

# CA Endeavor<sup>®</sup> Software Change Manager

Release Notes

Version 17.0.00



Fifth Edition

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## CA Technologies Product References

This document references the following CA Technologies products:

- CA Chorus™ Software Manager (CA CSM)
- CA Endeavor® Software Change Manager (CA Endeavor SCM)
- CA Endeavor® Software Change Manager Quick Edit (CA Endeavor Quick Edit)
- CA Common Services for z/OS (CA Common Services)
- CA Change Manager Enterprise Workbench (CA CMEW)

## 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
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- Product and documentation downloads
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- Other helpful resources appropriate for your product

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# Documentation Changes

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

**Note:** In PDF format, page references identify the first page of the topic in which a change was made. The actual change may appear on a later page.

## Version 17.0, Fifth Edition

- [Summary of New Features and Enhancements](#) (see page 10)— Updated to describe changes to outputs for the CSV LIST Element function coded with the NOCSV option.

*RO78325 for the base product (CA Endeavor SCM). RO78326 is also required if Web Services has been installed. March 2015:*

- [Customization Tables Changed After Version 16.0](#) (see page 13) and [Package Ship Security Enhancements](#) (see page 19)— Updated to add information about changes to Package Ship security.
- [Enhancements Added After Version 17.0 Complete](#) (see page 19)— Added this chapter to contain enhancements that were made to the product after Version 17.0 was completed. This chapter supplements the chapter "Enhancements and New Features."

## Version 17.0, Fourth Edition

- [Alter Action Updates Master Control File Element Metadata](#) (see page 15)— Updated to add an important note about security.

## Version 17.0, Third Edition

- [Customization Tables Changed After Version 16.0](#) (see page 13)— Updated to add the BC1TNEQU table, in which the Alter action has been added to the list of C1ACTNS.
- [Nonprogram Product Components Modified in Version 17.0](#) (see page 21)— Updated to correct references to CSIQSRC and CSIQJCL.

## Version 17.0, Second Edition

- [Summary of New Features and Enhancements](#) (see page 10)— Updated to include the customization tables, Alter action, and a list of miscellaneous changes.
- [Customization Tables Changed After Version 16.0](#) (see page 13)— Added for changes introduced after V16.0.
- [Alter Action Updates Master Control File Element Metadata](#) (see page 15)— Added to describe the Alter action.

- [Nonprogram Product Components Modified in Version 17.0](#) (see page 21)— Added to list the nonprogram product components that were modified for Version 17.0.

#### **Version 17.0**

- "Enhancements and New Features" chapter— Added the topics:
  - [Build SCL Environment Value](#) (see page 14)
  - [Package Selection List Filter for Exec-Failed Status](#) (see page 15)



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# Chapter 1: Welcome

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Welcome to CA Endevor Software Change Manager Version 17.0.00.

This section contains the following topics:

- [What this Release Notes Covers](#) (see page 9)
- [Access the Product Page](#) (see page 9)
- [Summary of New Features and Enhancements](#) (see page 10)
- [Incremental Release](#) (see page 12)
- [CA Chorus™ Software Manager](#) (see page 12)

## What this Release Notes Covers

This release notes provides descriptions of new features and enhancements introduced in Version 17.0.00. In addition, the following are described: how to access the product page, product accessibility features, and published solutions.

For the latest information, including any updates that may have occurred after publication, see the [product page](#) (see page 9).

## Access the Product Page

You can find the latest information about a product through the product page.

### To find the CA Endevor SCM product page

1. Click this link to access CA Support: <http://ca.com/support>  
The CA Support page opens.
2. Click the Support by Product link.  
The Support by Product page opens.
3. Select CA Endevor Software Change Manager in the Select a product field.  
The CA Endevor Software Change Manager product page opens.

## Summary of New Features and Enhancements

A brief description of each feature and enhancement introduced in Version 17.0.00 appears next. Links are provided only if more detailed descriptions follow.

**Note:** Users can view a similar brief summary of the new features and enhancements from within the product. See the Changes panel, which is accessible from the CA Endeavor SCM Primary Options panel.

