

CA Chorus Software Manager Update

Summer Spaulding

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Session: 15800



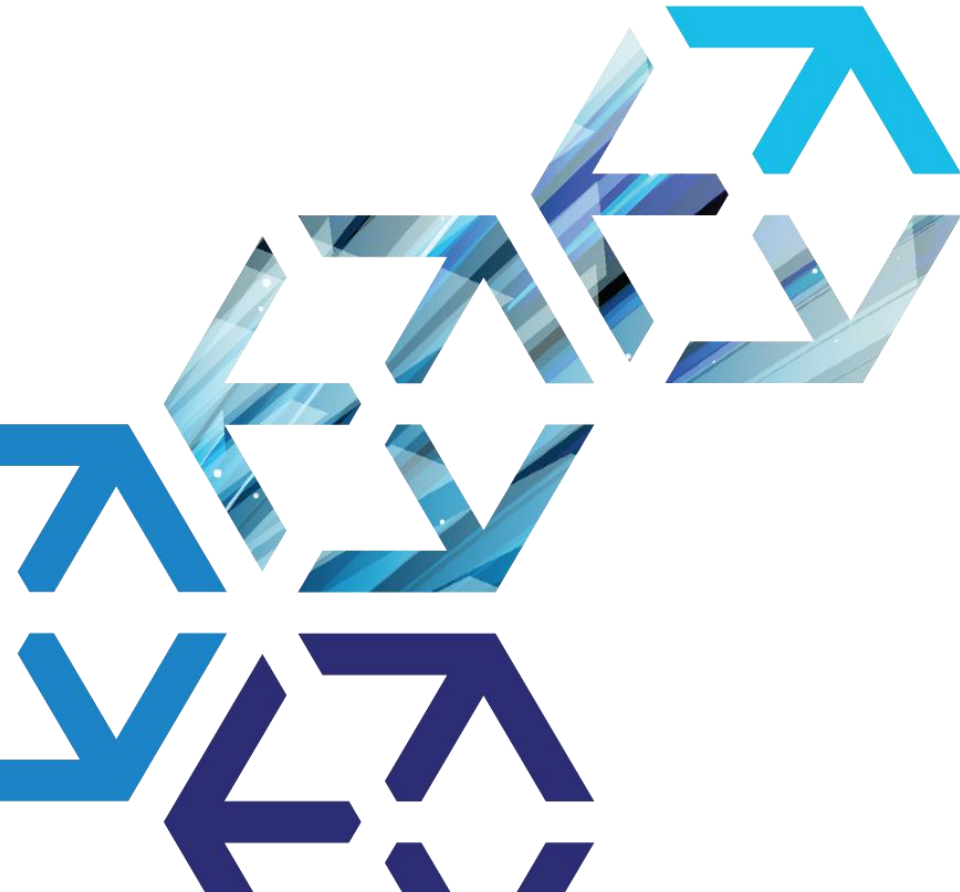
Abstract

- CA Chorus Software Manager (formerly known as CA Mainframe Software Manager) allows products and maintenance to be downloaded, installed, deployed, and configured via a web browser. CA CSM is available at no additional charge to CA customers with any licensed z/OS product. In this session, a representative from CA Technologies' Mainframe Solution Center will review the changes delivered with current CSM 6.0 release

Agenda

- What is CA Chorus Software Manager (CSM)?
- CA CSM v6
 - Requirements for CA CSM v6
 - New features in CA CSM v6
 - Changed features in CA CSM v6
 - Deprecated features in CA CSM v6
- New Process for Submitting DAR/Enhancement Requests
- Questions

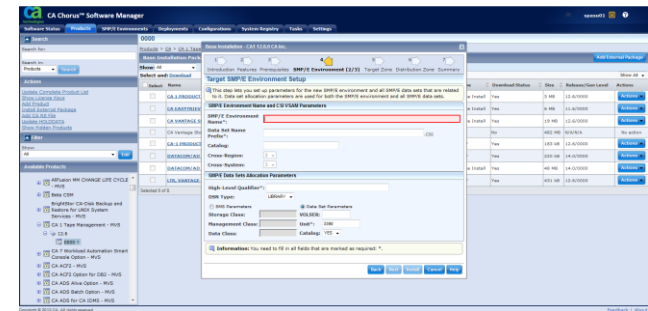
What is CA Chorus Software Manager (CA CSM)?



CA Chorus Software Manager (CSM)

What it does

- **Downloads software products and service from CA Support Online**
 - Includes other artifacts (e.g. PDFs, letters, etc.)
 - Ability to schedule downloads, particularly CARS and HOLDDATA
- **Installs products into new or existing CSIs**
- **Evaluates and installs maintenance into CSIs**
 - Selecting one or more PTFs/APARs
 - Using CA Recommended Service (CARS) for selection
 - Using FIXCAT for selection
- **Installs “External Maintenance” and “External Packages”**
 - e.g. ++APARs, ++USERMODS
 - e.g. Beta products, other vendor products
- **Migrates preexisting CSIs into CA CSM**
- **Deploys product target libraries to local or external systems**
- **Configures deployed products for production use**



Available at no additional cost for customers with current CA maintenance agreements

CA CSM v6



CA CSM v6.0

CSM v6

- GA Release as of April 28, 2014

CA MSM/CSM End Of Service (EOS)

- R4.1 / R5.0 February 28, 2014
- R5.1 not announced

Requirements for CA CSM v6



Requirements for CA CSM v6

Site and System Requirements

- Mainframe requirements
 - Hardware
 - Any IBM processor capable of running a currently supported z/OS operating environment. A zIIP (or zAAP) is HIGHLY recommended
 - Software
 - z/OS 1.13, 2.1
 - **IBM 64-bit Java SDK 1.7 for z/OS**
 - SMP/E V3R5 or V3R6
 - JES2 or JES3

Requirements for CA CSM v6

Site and System Requirements

- Mainframe requirements
 - Software
 - TCP/IP
 - **CA Common Services r14.1 or r14**, all available maintenance should be applied
 - CETN600 for CSM Software Deployment and Software Configuration services

- Installation Considerations
 - Upgrade from r5.1, v5.0 or r4.1
 - Install CA CSM v6 as a new installation

New Features in CA CSM v6



New Features in CA CSM v6

Configure Mount Parameters for CA CSM File Systems

- Actually introduced in CSM 5.1 (Sep 2013 Build)
- Set in SAMPLIB member MSMLIB
- Ability to set mount options for CSM File systems
- Documented in CSM Admin Guide

```
IJO="$IJO -DADD_MOUNT_DEFAULT_OPTIONS=  
SETUID|NOSETUID,  
SECURITY|NOSECURITY,  
AUTOMOVE|NOAUTOMOVE|UNMOUNT"
```

New Features in CA CSM v6

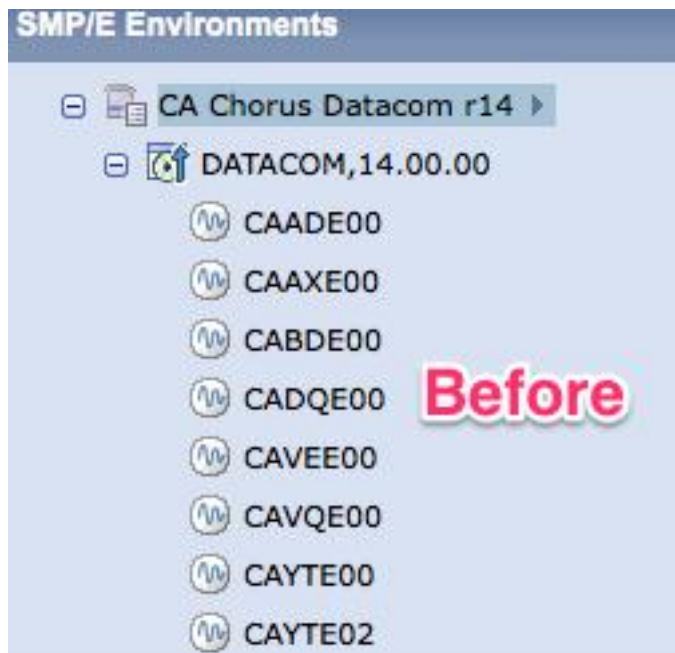
SMP/E Environments Tab Zone Set

- **New concept called ‘Zone Set’**
 - Useful for customers who have many zones in one CSI
 - Enables you to filter the zones you want, then name the filter
 - This gives a significant performance boost, not having to wait for all zones to paint in the UI

New Features in CA CSM v6

SMP/E Environments Tab Zone Set

- Navigation made easier and faster
- SMPE/E tree now includes zone set and installed products



New Features in CA CSM v6

SMP/E Environments Tab Zone Set

Creating a Zone Set

Search

Search for:

Search in:

SMP/E Environment Search

Actions

Migrate SMP/E Environment

SMP/E Environments

- Mark's big ol' CSI
 - Zone Sets
 - Installed Products
- mf20.csm.ca1
- NEWJA04 - CA Chorus V3.0 GA
- NEWJA04 - Datacom/DB r14 (Updated SDS Metadata)
- OPS 12.0 QA Migrate
- OPS120 QA TR64035
- OPS120 test fix
- public.idms185n
- QASYM MIM120 Beta 1
- QASYM MIM120 Beta 2
- QASYM.MIM120.BT3M.M2
- QASYM.MIM120.BT3M.MSM
- QASYM.MIM120.GA3MCB
- Roscoe 6.0 - aicji01

Mark's big ol' CSI

SMP/E > Mark's big ol' CSI

List of SMP/E environments has changed

Create Zone Set

Enter the zone set name and optionally description, and select target zones in the SMP/E environment to include in the zone set.

