

# CA ERwin<sup>®</sup> Data Modeler

## Release Notes

r8



r8.1 Edition

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## Documentation Changes

Welcome to CA ERwin Data Modeler r8.1 (r8 Service Pack 1). The following documentation updates have been made since the last release (r8.0.01) of this documentation:

- [Release Numbering Scheme in CA ERwin Data Modeler](#) (see page 25)—Information was added to clarify how you can identify the release number of your CA ERwin Data Modeler installation.
- [New Features and Enhancements](#) (see page 17)—This chapter describes the new features, enhancements, and changes implemented for r8.1.
- [Upgrading CA ERwin Data Modeler from r7.x to r8.1](#) (see page 24)—Provides important upgrade information if you are upgrading a r7.x installation to r8.1.
- [System Requirements](#) (see page 26)—Minimum screen resolution support information was added.
- Documentation Formats and Deliverables—Updated to indicate that all documentation is provided only on the ERwin Bookshelf, and that the bookshelf is installed locally by default.

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# Chapter 1: CA ERwin Data Modeler Editions

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The following editions of CA ERwin Data Modeler are available:

[Community Edition](#) (see page 10)

[Standard Edition](#) (see page 13)

[Workgroup Edition](#) (see page 14)

[Navigator Edition](#) (see page 15)

This *Release Notes* details new features, enhancements, updates, and known issues for all editions of CA ERwin Data Modeler.

**Note:** Depending on the edition of CA ERwin Data Modeler you are using, not all features may be enabled for use. For more information about the differences between versions, click one of the Edition links.

## Community Edition

The Community Edition of CA ERwin Data Modeler includes a limited number of features from the main product, and is designed to help Data Architects learn data modeling techniques, create simple data models, and learn about the design and maintenance of a production database.

Most of the basic features of CA ERwin Data Modeler are available, with limited access to the following features:

### Twenty-Five Entities/Tables Per Model

You can reverse-engineer, import using Metadata Integration (MITI) bridges, or create up to twenty-five entities/tables per model. There is no restriction on the number of views you can create.

If you attempt to reverse engineer a script or database with more than twenty-five tables, or attempt to open a model with more than twenty-five tables, a warning message displays, reminding you of the object creation limitation in the Community Edition. For Oracle and SQL Server, the reverse engineer process stops after creating twenty-five tables in the new model. For other databases, a warning message displays, stating that the import feature is disabled.

**Note:** Some operations that include the creation of temporary tables may also result in exceeding the allowed table limit. For example, if you reverse engineer a DB2/LUW script that contains twenty-five tables and a materialized view, the temporary table used to create the materialized view will cause you to exceed the allowed table limit for the model.

### Read-Only Complete Compare

You can use Complete Compare features to evaluate and compare models, but you cannot commit changes you make in the Complete Compare wizard to the models you compare. The "Finish" button is disabled in the Resolve Differences dialog. In addition, demand loading of databases and Alter Script generation are not supported.

**Note:** If you are working with a database as part of the compare process, note that only the first twenty-five tables are reverse engineered to the model used during the compare. This may result in problems in the Complete Compare Resolve Differences dialog, where objects and properties between the models will not match. To avoid problems, work with a database that has fewer than twenty-five tables.

### Save As

You can save your models in the native \*.erwin format or as a template (\*.erwin\_tmpl). Save As XML, ER1, and ERT is not supported.

**File Open**

You can open a model in \*.erwin or \*.erwin\_tmpl format, and a SQL DDL file in the format \*.sql, \*.ers, or \*.ddl.

**Print a Model**

Support for printing models is included in the Community Edition, although the output includes a watermark.

**Working with Transformations in the Community Edition**

You can work with transformations in the Community Edition to implement design decisions, such as partitioning tables. However, because of the limitation to twenty-five entities/tables per model, some transformation operations may not be possible. For example, if you are near the limit of twenty-five tables and choose to partition a table, you may surpass the table limit, and the transformation operation will not complete.

The Advisories Pane on the main workplace window reports a message reminding you that the intended action did not complete because of the object creation limit.

**Limited Database Support**

Support is included for modeling using the following databases:

- Oracle (10.x/11.x)
- SQL Server (2005/2008)
- DB2 LUW (9.1, 9.5, and 9.7)
- MySQL (5.x, using ODBC)
- ODBC (2.0, 3.0)
- Sybase (12.5/15)

### Limited Access to Metadata Integration (MITI) Bridges

Support is limited to the following Metadata Integration (MITI) Bridges for import. Export using Metadata Integration (MITI) Bridges is not supported.

