

CA Chorus™

Release Notes

Version 03.0.00, Eighth Edition



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CA Technologies Product References

This document references the following CA Technologies products:

- CA ACF2
- CA Chorus™
- CA Chorus™ for DB2 Database Management
- CA Chorus™ for Security and Compliance Management
- CA Chorus™ for Storage Management
- CA Chorus™ Infrastructure Management for Networks and Systems
- CA Chorus™ Software Manager
- CA Compliance Manager
- CA DSI Server
- CA LDAP Server
- CA NetMaster NM for TCP/IP
- CA SYSVIEW
- CA Top Secret
- CA Vantage

Contact CA Technologies

Contact CA Support

For your convenience, CA Technologies provides one site where you can access the information that you need for your Home Office, Small Business, and Enterprise CA Technologies products. At <http://ca.com/support>, you can access the following resources:

- Online and telephone contact information for technical assistance and customer services
- Information about user communities and forums
- Product and documentation downloads
- CA Support policies and guidelines
- Other helpful resources appropriate for your product

Providing Feedback About Product Documentation

If you have comments or questions about CA Technologies product documentation, you can send a message to techpubs@ca.com.

To provide feedback about CA Technologies product documentation, complete our short customer survey which is available on the CA Support website at <http://ca.com/docs>.

Documentation Changes

The following documentation updates have been made since the seventh edition of this documentation:

- [CA Chorus](#) (see page 9)—Noted that this release supports IBM 64-bit SDK for z/OS, Java Technology Edition, Version 7 Release 0 Modification 0 Service Release 2,5 or 7 or IBM 64-bit SDK for z/OS, Java Technology Edition, Version 7 Release 1 (5655-W44). Support for Version 7 service release 1 is new.

The following documentation updates have been made since the sixth edition of this documentation:

- [Third-party Acknowledgements](#) (see page 23)—Added the license for IBM DB2 Driver for JDBC and SQLJ 9.7.

The following documentation updates have been made since the fifth edition of this documentation:

- [CA Chorus Infrastructure Management for Networks and Systems](#) (see page 18)—Added information about the enhancements that have been made for this discipline.

The following documentation updates have been made since the fourth edition of this documentation:

- Global—Noted that Recommended Reading is now listed under Content Type on the CA Chorus product page.

The following documentation updates have been made since the third edition of this documentation:

- [CA Chorus](#) (see page 9)
 - Noted that the Value columns in the Site Preparation Guide checklists are editable using PDF.
 - Noted that procedures to backup and restore the H2 database have been added to the *Administration Guide*.

The following documentation updates have been made since the second edition of this documentation:

- [CA Chorus for DB2 Database Management](#) (see page 14)—Added information about the enhancements that have been made for this discipline.
- [CA Chorus](#) (see page 9)—Added information for LFAREA, SMS/non-SMS best practices, automated heap memory configuration, and editorial improvements to the *Site Preparation Guide* and *Installation Guide*.

The following documentation updates have been made since the first edition of this documentation:

- [Legal Notices](#) (see page 2)—Updated to reflect public documentation legal disclaimer.
- [CA Chorus Features](#) (see page 9)—Noted the Prerequisite Validator, the streamlined manual deployment, and the new procedure to move CA Chorus from a test to production environment.
- [CA Chorus for Storage Management](#) (see page 16)— Updated with items added to the discipline after Version 3.0.

The following documentation updates have been made since the last release of this documentation:

- [New Features](#) (see page 9)—Added features for this release.
- Moved Known Issues to the *Troubleshooting Guide*.
- [Technical Information Content Philosophy](#) (see page 26)—Added this topic.
- [Third-party Acknowledgements](#) (see page 23)—Updated this appendix to reference the TPSA text files in the TPSA subfolder of the CA Chorus bookshelf.
 - Adobe Flex SDK—Added this license.
 - Apache CXF 2.5.6—Added this license.
 - Errai 2.2.0 License—Added this license.
 - GWT Highcharts 1.4.0 License—Added this license.
 - H2 1.3.168 License—Added this license and removed the H2 1.3.162 License
 - jQuery 4.0 License—Added this license.
 - Saxon-B 9.1.0.8 License—Added this license.
 - Software under the Apache 2.0 License—Added Errai 2.0.2, Apache CXF 2.5.6, Commons Logging 1.1.1, Commons Net 2.0, Flex mojos 3.9, httpclient 4.2, Saxon-B 9.1.0.8.
 - Software under the Eclipse 1.0 License—Added H2 1.3.168.
 - Software under the LPGL 2.1 License—Added Teiid 8.1.
 - Software under the Mozilla v1.1 Public License—Added Saxon-B 9.1.0.8.