General

Name*: My 3 products

Description:

Zone Selection

Available	Selected
ACF214T	AUDITT
CAGENT	CA1T
CCSLEGT	CA7T
CCST	
CLNAT	
CLNRT	
CLNTT	
COPYCTT	
DATAcMT	
DB216T	

Create Cancel Help

New Features in CA CSM v6

SMP/E Environments Tab Zone Set

New Zone Set called 'My 3 products'

Search

Search for:

Search in:
SMP/E Environment

Actions

[Migrate SMP/E Environment](#)

SMP/E Environments

- Mark's big ol' CSI
 - Zone Sets**
 - My 3 products
 - Installed Products
 - mf20.csm.ca1
 - NEWJA04 - CA Chorus V3.0 GA
 - NEWJA04 - Datacom/DB r14 (Updated)

My 3 products

SMP/E > Mark's big ol' CSI > Zone Sets > My 3 products

List of SMP/E environments has changed.

Zone Set Information ▶ **Installed Products** ▶ **Maintenance**

Name: My 3 products

Description:

Actions:

Target Zones

Name	Data Set	Status
AUDITT	KOEMA01.PUBLIC.CSI.CAI.CSI	✔ This zone exists in the SMP/E environment and is valid.
CA1T	KOEMA01.PUBLIC.CSI.CAI.CSI	✔ This zone exists in the SMP/E environment and is valid.
CA7T	KOEMA01.PUBLIC.CSI.CAI.CSI	✔ This zone exists in the SMP/E environment and is valid.

New Features in CA CSM v6

SMP/E Environments Tab Zone Set

Maintain, deploy, and configure from a zone set

The screenshot displays the CA CSM v6 interface for managing SMP/E environments. The navigation bar includes tabs for Software Status, Products, SMP/E Environments, Deployments, Configurations, System Registry, Tasks, and Settings. The left sidebar shows a search bar and a tree view of SMP/E Environments, including Lane 13.9 Chorus, Mark's big ol' CSI, Zone Sets, My 3 products, and Installed Products.

The main content area shows the configuration for the 'My 3 products' zone set. The breadcrumb path is SMP/E > Mark's big ol' CSI > Zone Sets > My 3 products. A notification indicates that the list of SMP/E environments has changed. The 'Zone Set Information' section shows the name 'My 3 products' and a description. The 'Actions' section is highlighted with a red box and contains the following buttons: Delete Zone Set, Edit Zone Set, Upgrade CA RS Level, Update Using Fix Categories, Create Deployment, and Create Configuration.

The 'Target Zones' section contains a table with the following data:

Name	Data Set	Status
AUDIT	KOEMA01.PUBLIC.CSI.CAI.CSI	✔ This zone exists in the SMP/E environment and is valid.
CA1T	KOEMA01.PUBLIC.CSI.CAI.CSI	✔ This zone exists in the SMP/E environment and is valid.
CA7T	KOEMA01.PUBLIC.CSI.CAI.CSI	✔ This zone exists in the SMP/E environment and is valid.

New Features in CA CSM v6

Automatic Maintenance Update

New way to show products installed in the CSI

The screenshot displays the CA Chorus™ Software Manager interface. The top navigation bar includes tabs for Software Status, Products, SMP/E Environments, Deployments, Configurations, System Registry, Tasks, and Settings. The main content area is titled "Mark's big ol' CSI" and shows a list of installed products. A red arrow points to the "Installed Products" link in the left-hand navigation pane. The product list includes:

- CA ACF2 14.0
- CA Auditor - MVS 12.1
- CA Cleanup for ACF2 12.1
- CA Cleanup for RACF 12.1
- CA Cleanup for Top Secret 12.1
- CA Common Services 140100
- CA Datacom/DB r14
- CA DB2TOOLS R16.0.0
- CA DB2TOOLS R17.0.0
- CA Easytrieve 11.6
- CA Gen 8.5
- CA IPC r14
- CA Librarian 4.04.00
- CA_1 12.06.00
- CA_7_BaseandOptions_12.0 12.00.00

New Features in CA CSM v6

Automatic Maintenance Update

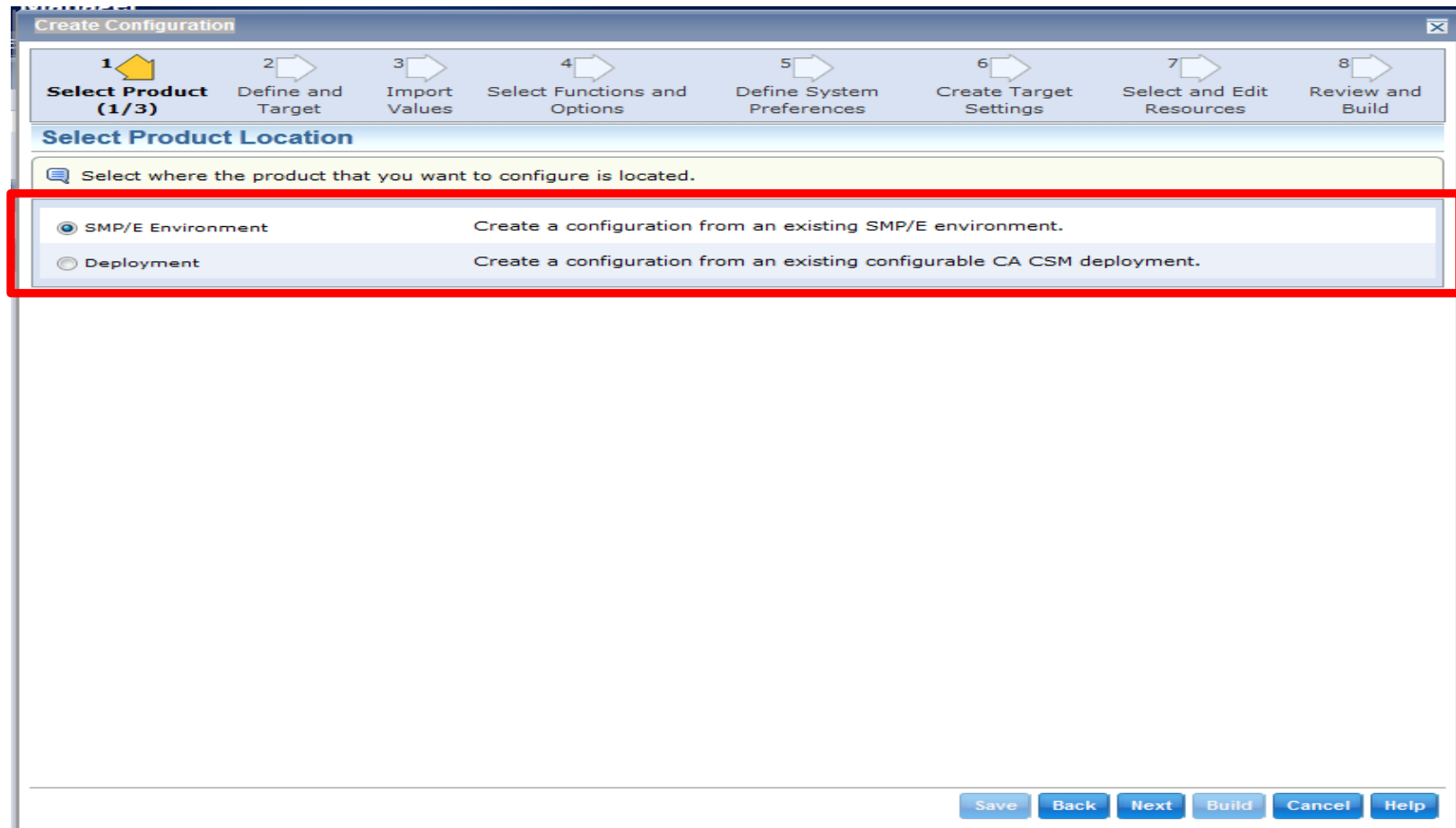
- Schedule updates for some or all of the products in a CSI
- Download only, or Download and Receive

The screenshot displays the CA CSM v6 interface. On the left, the 'SMP/E Environments' sidebar shows a tree view with 'Installed Products' highlighted by a red arrow labeled '1'. The main panel shows the 'Maintenance' section for 'CA ACF2 14.0', with a 'Set Up' link highlighted by a red arrow labeled '2'. A dialog box titled 'Set Up Maintenance Update for CA ACF2 14.0' is open, showing the 'Receive Maintenance' option selected and highlighted by a red box. Below this, the 'Enable Scheduling' and 'Schedule Details' sections are visible, including fields for 'Recurrence' (Daily), 'Execute Update Every' (1 Day), and 'System Time' (00:00:00 Eastern Standard Time). The 'OK' button at the bottom of the dialog is highlighted by a red arrow labeled '3'. The interface also shows a warning message about PassTickets configuration and a status message indicating no automatic maintenance update is scheduled.

