

# CA Deliver™

## Best Practices Guide

Release 12.2



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# CA Technologies Product References

This document references the following CA Technologies products:

- CA Chorus™ Software Manager (CA CSM)
- CA Chorus™
- CA 11™ Restart and Tracking (CA 11)
- CA Deliver™ (CA Deliver)
- CA Output Management Web Viewer (CA OM Web Viewer)
- CA Spool™ (CA Spool)
- CA View® (CA View)

## 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](mailto:techpubs@ca.com).

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### **Best Practices Guide Process**

These best practices are based on customer experience reported through interviews with development, technical support, and technical services. Therefore, many of these best practices are a collaborative effort stemming from customer feedback.

To continue to build on this process, we encourage you to share common themes of product use that might benefit other users. Please [consider sharing](#) your best practices with us.

To share your best *practices*, contact us at [techpubs@ca.com](mailto:techpubs@ca.com) and preface your email subject line with "Best Practices for product name" so that we can easily identify and categorize them.

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# Chapter 1: Introduction

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The content provides a brief introduction to the CA Technologies mainframe management strategy and features, and describes the best practices for installing and configuring your product.

The intended audience of this content is systems programmers and administrators, who install, maintain, deploy, and configure CA Deliver.





# Chapter 2: Your Product Installation and Configuration Best Practices

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This section contains the following topics:

[Implement a Proactive Preventive Maintenance Strategy](#) (see page 9)

[Installation](#) (see page 11)

[Implementation](#) (see page 15)

[Configuration](#) (see page 16)

[Integration and Interface Points](#) (see page 22)

## Implement a Proactive Preventive Maintenance Strategy

CA Technologies formerly delivered product maintenance using Service Packs. We have replaced this model with [CA Recommended Service \(CA RS\) for z/OS](#), which provides more flexibility and granular application intervals. CA RS is patterned after the IBM preventive maintenance model, Recommended Service Upgrade (RSU). With CA RS, you can install preventive maintenance for most CA Technologies z/OS-based products in a consistent way on a schedule that you select (for example, monthly, quarterly, annually).

CA Technologies periodically releases Service Updates. A Service Update is a product installation file and all PTFs preapplied up to the last CA RS level.

We recommend that you develop and implement a proactive preventive maintenance strategy whereby you regularly apply maintenance. You could follow the same schedule that you use to apply IBM maintenance, or you could implement a schedule for CA Technologies products only.

### **Business Value:**

Keeping your products current with maintenance helps your team remain productive and minimize errors while safely protecting your systems. If you do not install preventive maintenance regularly, you risk encountering known problems for which we have published and tested fixes.

Our mainframe maintenance philosophy is predicated upon granting you the flexibility to maintain your sites and systems consistent with industry best practices and site-specific requirements. Our philosophy focuses on two maintenance types. Understanding each type can help you maintain your systems in the most efficient manner.

**Note:** This philosophy applies to the [CA Chorus Software Manager Enabled Products](#). For legacy products, contact CA Support for maintenance details.

### Corrective Maintenance

Helps you address a specific and immediate issue. This type of maintenance is necessary after you encounter a problem. We may provide a test APAR when a new problem is uncovered, and a confirmed PTF when the problem has been resolved. Your primary goal is to return your system to the same functional state that it was before you experienced the issue. This type of maintenance is applied on an as-needed basis.

### Preventive Maintenance

Lets you bring your system up to a more current level. Doing so helps you avoid problems that others have reported. This maintenance may also contain compatibility fixes for hardware and software. You may have experienced the issues that each PTF addresses. CA RS provides a way to identify all published maintenance that has been successfully integration-tested. This maintenance has been tested with other CA Technologies products, current z/OS releases, and IBM subsystems, such as CICS and DB2. CA RS levels are published monthly that include PTFs, HIPERs and PRPs (PE-resolving PTFs). Before you download, apply, and test a new CA RS level, we recommend that you accept the previous CA RS level.

You can initiate a maintenance installation activity at any time. You can then install the current CA RS level of maintenance (recommended) or an earlier level. Additionally, you can install maintenance to support a new hardware device, software upgrade, or function using the [FIXCAT](#) method.

For all maintenance, *before* you initiate any maintenance action, obtain the current SMP/E HOLDDATA.

**Important!** [CA Chorus™ Software Manager \(CA CSM\)](#) - formerly known as CA Mainframe Software Manager™ (CA MSM) - is an intuitive web-based tool that can automate and simplify many CA Technologies product installation and maintenance activities. We strongly recommend that you use CA CSM to maintain your CA Technologies z/OS-based products.