- [Customization table changes](#) (see page 13)— Various customization tables have been changed.
- [Build SCL Supports Name Masking on Environment Value](#) (see page 14)— On a Batch Environment Administration facility (Batch Admin) Build SCL statement, name-masking (wildcards and placeholders) can be used to specify the Environment value.
- [Package Selection List Filter for Exec-Failed Status](#) (see page 15)— You can filter the package selection list to easily identify those packages that failed to execute.
- [Alter Action Updates Master Control File Element Metadata](#) (see page 15)— You can use the Alter action to change Element master record information (Element metadata) in the Master Control File.
- [Web Services Software Requirements](#) (see page 18)— The Web Services component is updated in the CA Endeavor SCM Version 17.0 installation. Java 7 is required.
- [RESTful API](#) (see page 17)— The RESTful API enhancement to Web Services enables you to build a RESTful API client program.
- Eclipse-Based UI— The Eclipse-Based UI client application must be reinstalled on all client computers. Reinstalling the client enables it to work with the Web Services component installed with CA Endeavor SCM Version 17.0. In addition, the Eclipse Foundation's Eclipse SDK version 4.3 is required.
- Miscellaneous changes—
  - The heading on the C1MSG2 Execution Summary report is changed from FROM INFORMATION to INVENTORY INFORMATION. If your site has implemented its own report-scraping program, you may need to verify whether this change impacts the program.
  - The following User Exit 3 changes apply for all actions:
    - Users can no longer suppress the SMF option with a User Exit 3 program.
    - The SMF record is written before calling the Exit 3 program. So, users can no longer add notes or messages to, or change values in, the SMF record before it is written.

- Layouts of the following records and reports are enhanced to support the Alter action. *You will see these changes even if you never use the Alter action.*
  - **API LIST SMF** response record layouts have changed and their size is increased from Version 16.0. *You must reassemble and relink any existing API List SMF programs to pick up the latest version of the API List SMF structures.* If you do not, a structure version error is issued and the request fails. Although programs that call other API functions are cross-release compatible, programs that call the API List SMF function are not cross-release compatible and must be reassembled and relinked.
  - **API LIST Element** response record layouts have changed and their size is increased from Version 16.0. If you have existing API programs and you do not recompile them after installing the new release, the response structures produced will be identical to the output produced by the previous release. If you plan to use the Alter action and want to use the enhancements to the API LIST Element function, you must relink and recompile existing API programs that use that function.

Thirteen fields related to the Alter Action were inserted into the API List Element Response Structure. For descriptions of the new fields, see Information about Alter Action Metadata, in the *API Reference Guide*.

The new fields were added prior to the Element area. Therefore the position of the ELMNAMEL and ELMNAME fields has changed. The API Assembler macros and COBOL copybooks are provided in *iprfx.igual.CSIQOPTN* for each API function call. For the List Element structure, the structure naming convention is as follows: ExHALELM—where x is N for Assembler macro and C for COBOL copybook and LELM is for the List Element function. Changes were made to the response structure (ALELM\_RS, ALELM-RS) within these two members.
  - **CSV LIST Element** output has changed from Version 16.0. Thirteen fields were added into the CSV List Element function. For more information about these fields, see Alter Action Metadata, in the *Utilities Guide*. *If you code the NOCSV option, you may need to change any programs that read the record formatted output.* CSV output always matches the format of the latest release, because CSV functions call the current Endeavor API to produce the output, which is always in sync with the latest release. See the bullet above for details about changes to the output of the API List Element structure for the Assembler macro and the COBOL copybook.
  - **SMF Reports 40 and 42** have layout changes to support the Alter action and to handle long Element names.
- User Data now appears on Element Master Display Panel.
- The Element Master Display panels now include an Alter Action Section on the last panel. This section displays information about all the Alter actions run against the Element.
- You will need to recompile your User Exit programs with the new Endeavor release libraries as part of your implementation.

## Incremental Release

The Incremental Release Program is a customer-interactive delivery model where we develop new product features and release them using the Agile development methodology. The CA Technologies development teams work closely with customers to create product features for rapid implementation. We work with customers to release new features incrementally, as we complete them, rather than waiting for a list of features to complete. After all of the features for an incremental release are completed, the release transitions to the [standard support policy](#).

To participate in the Incremental Release program, review the [Incremental Release Program – Support Policy and Terms](#). To discuss the customer requirements for participation, contact the product manager for your product. Participating in the Agile development process is not mandatory.