New Features in CA CSM v6

Product Configuration Without Deployment

- Ability to configure products without deploying first
- Configure from a deployment is still supported



New Features in CA CSM v6

Product Configuration Without Deployment

- Target/Selected system must be Staging System

Create Configuration for CA SYSVIEW Performance Management r13...

1 Select Product (3/3) 2 **Define and Target** 3 Import Values 4 Select Functions and Options 5 Define System Preferences 6 Create Target Settings 7 Select and Edit Resources 8 Review and Build

Enter the configuration name, select its target system, and click Next.

Define

Enter a unique name (up to 180 US-ASCII printable characters), or click Generate Name. Clicking Generate Name overwri...

Name*: Generate Name

Description:

Systems

Select the system that this configuration targets. Only staging systems are displayed.

Select and: [Show Libraries](#) Show All

Select	System Name	Description	z/OS Version	Configuration Service Location
<input checked="" type="radio"/>	STAGXE21		01.13.00	localhost

System STAGXE21 is a *staging system* and will require you to manually complete the steps documented in the *Activation Instructions*.

Save Back Next Build Cancel Help

New Features in CA CSM v6

Product Configuration Without Deployment

System Registry Requirements for CSM Host

XE21

System Registry > Sysplexes > XE21 > XE21

General Network Locations Data Destinations

Information

This page lists the SCS address space location and the FTP locations for the system.

SCS Address Space Location

Save Status

Enter the values for communicating with an SCS address space.

Host Name*: mvsxe21 TCP Connection Retry Count*: 15
TCP Port Number*: 49152 TCP Connection Timeout Value in Seconds*: 10

FTP Locations

Add

Select and: Remove Show All

Select	Host Name	Port	Directory Path	Secure	Default	Actions
<input type="checkbox"/>	mvsxe21	21	/u/users/mmserv/ccispnv/ftp/	No	Default	Actions

Selected 0 of 1.

New Features in CA CSM v6

Product Configuration Without Deployment

System Registry Requirements - Staging System Definition

STAGXE21

System Registry > Staging Systems > STAGXE21

General

Information

This page provides general information about the system.

General Actions

Name*:

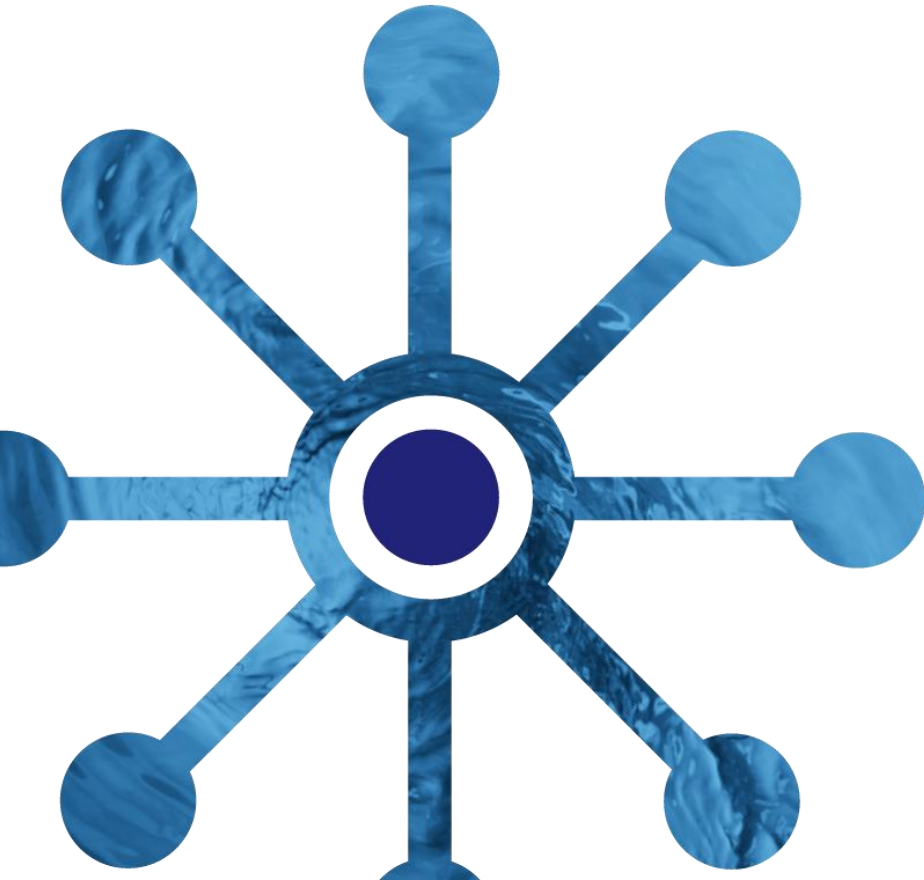
z/OS Version*:

Description:

GIMUNZIP Volume:

zFS Candidate Volumes:

Changes to Existing Features



Changes To Existing Features in CA CSM v6

SMP/E Environments Tab Reworked

- New navigation tabs for zone sets, installed products, maintenance, and pending installs.

The screenshot shows the 'SMP/E Environments' tab for 'CA Chorus Datacom r14'. The breadcrumb navigation is 'SMP/E > CA Chorus Datacom r14'. A red box highlights the navigation menu with the following items: **Installed Products**, **SMP/E Environment Information**, **Maintenance**, and **Pending Installations**. Below the navigation, there is a 'Products' section with a 'Select and: Upgrade CA RS Level' action. A table lists the installed products:

Select	Product ID	Version	Description	CA RS level	Actions
<input type="checkbox"/>	DATACOM	14.00.00	CA Datacom	Current CA RS Level - 11	Actions

Selected 0 of 1.

The screenshot shows the 'SMP/E Environments' tab for 'CA Chorus Datacom R14'. The breadcrumb navigation is 'SMP/E > CA Chorus Datacom R14'. A red box highlights the navigation menu with the following items: **SMP/E Environment Information**, **Zone Sets**, **Installed Products**, **Maintenance**, and **Pending Installations**. Below the navigation, there is an 'Installed Products' section with a message: 'Setting up, running, and clearing an automatic maintenance update are performed for a product in the context of the whole SMP/E environment.' Below the message, there is a 'Select and Set Up: Maintenance Update' section with options: Select All | Expand All | Collapse All. A table lists the installed products:

<input type="checkbox"/>	CA Datacom/AD r14
--------------------------	-----------------------------------

Changes To Existing Features in CA CSM v6

Maintenance Wizards

- Unified and simplified
 - Reduced number of steps
- Affects corrective, CA RS, and FIXCAT maintenance wizards
- Identify ZAPs in Maintenance Wizards
 - Identifies ZAP Packages among standard maintenance and checks for duplication
 - If more than one ZAP will update the same product module, CA CSM excludes it from processing together with any package that depends on it
 - Excluded ZAPs and related packages are listed in maintenance summary

Changes To Existing Features in CA CSM v6

Maintenance Wizards

- Summary contains any ZAPs identified to be excluded

Maintenance Installation in MFSM.RK.CC12

1 Introduction 2 Select Maintenance 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.

Selected Mode:

GROUP

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

MFSM.RK.CC12

MFSM.RK.CC12.CSI

► Maintenance That Will Be Applied (2 in total)

▼ Maintenance That Will Not Be Applied (3 in total)

▼ Maintenance Excluded due to ZAPs to the Same Modules (2 in total)

Fix #	Description	Target Zones
RO47728	MSM SCS SUPPORT - ENHANCEMENT - CA EARL SERVICE	CAIT1, CAIT
RO50858	MSM SCS SUPPORT- CA-EARL - CCS R14.1 MSM USERS	CAIT1, CAIT

▼ Superseded Maintenance (1 in total)

Fix #	Description	Target Zones
QO83915	EARLR900 - ADD A FILE EXIT CALLED TBEEARL - SP7/R12	CAIT1, CAIT

► Selected Target Zones

Back Next Check Only Check and Apply Exit Help

CA Recommended Service Installation Wizard

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 in SMP 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 the 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 CAR1401** is **5 days** old.

Your current **HOLDDATA** file is **3 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

Update Using FIXCAT Wizard

Update Using Fix Categories for ZPDT.CCSR141.CSI

1 Introduction 2 Selection Criteria 3 FIXCAT Maintenance 4 Finalize FIXCAT 5 Summary

This wizard guides you through FIXCAT 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 **HOLDDATA** file is **3 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.

