

# **CA Change Manager Enterprise Workbench**

**Release Notes**  
**r12**



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## CA Product References

This document references the following CA products:

- CA Change Manager Enterprise Workbench (CA CM Enterprise Workbench)
- CA Software Change Manager (CA SCM)
- CA Endeavor<sup>®</sup> Software Change Manager (CA Endeavor SCM)
- CleverPath<sup>™</sup> Reporter (Reporter)

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# Chapter 1: Welcome

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Welcome to CA Change Manager Enterprise Workbench r12 (CA CM Enterprise Workbench).

**Important!** Before installing CA CM Enterprise Workbench, be sure to read the chapter "Installing and Configuring CA CM Enterprise Workbench" and the chapter "Installation Checklists" found in the *Implementation Guide*. This document is located in the \Doc directory of the CD and in the Documentation folder of the Product Explorer.

This section contains the following topics:

[What the Release Notes Covers](#) (see page 7)

[Product Name Change](#) (see page 7)

[Published Fixes](#) (see page 8)

## What the Release Notes Covers

This *Release Notes* discusses published fixes, new features and enhancements, product documentation, system requirements, installation considerations, and installation upgrade procedures.

For the latest information including any updates that may have occurred after publication, see <http://ca.com/support>.

## Product Name Change

This product was rebranded to CA Change Manager Enterprise Workbench (CA CM Enterprise Workbench). The previous name was AllFusion<sup>®</sup> Change Manager Enterprise Workbench.

The component product CA Software Change Manager (CA SCM) was rebranded for r12. The r7.1 release of this product is named AllFusion<sup>®</sup> Harvest Change Manager. Both r7.1 and r12 are compatible with CA CM Enterprise Workbench r12. Throughout the guides and on the CA CM Enterprise Workbench software pages, this component is referred to as CA SCM.

The component product CA Endeavor Software Change Manager (CA Endeavor SCM) was rebranded for r12 and is referred to in the CA CM Enterprise Workbench software and guides as CA Endeavor SCM.

## Published Fixes

The complete list of published fixes for this product can be found through Published Solutions on <http://ca.com/support>.

# Chapter 2: Enhancements and Changes

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This section contains the following topics:

[Enhancements for r12](#) (see page 9)

[Database Compatibility](#) (see page 13)

## Enhancements for r12

CA CM Enterprise Workbench r12 includes the following enhancements.

### Product Installation

This release introduces the following installation enhancements:

- Improved interactive installation flow, based on Microsoft msi installation technology.
- Support for Typical and Custom installations. Upgrades are done using a variation of the Custom installation.
- Silent installation support, by a user-generated response file, for 'push' software deployment.

### Setup, Configuration, and Deployment

The Define Data Sources and Deployment tool has been completely redesigned. This tool aids and assists in the creation and editing of configuration files and the creation and deployment of Web Archive (WAR) files. It is invoked automatically during a Custom installation or through the Windows Start > Programs menu.

### Database Setup Tool

The CA CM Enterprise Workbench DB Setup Tool is a single source utility supporting Ingres data migration, local or remote installation of Oracle starter database tables, and CA-MDB installation on SQL Server 2005 databases. Additional support for Oracle on supported UNIX and Linux platforms, replaces complex command line install scripts on the UNIX and Linux platforms. This tool is accessible from the CA Product Explorer for ease of use when installing database support remotely.

## Compatibility with New Releases of Component Products

This release of CA CM Enterprise Workbench provides compatibility with CA SCM r12 and CA Endeavor SCM r12. However, CA SCM Enterprise Workbench support for the CA Endeavor SCM promotion package feature requires a minimum level of CA Endeavor SCM r12 SP2.

## CA Endeavor SCM r12 SP2 Promotion Packages

Support is added for CA Endeavor SCM promotion packages for sites using CA Endeavor SCM r12 SP2. Support for promotion packages is similar to that provided for other CA Endeavor SCM packages. In addition, various pages are updated to indicate whether a package is a promotion package.

The promotion package enhancements are as follows:

### CA Endeavor SCM Package Lists

Where lists of packages appear on various pages, an icon is visible to the left of each package name. When you move your cursor over the icon, tool tip text opens to identify the type or category of package as one of the following: promotion package, non-promotion package, standard package, or emergency package.

On the Home page, if any promotion packages are listed in the Awaiting Approval section, the target environment and stage ID combination is shown for each promotion package awaiting approval.

### Creating CA Endeavor SCM Promotion Packages

When you create a CA Endeavor SCM package using the CA Endeavor SCM - Package Create page, you can change the value in the new Promotion Package field to indicate whether the package you are creating is a promotion package or not. Possible values are Yes or No. The value is initially fetched from the Dialog Default Settings and later managed as a persistent field.