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Chapter 1: New Features

This section contains the following topics:

[CA Chorus](#) (see page 9)

[CA Chorus for DB2 Database Management](#) (see page 14)

[CA Chorus for Security and Compliance Management](#) (see page 16)

[CA Chorus for Storage Management](#) (see page 16)

[CA Chorus Infrastructure Management for Networks and Systems](#) (see page 18)

CA Chorus

This release includes the following enhancements:

Knowledge Sharing

- When you create a dashboard (previously known as a workspace), you can now share it with your colleagues. Conversely, you can import a shared dashboard. This feature promotes knowledge transfer and minimizes the time personnel spend building dashboards.
- You can create and share views within the Investigator Details pane. Additionally, you can create new tabs in the Details pane. Doing so lets you highlight the fields that matter the most to your site.
- You can now index your notes and public notes to the Knowledge Center so others can learn from your experiences.

New Tools

- Added [CA Chorus Software Manager](#) (see page 13) as an option for your Quick Links module. Including this product lets you manage all product and maintenance work from within CA Chorus. CA Mainframe Software Manager™ (CA MSM) is renamed to CA Chorus™ Software Manager (CA Chorus™ Software Manager) and adopts the CA Chorus look-and-feel.
- Added the TextBox module, which lets you add customizable labels to the modules in your dashboard. Doing so lets you differentiate modules so you can quickly find data.
- Added the Policy Status Light module, which lets you create a customized view of objects and policies that you want to monitor. This module provides clear visual cues when a policy is met. Additionally, based on the system performance against your policies, you can generate alerts to the Alerts module.
- Added the Web Application module, which lets you quickly add a web application to your dashboard. Doing so lets you further customize your dashboard to view and manage your data in the most efficient manner.

Usability Enhancements

- Added support for a faster and less resource-intensive initialization.
- Added support for a full screen view for all modules.
- Added a toolbar in the Alerts module. This toolbar helps you create search queries and filter alerts, view and analyze alerts as charts, refresh alerts, manage notes, and export alert data to various file formats.
- Added a time slider to the TSF graph and dashboard graph.
- Renamed the Visualizer to Topology Viewer. The new color-codes help you assess the health state of your system data. You can now save the customized topology view as a perspective or map to reuse the view.
- The Metric Panel configuration window has two new options for all disciplines except DBA:

Group Metrics by Resource

Helps you select metrics that are based on the resource that you have selected.

Group Metrics by Metric Type

Helps you select systems that are based on the metric type that you have selected.

- Added continuous scrolling in all modules. The pagination bar is no longer necessary.
- Added support to let you customize the tabs in the Details pane of the Investigator. You can now add site-specific tabs and insert fields according to your responsibilities.
- Improved the status bar below the Data pane in the Investigator. The bar now displays the count of selected rows, count of total rows, and the time stamp when the data was retrieved. The Clear button on the status bar helps you cancel the selection of rows.
- For authorized users, the auto refresh option is available in various modules. Unauthorized users must manually refresh the data.
- Added What's New and Product Demonstration links in the Getting Started dashboard.

Installation and Configuration Enhancements

Automated Configuration and CA CSM Software Configuration Services

Automated Configuration

This method lets you edit one batch job (ETJICUST) and one configuration file. A Java program then propagates your changes to the applicable members. You then manually submit each job. For this option, we recommend that you configure the platform and disciplines at the same time.

CA Chorus™ Software Manager

This method lets you use the wizard-based CA Chorus™ Software Manager to configure the product.

New Security Job

We now offer three separate security jobs that are based on your external security manager. The ETJI095x security job simplifies how you meet many security requirements. x can be A for CA ACF2, T for CA Top Secret, and R for IBM RACF. These jobs reside under the CA Chorus product page under Content Type, Recommended Reading.

Reorganized Documentation

- Separated the preinstallation and day of installation tasks into two guides—*Site Preparation Guide* and *Installation Guide*.
- All installation tasks (platform and discipline) reside in one *Installation Guide*. This statement applies when you use our previously recommended configuration processes.
- The *Software Development Kit User Guide* is a restricted deliverable. To access this guide, sign on with an email address associated with a CA product site ID. To confirm your access, contact your system administrator.
- The *Release Notes* now has links to the third-party license acknowledgment (TPSA) text files in the TPSA subfolder of the CA Chorus bookshelf.
- Added warnings to the installation topics to alert users that they should first read *Site Preparation Guides*.
- Streamlined the pre-installation tables to provide room to record site-specific values.