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

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Back Next Check Only Check and Apply Exit Help

Selected Maintenance

CA CCS R14.1 Refresh

SMP/E > CA CCS R14.1

▶ [SMP/E Environment Information](#) ▶ [Zone Sets](#) ▶ [Installed Products](#) ▶ **Maintenance** ▶ [Pending Installations](#)

▲ Maintenance View Criteria

Selected Zones: CAIT, CAID

Selected Functions: No scope defined

[Edit](#)

▲ Maintenance [Show Maintenance](#)

Select one or more maintenance packages to be processed.

Show: No CA RS filter ▼

Select and: [Receive](#) | [Apply](#) | [Accept](#) | [Accept GROUPEXTEND](#) | [Reject](#) | [Restore](#) 1 - 100 of 229 > >>

<input type="checkbox"/> Filter		All		All	All	
<input type="checkbox"/> Select	Fix #	Type	Description	Function	Status	Actions
<input type="checkbox"/>	QO89740	APAR	REPORT - INVALID CALR880E AND RC=12 WHEN EOR USED.	CXE6100	Superseded	Actions ▼
<input type="checkbox"/>	QO95030	APAR	REPORT - INVALID CALR880E AND RC=12 WHEN EOR USED.	CXE6100	Superseded	Actions ▼
<input type="checkbox"/>	RO20913	PTF	U3000 S0C7 ABEND IN EARLPAS AT END OF COMPILE	CXE6100	Superseded	Actions ▼
<input type="checkbox"/>	RO25737	PTF	ABEND - S30A WHEN VSM USEZOSV1R9RULES(NO) IN EFFECT	CXE6100	Superseded	Actions ▼

Selected Maintenance Wizard

Maintenance Installation in ZPDT.CCSR141.CSI

1 Introduction 2 Select Maintenance 3 Finalize 4 Summary

This wizard guides you through maintenance 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 **HOLDDATA** file is **3 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.

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

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Back Next Check Only Check and Apply Exit Help

Changes To Existing Features in CA CSM v6

Deployment wizard

- **Deploying Products from Uncataloged Target Libraries**
 - You can deploy products from uncataloged target libraries. This provides you with more flexibility in selecting source datasets for product deployment.

Changes To Existing Features in CA CSM v6

Deployment wizard

- **Deploy products from Multi-zone CSI**
 - Step 2 of the deployment wizard enables to you select zones to choose products to deploy
 - Using this zone selection helps you locate products faster
 - Assists in the selection of a product that is in multiple zones in a CSI

Changes To Existing Features in CA CSM v6 Deployment wizard

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

- Mark's big ol' CSI  1
- Zone Sets
 - 2 products
 - Installed Products
- mf20.csm.ca1
- NEWJA04 - CA Chorus V3.0 GA
- NEWJA04 - Datacom/DB r14 (Updated SDS Metadata)
- OPS 12.0 QA Migrate
- OPS120 QA TR64035
- OPS120 test fix
- public.idms185n
- QASYM MIM120 Beta 1
- QASYM MIM120 Beta 2
- QASYM.MIM120.BT3M.M2
- QASYM.MIM120.BT3M.MSM

Mark's big ol' CSI

SMP/E > Mark's big ol' CSI

List of SMP/E environments has changed.

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

Name: Mark's big ol' CSI

CSI Data Set: KOEMA01.PUBLIC.CSI.CAI.CSI

Data Set Name Prefix: KOEMA01.PUBLIC.CSI.CAI

Actions: 2

Working Set:

Zones

1 - 10 of 33 > >>

Name	Zone Type	Data Set
GLOBAL	Global	KOEMA01.PUBLIC.CSI.CAI.CSI
ACF214T	Target	KOEMA01.PUBLIC.CSI.CAI.CSI
AUDITT	Target	KOEMA01.PUBLIC.CSI.CAI.CSI
CAGENT	Target	KOEMA01.PUBLIC.CSI.CAI.CSI
CA1T	Target	KOEMA01.PUBLIC.CSI.CAI.CSI
CA7T	Target	KOEMA01.PUBLIC.CSI.CAI.CSI
CCST	Target	KOEMA01.PUBLIC.CSI.CAI.CSI
CLNAT	Target	KOEMA01.PUBLIC.CSI.CAI.CSI
CLNRT	Target	KOEMA01.PUBLIC.CSI.CAI.CSI

Changes To Existing Features in CA CSM v6

Deployment wizard

The screenshot displays the 'New Deployment' wizard in the 'Product Selection' step. The progress bar at the top shows six steps: Introduction, Product Selection (highlighted with a yellow arrow and '2'), Custom Data Sets, Methodology Selection, System Selection, and Preview. A red arrow labeled '1' points to the 'Change Zone Selection' button. Below this, the 'CSI Data Set' is 'KOEMA01.PUBLIC.CSI.CAI.CSI' and 'Selected Zones' is 'ACF214T'. A table titled 'Products to Deploy' lists four products with their features. A dialog box titled 'Select Target Zones' is open, showing a list of target zones. A red arrow labeled '2' points to the 'CA7T' zone, which is selected. The dialog also shows 'Selected 1 of 17' and 'OK' and 'Cancel' buttons.

New Deployment

1 Introduction **2 Product Selection** 3 Custom Data Sets 4 Methodology Selection 5 System Selection 6 Preview

Select one or more products and features to deploy.

CSI Data Set: KOEMA01.PUBLIC.CSI.CAI.CSI

Selected Zones: ACF214T

Change Zone Selection

Products to Deploy

Select	Product Name	Feature
<input type="checkbox"/>	CA ACF2 Security for z/OS	
<input type="checkbox"/>		CA ACF2/JES2 S
<input type="checkbox"/>		CA ACF2/JES3 S
<input type="checkbox"/>	CA ACF2/CICS Security for z/OS	

Selected 0 of 10.

Select Target Zones

Select at least one target zone to search for deployable products.

Target Zones

1 - 5 of 17

Select	Name
<input type="checkbox"/>	ACF214T
<input type="checkbox"/>	AUDITT
<input type="checkbox"/>	CAGENT
<input type="checkbox"/>	CA1T
<input checked="" type="checkbox"/>	CA7T

Selected 1 of 17.

OK **Cancel**

Changes To Existing Features in CA CSM v6

Deployment wizard

New Deployment

1 Introduction **2 Product Selection** 3 Custom Data Sets 4 Methodology Selection 5 System Selection 6 Preview

Select one or more products and features to deploy.

CSI Data Set: KOEMA01.PUBLIC.CSI.CAI.CSI

Selected Zones: CA7T [Change Zone Selection](#)

Select	Product Name	Feature	Release/Gen Level	Zone	Text
<input type="checkbox"/>	CA Workload Automation CA 7 Edition Full Config		12.00.00	CA7T	
<input type="checkbox"/>	Cross-Platform Configuration		12.00.00	CA7T	
<input type="checkbox"/>	CA Workload Automation CA 7 Edition r12.0		12.00.00	CA7T	
<input type="checkbox"/>		JFM r11	12.00.00	CA7T	

Selected 0 of 7.

[Save](#) [Back](#) [Next](#) [Deploy](#) [Cancel](#) [Help](#)

Changes To Existing Features in CA CSM v6

Secure FTP Deployment

- Deploy products to remote systems using FTP over TLS
- Allows data to be exchanged in a secure, encrypted manner
- Designate in System Registry

New FTP Location

Information

If you do not define the port number, the default value for the FTP service is used. To use secure FTP, make sure you have populated the security details in the Settings tab, under Software Deployment.

FTP Information

Host Name*:

Port:

Directory Path*:

Enable Secure FTP Transmission

Save Cancel Help

Changes To Existing Features in CA CSM v6

Secure FTP Deployment

- Specify details in the Settings Tab, Software Deployment

The screenshot displays the CA Chorus™ Software Manager interface. The top navigation bar includes tabs for Software Status, Products, SMP/E Environments, Deployments, Configurations, System Registry, Tasks, and Settings. The Settings tab is active, and the left sidebar shows a tree view with 'Software Deployment' selected under 'System Settings'. The main content area is titled 'Deployed Software' and contains an 'Information' section with a red arrow labeled '1' pointing to it. Below this is the 'Remote Credentials Administration' section, and at the bottom is the 'Key Store Settings' section, which is highlighted with a red box and a red arrow labeled '2'. The 'Key Store Settings' section includes fields for 'Key Store Type' (JCECCARACFKS), 'Key Ring User' (MSMSERV), and 'Key Ring Name' (CSMKEYRING), along with a checkbox for 'Use Virtual Key Ring' and an 'Apply' button.

CA Chorus™ Software Manager

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

Deployed Software

Information

On this page, you can do the following:

- Define how to administer credentials for remote systems where you deploy your software
- Configure key store settings that are used for deployments where data is transmitted using a secure FTP connection

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

Remote Credentials Administration

Always Prompt to Set Up Remote Credentials

Prompt to Set Up Only Missing Remote Credentials

Allow Saving Remote Credentials in the Database

Key Store Settings

Key Store Type: JCECCARACFKS

Key Ring User: MSMSERV

Key Ring Name: CSMKEYRING

Use Virtual Key Ring

Apply

Changes To Existing Features in CA CSM v6

Configuration Services

■ Configuration Import

- Now supports import of configuration settings, system settings, and variables from a previous configuration for a product.
- Import and delete of previous configuration has been added. This helps save time when creating configurations or addressing failures in configuration implementation.