## CA Chorus™ Software Manager

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

CA CSM 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 CSM from <http://ca.com/support>.

**Note:** For more information, see your product installation instructions and the CA CSM online help.

# Chapter 2: Enhancements and New Features

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This section contains the following topics:

[Customization Tables Changed After Version 16.0](#) (see page 13)

[Build SCL Environment Value](#) (see page 14)

[Package Selection List Filter for Exec-Failed Status](#) (see page 15)

[Alter Action Updates Master Control File Element Metadata](#) (see page 15)

[RESTful API](#) (see page 17)

[Web Services Software Requirements](#) (see page 18)

## Customization Tables Changed After Version 16.0

The following table identifies the customization tables that were changed after Version 16.0, including any changes that are being introduced in Version 17.0.

---

Customization Table	When Added	Option	Description
ENCOPTBL	Version 17 Alter Feature	ALLOW_NON_PKG_ACTIONS	This option lets you specify actions that can be performed outside of a package even if the inventory location would usually require a package. The option has been updated to allow the Alter action to be specified for this option.
ENCOPTBL	Version 17 Alter Feature	PKG_ACTIONS_NO_APPRVR	This option lets you specify actions in a package that do not require approval. The option has been updated to allow the Alter action to be specified for this option.

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Customization Table	When Added	Option	Description
BC1TNEQU	Version 17 Alter Feature	C1ACTNS=(ALTER)	<p>The Alter action has been added to the list of C1ACTNS entries you can specify in BC1TNEQU and the delivered BCTNEQU table contains an entry specifying the following:</p> <p>FUNCEQU SAFAUTH=ALTER, C1ACTNS=(ALTER), which requires Alter authority for the Alter action.</p> <p><b>Note:</b> If no entry is specified for this action in your BC1TNEQU table, the default access authority is NONE, meaning that no authorization checking takes place.</p>
ENCOPTBL	<p>Version 17 Package Ship with Alternate ID.</p> <p>RO78325 for the base product (CA Endeavor SCM). RO78326 is also required if Web Services has been installed. March 2015</p>	PACKAGE_SHIP_WITH_ALTID	<p>Previously, the option PACKAGE_SHIP_WITH_ALTID allowed an API Package Ship request to execute under the context of the Alternate ID.</p> <p>Now, if the PACKAGE_SHIP_WITH_ALTID optional feature is enabled, all ship requests (API and ISPF) will be performed under the context of the Alternate ID.</p>

## Build SCL Environment Value

When defining Environment objects using the Batch Environment Administration facility (Batch Admin) Build SCL statements, you can specify the Environment name using name masking. Name masking allows full (\*) and partial (for example, ENV\*) wildcarding, multiple placeholders (%), or both. This enhancement increases efficiency by enabling the administrator to code Build statements for object definitions across Environments with a single SCL Build statement, rather than coding a separate statement for each Environment.

You can name mask the environment-name value in the following Build SCL statements:

- Build SCL for Approver Group
- Build SCL for Approver Relations
- Build SCL for Environment
- Build SCL for Processor Group

- Build SCL for Processor Symbol
- Build SCL for System
- Build SCL for Subsystem
- Build SCL for Type
- Build SCL for Type Sequence

For example:

```
BUILD SCL FOR SYSTEM SYS%E*
FROM ENVIRONMENT DEV%&A* TO DDN SCLSYS.
```

```
BUILD SCL FOR SUBSYSTEM S%B*
FROM ENVIRONMENT Q%STST% SYSTEM SYS%E* TO DDN SCLSBS.
```

```
BUILD SCL FOR ENVIRONMENT '*' TO DDN ESCMPRD.
```

As in the past, the Batch Admin facility lets the administrator manage Environment objects in batch mode by executing SCL statements. The Build SCL statements create Define SCL statements from existing object definitions.

**Note:** For more information about Batch Admin and the Build SCL statements, see the chapter "Managing Environments in Batch" in the *SCL Reference Guide*.

## Package Selection List Filter for Exec-Failed Status

You can filter the Package selection list to easily identify those packages that failed to execute. The selection list options on the Package Foreground Options menu include the Exec-failed status.