During package creation, SCL syntax validation is performed and Endeavor actions in promotion packages are limited to Move actions.

### Searching for CA Endeavor SCM Packages

The CA Endeavor SCM - Package Search page includes a new filter, Promotion Package Selection, that lets you to filter by All Packages, Promotion Packages Only, or Exclude Promotion Packages.

The CA Endeavor SCM - Package Search results section is enhanced to show a new column, Target Environment/Stage ID. This column is blank for non-promotion packages and for promotion packages that are In-Edit status.

### **Viewing CA Endeavor SCM Package Detail**

The CA Endeavor SCM - Package Detail page includes a new non-configurable field, Promotion Packages, in the General Information section, to indicate whether this is a promotion package, with possible values of Yes or No. In addition, the Package Details section includes a new non-configurable field, Promotion Target Env/StgID, if this information exists.

### **Viewing CA Endeavor SCM Promotion Package History**

For Promotion Packages, the Additional Reports section, of the CA Endeavor SCM - Package Detail page, provides the link Promotion Package History, if historic records are available. The link opens the CA Endeavor SCM - Package History page, which lists each iteration of the promotion package and shows the following information for each iteration: Cast, Approve, and Execute times and dates, and the target environment and stage ID. The Action column at the far left contains a link (view) to the CA Endeavor SCM - Package History Detail page.

The Package History Detail page lists historical information for the selected iteration of the package. A link to the active package detail page is available by clicking the Package Name in the General Information section. Additional links are also displayed, in the General Information section, that jump to the detailed information of the previous or next iterations when they exist.

### **Modifying CA Endeavor SCM Packages**

You can change a package's promotion package attribute from the CA Endeavor SCM - Package Detail page, provided the package is not correlated to an Enterprise package and is In-Edit status. The new field, Promotion Package, allows a value of Yes or No. If the package is correlated or is not In-Edit status, then the field is non-configurable.

### **Generating SCL**

You can use the SCL Generator to generate SCL for promotion packages that have a status of In-Edit. However, Endeavor actions for promotion packages are limited to Move actions. Therefore, the only Endeavor action option shown on the CA Endeavor SCM - Search (SCL Generator) page, for a promotion package, is the Move action.

## Enterprise Packages

You can add a promotion package to an Enterprise package, however a mix of promotion packages and non-promotion packages is not allowed in one Enterprise package. An Enterprise package can include either promotion packages, or non-promotion packages, but not both.

When adding a package, the following considerations apply:

- The Add Endeavor Package to Enterprise page lets you to refine your search criteria as follows:
  - Package Type Selection- This field allows you to filter by All Packages, Standard Packages Only, or by Emergency Packages Only.
  - Promotion Package Selection- This field allows you to filter by Promotion Packages Only or Exclude Promotion Packages. After one package is added to an Enterprise package, the selection list is limited to packages having the same promotion package property, because a mix of promotion packages and non-promotion packages is not allowed in the same Enterprise package.
  - The search results on the Add Endeavor Package to Enterprise page show a new column, Target Environment/Stage Id. This column is blank for non-promotion packages.
- The correlation action is performed when the Add Endeavor button is clicked on the Enterprise Package Detail page. Correlated packages must have the same environment and stage target. However, validation of environment and stage targets does not occur when packages are added to an Enterprise package. Validation occurs prior to the execution of the Enterprise package. The Execute button is visible only if all packages are approved and all correlated packages have the same target environment and stage combination. The Sub-Packages section of the Enterprise Package Detail page can be used to identify the target environment and stage of all the correlated promotion packages.
- To determine if a package is correlated to an Enterprise package, view the CA Endeavor SCM - Package Detail page for that package. The following message appears in the General Information area if the package is correlated: "This package is part of an Enterprise Package. Permitted actions are limited."
- After a promotion package is added to an Enterprise package, all actions on the promotion package must be applied from the CA CM Enterprise Workbench interface. However, the package's promotion package attribute cannot be changed to non-promotion package.

When one or more promotion packages are correlated to an Enterprise package, the actions buttons on the Enterprise Package Detail page function as follows:

- The Execute button is visible on the Enterprise Package Detail page, if all the promotion packages have the same target environment and stage and the packages are in Approved status. The identification of the target environment and stage ID is only possible after the promotion package has been Cast. An error message in red "Promotion packages do not have the same target environment" is displayed (on the line below the button area) if different target locations are identified. When this happens, the user must fix the error situation by removing any promotion packages that do not have the desired target locations. The Execute button is visible when all the promotion packages are ready to be executed, whether for the first or a subsequent iteration.
- The Retry button appears instead of the Execute button when the execution of one of the correlated packages has failed. For promotion packages, pressing this button will only re-execute the failed packages and packages not yet executed that have the same target environment and stage as the failed package.
- The Reset logic is unchanged.
- The Backout button appears when any of the correlated packages allows the backout action. CA Endevor SCM sub-packages can only be backed out when they are in Executed or Exec-Failed state. In the case of non-promotion packages, all executed packages are backed-out. However for promotion packages, some packages that have executed successfully are not backed out if their status has changed to In-Edit, In-Approval, or Approved.
- The Backin button appears, when any of the correlated packages having been backed out are eligible for the backin action.