Create Configuration for BASE

1 Select Product 2 Define and Target 3 **Import Values** 4 Select Functions and Options 5 Define System Preferences 6 Create Target Settings 7 Select and Edit Resources 8 Review and Build

Import values from a previous configuration of the product, or skip this step to configure the product with the default values.

PRODCONFIG

Skip Import Configures BASE using the default values.

Import from Previous Imports the data from a previous configuration of BASE.

Import from Previous and Delete Imports the data from a previous configuration of BASE and deletes the previous configuration. Selecting this option helps prevent duplicate resource errors.

Changes To Existing Features in CA CSM v6

Miscellaneous

- **Upgrade to CA Datacom/CSM v14**
- **Single Sign on with CA Chorus**
 - CA CSM now uses Pass Tickets so you can sign into CA CSM from CA Chorus without having to re-enter your credentials

Changes To Existing Features in CA CSM v6

New Documentation

■ Quick Start Guide

- Provides an introduction to CA CSM user interface and an overview of the CA CSM user documentation

The screenshot displays the CA Chorus Software Manager interface. At the top, a banner reads "CA Technologies: Quick Start" and "CA Chorus™ Software Manager" with the CA Technologies logo and the tagline "agility made possible™". Below the banner, a navigation bar includes tabs for "Software Status", "Products", "SMP/E Environments", "Deployments", "Configurations", "System Registry", "Tasks", and "Settings".

Callout boxes provide detailed descriptions for several tabs:

- Software Status:** The Software Status tab provides relevant product news from CA Technologies and various status information (for example, notifications for new maintenance, products, releases, and gen levels; new CA RS levels; maintenance notices for managed SMP/E environments in your working set, and status for any of your tasks).
- Products:** The Products tab lets you download products, and manage product and maintenance packages (for example, install products, and apply maintenance).
- SMP/E Environments:** The SMP/E Environments tab lets you manage the SMP/E environments on your system (for example, identify the products installed in an SMP/E environment; apply and accept maintenance; migrate, remove, delete SMP/E environments; set automatic maintenance updates; manage CA RS levels and FMCAT maintenance).
- Deployments:** The Deployments tab lets you deploy your products and manage your existing product deployments.
- Configurations:** The Configurations tab lets you configure your products and manage existing configurations.
- System Registry:** The System Registry tab lets you create and maintain systems on your site.
- Settings:** The Settings tab lets you configure the system and user settings for CA CSM (for example, product acquisition and installation, user preferences and access to remote systems).
- Tasks:** The Tasks tab lets you review, and manage tasks (for example, archive, filter, and delete tasks).

The main content area shows "Product News" for Sep 5, 2013, "New Maintenance" with status checks for HIPERs, products, releases, and gen levels, "SMP/E Environments" with status checks for missing HIPERs and maintenance, and "Tasks" with status checks for active, awaiting input, and error tasks. A "Quick Actions" sidebar on the right includes links for "Migrate SMP/E Environment", "New CA Support Online Credentials", "CA CSM Information", and "General Information".

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Changes To Existing Features in CA CSM v6

New Documentation

- **New documented Scenarios**

- *Administering the CA CSM Database*
- *Configuring CA CSM to perform automatic maintenance updates*
- *Configuring products using CA CSM*
- *Installing products and maintenance when CA CSM has no internet connection*
- *Managing tasks using CA CSM*

Deprecated Features and Deliverables



Deprecated Features and Deliverables

CA RS Automatic update for an SMP/E Environment

- The CA RS automatic scheduling is no longer supported
- The buttons 'Set Automatic Update' and 'Clear Automatic Update' were removed from the SMP/E info page

The screenshot displays the CA SMP/E Environment Information page for CA 1 R12.6. The page is divided into several sections:

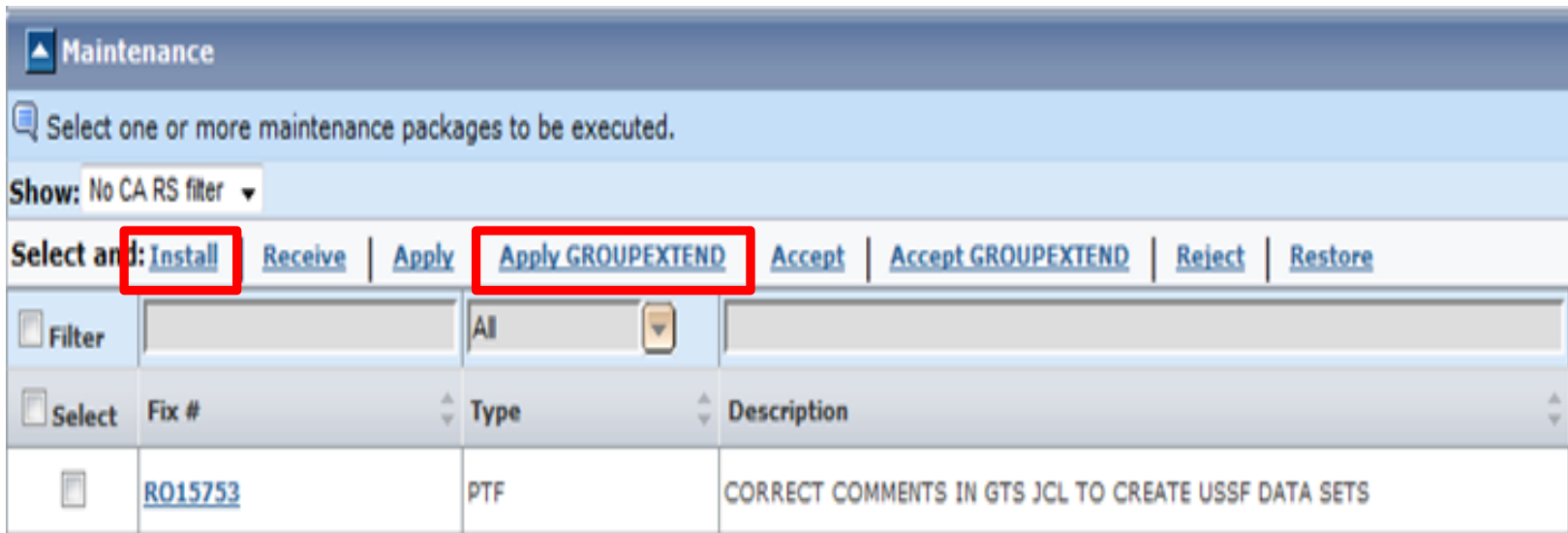
- Navigation:** Software Status, Products, SMP/E Environments, Deployments, Configurations, System Registry, Tasks, Settings.
- Search:** Search For: [], Search In: SMP/E Environment, Search.
- Actions:** Migrate SMP/E Environment.
- SMP/E Environments:** SMP/E Environments, CA 1 Demo, CA 1 R12.6.
- CA 1 R12.6 Details:**
 - Name: CA 1 R12.6 (Change Name)
 - CSI Data Set: CA1.R126.CSI
 - Data Set Name Prefix: CA1.R126
 - Actions: Delete SMP/E Environment, Remove SMP/E Environment from CA CSM, Create Deployment, Exception SYSMOD Report, Set Automatic Update, Clear Automatic Update, Update Using Fix Categories, Upgrade CA RS Level.

- You can now use the new Automatic Maintenance Update feature for scheduling

Deprecated Features and Deliverables

Maintenance Action Links

- The links **Apply GROUPEXTEND** and **Install** were removed from the Maintenance page of the SMP/E Environments tab.



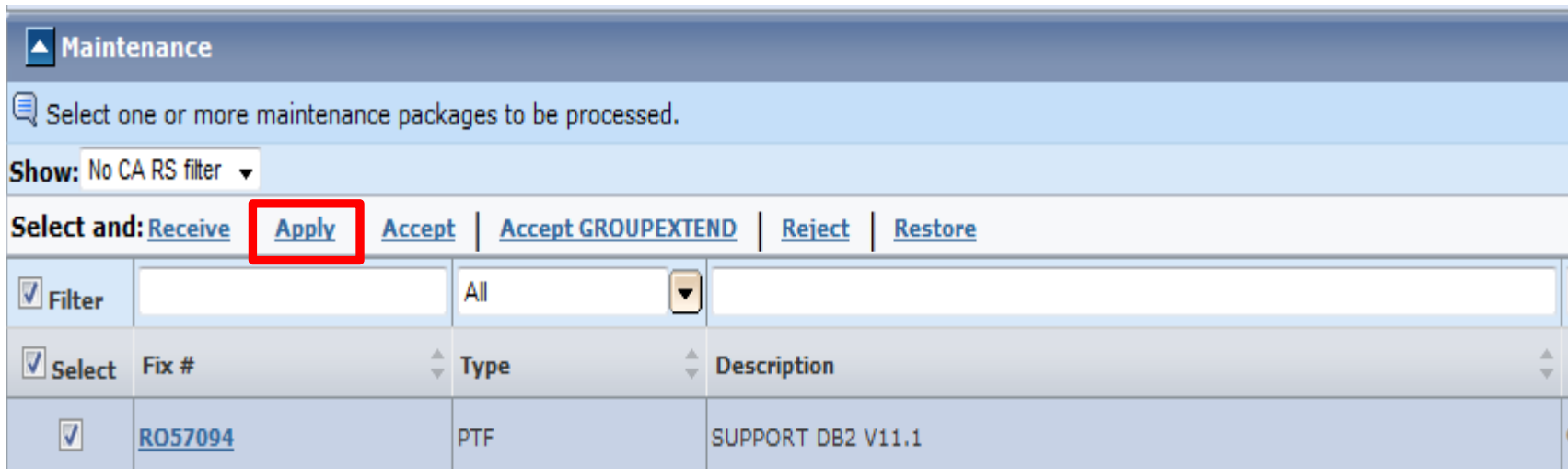
The screenshot shows the Maintenance page interface. At the top, there is a header "Maintenance" and a message "Select one or more maintenance packages to be executed." Below this, there is a "Show: No CA RS filter" dropdown. The main action bar contains several links: "Install", "Receive", "Apply", "Apply GROUPEXTEND", "Accept", "Accept GROUPEXTEND", "Reject", and "Restore". The "Install" and "Apply GROUPEXTEND" links are highlighted with red boxes. Below the action bar, there is a table with columns for "Filter", "Select", "Fix #", "Type", and "Description". The table contains one row with the following data:

Filter	Select	Fix #	Type	Description
		RO15753	PTF	CORRECT COMMENTS IN GTS JCL TO CREATE USSF DATA SETS

Deprecated Features and Deliverables

Maintenance Action Links

- Use the new Apply link to manage product maintenance. Clicking this link opens the new maintenance wizard that lets you tailor the process of working with maintenance.



The screenshot shows a software interface for maintenance management. At the top, there is a header bar with a blue background and the word "Maintenance" in white. Below the header, there is a light blue banner with a speech bubble icon and the text "Select one or more maintenance packages to be processed." Underneath the banner, there is a "Show:" label followed by a dropdown menu currently set to "No CA RS filter". Below this, there is a row of action links: "Select and: [Receive](#) [Apply](#) [Accept](#) | [Accept GROUPEXTEND](#) | [Reject](#) | [Restore](#)". The "Apply" link is highlighted with a red rectangular box. Below the action links is a table with columns for "Filter", "Fix #", "Type", and "Description". The "Filter" column has a checked checkbox and an empty input field. The "Fix #" column has a checked checkbox and a value "RO57094". The "Type" column has a checked checkbox and a value "PTF". The "Description" column has a checked checkbox and a value "SUPPORT DB2 V11.1".

Filter	Fix #	Type	Description
<input checked="" type="checkbox"/>	<input type="text"/>	All	
<input checked="" type="checkbox"/>	RO57094	PTF	SUPPORT DB2 V11.1

Deprecated Features and Deliverables

Installation Status Tab

- This was removed from the Maintenance Package Details dialog (on Products Tab)
- You can review maintenance packages and their installation status as well as perform actions on the packages
 - At the release level – from Products tab
 - At the SMP/E environment level – from the SMP/E Environments tab, Maintenance page

Deprecated Features and Deliverables

User Guide

- The *User Guide* is no longer available in the CA CSM bookshelf
- You can find all information about using the product in the CA CSM online help

New Process for Submitting DAR/Enhancement Requests



Log in to community

The screenshot shows the CA Communities website interface. At the top, there is a navigation bar with the CA Technologies logo on the left and links for Products, Services, and Support. Below this is a secondary navigation bar with Home, Content, People, Communities, and Help. A search bar is located on the right side of this bar, with the 'Log In' button circled in red. A blue callout bubble with the text 'Log In to Community' points to the 'Log In' button. The main content area features an announcement banner, a Twitter feed for @CA_Community, and a 'RECENT ACTIVITY' section with a post titled 'HOW TO: Relate an SLA to a given Organization'. A 'POPULAR CONTENT' section is also visible on the right.

ca Welcome | CA Communities
https://communities.ca.com/welcome
Connect 1-800-225-5224
Products Services Support
Home Content People Communities Help
Log In Search
ANNOUNCEMENT: **Subscribe Today! For Critical Alerts, Advisory and Product Update Notifica** Show Details
Follow CA Communities on Twitter
@CA_Community
Follow CA Communities on Twitter for community updates, event details and more!
RECENT ACTIVITY
Filter Matters Most
POPULAR CONTENT
Subscribe Today!
Mobile App Authentication Problems
Can we use the Android Jive apps to access the communities?
Marking CI inactive when CI is Deleted form CCA
Has anyone tried to use the smartphone Jive Mobile application?

Userid and password

- To Log into the community you will need to use your Support Online id and password.

<https://communities.ca.com/community/ca-mainframe-community>

Select Communities

ca technologies

Connect 1-800-225-5224

Products Services Support Insights Communities Partners

Home 3 Content People **Communities** Help Apps Search

ANNOUNCEMENT: [Subscribe Today! For Critical Alerts, Advisory and Product Update Notifica](#) Show Details

Power of technology is doubling every two years. Updating software once in a while means you'll fall behind. In a world runs on software, "behind" is not a good place to be.

Follow CA Communities

@CA_Community
Follow CA Communities on Twitter for community updates

Powered by **jive**

RECENT ACTIVITY Filter

POPULAR CONTENT

Upgrade APM 9.5.2 to 9.6 question.

James.DeZego 22 hours ago (Show more)

I have a 9.5.2 installation running on Linux with PostgreSQL. I launch the 9.6 installer, choose "upgrade existing installation." When I get to "Install or Choose Existing APM Database" I choose...

in [Application Performance Mgmt EF](#) • Share • Reply • Like (0)

5 replies Show more comments

- Subscribe Today!
- Mobile App Authentication Problems
- Can we use the Android Jive apps to access the communities?
- Marking CI inactive when CI is Deleted form CCA
- Has anyone tried to use the smartphone Jive Mobile application?

Type 'chorus' in filter box; select CA Chorus community

The screenshot shows a web browser window with the URL <https://communities.ca.com/places?query=chorus>. The page header includes the CA Technologies logo, navigation links (Products, Services, Support, Insights, Communities, Partners), and a search bar. The main content area displays search results for 'chorus' under the 'Communities' tab. The search results table has columns for 'Community', 'Followers', and 'Latest activity'. The 'CA Chorus' community is highlighted with a red circle. The search input field and the 'Filter by tag' button are also circled in red.

Community	Followers	Latest activity
CA Chorus	60	baije01 started the discussion CA Tuesday Tip: Clean Up the USS Directory (15 minutes ago)

Select Content

The screenshot shows a web browser window displaying the CA Chorus community page. The browser's address bar shows the URL <https://communities.ca.com/community/ca-chorus>. The page header includes the CA Technologies logo and navigation links for Products, Services, Support, Insights, Communities, and Partners. Below the header is a secondary navigation bar with links for Home, Content, People, Communities, Help, and Apps, along with a search bar. The main content area features a dark green banner for the 'CA Chorus' community, with a red circle highlighting the 'Content' tab in the sub-navigation menu. The page content is divided into several sections: 'WELCOME TO THE CA CHORUS COMMUNITY' with a descriptive paragraph; 'ASK THE CA CHORUS COMMUNITY' with a text input field and an 'Ask it' button; 'RECENT ACTIVITY' with a list of posts, including one by 'baije01' about cleaning up the USS Directory and another about CSM installation options; 'UPCOMING EVENTS' with a 'Create a new event' button; 'FEATURED CONTENT' with a link to a CSM compliant product matrix update; and 'LATEST POLL' with a poll titled 'Are you using CA RS for applying maintenance?' and navigation buttons for 'Previous', 'Next', and 'More polls'.