### More Information:

To apply preventive maintenance using CA CSM or from CA Support Online on <http://ca.com/support>, see the *Installation Guide* for your product and the CA CSM online help.

# Installation

Use CA CSM to acquire, install, and maintain your product.

**Business Value:**

CA CSM provides a common way to manage mainframe products. CA CSM provides a web interface, which works with Electronic Software Delivery (ESD) and standardized installation and management of mainframe products. You can use it to download and install CA Deliver.

CA CSM lets you download product and maintenance releases over the Internet directly to your system from the CA Support website. After you use CA CSM to download your product or maintenance, you use the same interface to install the downloaded software packages using SMP/E.

**Additional Considerations:**

After you install the product, use the *Installation Guide* to set it up. CA CSM can continue to help you maintain your product.

**More Information:**

For more information about CA CSM, see the *CA Chorus™ Software Manager* documentation. For more information about product setup, see the *Installation Guide*.

## CA Common Services

Make sure you have installed the most current release of CA Common Services.

**Business Value:**

The latest release of CA Common Services contains the most current infrastructure updates, allowing you to successfully use the latest features, and preventing potential errors that can occur from using out-of-date services.

**Note:** CA Common Services Release 11 SP8 is required to take advantage of the Health Checker feature.

**More Information:**

For more information on CA Common Services, see the *Installation Guide*.

### Installation in a Test Environment

Perform your installation and initial evaluations of the product and its components on a test system.

**Business Value:**

New releases of CA Deliver can be installed in different SMP/E zones or data sets to allow a new release to run on a test system while the old release continues to run on production systems. Evaluating the product in a test environment lets you detect any possible problems before you roll it out to a production system, which helps ensure a seamless transition to the new release.

**More Information:**

Always be sure to review any upgrade considerations in the *Installation Guide* before upgrading CA Deliver.

## Use a Common CA High Level Qualifier Symbolic

When installing more than one of CA's Mainframe Enterprise Report Management (ERM) Release 12.2 products, we recommend that you install using one common high-level qualifier for the '\*\*\*CAI\*\*\*' symbolic that is shared by all of the products.

### **Business Value:**

By installing and maintaining a single version of a CA common high-level qualifier, you reduce your maintenance effort, save disk space, and eliminate the possibility of executing symbolic utilities that may not be up-to-date with the latest maintenance.

### **Additional Considerations:**

In particular, it is a best practice to install CA Deliver Release 12.2 and CA View Release 12.2 into the same SMP/E CSI data set and SMP/E zones.

CA View and CA Deliver both require the EBC Common Component. Having both products in the same SMP/E environment is the best way to enforce cross-product dependencies and to insure that both products are at current maintenance levels.

### **Note:**

- While it is a best practice for CA Deliver Release 12.2 and CA View Release 12.2 to share a common SMP/E CSI, CA Deliver Release 12.2 cannot be installed into an SMP/E target and distribution zone that contains a different version or release of CA View and the EBC Common Component.
- If CA Deliver Release 12.2 and CA View Release 12.2 are in the same SMP/E CSI and SMP/E zones, each CSM configuration of CA View and CA Deliver contains the complete set of libraries of the combined products.

If you want to upgrade to CA Deliver Release 12.2 in a shared SMP/CSI that contains a different version or release of CA Deliver and CA View, you can do one of the following options:

- RECEIVE CA Deliver Release 12.2 and CA View Release 12.2, then APPLY and ACCEPT CA Deliver Release 12.2 and CA View Release 12.2 simultaneously.
- Install CA Deliver Release 12.2 and CA View Release 12.2 into new SMP/E target and distribution zones.

**Note:** You have to allocate new target data sets.

## Downward Compatibility

Use CA Deliver Release 12.2 to archive reports directly to the CA View database in CA View Release 12.1, CA View Version 12.0, or CA View Release 11.7.

CA View Release 12.2 is also downward compatible with CA Deliver Release 12.1, CA Deliver Version 12.0, and CA Deliver Release 11.7. If you are upgrading CA View first, you can archive and reprint CA Deliver Release 12.1, CA Deliver Version 12.0, and CA Deliver Release 11.7 reports and bundles from a CA View Release 12.2 database.

### **Business Value:**

Downward compatibility maintains compatibility between CA Deliver Release 12.2 and the databases in CA View Release 12.1, CA View Version 12.0, and CA View Release 11.7. Downward compatibility lets you upgrade databases on your own schedule, back up database versions, and minimize system downtime.

