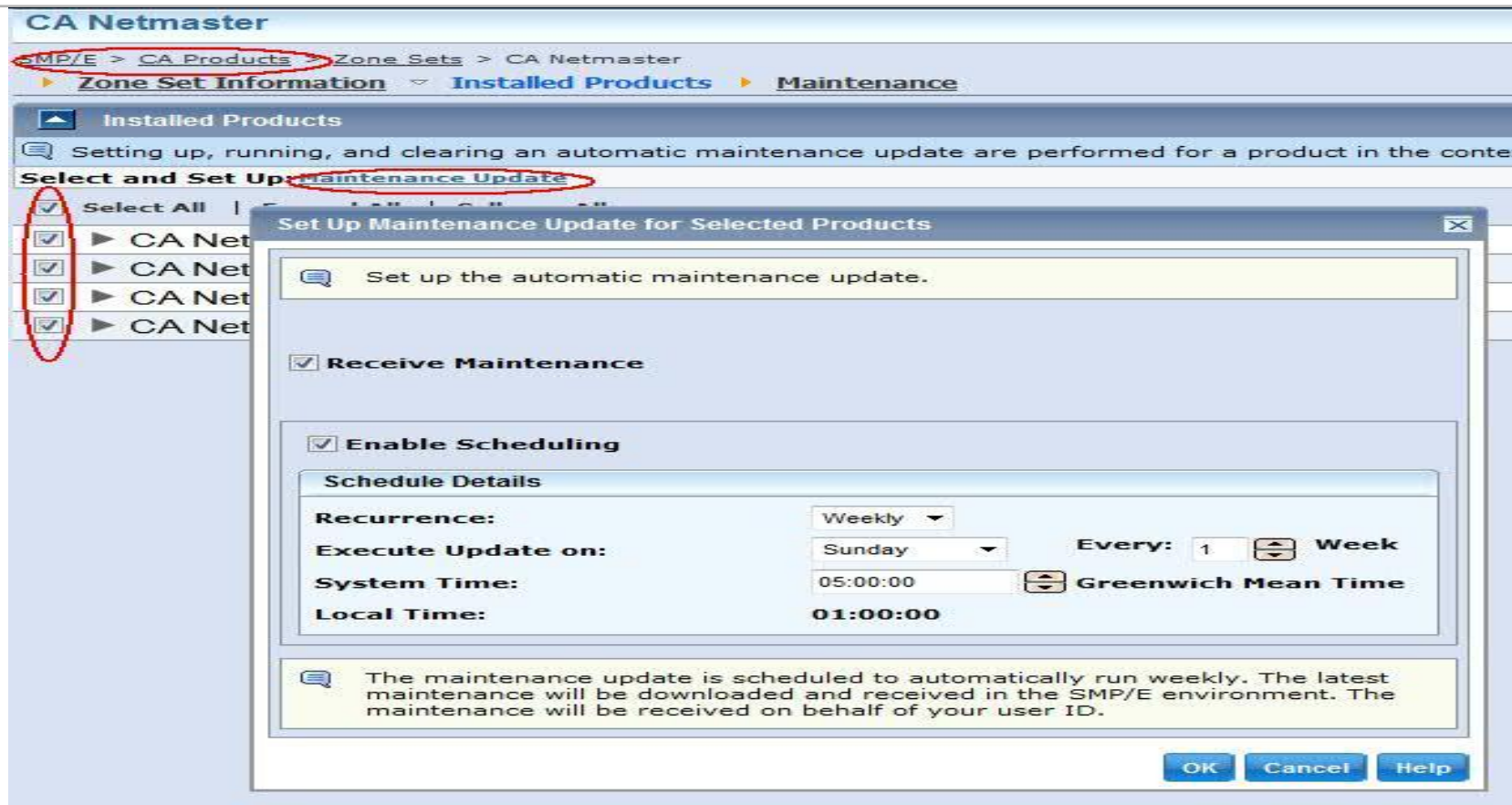
CAMIM(TM) Resource Sharing for z/OS 11.9.0

CA NetMaster File Transfer Management - MVS

CSM 6.0

Verizon IT Cloud Services – Powerful Answers Every Day

# Automatic Update Weekly



Automatically download and receive maintenance on a weekly basis



# Additional Maintenance for 6.0

---

- RO71316 – Allows export and save of HOLDDATA to a local file
- RO71047 – Corrects sort arrows under IE in the CARS maintenance application summary report
- RO69321 – Do not download or receive maintenance when doing an APPLY of maintenance already received



---

# Don't be surprised by....





# zFS Space Consumption

Menu Options View Utilities Compilers Help

DSLIS - Data Sets Matching SYSSUP.MSMERVE.R60.CASC\*.DATA

Row 1 of 93

Command ==>

Scroll ==> CSR

Total Tracks: 113055 non-x: 113055 Data Sets: 93 non-x: 93


Command - Enter "/" to select action

Tracks %Used XT

SYSSUP.MSMERVE.R60.CASC95.DATA	14280	?	2
SYSSUP.MSMERVE.R60.CASC48.DATA	9270	?	11
SYSSUP.MSMERVE.R60.CASC26.DATA	6855	?	21
SYSSUP.MSMERVE.R60.CASC39.DATA	6690	?	3
SYSSUP.MSMERVE.R60.CASC22.DATA	6375	?	37
SYSSUP.MSMERVE.R60.CASC44.DATA	5295	?	2
SYSSUP.MSMERVE.R60.CASC94.DATA	4830	?	38
SYSSUP.MSMERVE.R60.CASC63.DATA	2940	?	4
SYSSUP.MSMERVE.R60.CASC68.DATA	2520	?	18



# Software Status Page

 **CA Chorus™ Software Manager**

[Software Status](#) [Products](#) [SMP/E Environments](#) [Deployments](#) [Configurations](#) [System Registry](#) [Tasks](#) [Settings](#)

Product News


[Refresh](#)


**Announcing the General Availability of CHORUS SOFTWARE MANAGER (CSM) r6.0.**


Latest CA RS Maintenance Level: CARS1405


New Maintenance

[Refresh](#)

 44 new HIPERs are available for 2 products. [View Details](#)


 696 new maintenance packages are available for 3 products. [View Details](#)


 No new products, no new releases, and no new gen levels are available.