Select 'Create an Idea' three places to chose action from;

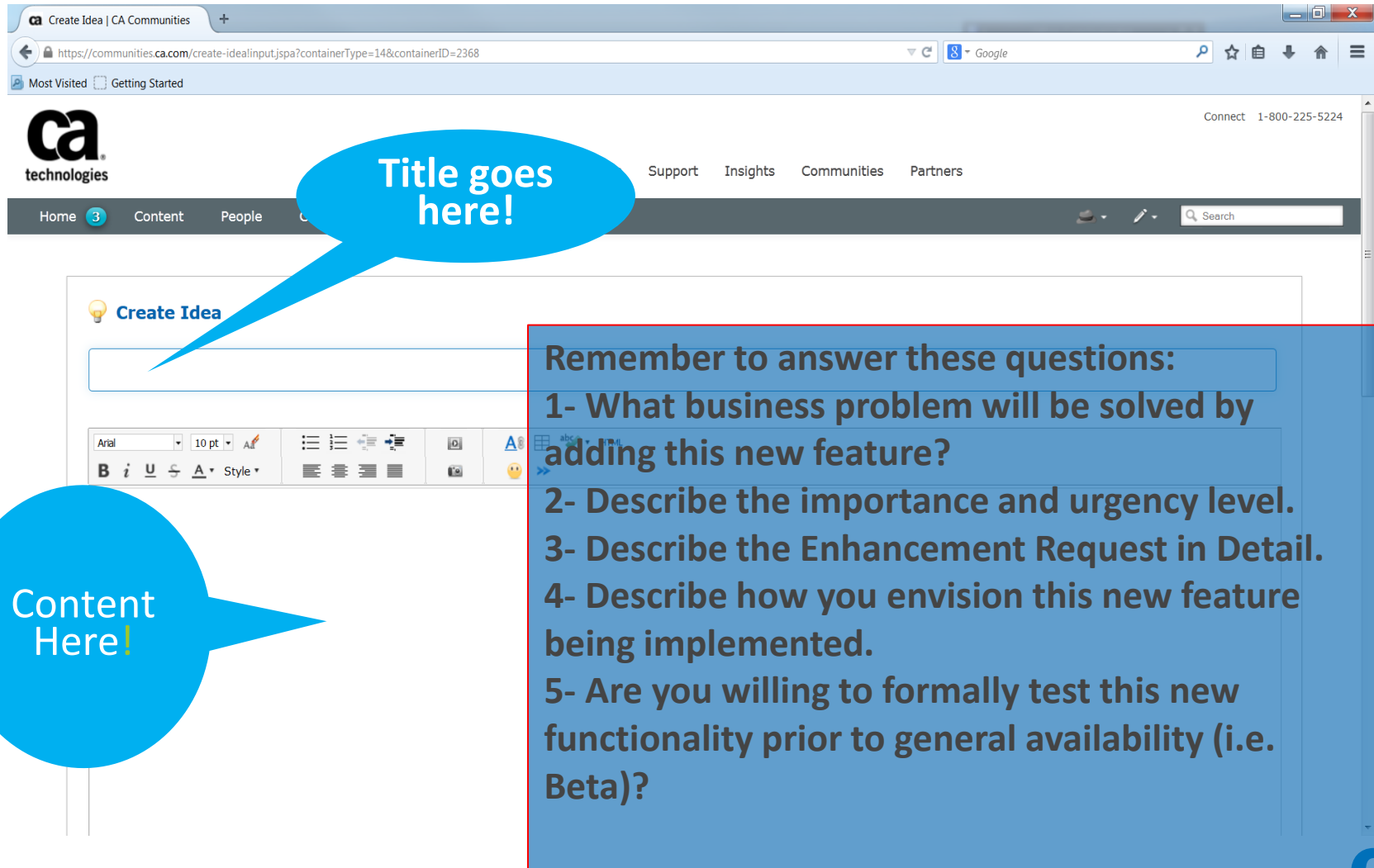
The screenshot shows a web browser window displaying a community page. Three blue callout boxes highlight different ways to create an idea:

- 1) From pencil icon pull-down:** Points to a pencil icon in the top right navigation bar.
- 2) From Action pull-down:** Points to an 'Actions' dropdown menu in the top right of the content area.
- 3) From action on left panel:** Points to the 'Create an idea' option in the left-hand 'ACTIONS' menu.

The main content area displays a list of posts with the following data:

Title	Views	Latest activity
CA Tuesday Tip: Clean Up the USS Directory	2	July 22, 2014 7:37:15 AM
[CSM] Option to install PTFs into Configurations 13 NEW	82	July 22, 2014 6:59:48 AM
Are you using CA RS for applying maintenance?	4	July 22, 2014 6:16:09 AM
CA Chorus Software Manager (CSM) and Ideas	117	July 22, 2014 5:14:58 AM
Are you using product Configuration in CSM?	15	July 21, 2014 11:10:57 PM
test question for Chorus community. I'll delete this in a few minutes	4	July 21, 2014 1:34:21 PM

Enter the title and content for the idea *continued on the next slide*



The image shows a screenshot of a web browser displaying the 'Create Idea' form on the CA Communities website. The browser address bar shows the URL: <https://communities.ca.com/create-idealinput.jspa?containerType=14&containerID=2368>. The page header includes the CA Technologies logo, navigation links (Home, Content, People), and a search bar. The main content area is titled 'Create Idea' and features a large text input field for the title and a rich text editor for the content. A blue speech bubble points to the title field with the text 'Title goes here!'. Another blue speech bubble points to the content field with the text 'Content Here!'. A large blue box on the right side of the form contains a list of questions to answer.

Title goes here!

Content Here!

Remember to answer these questions:

- 1- What business problem will be solved by adding this new feature?
- 2- Describe the importance and urgency level.
- 3- Describe the Enhancement Request in Detail.
- 4- Describe how you envision this new feature being implemented.
- 5- Are you willing to formally test this new functionality prior to general availability (i.e. Beta)?

Select how you want the idea to appear

continued on next slide

The screenshot shows the 'Create Idea' form in the CA Communities interface. The browser address bar shows the URL: <https://communities.ca.com/community/ca-chorus/create-idealinput.jspa?containerID=22>. The form includes several options for how the idea should be created and shared:

- In a Place:** Search a specific audience or organize your posts by subject or group. A callout bubble points to this option with the text: "Creating 'in a place' will put this in the CA Chorus community".
- Create idea as a guest user:** A checkbox option. A callout bubble points to it with the text: "Guest means it is anonymous".
- Hidden:** Hide this content from everyone else. A callout bubble points to this option with the text: "You can create one as hidden until you want to share with others".
- Specific People:** Work privately with specific people.
- The CA Communities Community:** Make your content visible to everyone.

Below the form, there is a **Tags** section with the instruction "Tag your content to make it easier to find" and a text input field. At the bottom, there is a **Categories** section with the instruction "Help others find your content by selecting relevant categories" and three checkboxes:

- CA Chorus
- CA Chorus Software Manager
- CA Common Services

Work with specific people or share with full CA community *continued on next slide*

The screenshot shows a web browser window with the URL <https://communities.ca.com/community/ca-chorus/create-idealinput.jsps?containerID=2368&containerType=14>. The page title is "Create Idea | CA Communities". The main content area is a rich text editor with a toolbar. Below the editor, there are three radio button options for visibility:

- In a Place** Reach a specific group of people.
- Hidden** Hide your idea from everyone else.
- Specific People** Work privately with a few people before opening it up to your community.

Below these options is a search input field containing the text "Jane Doe, john.smith@example.com, kim woo".

Below the search field is another radio button option:

- The CA Communities Community** Make your content visible to everyone in your community.

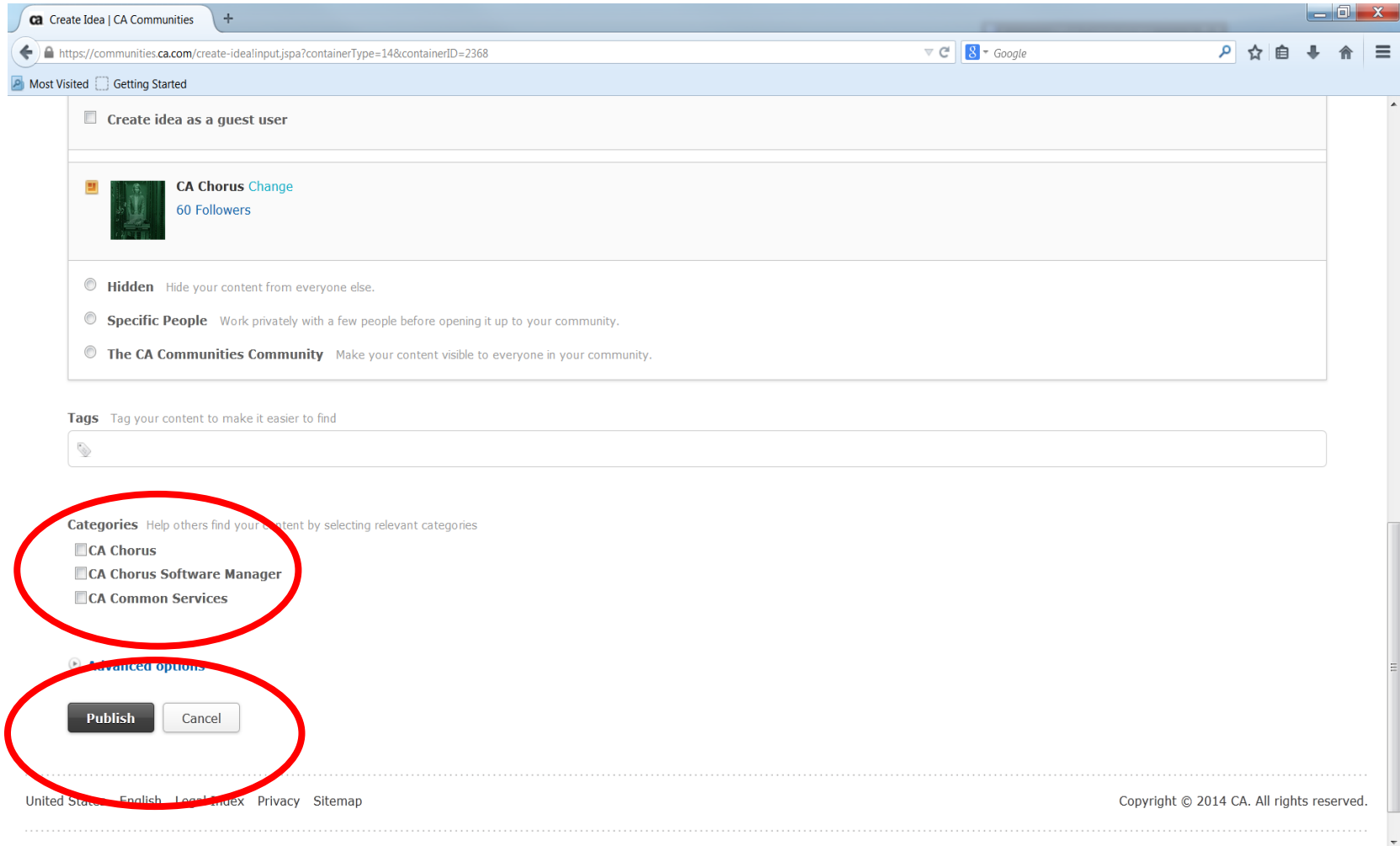
Below this is a "Tags" section with the text "Tag your content to make it easier to find" and an empty input field.