If using CA Deliver to archive reports to several CA View databases, you can upgrade all of the databases gradually or simultaneously to CA View Release 12.2. Upgrading the CA View databases gradually to CA View Release 12.2 may use fewer resources and reduce configuration error risk.

### **Considerations:**

To determine the EBC modules to load during CA View and CA Deliver execution, use CAHCRLE. Place CAHCRLE in the first library in the STEPLIB or LINKLST concatenation.

CAHCRLE is the EBC release level module that ships with the latest level of either CA View or CA Deliver. The EBC modules are release compatible; you can use the latest level with supported CA View and CA Deliver releases.

*Important! A cross-memory region can only access a single version of CA Deliver. A CA Deliver Release 12.2 cross-memory region cannot access any previous CA Deliver release.*

### **More Information:**

For more details on the cross-product compatibility of CA View and CA Deliver, see the installation documentation.

## Special Character Support

The report and distribution identifiers are 1-to 32-character fields with a limited set of acceptable characters. Beginning with Version 12.0, additional character support is provided for these fields.

### **Business Value:**

If you use these new special characters and later decide to revert to a previous release, you cannot access these definitions in batch. If you have started using any of these new characters, avoid reverting to a previous release.

### **More Information:**

For more information about special characters, see the *Release Notes*.

## Implementation

Once installation is complete, CA Deliver can be implemented. This section discusses the best practices for implementing CA Deliver.

## Library Authorization

APF-authorize the target library by adding an entry for CAI.CVDELOAD to member PROGxx of SYS1.PARMLIB.

### **Business Value:**

Running an APF-authorized library ensures that CA Deliver executes with the appropriate permissions and approvals.

## Multiple System Images with Shared Database and Checkpoint File

You can run CA Deliver started tasks on multiple system images and share the CA Deliver database and checkpoint file. This allows CA Deliver to pre-spool process sysout data sets on each system image, rather than having to post-spool process work through a single CA Deliver started task.

### **Business Value:**

Faster and more efficient processing speed is achieved by allowing CA Deliver to run on multiple CPUs. The checkpoint is designed to handle up to thirty-two system images, which allows for faster processing and system integrity.

### **Additional Considerations:**

If you set the CA Deliver initialization parameter HDETAIL to YES, the amount of history detail data can significantly increase the size of your database, slow down report processing, and eventually cause your started task to abend.

You can run an RMODBASE with the STATUS control statement to display usage statistics on the CA Deliver database. For more information about this parameter, see the *Reference Guide*.

### **More Information:**

See the Set Up on Multiple CPU's step in the "Installation" chapter in the *Installation Guide*.

## Configuration

### Initialization Parameters

When starting a CA Deliver system of the first time, it is a good practice to focus on the basic initialization parameters that comprise the minimum requirements for successful startup. After that occurs, examine the other initialization parameters to add more detailed processing options for your environment

### **Business Value:**

Focusing on a basic subset of the initialization parameters simplifies a first-time installation and results in a faster implementation of CA Deliver. Additional options and parameters can be specified later, based on the evaluation of business requirements at your site.

### **Additional Considerations:**

The following initialization parameters are the minimal requirements to specify when starting a CA Deliver system for the first time.



**Database Names**

Set NAME to the high level qualifier of the CA Deliver database and SAR to the high level qualifier of the primary CA View database.

**System Identifier**

Set SYSID to specify the parameter that identifies the CA Deliver started task. If multiple started tasks are run on the same system image, their SYSID parameters must be different.

**Pre-spool processing**

Set JOBCLSL to the job classes and SYSCLSL to the SYSOUT classes where Deliver intercepts reports using pre-spool processing.

**Post-spool Processing**

Set NETCLSL, NETDEST, and NETFORM to the SYSOUT class, destination, and form where Deliver picks up reports from JES using post-spool processing. Post-spool processing is referred to as the CA Deliver Network Input Interface. Use NETONLY to state whether CA Deliver does only post-spool processing.

**Archival Parameters**

Use the ARCHnn parameters to specify criteria for the archival of reports into CA View. You can specify up to 99 ARCHnn parameters.

Use ARCH to specify the default ARCH parameter to use if a report definition does not specify an ARCH parameter.

**History Tracking Parameters**

Use HDETAIL, BNDLHDTL, and MAXHIST to specify whether detail history is being kept and how many generations of historical data are to be kept.

**Bundling Parameters**

Use BNDLMOUT and OUTPUT together to allow bundled reports with unlike attributes to be printed together.