- Sybase PowerDesigner OOM 9.x to 15.x (using UML XMI)
- Sybase PowerDesigner CDM 6.x
- Sybase PowerDesigner CDM 7.5 to 15.x
- Sybase PowerDesigner PDM 6.1.x
- Sybase PowerDesigner 7.5 to 15.x
- Embarcadero ER/Studio
- Embarcadero ER/Studio (using DM1)
- OMG/CWM 1.x XMI 1.x
- OMG/UML 1.x XMI 1.x

**Note:** If the file you import has more than twenty-five tables, the Community Edition imports only the first twenty-five tables.

Other limitations of the Community Edition include the following:

- A copy of Crystal Reports 2008 is not included with the Community Edition.
- Features supporting the creation and implementation of data type standards are not enabled.
- Access to the CA ERwin Data Modeler Workgroup Edition is disabled. When working with Complete Compare, the option to compare your model with a model in a mart is disabled.
- The Community Edition license is valid for one year. After one year you can reinstall the Community Edition with a new license, or purchase and install a full version of the product. You can install and use the Community Edition without entering a license key for 30 days from the date you installed the product.

**Note:** If you attempt to access a disabled feature in the Community Edition, a pop-up message appears to remind you the feature is not available.

## Documentation

The Community Edition includes online help files and PDF guides available on the ERwin Bookshelf, which is accessible from the Start menu.

To view PDF files, you must download and install the Adobe Reader from the Adobe website if it is not already installed on your computer.

## Standard Edition

CA ERwin Data Modeler Standard Edition provides all the data modeling features used by Data Architects, Data Administrators, and Application Administrators, but does not include any workgroup modeling capabilities. You can use this edition as a standalone modeling tool, and as a Workgroup Edition client that can access and work with data models stored in a mart. When you enable data movement or dimensional modeling features, it provides a tool for assisting Data Administrators and Capacity Managers design data warehouses. Partners can use the API to create add-on solutions to CA ERwin Data Modeler.

## Workgroup Edition

CA ERwin Data Modeler Workgroup Edition provides all the data modeling features used by Data Architects and also includes workgroup modeling capabilities used by Database Administrators, Application Administrators, and Application Owners. It provides conflict resolution, versioning, security and standardization for multi-user modeling. Workgroup modeling operates in a client/server environment so processing is shared between the user client workstation and the server where the models are stored. Users access the stored models through a client, such as CA ERwin Data Modeler. Models are held in a platform and network independent database or mart that resides on a central server, using Microsoft SQL Server, Oracle, or Sybase as the host database.

The key features of CA ERwin Data Modeler Workgroup Edition include:

### **Model change impact analysis**

Provides a change summary showing the impact of changes and the history of the affected model objects, allowing you to select which changes to apply to the model repository.

### **Version management**

Lets Data Architects store, access and analyze the history of a model and the changes made to it, lock down specific versions, run difference reports between versions, and seamlessly roll back models to previous states as required.

### **Concurrent model access with optional model locking**

Allows multiple users to concurrently work on a given model without compromising the integration and integrity of their parallel efforts.

### **Sub-modeling support**

Provides a focused view that helps individual modelers reduce the system resources required to upload and download during model check-in and check-out.

The administrator installs the program and initializes the database on the DBMS server. The administrator also has the responsibility of setting up the library structure in which models are organized, and assigning security profiles to users. Administration overhead is relatively low and proportional to the number and activity level of the users. After a model is saved to the database, control of who can work on the model and how changes are saved to the model is handled by security, making it possible for workgroups to work on large models without confusion. CA ERwin Data Modeler Workgroup Edition supports many security and administrative features related to its multiuser capabilities and the client/server environment in which it operates. For this reason, routine management is usually performed by a dedicated administrator. Administrators can find detailed information regarding their tasks and responsibilities in the CA ERwin Data Modeler Workgroup Edition *Administration Guide*.

You can also use CA ERwin Data Modeler Navigator Edition as a client. Read-only access is permitted to data models, so your workgroup can use this client to share information with others without the risk that unauthorized changes might be saved to the mart.

Additionally, you can connect to the mart through the Naming Standards Editor or the Datatype Standards Editor.

## Navigator Edition

CA ERwin Data Modeler Navigator Edition provides a cost-effective way to provide read-only access to models built with CA ERwin Data Modeler for viewing and analysis. This edition does not permit you to make any changes to models.

The key features of CA ERwin Data Modeler Navigator Edition include:

### **Read-only access**

Read-only access is provided to models created by CA ERwin Data Modeler and it can also be used as a Workgroup Edition client for viewing a data model stored in a mart. Use the Navigator Edition to easily share model information without the risk of unauthorized changes to a model.