## Database Compatibility

Support is no longer provided for the Ingres database.

For information about supported databases, see [Database Servers](#) (see page 17).



# Chapter 3: Documentation

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This section contains the following topics:

[Format and Location](#) (see page 15)

[Documentation Set](#) (see page 15)

[Technical Notes](#) (see page 16)

[How to View and Search PDFs](#) (see page 16)

[Release Numbers on Documentation](#) (see page 16)

## Format and Location

The documentation is provided in searchable PDF format. You can access the documentation set (guides) from Technical Support at <http://ca.com/support>.

You can also find the guides in the \Doc directory and technical notes in the \Other directory on the CA CM Enterprise Workbench installation media. This documentation is also located in the Doc folder of the Product Explorer.

## Documentation Set

The documentation set includes the following guides in PDF format:

- *CA Change Manager Enterprise Workbench Release Notes*  
(CA\_CMEW\_r12\_Release\_Notes\_ENU.pdf)
- *CA Change Manager Enterprise Workbench Implementation Guide*  
(CA\_CMEW\_r12\_Implementation\_ENU.pdf)
- *CA Change Manager Enterprise Workbench User Guide*  
(CA\_CMEW\_r12\_User\_ENU.pdf)

The following changes were made to reorganize the documentation set:

- The *Installation and Configuration Guide* was renamed the *Implementation Guide*.
- The *Getting Started* was eliminated and relevant content moved to the *User Guide*.

## Technical Notes

Technical notes are provided on the product installation media. After product installation, the technical notes are listed in your PC's Start Menu, Products, CA, CA CM Enterprise Workbench, CA CMEW, Docs folder. The following technical notes are provided:

- *How to Install the CA Endeavor Software Change Manager API SCL Package Ship Feature*
- *Setting Up JDBC Data Source Drivers*
- *Configuring and Deploying CA Change Manager Enterprise Workbench Under IBM WebSphere Application Server*

## How to View and Search PDFs

To view PDF files, you must download and install Adobe Reader from the Adobe website if it is not already installed on your computer. To search across the documentation set, you must download the ZIP file provided on <http://ca.com/support>. This file is labeled All Guides Including a Search Index in PDF Format. It includes all the guides, a bookshelf, and an index. When you unzip the ZIP file, make sure you check Use Folder Names, so that the required file structure is maintained for the index. To access the Search feature on any PDF toolbar, go to Edit, Search. You can also use the SEARCH button on the Bookshelf.PDF.

## Release Numbers on Documentation

Occasionally, we must update documentation outside of a new or updated release. To indicate a minor change to the documentation that does not invalidate it for any releases that it supports, we update the edition number on the cover page. First editions do not have an edition number.

# Chapter 4: System Information

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This section contains the following topics:

[Operating System Support](#) (see page 17)  
[System Requirements](#) (see page 18)

## Operating System Support

The following sections describe supported operating systems for product components, database servers, and the Sun J2SE Development Kit (JDK).

### Product Components

This release supports the following product components and operating systems.

- CA Endevor SCM r7 SP4, r12, r12 SP1, and r12 SP2
  - z/OS
  - OS/390
- CA SCM Server r7.1 SP1 and r12
  - Windows
  - UNIX
  - Linux
- CA CM Enterprise Workbench Server
  - Windows Server 2003 SP2

### Database Servers

Support is no longer provided for the Ingres database.

The following Relational Database Management Systems (RDBMSs) are supported when run on the listed operating systems:

- Oracle 9.2, 10g, and 11g
  - UNIX: Sun Solaris 9
  - Linux: Red Hat Enterprise Linux AS 3.0, Suse Linux Enterprise Server
  - Windows Server 2003 SP2

- Microsoft SQL Server (SQL Server) 2005 SP2
  - Windows Server 2003 SP2

**Note:** The above list reflects versions certified at the time of this CA CM Enterprise Workbench release. Certifications performed subsequent to this release can be found here:

[http://supportconnectw.ca.com/public/endev\\_ccc\\_lib\\_panv/eccmsupp.asp](http://supportconnectw.ca.com/public/endev_ccc_lib_panv/eccmsupp.asp)

## J2SE Development Kit

Java 2 technology is used to enable CA CM Enterprise Workbench to run on the greatest number of platforms. The CA CM Enterprise Workbench server has been tested with the following operating systems and Sun JDKs.