Time Zone Specification

Added the TZ_OFFSET variable to set the time zone for your system. This variable lets you customize the data coming from your back-end products such that the time stamp is accurate.

Prerequisite Validator

Added this tool that you run after you complete the tasks in the *CA Chorus Site Preparation Guide*. This tool automatically confirms if your system meets all prerequisites to start the installation.

Streamlined Manual Deployment (requires RO63417)

Added two new jobs (PACKAGE and DEPLOY), which minimize the manual deployment effort. This content resides in the *Installation Guide*.

Test to Production Environment Procedure

Added a procedure to move your test instance of CA Chorus to a production environment. This scenario resides in the *Administration Guide*.

LFAREA Support (requires RO65280)

Improved support for this z/OS parameter, which specifies the amount of real storage to be made available for 1 MB pages. The value specified for this parameter indicates the amount of online real storage at IPL that is to be used to back large pages. As you configure the product, configuration jobs or the CA CSM configuration wizard include details about how to let CA Chorus leverage this feature.

LFAREA CA CSM SCS Support (requires RO67899)

Simplifies how the LFAREA value is derived when using CA CSM SCS. For more details, see Real Storage Recommendations in the *Site Preparation Guide*.

Automation of Heap Memory Configuration (requires RO65636)

Automated a previously manual process to configure the heap memory size based on the disciplines that you install at JBoss startup.

Improved SMS and non-SMS multiple volume details

Multiple volume considerations and best practices now reside in the configuration chapter of the *Installation Guide*.

Editable Checklists in the *Site Preparation Guide* PDF

We have added the ability to edit the Value column in the following checklists in the PDF version of the *Site Preparation Guide*:

- Security Considerations
- Data Set and Path Considerations
- Started Task Considerations

Java Support

This release supports IBM 64-bit SDK for z/OS, Java Technology Edition, Version 7 Release 0 Modification 0 Service Release 2,5 or 7 or IBM 64-bit SDK for z/OS, Java Technology Edition, Version 7 Release 1 (5655-W44). Support for Version 7 service release 1 is new.

H2 Database Backup and Restore Procedures

Added procedures to back up and restore the H2 database to the *Administration Guide*.

CA Chorus™ Software Manager

CA Chorus™ Software Manager (CA Chorus™ Software Manager) is an application that simplifies and unifies the management of CA Technologies mainframe products on z/OS systems.

CA Chorus™ Software Manager provides services that make it easier for you to perform the following actions:

- Acquire, install, deploy, and configure products
- Automatically obtain and apply maintenance

These services enable you to easily manage your software based on industry-accepted best practices. A web-based interface makes the look-and-feel of the environment friendly and familiar. This interface helps you install and maintain your products faster and with less chance of error.

You can acquire CA Chorus™ Software Manager from <http://ca.com/support>.

Note: For more information, see your product installation instructions and the CA Chorus™ Software Manager online help.

CA Chorus for DB2 Database Management

Show Full SQL Text

This new action shows the full SQL text displayed as a single row in the grid and in the Details at the bottom of the display. When the text is displayed, you can use the Explain action to explain the statement or view and execute it using the DBA Command Manager.

Note: This support was added as a post-GA PTF.

Consolidated Security Jobs

New consolidated security jobs are now provided. The security jobs simplify how you meet many security requirements for the installer, user, secondary authorization IDs, started task permissions, PassTicket configuration, and RRSF authorizations. The following jobs reside on the CA Chorus for DB2 Database Management product page under Content Type, Recommended Reading:

- E3KI095A for CA ACF2
- E3KI095T for CA Top Secret
- E3KI095R for IBM RACF

Note: This support was added as a post-GA PTF.

The following improvements have been made to CA Chorus for DB2 Database Management since the GA release:

- Reduced loading time for the DB2 for DBA Investigator tree.
- Resolved issues that could lead the CA Chorus JBoss server to encounter out of memory conditions.
- Reduced the overall heap usage of the discipline within the CA Chorus JBoss server.
- Enhanced the display and formatting of timestamps in the DB2 for DBA Investigator.
- Improved info/error messages.

Note: This support was added as a post-GA PTF.