### **Navigation and Viewing**

Provides those who need to view models, but not update them, full navigation and viewing of data models.

### **Reporting and Publication**

Offers reporting and printing capabilities that generate in a variety of formats, including HTML and PDF.





# Chapter 2: New Features and Enhancements

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This section of the Release Notes for CA ERwin Data Modeler documents new features and enhancements for r8.1.

This section contains the following topics:

- [Fit to Page Printing](#) (see page 17)
- [Find and Replace Dialog Enhancements](#) (see page 17)
- [Changes to the Lasso Selection Tool](#) (see page 18)
- [Preserve Diagram Layout Enhancements](#) (see page 18)
- [Copying Objects](#) (see page 19)
- [Multiple Diagram Pictures](#) (see page 19)
- [New ODBC Table](#) (see page 19)
- [Changes to Documentation Location](#) (see page 20)
- [Metadata Integration Bridges Updated](#) (see page 20)
- [Guided Tours](#) (see page 21)

## Fit to Page Printing

A new option was added to the Print dialog called *Fit to page*. When you select this check box, it lets you scale an entire diagram so that it fits on a single page for the selected printer and paper size. If you select this option and have selected more than one diagram to print, each diagram prints on a separate page.

## Find and Replace Dialog Enhancements

The following enhancements have been made to the Find and Replace functionality:

- You can now locate entries in the Model Explorer. Using the *Locate in Model Explorer* and *Locate in Diagram* buttons in the *Found Object and Property* section of the Find and Replace dialog, you can locate objects using their name as displayed in the Model Explorer.
- When you use the Find and Replace feature available in the Model Explorer, the search results are restricted to the objects available in the Model Explorer.
- You can continue to use CA ERwin Data Modeler when the Find and Replace dialog is open.

## Changes to the Lasso Selection Tool

In previous releases, when you used the Lasso tool to select model objects on the diagram window, objects that were partially contained in the lasso were included in the selection. For this release, when you select model objects using the Lasso tool, any objects that are not *completely* enclosed in the lasso will not be factored into the selection.

## Preserve Diagram Layout Enhancements

Preserve diagram layout enhancements include:

The ability to copy and paste diagram objects from one diagram to another diagram while preserving diagram layout was implemented for this release.

The layout of copied related objects, such as entities with relationships, and pasting into another diagram, whether in the same model or a different model, preserves its layout from the diagram from which it was copied.

When you paste objects into a model, it scrolls to the pasted objects automatically.

When you include objects to a diagram using the *Include All Objects Contained in Another Diagram* option, the new objects appear in the same position as in the original diagram. If the diagram had objects before you used this option, some of the new objects can overlap with the existing ones.

Previously, changing the layout of a few objects in a large diagram moved the selected and unselected objects to fit the new layout. Now you can use the *Layout in Place* option to retain the unselected objects in their locations, while rearranging the selected objects.

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## Copying Objects

The following enhancements have been made to the Copy Model Objects feature:

- Copying objects to a different model

When you copy objects to a different model, the objects are added as new model objects and displayed in the Model Explorer. The new objects are pasted in the same layout and location as in the source model.

- Copying objects to a different diagram

When you copy objects to a different diagram in the same model, the result includes one of the following events:

- If one or more selected objects exist in the target diagram, the selected objects are added to the model as new objects, in the same location as in the source diagram. In addition, the new objects are displayed in the Model Explorer.
- If none of the selected objects exists in the target diagram, the selected objects are only displayed in the diagram. They are *not* added to the model as new objects.

- Copying objects in the same diagram

When you copy objects and paste in the same diagram, new model objects are created and displayed in the Model Explorer.

## Multiple Diagram Pictures

The generating diagram picture feature has been enhanced in CA ERwin Data Modeler. Earlier, you could only generate an image of the current diagram, but now you can generate images of all the diagrams in the current model.

When you select the *Generate Diagram Pictures* option, a list of the diagrams in the current model appears. This list includes all diagrams, regardless of the objects with which they are associated. You can select one or more diagrams and save them to a location of your choice. The diagrams are saved in \*.EMF (Enhanced Windows Metafile) format.

## New ODBC Table

A new ODBC table for diagrams, DIAGRAM, is exposed in the ERwin ODBC. This table provides the diagram IDs and the default path of the Windows metafile images of all the diagrams in the model.

## Changes to Documentation Location

The following changes have been made to CA ERwin Data Modeler documentation:

- In the earlier versions of CA ERwin Data Modeler, installing documentation was optional. Now, when you install CA ERwin Data Modeler, documentation is installed by default.
- The following online help systems are now available only through the CA ERwin Data Modeler bookshelf:
  - Add-in Manager Online Help
  - Datatype Standards Online Help
  - ERwin Online Help
  - Naming Standards Online Help

**Note:** In the previous version, these online help systems were available in the bookshelf and in the `\CA\ERwin Data Modeler r8\Doc` folder.