- Windows Server 2003 SP2
  - Bit level: 32
  - J2SE Development Kit:
    - ◆ JDK 5.0 update 5 (JDK 1.5.0\_13)
    - ◆ JRE 5.0 (JRE 1.5.0\_13)
- Windows Server 2003 SP2
  - Bit level: 32
  - J2SE Development Kit:
    - ◆ JDK 6.0 update (JDK 1.6.0)
    - ◆ JRE 6.0 (JRE 1.6.0)

## System Requirements

The following sections list system requirements for CA CM Enterprise Workbench, including software requirements, hardware requirements, disk space usage requirements, and system usage examples.

## Software Requirements

Before you begin the CA CM Enterprise Workbench installation, CA Endeavor SCM or CA SCM (or both, if you are using both components) must already be installed and configured according to the instructions in each component's documentation.

Multiple concurrent installations of different versions of CA CM Enterprise Workbench are not supported. If the installer finds a previous version of the software, it will give the user the option to cancel or continue the installation. Continuing the installation will remove the previous version and install the current version of CA CM Enterprise Workbench.

The product components have the following software requirements. Components not included on the CA CM Enterprise Workbench CD are marked with an asterisk (\*).

- CA Endeavor SCM r7 SP4\*, r12\*, r12 SP1\*, r12 SP2\*
  - CA Common Services (CCS) for z/OS components CAICCI, CAIENF, and CAIRIM versions must be compatible with your z/OS version
- CA SCM Server—CA SCM r7.1 SP1\*, r12\*
- CA CM Enterprise Workbench Server
  - JSP Container—Jakarta Tomcat 6.0.16 (Servlet 2.4 and JSP Spec 2.0), IBM WebSphere Application Server 6.1\*, or JBoss 4.2.3\*
  - J2SE 1.6.0 (JDK or JRE, depending on the JSP Container being used)
  - JDBC driver for Oracle 9.2\*, 10g, 11g; or SQL Server 2005 SP2 v.1.0 and v.1.2
  - CA CM Enterprise Workbench Reporter 4.2 SP1 (optional)
- Database Servers—Oracle 9.2\*, 10g\*, 11g\*, or SQL Server 2005 SP2\*
- CA SCM Web Interface Server (optional)\*
  - CA SCM Web Interface r7 SP1\* or r12\*. For system requirements, see the CA SCM documentation.

If you intend to access the web interface (Harweb) through CA CM Enterprise Workbench, you must install the Harweb application separately and set it up to work with your target CA SCM broker and database.

**Note:** For instructions on installing the web interface, see the *CA Software Change Manager Installation Guide*.

Additionally, to enable the web interface in CA CM Enterprise Workbench, you must specify the Harweb URL by manually editing the Harvest.cfg file.

**Note:** For more information, see CA SCM Configuration File: Harvest.cfg in the chapter "Updating Configuration Files" in the *CA Change Manager Enterprise Workbench Implementation Guide*.

- Browsers—Microsoft Internet Explorer 6.0\*, 7.0\*, or 8.0\*

**Note:** The above list reflects versions certified at the time of this CA CM Enterprise Workbench release. Certifications performed subsequent to release can be found here:

[http://supportconnectw.ca.com/public/endev\\_ccc\\_lib\\_panv/eccmsupp.asp](http://supportconnectw.ca.com/public/endev_ccc_lib_panv/eccmsupp.asp)

## Hardware Requirements

Hardware requirements vary according to the software configuration at your site, whether the product runs on a single server or multiple servers, and the number of concurrent users supported.

## System Usage Examples

Because of the dynamic nature of system resource demand and allocation, the maximum number of supported users for a given system configuration varies. For more information, see the software requirements published by Microsoft for Windows 2003 Server support. The following link to those requirements was active at the time of publication of this document:

<http://technet.microsoft.com/en-us/library/cc782423.aspx>

## Suggested Connection Guidelines for SQL Server 2005 with the CA Management Database (MDB)

- Small Configuration-up to 100 database connections:
  - 1 CPU
  - 2 GB RAM
- Medium Configuration-up to 500 database connections:
  - 2 CPUs
  - 3 GB RAM
- Large Configuration-1000 database connections:
  - 4 CPUs or more
  - 4 GB RAM or more

## Disk Space Requirements

The following disk space requirements are recommended for CA CM Enterprise Workbench server components.