To avoid performance degradation when multiple RMOSTCs access the same database, specify BOT=YES for only one started task. Specify BOT=NO for the other started tasks.

### Daily Cycle Parameters

Use TIME, BEGINDAY, and DAYS to specify the time of day and the days of the week when the CA Deliver daily cycle and bundle cycles are to occur.

If there are multiple CA Deliver RMOSTCs accessing the same database, we suggest that BOT=YES, and TIME be set in one RMOSTC only, and BEGINDAY be set to the same value in each RMOSTC.

The other tasks should have BOT=NO and TIME=0000.

### More Information:

See the “Initialization Parameters” chapter of the *Reference Guide*.

## Cross-Memory Services Parameters

For first-time configuration of a cross memory region, thoroughly review the cross memory parameters to determine the most appropriate settings for your environment. In particular, consider how security is used in conjunction with the XMS region, what type of online interfaces are available to the XMS region, and how inactive and cancelled users are handled.

### Business Value:

Cross memory services provide an efficient mechanism to manage online user access to CA Deliver through a number of interfaces. This enables the CA Deliver administrator to use a cross memory region as a central point of administration for hundreds of users.

### Additional Considerations:

The following cross-memory parameters are the most critical parameters to consider when starting a CA Deliver cross-memory task for the first time.

### Control of Idle Users

Use CANCEL and LONGWAIT together to specify how long to wait before canceling a user that is inactive.

### Security Controls

Use the LGNPROP and LGNSEC parameters together to determine the type of security and the USERID that are used for security checking and job submission.

### Online Interface And Logon Control

Use the XMS and XMSSUB parameters TO determine whether cross memory users can log onto the XMS region and whether there is support for the ISPF, TSO, and CA Roscoe interfaces.

### More Information:

See “Installing Online Interfaces” chapter in the *Installation Guide* for complete information.

## Bundle Initialization and Timing Parameters

Use all of the bundle timing parameters on the Bundle Definition Attributes Panel to control when bundles are produced. The LATE, INTERVAL, WAIT, and WAIT for LATE fields work together to control bundle production.

Bundle Initialization and Timing parameters selection are the most critical parameters to consider when starting a CA Deliver system for the first time.

### Business Value:

Time management and planning of bundled output production maximizes operational efficiency by load balancing system resources and printer usage.

### Additional Considerations:

The following bundle initialization and timing parameter are most critical.

### BEGINDAY, TIME, and DAYS

Specify the time of day and the days of the week when BEGINDAY and possibly a bundle BEGINDAY are run.

If there are multiple CA Deliver RMOSTCs accessing the same database, we suggest that the value of TIME be set in one RMOSTC only, in conjunction with BOT=YES in the same RMOSTC only.

The other tasks must have BOT=NO and TIME=0000.

Additionally, the value of BEGINDAY must be set to the same value on every RMOSTC region.

### Time

The TIME parameter controls when the new daily cycle begins.

### BEGINDAY

If BEGINDAY is not specified, then the start of the daily cycle and the bundle BEGINDAY are the same. If the processing of bundles requires that bundles have a BEGINDAY at a time different from the start of the daily cycle then the bundle BEGINDAY time is specified by the BEGINDAY= parameter.

### More Information:

See the “Initialization Parameters” chapter of the *Reference Guide*.

See the Determine When a Bundle Is Produced table in the “Creating a Bundle of Reports” chapter in the *CA Deliver Administration Guide*.

## Scheduled Distribution

Use the Scheduled Distribution feature to control report production. This feature can control a document distribution based on the day of a week.

### **Business Value:**

Customers requiring printed or emailed output based on a particular distribution ID can specify which days of the week reports are to be sent. This can reduce report distribution and printing costs by eliminating unnecessary or redundant production work.

### **Additional Considerations:**

A DAYS field has been added to the distribution specifications to identify the days of week that the recipient is to receive output. The default is Y (yes); the recipient receives a new report each day of the week. The field can be set to Y (yes) or N (no) for each day of the week from Monday to Sunday. The DAYS field can be specified on the Report Definition Attribute Distribution Specification panel and the Distribution List Distribution Specifications pane.

## Data Set Collector

Use the Data Set Collector feature to allow CA Deliver to process reports directly from a mainframe data set. The data set collector, RMODSC, provides added flexibility by allowing multiple files to be processed, allowing distribution based on a specific report definition, and allowing manipulation or sectioning of input data through a named user exit.