This release adds the Object Relationship Report feature:

The Object Relationship report identifies objects that will be removed, need to be removed, or will be invalidated due to the dropping of a selected object. The report displays the objects that are affected directly and indirectly. You can perform the following actions:

- Show parent objects (ancestors)
- Show child objects (descendants)
- Show all related objects

Version 3.0 includes the following enhancements:

DDL Generation Commands for Catalog Objects in the Investigator

Object DDL

Generates DDL for a DB2 object and all related objects. An object DDL action places the DDL of a selected object in the input window of the DBA Command Manager. This feature lets the user edit and submit the altered DDL to DB2. The DDL can be generated with or without OBID (OBID clause) information. A DDL generation is supported for the primary object types (storage group, database, tablespace, and so on). Multiple objects can be selected.

Hierarchical DDL

Places the DDL of a selected object and its related objects in the input window of the DBA Command Manager for DB2. This feature lets the user edit and submit the altered DDL to DB2. The DDL can be generated with or without OBID information. A DDL generation is supported for the primary object types (storage group, database, tablespace, and so on).

DBA Command Manager for DB2 Performance Enhancements

The DBA Command Manager for DB2 has been enhanced to process a single SELECT statement without using temporary z/OS data sets. This enhancement improves performance and reduces the extra complexities that are introduced by having work data sets created. The results are displayed in a grid (table) format under the results tab in the Investigator.

CA Chorus for Security and Compliance Management

This release adds support for handling user-defined fields (UDF) in CA ACF2 and CA Top Secret Compliance Information Analysis (CIA). The contents of the fields can be used to collect user-related information. These enhancements require any existing CIA repositories to be redefined and reloaded using the updated SAMPJCL jobs that are provided in the product.

- Added CIA repository tables to support UDFs (updated data model and data dictionary)
- Updated the method for supporting UDFs in the CIA batch unload and load processes
- Added support for different UDFs on multiple systems
- Added support for UDFs in a CIA CA Datacom repository
- Updated the CIA SAMPJCL jobs

For more information about how to implement CIA and CIA user-defined fields, see the CA ACF2 or CA Top Secret *Compliance Information Analysis Guide*.

Version 3.0 includes the following enhancements:

- You can now delete users using the Investigator. To delete a user, select one in the Investigator and choose Delete User in the Actions panel.
- You can now modify user data using the Investigator. To modify a user, select one in the Investigator and edit the fields in the Details pane.

CA Chorus for Storage Management

The following enhancements are made to this discipline since the Version 3.0 release:

- You can change values in the Customer Site Costs Data object directly in the Investigator. (PTF RO63077 required.)
- You can launch the storage engine Host Configuration Client from the Storage Management interface which is available in the Quick Links Module. (PTF RO62885 required.)
- New storage object tree category added, CA SRM Open Systems Objects. (Back-end PTF RO60081 required.)
- The storage engine installation and configuration for CA Chorus for Storage Management is simplified for new CA Chorus customers. (Back-end PTF RO64747 required.)
- You can open the Investigator from the Alerts that are listed in the Alert module. This functionality let you investigate and resolve any (Alert) issues in the Investigator. (PTF RO65056 required.)

The Version 3.0 release adds the Cost Analysis feature:

- This feature provides automatic analysis of systems, highlights anomalies, and presents information from the analysis in both quantitative metrics about the technologies, and also applies cost information to the analysis.
- This feature includes a set of standard system analysis scripts that provide various cost and quantitative analysis of your environment. These scripts help you manage your storage data center costs.

Version 3.0 includes the following enhancements:

- Topology is improved to show better hierarchy relationships to your storage resources in graphical format.
- The storage object tree is reorganized to improve your access to data. The storage object tree appears when you select the Storage tab in the Investigator. The storage objects are now placed in the following new main category folders:
 - All Storage Solutions
 - Cost Analysis
 - Diagnostics & Investigations
 - Reports & Views Utilization
 - Statistics
 - Volumes & Utilization

Note: The Storage Engine Information object is above the main category folders in the storage object tree.

CA Chorus Infrastructure Management for Networks and Systems

The following improvements have been made to this discipline since the Version 3.0 release:

- Enhanced the Alert and Health State integration
 - The Alerts Module now includes the IMS and WebSphere MQ subsystems.
 - The Policy Status Light Module now includes the IMS and WebSphere MQ subsystems.
 - The Investigator Module now includes alerts, thresholds, and states for the IMS and WebSphere MQ subsystems.
- Enhanced the Investigator integration

The IMS subsystem:

 - You can display IMS workload delays.
 - You can display IMS transaction delays.
 - You can display active IMS-dependent regions.