- CA CM Enterprise Workbench: 32 MB
- Tomcat: 32 MB
- JDK and JRE: 117 to 428 MB

- Harvest client: 80 MB
- CAICCI: 10 MB



# Chapter 5: Installation Considerations

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This section contains the following topics:

[Installation General Considerations](#) (see page 23)

[Order of Installation](#) (see page 24)

[Prerequisites](#) (see page 24)

## Installation General Considerations

It is important to plan your installation and collect relevant information before beginning the installation process. Be sure to review and complete the installation checklists in the chapter “Installation Checklists” of the *Implementation Guide*.

For complete, detailed installation instructions, see the *Implementation Guide*.

The following types of installations are available:

- **Typical installation**– This is an installation of CA CM Enterprise Workbench r12 on a *clean* server, one on which no previous version of CA CM Enterprise Workbench has been installed. All required components and features are installed on this server. This installation is for CA Endeavor SCM only (no support is provided for SCM Harvest), and all required components including the database must be present on this server.
- **Custom installation**– Unlike the Typical installation, the Custom installation offers the most flexibility. All supported features of Enterprise Workbench r12 are available for distribution on single or multiple servers.

Upgrades to r12 can be performed using the Upgrade installation, a variation of the Custom installation, on a server on which CA CM Enterprise Workbench r7.1 is already installed. All required components and features are upgraded for r12 as necessary.

## Order of Installation

When installing features such as CA SCM support and database support on separate server machines, you must install the remote features in the following order:

1. Database Support. This includes database upgrades and conversions.
2. CA SCM support, if this is your initial installation of CA CM Enterprise Workbench.
3. CA CM Enterprise Workbench server.

For information about using this solution with Unicenter® Software Delivery, see the chapter "Additional Installation Considerations" in the *Implementation Guide*.

## Prerequisites

Before you install CA CM Enterprise Workbench r12, make sure you back up your CA Endeavor SCM data sets.

# Chapter 6: General Considerations for CA Endeavor SCM Users

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For CA Endeavor SCM users, this section contains general information you should know before using CA CM Enterprise Workbench.

This section contains the following topics:

[CA Endeavor SCM Sample JCL](#) (see page 25)

[CA Endeavor SCM Package Exit Considerations](#) (see page 25)

[CA Endeavor SCM Features with Restrictions](#) (see page 26)

[Unsupported CA Endeavor SCM Features](#) (see page 26)

## CA Endeavor SCM Sample JCL

CA CM Enterprise Workbench connectivity to CA Endeavor SCM is established through started tasks (STCs). The JCL for the started tasks is delivered in member EAPISVR of the CA Endeavor SCM JCLLIB. Edit this JCL to your site standards and copy it to your procedure library.

## CA Endeavor SCM Package Exit Considerations

If your package exit is written to interact with the end user, this interaction will not be available through CA CM Enterprise Workbench.

CA CM Enterprise Workbench includes support for Exit 7. Other package exits are supported. Exit 7 should work for actions other than the following:

- For Exit 7, these actions are available using batch only:
  - Create and its related functions Build, Copy, Edit, Import and Define
  - Execute
  - Modify and its related functions Build, Copy, Edit, and Import
- For Exit 7, these actions are not available:
  - Archive
  - Export
  - Ship and its related functions Transmit and Confirm

## CA Endeavor SCM Features with Restrictions

CA CM Enterprise Workbench includes limitations on some features resulting from underlying CA Endeavor SCM restrictions. These limitations include:

- Backout of Hierarchical File Structure (HFS) file types in UNIX System Services (USS)
- Backout of actions on element types whose image records are kept in HFS
- Processor keyword MONITOR= for HFS

For more information about the MONITOR= keyword, see the *CA Endeavor SCM Extended Processors Guide*.

## Unsupported CA Endeavor SCM Features

CA CM Enterprise Workbench provides support for CA Endeavor SCM element and package actions, with certain restrictions. CA CM Enterprise Workbench does not provide support for the following CA Endeavor SCM features:

- Actions that define the CA Endeavor SCM environment
- Print action (you can print using your web browser)
- Archive file-related actions such as Archive, Restore, Unload, and Reload
- Non-processor utility programs; for example, Batch search and replace
- Listing or adding from sequential data sets

# Chapter 7: Upgrading from AllFusion CM Enterprise Workbench r7.1

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This section describes how to perform an upgrade installation for sites upgrading from AllFusion CM Enterprise Workbench r7.1 to r12.

**Note:** Sites that are currently using a version of AllFusion CM Enterprise Workbench prior to r7.1 must upgrade to r7.1 before upgrading to r12.