### **Business Value:**

The Data Set Collector enables more flexibility for report collection and provides an easy transition for customers when they are converting from other report distribution systems, which collect reports from a data set.

### **More Information:**

For more information about the CA Deliver data set collector, RMODSC, see the chapter “Utilities” in the *Reference Guide*.

## Direct Archival to CA View

We recommend using direct archival to send reports directly to a CA View database. Using direct archival can reduce the need for the CA View archival task to use system resources to collect output from the JES spool, can allow bundle holding copies to be stored in CA View instead of JES, and can eliminate distribution of printed output when it is not needed.

### **Business Value:**

Direct archival reduces the system I/O, CPU, and JES resources required for electronic distribution of reports and can reduce costs associated with printing and delivering output. It can also improve productivity by allowing users to view bundled reports online immediately, without having to wait for bundles to be collected from JES.

### **Additional Considerations:**

The ARCH and ARCHnn initialization parameters are used with the ARCH parameter in CA Deliver Report Attributes panel to determine how reports are to be archived to different CA View databases.

## Archive Reports Parameter

Use CA Deliver to take advantage of the CA View Functional Subsystem (FSS) collectors to archive fully composed AFP reports into CA View databases. This can be accomplished by using the ARCH parameter in the CA Deliver Report Definition Panel to send the report into JES with characteristics that fit the selection criteria of the FSS printer.

### **Business Value:**

Maintain the value of your fully composed AFP data without losing the tracking data and security of your reports that are provided by CA Deliver.

### **More Information:**

See Installing the FSS Collector section in the *CA View Installation Guide*.

## Modify Report ID and Arch ID

CA View MODE EXP loses all connection to reports when the CA Deliver Report ID and or Arch ID is changed. CA View MODE EXP requires CA View to obtain a DIST ID for the report from CA Deliver. When you change the Report ID or the Arch ID, the database path to obtain the Dist ID is broken. CA View does not display the reports archive under the old report ID or Arch ID.

Therefore, we recommend that you do not change existing Report ID and or Arch IDs. Instead, leave the existing definition and create a version of the report definition (using COPY ALL) with the new Report ID or Arch ID. After the new definition has been created, modify the DDName associated with the old original report, for example, 'DUMMY' or 'OLDRPT', so that no new reports are processed under that definition.

**Business Value:**

This allows you to continue to view all of the reports archived under both the new and old Report ID and Arch IDs.

**More information:**

For more information about the CA Deliver copy command, see the chapter "Basics", "Input Commands" section in the *Administration Guide*.

## Integration and Interface Points

### Integrate CA View with CA Deliver

Use CA Deliver in conjunction with CA View as a complete Output Management solution for managing reports. As indicated by other best practices in this guide, CA Deliver reports can be archived directly to CA View databases, viewed online, and backed up on storage media. All CA Deliver report attributes and distribution data are retained in the CA View database.

**Business Value:**

Creating a complete solution optimizes report management. By implementing an automated archival and retrieval system you can automate day-to-day report management, minimize time-consuming manual tasks, and lower document delivery costs. Viewing reports online and printing fewer reports saves cost and reduces time spent reformatting, tracking, handling, and rerunning reports.

## Integrate Email Notification by way CA Spool, CA OM Web Viewer

Use the CA Spool Email Print Driver to notify report recipients that documents are available for viewing in CA Output Management Web Viewer, or to send copies of reports directly to recipients. The notification emails can include a link to the report, and deliver the report as an attachment in text, HTML, or PDF format.

### **Business Value:**

Automates notification of report availability and simplifies database search and retrieval. The CA Deliver Email Notification feature is an efficient and robust method to track and distribute reports processed by CA Deliver. It helps you to distribute and track an entire report or selected pages of a report to recipients for online viewing. This can save the recipient's time when waiting for a report to arrive. Instead of repeatedly checking for report arrival in CA OM Web Viewer, the recipient knows the report is ready when an email arrives.

### **More Information:**

See the "Setting Up Email and Email Notification" chapter in the *Administration Guide*. Also, view the *CA Spool Customization Guide*.

## Automate Job Reruns

Manage CA Deliver report and job reruns by implementing the CA 11 Workload Automation Restart and Tracking interface.

### **Business Value:**

Automatically managing report data requiring job reruns provides reliable tracking of reports and eliminates the potential of time consuming manual effort when operating errors occur in output production.

### **Additional Considerations:**

See the NETRERUN and RMSWARN initialization parameters, and the RMORMS and RMOPRE utilities in the *Reference Guide*, and the PREVRUN job parameter in the *Administrator Guide*.





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