At the bottom, there is an "Advanced options" section and two buttons: "Publish" and "Cancel".

Two blue callout boxes are overlaid on the image:

- The first callout points to the "Specific People" option and contains the text: "The specific people option allows you select others to work with for an idea, instead of the full community".
- The second callout points to the "The CA Communities Community" option and contains the text: "Share with broader CA community, so it is visible outside CA Chorus community".

Select the appropriate category or categories Then Publish




CA Create Idea | CA Communities

https://communities.ca.com/create-idealinput.jspa?containerType=14&containerID=2368

Most Visited Getting Started

Create idea as a guest user

 **CA Chorus Change**
60 Followers

Hidden Hide your content from everyone else.

Specific People Work privately with a few people before opening it up to your community.

The CA Communities Community Make your content visible to everyone in your community.

Tags Tag your content to make it easier to find

Categories Help others find your content by selecting relevant categories

- CA Chorus
- CA Chorus Software Manager**
- CA Common Services

Advanced options

United States English Legal Index Privacy Sitemap

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See your ideas and status in ideas tab

The screenshot shows the CA Chorus website interface. The top navigation bar includes 'Home', 'Content', 'People', 'Communities', 'Help', and 'Apps'. The main header features the CA Chorus logo and a 'Follow' button. The 'Content' tab is active, and the 'Ideas (4)' sub-tab is highlighted with a red circle. A blue callout bubble labeled 'Status' points to the 'Status' column header in the table below.

Title	Author	Views	Latest activity
[CSM] Option to install PT's into Configurations 13 NEW	pekmi02	85	July 22 2014 8:59 AM
CCS should have this 'idea' 6 UNDER REVIEW	Jennifer_Pronko	233	July 21 2014 2:03 AM
(26944) Please make ENF & CCI support SUB=MSTR w/ JES discovery 2 CURRENTLY PLANNED	Guest	16	July 21 2014 1:55 PM
(26931) CAS9 and RIM return codes would be nice. 0 DELIVERED	Guest	12	July 21 2014 1:55 PM

Vote on your favorite Ideas

Vote is visible when you view the idea

The screenshot shows a web browser window displaying an idea on the CA Technologies website. The browser's address bar shows the URL <https://communities.ca.com/ideas/235714011>. The page header includes the CA Technologies logo and navigation links for Products, Services, Support, Insights, Communities, and Partners. A dark navigation bar contains links for Home, Content, People, Communities, Help, and Apps, along with a search bar. The main content area features an idea titled "[CSM] Option to install PTFs in..." created on Jul 22, 2014. A blue callout bubble with the text "Vote Here" is positioned over the idea's vote count, which is 13. The idea's content includes a list of five numbered questions and answers. On the right side, there are buttons for Follow, Share, and Bookmark, and a section for ACTIONS with options like Edit idea, Move idea, Delete idea, Report abuse, and View as PDF. A VOTE HISTORY section at the bottom right shows three users: pekmi02, fouma02, and gotvi01, each with a green up arrow indicating a vote.

ca technologies

Products Services Support Insights Communities Partners

Home Content People Communities Help Apps

More ideas in CA Chorus

[CSM] Option to install PTFs in...
Created on Jul 22, 2014 2:05 PM

13

Vote Here

- What business problem will be solved by adding this new feature?**
I will have my runtime environment up-to-date and avoid tedious "install PTF into base -> Deploy (not many products support Configuration without Deployment) -> Configuration" chain. My runtime datasets are tied into other jobs, so I can't create new Configuration with different datasets...
- Describe the importance and urgency level.**
I believe this was promised some time ago, urgency would be semi-high imo.
- Describe the Enhancement Request in Detail.**
Just as you have list on maintenance in SMP/E tab, let me see the similar list + functions for Configuration. Or show Configurations which originate from this SMP/E in the SMP/E tab and let me install PTFs into them.
It would be also nice to have option to select all or just some Configurations created from this particular SMP/E / Deployment.
- Describe how you envision this new feature being implemented.**
Similar to how installation of PTFs into SMP/E works.
- Are you willing to formally test this new functionality prior to general availability (i.e. Beta)?**
Yes.

Categories: CA Chorus Software Manager Tags (edit): csm, configuration

2 Comments

ACTIONS

- Edit idea
- Move idea
- Delete idea
- Report abuse
- View as PDF

VOTE HISTORY

- pekmi02
- fouma02
- gotvi01

CA CSM Resource Center



Available at *CA Support Online*

+ solutions + products + customer success & communities + services, support & education + partners

Presentations

FAQs

Video Tutorials

Site ID: [dropdown] | Site Profile | My Account | My Download Cart | Recently Viewed | Bookmarks

Support > Support By Product

Print | Bookmark

Support

Home

Advanced Search

Support By Product

Open a Case

View Cases

Download Center

Documentation

Licensing

CA Technologies Project Management

User Administration

CA Programs

Compatibilities

Subscriptions

Contact and Resources

CA Chorus Software Manager Resource Center

Here you'll find everything you need to know about how to install and use CA Chorus Software Manager (CA CSM). Whether you're new to CA CSM and are interested in learning more about it or are an experienced user with a "how to" question, the CA CSM Resource Center is for you.

Presentations

Here are some recent presentations on Next-Generation Mainframe Management and CA Chorus Software Manager (CA CSM).

CA Chorus Software Manager Update.

For the full text of this document, [Click here](#)

CA Recommended Service, FIXCAT Exploitation, and Other Enhancements to CA Service Delivery.

For the full text of this document, [Click here](#)

Video Tutorials

In the following tutorials, CA CSM experts from CA's Mainframe Solution Center guide you through the process of installing and using CA CSM. If you're new to CA CSM, we recommend that you view each video in sequence. If you have questions about a specific topic, you can also view any of the videos individually. Topics 1-8 will generally be of interest only to those installing and maintaining CA CSM, while topics 9-15 will be of interest to everyone.

These videos should be viewed in conjunction with the CA Chorus Software Manager Admin Guide and other publications available on the CA Chorus Software Manager Bookshelf that corresponds with your release of CA CSM.

1. [Assessing your System for CA CSM](#)

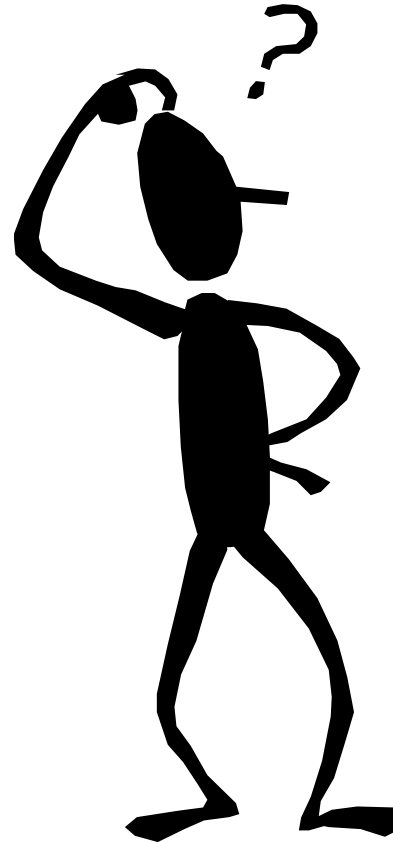
Ready to install CSM? This tutorial discusses how to download and run the CA CSM Prerequisite Validator tool to verify that the necessary software, network, and security prerequisites are present on the system where you'll be installing CA CSM. *(running time: 35 minutes)*

2. [Preparing your System for CA CSM](#)

Now that your system is ready for CA CSM, this tutorial discusses the pre-installation activities required for the actual installation, including setting up the z/OS Unix environment and gathering configuration information that will be needed during the installation process. *(running time: 25 minutes)*

Questions

- Thanks for your time!
- Questions?



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