This section contains the following topics:

[How the Installation Wizard Processes an Upgrade](#) (see page 27)

[Types of Upgrades](#) (see page 28)

[Planning Your Upgrade Installation](#) (see page 28)

[How to Upgrade to r12 and Migrate Data from Ingres r3.0](#) (see page 29)

[How to Upgrade to r12 with Upgrade Support for Oracle or SQL Server](#) (see page 32)

## How the Installation Wizard Processes an Upgrade

Only a single instance of CA CM Enterprise Workbench can be installed on a server. The installation wizard leads the user through the following upgrade installation process:

1. The installation wizard searches the server for r7.1 and relevant setup and configuration information is collected before the user is prompted to uninstall r7.1.
2. The r7.1 uninstall program is invoked interactively; the user responds to dialog prompts.
3. Upon completion of the uninstall, the user is returned to the r12 installation session where the user completes the remaining dialog actions to finalize the installation of r12.
4. A post-installation action is invoked creating a WAR file for deployment.

## Types of Upgrades

The CA CM Enterprise Workbench r12 installation wizard supports an upgrade from AllFusion CM Enterprise Workbench r7.1. The upgrade installation process follows two distinct paths, depending on the database you are using. Ingres is not supported for r12. The installation wizard lets you choose one of the following types of upgrades:

- **Upgrade from Ingres**– Upgrades AllFusion CM Enterprise Workbench r7.1 installations based on the Ingres r3.0 database to CA CM Enterprise Workbench r12 and migrates your data to supported Oracle or SQL Server databases.
- **Typical Upgrade**– Upgrades AllFusion CM Enterprise Workbench r7.1 Oracle or SQL Server database installations to CA CM Enterprise Workbench r12.

## Planning Your Upgrade Installation

Consider the following when planning your CM Enterprise Workbench upgrade:

- Where is the current Enterprise Workbench r7.1 database installed?
  - Local to the Enterprise Workbench r7.1 server?
  - Remote to the Enterprise Workbench r7.1 server?
- Where will the CA CM Enterprise Workbench r12 database be installed?
  - Local to the CA CM Enterprise Workbench r12 server?
  - Remote to the CA CM Enterprise Workbench r12 server?
- Is the current working database one of the following?

### **Ingres r3.0**

Ingres is not supported in CA CM Enterprise Workbench r12. You need to do the following:

- Upgrade to a supported Oracle release or SQL Server 2005 SP2.
- Use the tools provided with CA CM Enterprise Workbench r12.
- Perform both an upgrade installation and database migration.

### **Oracle RDBMS**

Releases 9.2, 10g, and 11g are supported in CA CM Enterprise Workbench r12. You need to do the following:

- Use the tools provided with CA CM Enterprise Workbench r12.
- Perform an upgrade installation.

### **MS-SQL Server 2000**

This release is not supported in CA CM Enterprise Workbench r12. You need to do the following:

- Use the tools provided by Microsoft to convert SQL Server 2000 to 2005.
- Perform an upgrade installation.

### **MS-SQL Server 2005 SP2**

This release is supported in CA CM Enterprise Workbench r12. You need to do the following:

- Use the tools provided with CA CM Enterprise Workbench r12.
- Perform an upgrade installation.

## **How to Upgrade to r12 and Migrate Data from Ingres r3.0**

Upgrading to r12 and migrating your data from Ingres r3.0 to Oracle or SQL Server involves the following two procedures, regardless of whether your database is located on a local machine or a remote machine.

1. [Install CA CM Enterprise Workbench r12 and Prepare to Migrate Data from Ingres r3.0](#) (see page 31)

In this procedure, you use the installation wizard to install CA CM Enterprise Workbench r12 and set up database support for Oracle or SQL Server on a local machine or a remote machine.

2. [Migrate Ingres r3.0 Data](#) (see page 31)

In this procedure, you use the CA CM Enterprise Workbench DB Setup Tool to migrate your data from Ingres to Oracle or SQL Server on a local or a remote machine.

## **Install CA CM Enterprise Workbench r12 and Prepare to Migrate Data from Ingres r3.0**

Perform the following steps to install CA CM Enterprise Workbench r12 and prepare to migrate your data from Ingres r3.0 to a target database on this (local) machine or a remote machine. After you complete this procedure, you will be ready to migrate your data from Ingres r3.0.

### To install CA CM Enterprise Workbench r12 and prepare to migrate data from Ingres r3.0

1. Start the installation process on the machine where the CA CM Enterprise Workbench r7.1 server is currently installed. Start the installation from the CA Product Explorer and proceed through the installation dialogs accepting the End-User-License-Agreement.