The WebSphere MQ subsystem:

 - You can display MQ queue performance-related metrics.
 - You can display MQ queue users.
 - You can display MQ page set performance.
 - You can display MQ channel instance status and performance.
- Improved installation and security requirements
 - Simplified the APPLID and Passticket configuration
 - Consolidated the security definitions

The Version 3.0 release introduces the CA Chorus Infrastructure Management for Networks and Systems discipline, an interactive, diagnostic, and problem resolution tool that lets you simplify your management of network and system performance. By focusing on a discipline-based delivery model, this product transforms the way a performance analyst works. CA Chorus Infrastructure Management for Networks and Systems drives the overall health of your enterprise and targets the overall optimum performance of underlying resources.

The CA products CA NetMaster NM for TCP/IP, CA SYSVIEW Performance Management, and CA Insight contribute to this discipline to offer the following usability features:

- Time Series data graphing
- User-configurable threshold settings for monitoring and investigating alerts
- Real-time network and systems performance reporting

- Real-time access to state and event data
- Object-based navigation for near real-time performance monitoring
- Topological display of the selected resources and associations
- In-context domain documentation
- Hover text

Chapter 2: Published Fixes and Known Issues

All published fixes are available at Published Solutions on CA Support.

Important! All known issues reside in the *Troubleshooting Guide*. When applicable, each entry includes a workaround.

Appendix A: Third-party Acknowledgements

The following license agreements are available in the \Bookshelf\TPSA folder of the CA Chorus bookshelf:

- Adobe Flex Builder 3.0
- Adobe Flex SDK 3.6
- Apache CXF 2.2.3
- Apache CXF 2.5.6
- Apache Batik 1.7
- BIRT 2.5
- Cairngorm 2.2.1
- Errai 2.0.2
- Google Web Toolkit 2.4.0
- GWT Highcharts 1.4.0
- H2 1.3.168
- IBM DB2 Driver for JDBC and SQLJ 9.7
- JAXB 2.1.12
- jqRangeSlider 4.0
- Lucene 3.0.0
- Nutch 1.1
- Saxon-B 9.1.0.8
- Software under the Apache 2.0 License
- Software under the CDDL License
- Common Public License
- Software under the Eclipse 1.0 License
- Software under the LGPL License
- Software under the Mozilla Public License v1.1
- Xalan-J 2.7.1
- xml-commons xml-apis 1.3.04
- XStream 1.3.1

Chapter 3: Accessibility Features

Overview

CA Technologies is committed to helping all customers, regardless of their ability, use its products and supporting documentation to accomplish vital business tasks.

Our compliance with Section 508 means that product documentation is accessible through screen readers. Documentation includes the following accessibility features:

- All headings follow a structured hierarchy without skipping headings.
- Limit the use of symbols in text.
- Follow the corporate HTML templates, which help ensure a high degree of accessibility.
- Table use is limited, but when applicable the following rules are honored:
 - Empty table cells include text such as "N/A" to indicate that a cell is intentionally blank.
 - Table heading rows are carried over multiple pages.
 - Tables do not have merged cells.
 - Tables include a brief text description of that which the table is describing.
 - Tables are styled in a portrait orientation.
- All graphics in the technical documentation include alternate text for the vision-impaired.
 - Always include ALT text for all graphics, from icons to complex diagrams and screenshots (except bullets in lists).
 - ALT text descriptions succinctly describe in 50 words or less the purpose of the graphic.
 - Graphics include a brief text description of that which the graphic is describing.
 - ALT text is a complete sentence.
 - ALT text describes the purpose of the image and does not merely describe the appearance of the graphic.
 - Graphics do not include abbreviations or acronyms.

Alternate Text and Your Browser

The graphics in the CA Chorus documentation include alternate text to enhance accessibility. If alternate text does not appear when you hover over a graphic, check your browser settings.

For browser-specific settings and configuration steps, see the browser documentation.

Technical Information Content Philosophy

The documentation set focus on the following key areas:

- Role-based scenarios that detail steps to complete key business processes. These scenarios can appear in traditional guides and as standalone Knowledge Database articles on <http://ca.com/support>.
- An end-to-end view that gives you access to content across the full lifecycle of your product, including content from technical information, product management, support, sales, services, and education. The bookshelf that is based on the end-to-end model provides you with traditional guides and links to various information sources that are related to your product.
- Concise product content that promotes usability and accessibility.