## Alter Action Updates Master Control File Element Metadata

You can use the Alter action to change Element master record information (Element metadata) in the Master Control File. The Alter action updates the following metadata fields:

- Generate CCID— The CCID for the last Add, Update, Generate, Move, or Transfer action that executed the Generate processor against the Element.
- Last action CCID— The CCID for the last action that modified the Element.
- Retrieve CCID— The CCID for the last Retrieve action that was executed against the Element.
- Processor Group name— The current Processor Group for the Element.

- Signout UserID— The current user ID to which the Element is signed out.
- Description— The base description for the Element. This value is usually set by the Comment field when the Element is added.
- User Data— An 80-byte field stored with the Element. This value can also be set using a User Exit 2 (before action) program on an Add, Update, or Generate action.

The Master Control File is only changed if you run the action in Update mode. You can run the action in Nouupdate mode to see what effect the Update mode would have before you run it.

The Alter action is available in batch only and requires Global Type Sequencing. Concurrent Action Processing is supported. SMF recording is required to run the action in Update mode.

**Important:** Permission to process the Alter action is determined by the security authorization function (SAF) set in the Endeavor Security Interface (ESI) BC1TNEQU table. The following entry for the Alter action is included in the BC1TNEQU sample that is included with the Version 17.0 release: FUNCEQU SAFAUTH=ALTER,C1ACTNS=(ALTER). This entry restricts access to the Alter action to users who have ALTER authority for the ESI pseudo data set name. If you already have a BC1TNEQU table in place, you must add a statement for the Alter action to control its use; otherwise, *anyone can execute the Alter action*.

The Alter action calls User Exit 1 (security), User Exit 2 (before action), and User Exit 3 (after action). The Alter action changes the Master Control File for each matching Element at the location where the Element resides. No Copyback logic occurs. Message C1G0280I prints the location where the Element was located and updated.

Layouts of the API LIST SMF, API LIST Element, and CSV List Element functions, and SMF Reports 40 and 42 were enhanced to support the Alter action. API LIST SMF response record layouts have changed and their size is increased from Version 16.0. Any of your API programs that call the API LIST SMF function must be reassembled and relinked, or the request will fail. For more information, see the miscellaneous information in the [Summary of New Features and Enhancements](#) (see page 10).

**Note:** For more information about the Alter action, see the chapter "Altering Element Record Metadata," in the *Administration Guide*.

## RESTful API

The CA Endeavor SCM RESTful web services API (RESTful API) is an extension of the existing SOAP-based Web Services feature. This enhancement to Web Services enables you to build a client program using the RESTful method as an alternative to the SOAP-based method.

The RESTful API provides the Representational State Transfer (REST) architectural style of web services, which uses HTTP 1.1 and Uniform Resource Identifiers (URI). This architectural style provides a simpler, more lightweight API, scalability, improved performance, and easier adoption due to better known distributed/server-client application development model based on the HTTP protocol.

In the RESTful architectural style, data and functionality are considered as resources and are represented and accessed by URIs. These resources can be manipulated by a set of well-defined operations: Create, Read, Update and Delete. In the case of HTTP, these operations are the Request methods GET, PUT, POST, and DELETE.

The RESTful API supports the following Package processing actions and supporting List actions.

### Available Package Actions:

- Create/Update
- Cast
- Approve/Deny
- Reset
- Commit
- Delete
- Backout/Backin
- Execute
- Ship
- List Packages

### Available List Actions:

- List Repositories
- List Systems
- List Subsystems
- List Elements

**Note:** For more information about Web Services and the RESTful API, see the *Scenario Guide*.

## Web Services Software Requirements

The Web Services component is included as a separately installable component in the CA Endeavor SCM Version 17.0 pax file.

The following mainframe software is required:

- CA Endeavor SCM Version 17.0.00
- CA Common Services:
  - If you are using CA Common Services Version 14.0, verify that the following PTFs are applied:
    - PTF RO50139. This PTF affects CAICCI.
    - PTF RO47492. This PTF is required to make VSAM Extended Addressability available through CA L-Serv. (This PTF has been required beginning with CA Endeavor SCM Release 15.1. For more information about CA L-Serv support of VSAM EA, see the *CA Endeavor SCM Release 15.1 Release Notes*.)
  - If you are using CA Common Services Release 14.1, verify that the following PTF is applied:
    - PTF RO52401. This PTF affects CAICCI.
- Java 7
- Apache Tomcat 7.0 for the HTTP and application server.