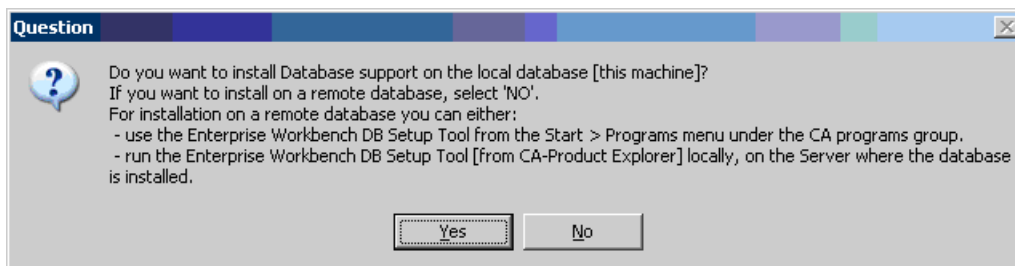
The Select Installation Type panel opens showing upgrade options. The upgrade installation process is invoked, because the installation wizard has found that CA CM Enterprise Workbench is currently installed on this machine.

2. Select the option **Upgrade from Ingres**.

The Select Features panel opens showing a tree of features you can choose to install.

3. Select all the features you want to install. In addition to checking the boxes for the specific database support and infrastructure components you want to install, make sure that the higher level boxes are checked for Database Support and for Infrastructure Components. The Product Documentation should be checked also. Click next.

The following message box opens to ask whether you want to install database support on this (local) machine or a remote machine:



4. Select one of the following options, depending on whether you want the database support installed on the local machine or on a remote machine:

#### Yes

Select Yes if the target database is installed on the **local** machine. This option has the following effects:

- The installation wizard installs the database tables into the target database.
- The previous version of CA CM Enterprise Workbench is replaced by r12.
- The installation program runs to completion and invokes post installation actions.

## No

Select No if the target database is installed on a **remote** machine. This option has the following effects:

- The previous version of CA CM Enterprise Workbench is replaced by r12.
- The installation program runs to completion and invokes post installation actions.

If your database is installed on your local machine, CA CM Enterprise Workbench r12 and database support are now installed and the database is ready for Ingres data migration, which can be performed using the procedure [Migrate Ingres r3.0 Data](#) (see page 31).

If your database is installed on a remote machine, CA CM Enterprise Workbench r12 is now installed and you can use the procedure [Migrate Ingres r3.0 Data](#) (see page 31) to both install database support and migrate your data on the remote machine.

## Migrate Ingres r3.0 Data

After you have upgraded to CA CM Enterprise Workbench r12 and the post installation actions are complete you can use the CA CM Enterprise Workbench DB Setup Tool to migrate your data from Ingres to the Oracle or SQL Server. You can use this procedure to migrate the data on a local machine or on a remote machine.

### To migrate your data from Ingres r3.0 to Oracle or SQL Server

1. Open the DB Setup Tool from Start, Programs, CA, CM Enterprise Workbench, Setup Utilities and continue through the screens until you reach the Select Actions and Database Type screen.
2. Select the actions you want to perform depending on whether the target database is on the local machine or a remote machine and select the database. Click Next to continue.
  - a. **Local machine**--If the target database is installed on the local machine (you selected Yes in step 4 of the procedure Install CA CM Enterprise Workbench r12 and Prepare to Migrate Data From Ingres r3.0), then make the following selections:
    - In The Actions to be performed section, select: **Migrate Data from Ingres**
    - In the Select DB Type for Actions, select the target database Oracle or SQL Server.

**Note:** When you selected Yes in step 4 of the procedure Install CA CM Enterprise Workbench r12 and Prepare to Migrate Data From Ingres r3.0, database support was installed on the local machine.

b. **Remote machine**--If the target database is installed on the remote machine (you selected No in step 4 of the procedure Install CA CM Enterprise Workbench r12 and Prepare to Migrate Data From Ingres r3.0), then make the following selections:

- In The Actions to be performed section, check Select/Deselect All, so that both the following are selected:

**Install DB Support**

**Migrate Data from Ingres**

- In the Select DB Type for Actions, select the target database Oracle or SQL Server.

3. Proceed through the following dialogs until the finish dialog displays the process status and log file.

Your data has been migrated to the database (Oracle or SQL Server) that you specified on the local or remote machine.

## How to Upgrade to r12 with Upgrade Support for Oracle or SQL Server

The procedures required to upgrade to CA CM Enterprise Workbench r12 and upgrade support for an existing database, vary depending on whether the database resides on the local machine, where CA CM Enterprise Workbench is installed, or on a remote machine.