## Metadata Integration Bridges Updated

CA ERwin Data Modeler has been updated to support Meta Integration® Model Bridge (MIMB) version 7.0.0 from Meta Integration® Technology, Inc. You can access the bridges when you click Import, From External Format or Export, To External Format on the File menu.

The full list of supported import and export bridges is documented in Appendix B of the *CA ERwin Data Modeler Implementation Guide*. This guide is available on the ERwin Bookshelf, which is accessible from the Start menu.

## Import Bridges Added/Removed

Support has been added for the following MIMB import bridges:

- Sybase PowerDesigner OOM 9.x to 15.x (via UML 2.x XMI)
- SAP NetWeaver Business Warehouse (BW) - Beta bridge
- SAP NetWeaver Business Warehouse (BW) (via XML) - Beta bridge

Support has been dropped for the following MIMB import bridges:

- Microsoft Office Excel (multi-model)

## Import Bridges Renamed

The following import bridges are renamed:

- Oracle Data Integrator is changed to Oracle Data Integrator 11g
- Informatica Developer - Beta Bridge is changed to Informatica Developer

## Export Bridges Added/Removed

Support has been added for the following MIMB export bridges:

- Syncsort DMExpress
- Meta Integration Repository (MIR) Profiling (XML)

Support has been dropped for the following MIMB export bridges:

- Microsoft SQL Server Integration Services (Project)
- Meta Integration Repository (MIR) XMI Transformations to Views

## Export Bridges Renamed

The following export bridge is renamed:

- Informatica Developer - Beta Bridge is changed to Informatica Developer

## Guided Tours

The r8 Guided Tours, which provided information about the new features in CA ERwin Data Modeler r8, was removed from the Release Notes and is now in a standalone guide called *CA ERwin Data Modeler Overview Guide*. Review this document to become familiar with the changes and functionality provided in r8 if you are upgrading from CA ERwin Data Modeler r7.x. This guide is available on the ERwin Bookshelf, in both PDF and HTML format.



# Chapter 3: System Information

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Review the following system information before installing and using the product.

This section contains the following topics:

[Upgrading CA ERwin Data Modeler from r7.x to r8.x](#) (see page 24)

[Release Numbering Scheme in CA ERwin Data Modeler](#) (see page 25)

[Operating System Support](#) (see page 26)

[System Requirements](#) (see page 26)

[Supported Target Server Databases](#) (see page 27)

[CA ERwin Data Modeler Workgroup Edition Requirements](#) (see page 27)

[CA ERwin Data Modeler Navigator Edition Requirements](#) (see page 30)

## Upgrading CA ERwin Data Modeler from r7.x to r8.x

### Models

You can upgrade any model from r7.x to r8.x.

During the r8.x upgrade process for CA ERwin Data Modeler Workgroup Edition, a dialog opens if you have any models that are stored in a r7.x mart that are Version 4.x. This dialog contains a list of all the Version 4.x models and presents you with the following options for each model:

- Delete the Version 4.x model and continue with the mart upgrade.
- Cancel the mart upgrade. Doing so lets you go back to CA ERwin Data Modeler r7.x, convert the models from Version 4.x to r7.x, and save to the mart. After you have saved these models to your mart you can continue with the r7.x to r8.x upgrade.

### Printer settings and paper size considerations

If you use a paper size other than Letter, before you upgrade any r7.x models to r8.x, ensure your paper size specifications are set in the Printer Properties dialog and saved with the model. Otherwise, you must reset your paper size in the Page Setup Editor in r8.x.

### Deleting subject areas during the upgrade process

The r8.x upgrade process includes the option to delete the Main Subject Area. When the upgrade process completes, the model opens in r8.x. If this model contains other subject areas that you want to delete, then for better model performance we recommend that you first save the open model and close it. Reopen the model and then delete any subject areas that you want to remove.

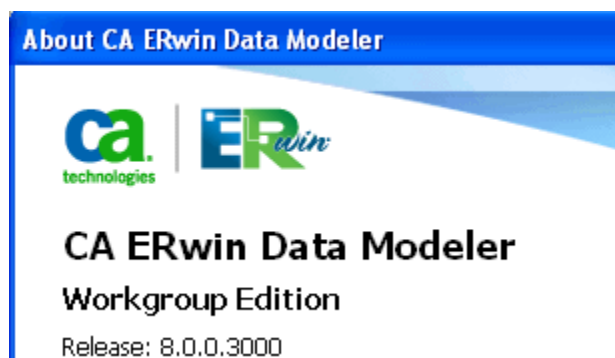
### Diagram layout

Due to the changes in the diagram layout technology, the conversion of models from r7.x to r8.x may not preserve the exact layout used in r7.x.