You can install a supported version of Apache Tomcat from CA Common Services for z/OS. For more information on this process, see the *CA Common Services for z/OS Installation Guide*.
- Apache Axis2/Java 1.6 and Jersey 2.7 frameworks.

You can set/install these components when you perform the procedure "How to Configure and Deploy Web Services."

**Important:** If you are using an pre-V17 version of the Eclipse-Based UI plug-in, the plug-in must be reinstalled on all client computers. Only Version 17.0 of the plug-in is compatible with Version 17.0 of Web Services. In addition, the plug-in has been certified with the Eclipse Foundation's Eclipse SDK version 4.3.

# Chapter 3: Enhancements Added After Version 17.0 Complete

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This section contains the following topics:

[Package Ship Security Enhancements](#) (see page 19)

## Package Ship Security Enhancements

Enhancements to Package Ship security were introduced with PTF RO78325 in March, 2015. (If Web Services has been installed, then RO78326 is also required.) This PTF makes the following changes to Package Ship security:

- **External Security Interface and ISPF Package Ship Requests**— With this change, an External Security Interface (ESI) call is made in foreground for Package Ship requests to build the Package Ship queue, preventing unauthorized access to the ship function on the ISPF panels. Prior to this change, an ESI call was not made in foreground for building a ship request. If the user was not authorized to perform shipments, the batch ship job would fail the ESI authorization check.
- **External Security Interface and the API Ship Function**— With this change, an ESI call is made before the API Ship function is processed, under the context of the USERID.
- **Alternate ID**— Previously, the option PACKAGE\_SHIP\_WITH\_ALTID was added to the Optional Features table (ENCOPTBL) to allow an API Package Ship request to execute under the context of the Alternate ID. This PTF provides the same functionality when performing ship requests from the ISPF Package Shipment panel. Now, if the PACKAGE\_SHIP\_WITH\_ALTID optional feature is enabled, all ship requests (API and ISPF) will be performed under the context of the Alternate ID.



# Appendix A: Modified Nonprogram Product Components

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## Nonprogram Product Components Modified in Version 17.0

The following list identifies nonprogram product components that were updated after Version 16.0 was made available. If your site has customized any of these members, you may need to reapply your customizations to the updated members. The members are listed under their target library.

- CSIQSRC— Target library for tables
  - BC1TNEQU
  - ENCOPTBL
  - ENDICNFG
- CSIQJCL— Target library for sample JCL
  - BC1JXCPY Note: this is a new member
  - README
  - WSTOMCCS
  - WSTOMINI
- CSIQMENU— Target library for ISPF messages
  - PKEX12 Note: this is a new member
  - CIGG18
  - CIGG50
  - CIM04
  - CIUU90
  - ENDE10
  - PKEX11

- CSIQOPTN— Target library for COBOL copybooks, parameter members, and Assembler macros
  - \$#MODID
  - \$ALTRDS Note: this is a new member
  - \$CPYRITE
  - \$C1FUNC
  - \$ECBDS
  - \$PAPPREQ
  - \$PECBDS
  - \$PREQPDS
  - \$PSCLREQ
  - \$RELEASE
  - \$REQPDS
  - \$SMFBKDS
  - \$SMFREC2
  - @PRDDBDS
  - ECHALBKO
  - ECHALELM
  - ECHALPKS
  - ECHALSMF
  - END\$CNFG
  - ENHAACTL
  - ENHAAID#
  - ENHAAPFX
  - ENHAAPWB
  - ENHAAREB
  - ENHAEADD
  - ENHAEDEL
  - ENHAEELM
  - ENHAEGEN
  - ENHAEMOV
  - ENHAEPRE

- ENHAEPRM
- ENHAERET
- ENHAESIG
- ENHAETRA
- ENHAEUPD
- ENHALAGJ
- ENHALAGR
- ENHALAPP
- ENHALBKO
- ENHALCAS
- ENHALCMP
- ENHALCOR
- ENHALDIR
- ENHALDSN
- ENHALDST
- ENHALELM
- ENHALENV
- ENHALPGR
- ENHALPKG
- ENHALPKS
- ENHALSBS
- ENHALSCL
- ENHALSIT
- ENHALSMF
- ENHALSTG
- ENHALSUM
- ENHALSYS
- ENHALTYP
- ENHAPAPP
- ENHAPBKI
- ENHAPBKO
- ENHAPCAS