 No new CA RS levels are available.

SMP/E Environments


[Refresh](#)


 No SMP/E environments are missing HIPERs.


 No SMP/E environments are missing maintenance.

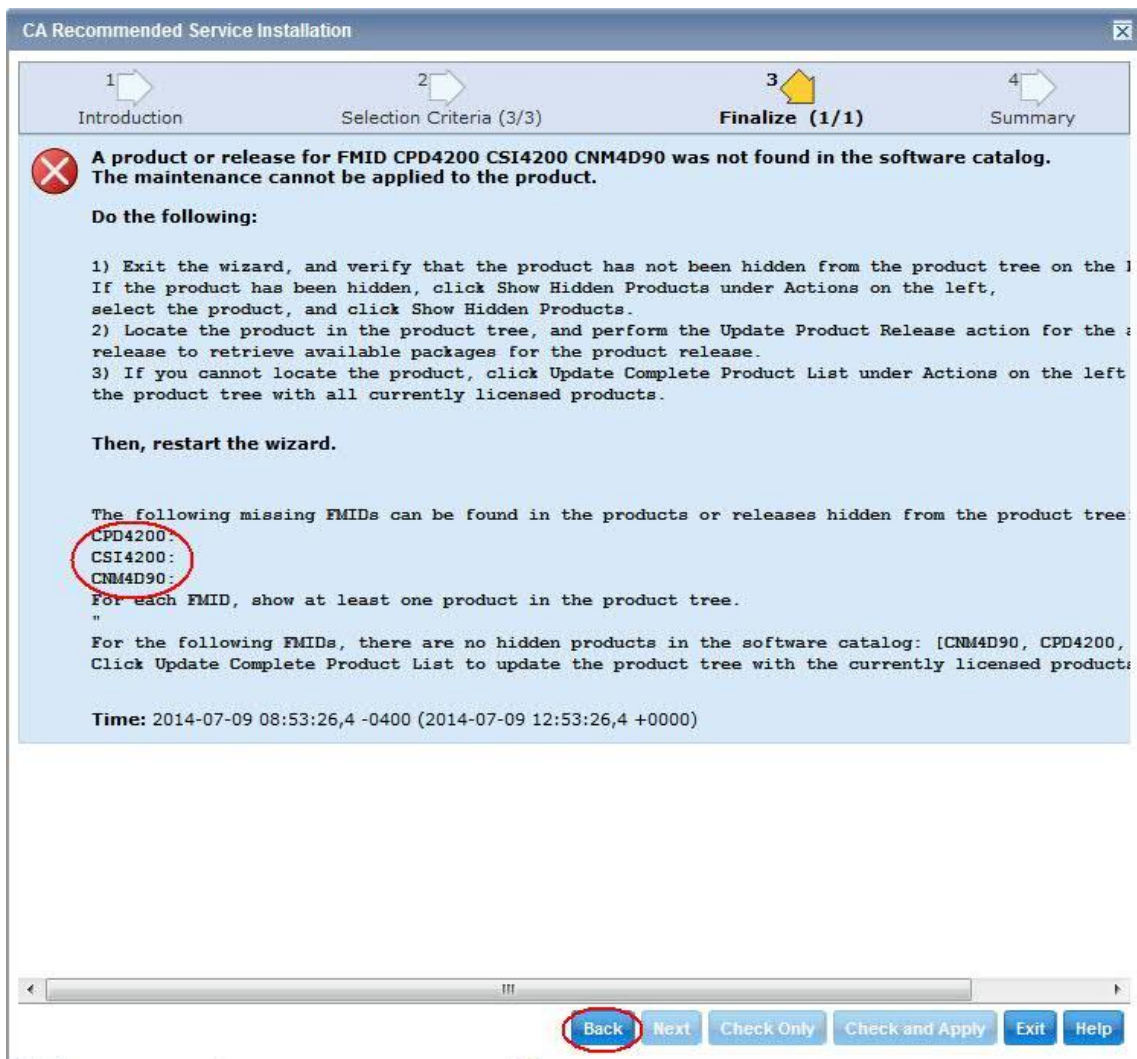
Tasks

[Refresh](#)

 You have 366 active tasks. [View Task Status](#)

 You have no tasks awaiting your input.

 You have 55 tasks in error. [View Task Status](#)



- CSM takes some of the tedium out of installing and maintaining products
  - You still have to have a good understanding of SMP and shop standards
- Positive improvement over time
  - Early releases had limited functionality and performance issues
  - CA is interested in knowing about issues and resolving them
  - Help is easy to find
- Initially was resisted by our “grey beard” staff
  - Felt it was faster to just run a batch job to do SMP work
  - Challenged by the web interface
  - Multiple ways to accomplish the same task can be confusing
- Still some room for improvement
  - CSM wants a pristine SMP environment which rarely exists
  - Wizards are forgetful
  - Space management
- Positions for the “new wave” of sysprogs

# Questions

---



Contact Info:  
Greg Hochhalter  
[gregory.r.hochhalter@verizon.com](mailto:gregory.r.hochhalter@verizon.com)  
301.236.6439