## Release Numbering Scheme in CA ERwin Data Modeler

Effective with r8, the release of this product is displayed in the *About CA ERwin Data Modeler* dialog using the following release numbering scheme:



The first number always indicates the main (GA) release, the second number indicates the service pack number of the main release, the third number indicates the patch number of the main release or service pack (or both), and the fourth number indicates the build number of the product. For example, the preceding illustration indicates that the product level is r8, Build 3000. A release of 8.1.2.1500 in this dialog would indicate r8 Service Pack 1, Patch Release 2, Build 1500.

If any documentation is updated after a main release, the cover page of the documentation always includes an edition number to indicate the release for which it was updated (see [Release Numbers](#) (see page 49) for more information).

## Operating System Support

CA ERwin Data Modeler requires that you have one of the following operating systems installed:

- Microsoft Windows Vista
- Microsoft Windows 2008 Server
- Microsoft Windows 2003 Server
- Microsoft Windows XP (through SP3)
- Microsoft Windows 7

**Note:** CA ERwin Data Modeler support for Microsoft Windows 7 was certified on a 32-bit machine only. CA ERwin Data Modeler is a 32-bit application. You may experience problems running CA ERwin Data Modeler on a 64-bit machine unless you have the proper 32-bit drivers installed.

### Administrative Privileges Required for Installation

Because the installation process for CA ERwin Data Modeler writes to the registry and system folders, the person installing, upgrading, or removing CA ERwin Data Modeler must have Administrative privileges. If you run an install without Administrative privileges, all files may not be installed or upgraded, and users will encounter problems when running the software.

## System Requirements

The following requirements must be met or exceeded for CA ERwin Data Modeler to install and run correctly:

- Microsoft-based workstation, Intel Pentium 4 or equivalent
- 2 GB available hard drive space
- 2 GB RAM minimum; more is recommended for large models
- DVD-readable device (only if installing from DVD media)

**Note:** The minimum screen resolution supported is 1024 x 768. If your screen resolution is less than the minimum supported, some portions of the screen will not be visible.

## Supported Target Server Databases

The following target server databases are supported in CA ERwin Data Modeler r8.1:

- DB2 for i (5.x/6.x)
- DB2/LUW (9.1, 9.5, 9.7)
- DB2/zOS (8.1, 9.1)
- Informix (9.x/10.x/11.x)
- MySQL (5.x/6.x)
- ODBC/Generic (2.0, 3.0)
- Oracle (10x/11x)
- Progress (9.x/10.x)
- SAS (stabilized support)
- SQL Server (2000, 2005, 2008)
- Sybase (12.5/15)
- Sybase IQ (12.x)
- Teradata (2.6, 12, 13)

## CA ERwin Data Modeler Workgroup Edition Requirements

If you plan to use CA ERwin Data Modeler Workgroup Edition, review the following requirements to ensure your workgroup environment is set up properly.

## Administrator Server System Requirements

Verify that the machine where the software (the administrator's workstation or file server for administrative files) is installed meets the minimum requirements summarized below. The disk space required for the administrative files used to create and manage the database is separate from the disk space required to accommodate models on the server where the database is located. Greater CPU speed, and more RAM and disk space result in better performance.

**Important!** In addition to being licensed for the Workgroup Edition, the administrator's workstation must also contain the Initializer license in order to perform administrative tasks on the mart.

**Note:** While not recommended, the software can be installed on the same machine as the database server.

- Intel Pentium 4 or equivalent supported by the Host DBMS
- 2 GB disk space
- 2 GB RAM (more recommended for large models)
- DVD-readable device (only if installing from DVD media)

## DBMS Requirements

Before you install CA ERwin Data Modeler r8.1 to use in a workgroup environment, ensure you are using a supported DBMS as your host server. r8.1 supports the following host DBMSs:

- Oracle 10g/11g
- SQL Server 2000/2005/2008
- Sybase 12.x/15

To create, update, or delete a mart you must have the following database rights:

- For Microsoft SQL Server 2000/2005/2008, you must be the database owner (dbo).

**Notes:**

- The dbo is no longer required to also have the sysadmin role.
- The SQL Server 2005/2008 TRUSTWORTHY database property is no longer required for the mart. After you install this product, you can optionally reset this property to OFF.
- For Oracle, you must be the database schema owner and have the DBA role.