- ENHAPCOM
- ENHAPCOR
- ENHAPDEF
- ENHAPDEL
- ENHAPDEN
- ENHAPEXE
- ENHAPRES
- ENHAPSUB
- ENHAUSCL
- ENHOPT
- ENHOPTNS
- EXITBLKS
- FUNCEQU
- PKGXBLKS
- XIT7MAIL
- CSIQPENU— Target library for ISPF panels
  - BC1G1000
  - CITC12EC
  - CITC1450
  - CITC1500
  - CITC1550
  - CITP8000
  - CITSED00
  - CITSED10
  - CITSED20
  - CITSED30
  - CITSED50
  - CITSED60
  - CITSED70
  - CITSED80 Note: this is a new member
  - CITSED90 Note: this is a new member
  - CITSTATO

- CITTOF10
- CITT0000
- CITT2530
- CITT8000 Note: this is a new member
- CIT15100
- CIT15150
- CIT16000
- CIT16001
- CIT170A0 Note: this is a new member
- CIT170B0 Note: this is a new member
- CIT170C0 Note: this is a new member
- CIT17000 Note: this is a new member
- CIT17001 Note: this is a new member
- CIT17010 Note: this is a new member
- CIT17020 Note: this is a new member
- CIT17030 Note: this is a new member
- CIT17040 Note: this is a new member
- CIT17050 Note: this is a new member
- CIT17060 Note: this is a new member
- CIT17070 Note: this is a new member
- CIT17080 Note: this is a new member
- CIT17090 Note: this is a new member
- C1SE2100
- C1SE2200
- C1SHELL Note: this is a new member
- C1SM1000
- C1SN5100
- C1SP0000
- C1SSEDS1
- C1SSEDS2

- C1SSEDS3 Note: this is a new member
- C1SSLELL Note: this is a new member
- ENDHE205 Note: this is a new member
- ENDHE206 Note: this is a new member
- ENDHE216 Note: this is a new member
- ENDHE226 Note: this is a new member
- ENDIEEM1
- ENDIEEM2
- ENDIEEM3 Note: this is a new member
- ENDIE110
- ENDIE205 Note: this is a new member
- ENDIE206 Note: this is a new member
- ENDIE216 Note: this is a new member
- ENDIE226 Note: this is a new member
- CSIQSAMP— Target library for sample application processors, jobs, elements, and so on
  - @C1ENVMT
  - ALIASMOV
- CEW8JCL— Target library for CA Endeavor Interface to the Natural Environment JCL
  - PNATDEL
  - PNATGEN
  - PNATMOV

# Appendix B: Known Issues

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## Published Fixes for Version 17.0.00

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

## Maintenance Grid

The CA Endeavor Software Change Manager Maintenance Grid provides easy access to holddata and PTFs. The Maintenance Grid is available in the Product Status section on the product page.



# Appendix C: Accessibility Features

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CA Technologies is committed to ensuring that all customers, regardless of ability, can successfully use its products and supporting documentation to accomplish vital business tasks. This section outlines the accessibility features that are part of CA Endeavor SCM.

## Product Enhancements

This section summarizes the accessibility of CA Endeavor SCM as tested for Section 508 compliance using a 3270 emulator and the Eclipse user interface. In addition, the accessibility of product documentation and support is described.

### 3270 Emulator Access

When accessed through a 3270 emulator, CA Endeavor SCM offers the following accessibility:

- All functions can be performed using the keyboard only.
- The product inherits the following OS accessibility features:
  - Sticky keys
  - Filter keys
  - Toggle keys
  - Mouse keys
  - Serial keys

Exceptions: The product does not inherit changes to OS contrast settings. This attribute is outside the control of the product, because the user emulator controls this attribute.

- A well-defined on-screen indication of the current focus is provided programmatically. Use of the Tab key can place the cursor unexpectedly on unprotected fields, which can hinder screen reader accessibility.
- The application uses user interface elements with visual semantics that are not programmatically available to assistive technology through the emulator. This exception limits accessibility for AT users.
- Textual information is provided through operating system functions for displaying text.