- If your database resides on the local machine, perform this procedure:
  - [Install CA CM Enterprise Workbench r12 and Upgrade Existing Oracle or SQL Server Database](#) (see page 33)
- If your database resides on a remote machine, perform these procedures in the order listed:
  1. [Install CA CM Enterprise Workbench r12 and Upgrade Existing Oracle or SQL Server Database](#) (see page 33)
  2. [Upgrade Support for Existing Database on a Remote Machine](#) (see page 34)

## Install CA CM Enterprise Workbench r12 and Upgrade Existing Oracle or SQL Server Database

Perform the following steps to install CA CM Enterprise Workbench r12 with the target database on this (local) machine or a remote machine. This procedure also upgrades support for Oracle or SQL Server on a local machine. To upgrade Oracle or SQL Server support on a remote machine, you must also complete the procedure [Upgrading Support for Existing Database on a Remote Machine](#) (see page 34), after you complete this procedure.

### To install r12 and upgrade an existing Oracle or SQL Server database on a local machine or install r12 on a remote machine

1. Start the installation process on the current AllFusion CM Enterprise Workbench server machine. Start the installation from the CA-Product Explorer and proceed through the installation dialogs accepting the End-User-License-Agreement.

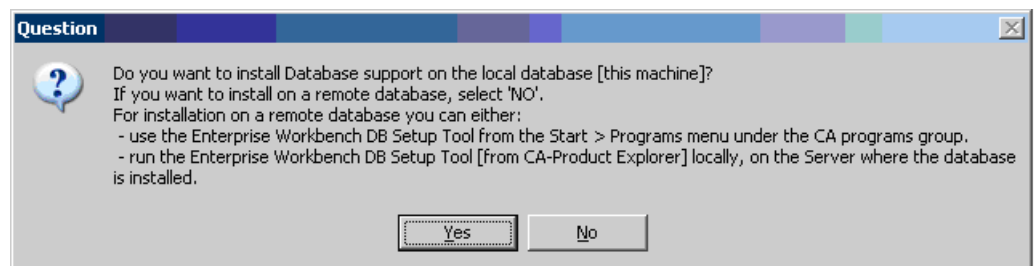
The Select Installation Type panel opens showing upgrade options. The upgrade installation process is invoked, because AllFusion CM Enterprise Workbench is currently installed on this machine.

2. Select the option **Typical Upgrade**.

The Select Features panel opens showing a tree of features you can choose to install.

3. Select all the features you want to install. In addition to checking the boxes for the specific database support and infrastructure components you want to install, make sure that the higher level boxes are checked for Database Support and for Infrastructure Components. The Product Documentation should be checked also. Click next.

The following message box opens to ask you how you want to proceed with installing the database support.



4. Select one of the following options, depending on whether the database is installed on the local machine or on a remote machine:

**Yes**

Select Yes if the target database is installed on the local machine. This option has the following effects:

- The Installshield Wizard will collect additional configuration information through dialog panels and you will specify that you want to **Upgrade Existing DB** and press Next to continue.
- The previous version of AllFusion CM Enterprise Workbench is replaced by r12.
- The installation program runs to completion and invokes post installation actions.

**No**

Select No if the target database is installed on a remote machine. This option has the following effects:

- The previous version of AllFusion CM Enterprise Workbench is replaced by r12.
- The installation program runs to completion and invokes post installation actions

If your database is installed on your local machine, CA CM Enterprise Workbench r12 is now installed and CA CM Enterprise Workbench support for the database has been upgraded for r12. The process of upgrading to r12 is complete.

If your database is installed on a remote machine, CA CM Enterprise Workbench r12 is now installed. To complete your upgrade, you must install database support on the remote machine using the CA CM Enterprise Workbench DB Setup Tool in the procedure [Upgrading Support for Existing Database on a Remote Machine](#) (see page 34).

## Upgrade Support for Existing Database on a Remote Machine

After you have upgraded to CA CM Enterprise Workbench r12, if your database is installed on a remote machine, you must use the CA CM Enterprise Workbench DB Setup Tool to upgrade CA CM Enterprise Workbench support for your database.

### **To upgrade support for an Oracle or SQL Server database on a remote machine**

1. Open the DB Setup Tool from Start, Programs, CA, CM Enterprise Workbench, Setup Utilities and continue through the screens until you reach the Select Actions and Database Type screen.

2. Select the following and click Next to continue.
  - In The Actions to be performed section, select **Install DB Support**
  - In the Select DB Type for Actions, select the target database Oracle or SQL Server.

Database support is installed on the remote machine for the database you specify.

3. Fill in the fields in the Database Configuration Information dialog. Make sure you select **Update DB** and press Next.
4. Proceed through the following dialogs until the finish dialog displays the process status and log file.

CA CM Enterprise Workbench support for the database located on the remote machine has been upgraded for r12.