Before you can install the mart on the server, you must verify that the DBMS environment is prepared for the installation, and that the server system requirements meet at least the minimum specifications. The administrator of the DBMS must also set up user permissions for the mart.

**Note:** The dbo role for Microsoft SQL Server or Sybase is necessary only during the installation or upgrade. You can strip the installer of the dbo role after the installation or upgrade is complete.

For more information about preparing the DBMS environment, see the CA ERwin Data Modeler Workgroup Edition *Implementation Guide*.

## Client Workstation Requirements

You must install CA ERwin Data Modeler r8.1 on each client workstation that needs to access models in the mart, and each client workstation must have access to the DBMS on which the mart is located. It is recommended that client workstations have at least 2 GB of RAM.

CA ERwin Data Modeler Workgroup Edition r8.1 also supports the following client products:

- CA ERwin Data Modeler Navigator Edition r8.1
- CA ERwin Data Model Validator r8.1

**Note:** In a workgroup environment, CA ERwin Data Modeler users can only connect to a mart initialized with the same serial number identifier that the user has licensed on their local machine.

## CA ERwin Data Modeler Navigator Edition Requirements

If you plan to use CA ERwin Data Modeler Navigator Edition, review the following requirements to ensure your environment is set up properly.

### Support for CA ERwin Data Modeler Workgroup Edition

CA ERwin Data Modeler Navigator Edition r8.1 is enabled for use with a mart-enabled version of CA ERwin Data Modeler (Workgroup Edition). Consult with your mart administrator for a GUEST user permission to access models in CA ERwin Data Modeler Workgroup Edition.

You must use a supported DBMS as your host server. The following host DBMSs are supported by r8.1:

- Oracle 10x/11x
- SQL Server 2000/2005/2008
- Sybase 12.5/15

# Chapter 4: Installation Considerations for CA ERwin Data Modeler Workgroup Edition

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Review the following installation considerations before installing the product. For more information about the installation process for a workgroup environment, see the CA ERwin Data Modeler Workgroup Edition *Implementation Guide*.

This section contains the following topics:

[Microsoft SQL Server 2005 Permissions](#) (see page 31)

[Specify Use of Foreign Characters With Microsoft SQL Server 2005](#) (see page 32)

[Specify Use of Foreign Characters With Microsoft SQL Server 2000](#) (see page 32)

[Client Version Checking](#) (see page 33)

## Microsoft SQL Server 2005 Permissions

For SQL Server 2000, you only need to have *public* assigned to save to the mart. However, when the repository is on a SQL Server 2005 instance, you need to have the *bulkadmin* permission designated as well. The ability to do bulk inserts (which was permitted by public, previously) is no longer part of the public permission. You must explicitly define this permission or when you attempt to save a model to a new mart instance created using a SQL Server 2005 database, an error "You do not have permission to use the bulk load statement." is returned.

## Specify Use of Foreign Characters With Microsoft SQL Server 2005

For Microsoft SQL Server 2005/2008, it is necessary to modify your registry settings to have certain foreign language characters in your models recognized.

### To specify the use of foreign characters with Microsoft SQL Server 2005/2008

1. Click Run on the Start menu.
2. Enter *regedit*.  
The Registry Editor opens.
3. Verify or add the following registry entry:  
[HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\DB-Lib]  
"AutoAnsiToOem"="ON"  
"UseIntlSettings"="ON"
4. Click File, Exit.  
Your configuration is set to recognize foreign language characters in your models.

## Specify Use of Foreign Characters With Microsoft SQL Server 2000

For Microsoft SQL Server 2000, it is necessary to select specific settings in the Client Network Utility to have certain foreign language characters in your models recognized.

### To specify the use of foreign characters with Microsoft SQL Server 2000

1. Click Programs, Microsoft SQL Server, Client Network Utility on the Start menu.  
The SQL Server Client Network Utility dialog opens.
2. Select the following check boxes on the DB-Library Options tab:
  - Automatic ANSI to OEM conversion
  - Use international settings
3. Click OK.  
Your configuration is set to recognize foreign language characters in your models.



## Client Version Checking

When you connect a client such as CA ERwin Data Modeler to a mart database, the software checks to verify that the client version is compatible with the current version of the mart database. Even though there is a version dependency, the service pack version can vary.



# Chapter 5: Installation Considerations for CA ERwin Data Modeler Navigator Edition

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Review the following installation considerations before installing the product. See the CA ERwin Data Modeler Navigator Edition *User Guide* for more information about the installation process.

## Silent Install

This product does not provide an unattended or silent install.

## Client Version Checking

When you connect the CA ERwin Data Modeler Navigator Edition client to a mart database, the software checks to verify that the client version is compatible with the current version of the mart database. There is a version dependency, however the Service Pack version can vary.