- Color and contrast are changeable by the user in the emulator; the product inherits these changes. A variety of color combinations that can create various degrees of contrast are available in the emulator: black text on white background, blue text on white background, yellow text on black background.
- Electronic forms in the product can be completed using the keyboard. However, a screen reader is unable to prompt users to fill in form fields, requiring the screen reader user to examine the textual screen content to determine what fields are present.
- This product supports the use of Assistive Technology screen readers by blind and visually impaired users. However, screen readers do not have access to user interface element semantics, requiring the user to examine the textual screen content to determine available options, entry fields, keyboard shortcuts, and application responses.
- This product does not require user hearing or speech.
- This product can be used in a mouseless, keyboard-only mode. In addition, the product supports OS accessibility features.

### Eclipse Access

When accessed through Eclipse, CA Endeavor SCM offers the following accessibility:

- Most functions can be performed using the keyboard only. However, there are exceptions. The following functions cannot be accessed using the keyboard only:
  - Some toolbar icons in the Repository View, Project View, CA Endeavor SCM Log View.
  - Drag and drop views.
  - Min and max toolbar icons.
- The product inherits the following OS accessibility features:
  - Filter keys
  - Toggle keys
  - Serial keys
  - High Contrast

Exceptions: The shortcut keys Ctrl+F6 and Ctrl+F7 do not function properly with Sticky keys. Drag-and-drop views cannot be performed with Mouse keys.

- A well-defined on-screen indication of the current focus is provided programmatically, but with exceptions. The screen reader cannot track focus and focus changes for:
  - Toolbar icons in the Views
  - Tool tips for toolbar icons in the Views when using Mouse keys
- The product provides sufficient information about UI elements with the following exceptions.
  - Tooltips are not provided for the Project View, Element View and CA SCM Log View.
  - The screen reader cannot read the online help icon in the New Repository & Project creation Wizards.
- Bitmap images have consistent meaning with the following exceptions:
  - The same icon is used in different menus for different functions.
  - Different icons are used for the same function in views.
  - The same icon is used for different functions in different views.
  - The same icon is used to represent different views.
  - The ASCII art used in element listings is not supported by Assistive technology.
- Textual information in the product is provided through the operating system. The minimum information listed in the criterion is made available.
- The product inherits OS settings for color, contrast, and fonts. The contrast ratio is 4.5:1 or greater.
- In most cases, color coded information is also conveyed by text. However there are exceptions. For example, the images that are used to represent systems, subsystems, environment, and so on, do not have text equivalents.
- The product does not permit users to adjust color and contrast. However, the product inherits user settings for color and contrast from the OS.
- Most forms are changeable by users of Assistive Technology. However there are exceptions. For example, the screen reader cannot read error messages in New Repository creation and Project definition forms.
- The product provides some support for the use of screen readers by blind and visually impaired users, but with exceptions.
- The product supports the use of screen magnifiers by visually impaired users.
- This product does not require user hearing or speech.

- Title bars of Application windows and dialogs have titles that describe the topic or purpose. For example:
  - Project View, Repository View, Search Map View, Element View windows have titles that describe the purpose.
  - The dialog windows for New Repository & Project definition have titles that describe the purpose.
- Help content uses links and link text that describes the purpose of each link.
- The application provides headings and labels that describe a topic or purpose. For example:
  - The New Repository & Project definition window uses headings and labels that describe the purpose of window and fields.
  - The Element View & Log View tabs use headings that describe the purpose of each tab.
- The screen reader reads text in the correct natural language. For example:
  - New Repository & Project definition dialog windows heading and labels are read correctly in the default natural language.
  - The text in the online help contents is read correctly in the default natural language.
- The application provides consistent navigation across views and screens. The navigation through screens for New Repository & Project definition dialogs is consistent.

### Product Documentation and Support

CA Endevor SCM documentation and support are provided as follows:

- Product documentation is available in 508-compliant HTML.
- Support is available as follows:
  - Online and email support for customers with hearing disabilities.
  - Telephone support for customers with visual disabilities.

# Appendix D: Third-Party Acknowledgements

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Third-party software license agreements are located in the TPSA folder on the CA Endeavor SCM bookshelf here: [Bookshelf\\_Files/TPSA](#)