# Chapter 6: General Considerations for Using CA ERwin Data Modeler Workgroup Edition

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The following sections contain general information you should know before using CA ERwin Data Modeler in a workgroup environment.

This section contains the following topics:

[Conversion Information](#) (see page 37)

[Conversion Preparation Recommendations](#) (see page 37)

[Conversion of Custom Security Profiles](#) (see page 38)

[Conversion Notes for Oracle, Microsoft SQL Server, and Sybase](#) (see page 38)

[r8 Model Conversion and Complete Compare Differences](#) (see page 38)

[Model Display in the Difference Reconciliation Dialog](#) (see page 39)

[Uninstalling CA ERwin Data Modeler Workgroup Edition](#) (see page 39)

## Conversion Information

CA ERwin Data Modeler r8.1 will be installed in new folders on your hard drive, however, both r7.x (CA ERwin Model Manager) and r8.1 can exist on the same machine.

**Note:** You must be at r7.x or later in order to convert existing models to r8.1. Additionally, before you can use the Submodel Manager to work with models in the mart, you must first upgrade each r7.x model to r8.1. For more information about converting from r7.x to r8.1, see the CA ERwin Data Modeler Workgroup Edition *Implementation Guide*.

## Conversion Preparation Recommendations

Before you convert, we recommend the following:

1. Verify that all models to be converted were saved and opened in your current database.
2. Close all open sessions.
3. Delete any unnecessary models. This reduces the conversion time and the amount of space used by the mart database during the conversion.

A complete CA ERwin Data Modeler Workgroup Edition Pre-Conversion checklist is available on the [CA ERwin Data Modeler](#) technical support page. Before attempting to convert your mart, be sure to read this document. If you need assistance during the conversion process, you can open a support issue from the support link.

## Conversion of Custom Security Profiles

Enhancements to the CA ERwin Data Modeler r8 metamodel may have an effect on custom security profiles that you created in CA ERwin Model Manager r7.x. If you defined custom security profiles or modified existing ones in the previous release, review your permissions to ensure that your security requirements are met in CA ERwin Data Modeler r8.

## Conversion Notes for Oracle, Microsoft SQL Server, and Sybase

Review the following information before you attempt a CA ERwin Data Modeler r7.x to r8 database conversion.

### For Oracle r7.x databases:

- Make sure you have at least as many rollback segments as used by your r7.x database. We strongly recommend that you follow the guidelines in the CA ERwin Data Modeler Workgroup Edition *Administration Guide*.
- Before you start a conversion, it is strongly recommended that you shrink rollback segments. The following is a sample SQL statement (for each segment):

```
ALTER ROLLBACK SEGMENT <RBS_NAME> SHRINK;
```

It is safe to randomly shrink rollback segments while the conversion is running, but you must be logged in as the DBA.

### For Microsoft SQL Server and Sybase r7.x databases:

- tempdb should be as big as the mart DB size.

## r8 Model Conversion and Complete Compare Differences

Unlike previous conversions to new releases, starting with r8, it is no longer valid to do a round-trip through another version of the product and use Complete Compare to compare the differences between the models. Due to the new changes and features in r8, the models will be different; use reports to detect and work with model differences.

## Model Display in the Difference Reconciliation Dialog

In a workgroup modeling environment, two users may check out and make changes to the same model. The first user may make changes to the model and save the changes to the mart. When the second modeler makes changes and saves them to the mart, the Difference Reconciliation dialog is displayed. You use features in this dialog to view the differences on the object level, the more detailed property level, or search the text of the comparison lists.

**Note:** In the Difference Reconciliation dialog, the model in the left pane is the current model that you are checking in to the mart. The model in the right pane is the version of the model already in the mart.

## Uninstalling CA ERwin Data Modeler Workgroup Edition

You can use the Windows uninstall utility to uninstall CA ERwin Data Modeler. However, when you uninstall CA ERwin Data Modeler in a workgroup environment, the mart database remains intact. To remove the database from your computer, delete the mart database first, and then uninstall CA ERwin Data Modeler.





# Chapter 7: General Considerations for Using CA ERwin Data Modeler Navigator Edition

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The following sections contain general information you should know before using CA ERwin Data Modeler Navigator Edition.

## Model Display in the Difference Reconciliation Dialog

In a workgroup modeling environment, two users may check out and make changes to the same model. The first user may make changes to the model and save the changes to the mart. When the second modeler makes changes and saves them to the mart, the Difference Reconciliation dialog is displayed. You use features in this dialog to view the differences on the object level, the more detailed property level, or search the text of the comparison lists.

**Note:** In the Difference Reconciliation dialog, the model in the left pane is the current model that you are checking in to the mart. The model in the right pane is the version of the model already in the mart.

## Help Files

The context sensitive online help in CA ERwin Data Modeler Navigator Edition is identical to the online help in CA ERwin Data Modeler. This means that the online help may discuss capabilities such as saving a model that is not possible in the CA ERwin Data Modeler Navigator Edition product.



# Chapter 8: Known Issues

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This section contains known issues you should review before using CA ERwin Data Modeler r8.

This section contains the following topics:

[SQL 1105 Error](#) (see page 43)

[Model and Version Name Limit on Oracle](#) (see page 43)

[Editing UDP Values in the Bulk Editor](#) (see page 44)

[Reverse-Engineer from Database](#) (see page 44)

[Models of Previous Versions Do Not Open Through CA ERwin Data Modeler r8 API](#) (see page 44)

[CA ERwin Data Modeler r8 and Crystal Reports Shell Installation](#) (see page 45)

[CA ERwin Data Modeler r8 Silent Installation](#) (see page 45)

[Upgrading to r8.1 on Windows Server 2003](#) (see page 45)

## SQL 1105 Error

When you are upgrading to CA ERwin Data Modeler r8 on Microsoft SQL in a workgroup environment, during the mart conversion process, you may get the message "Sql 1105" if you run out of free hard disk space during the process.

Stop the conversion process, and either free or add hard disk space. You should delete the already created r8 tables and then re-attempt the conversion.

## Model and Version Name Limit on Oracle

In a workgroup environment, when you save a model to an Oracle mart, the model name must be less than 130 characters. If you exceed the 130 character limit, the model will not save. Because the version name is derived from the model name (for example, <ModelName>:<version number> by <UserName> on <VersionCreateDate>), you should use model names considerably less than 130 characters in length to avoid problems with saving a model version.

## Editing UDP Values in the Bulk Editor

You can only edit the UDP values of UDPs that use either the *String* or *Number* data type in the Bulk Editor. Bulk editing of UDP values that use either the *Date* or *List* data type is not currently supported. Editing of UDP values for UDPs that use *Date* or *List* is only supported using the *User Defined Properties - Logical* or *User Defined Properties - Physical* dialogs. These dialogs are accessed by selecting User Defined Properties from the Model menu.

## Reverse-Engineer from Database

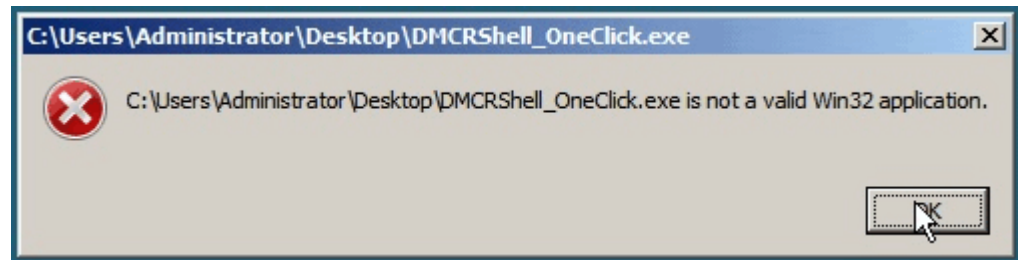
There is a known limitation in CA ERwin Data Modeler r8 when you reverse-engineer from a database and select the *System Objects* option in the Reverse Engineer – Set Options dialog. You may exceed the memory that CA ERwin Data Modeler requires to operate, which can cause the application to end. This is because the database you are attempting to reverse-engineer is too large (it contains very large amount of objects such as tables, columns, and views, and is directly related to the amount of data stored). To avoid this issue, we recommend using only the reverse-engineer options required - any objects that you do not need to reverse-engineer should not be selected for this process, and not selecting the *System Objects* option will help to alleviate this issue.

## Models of Previous Versions Do Not Open Through CA ERwin Data Modeler r8 API

There is a known issue in CA ERwin Data Modeler r8. The models that you have created in previous versions of CA ERwin Data Modeler do not open through the CA ERwin Data Modeler r8 API.

## CA ERwin Data Modeler r8 and Crystal Reports Shell Installation

If the operating system of the machine on which you want to install CA ERwin Data Modeler r8 and Crystal Reports is either Microsoft Windows Server 2008 or Microsoft Windows Server 2008 SP1, you may encounter the following error:



If you receive this error, the installation will not continue. You can perform one of the following to resolve this problem:

- Upgrade to Microsoft Windows Server 2008 SP2
- Install CA ERwin Data Modeler r8 and Crystal Reports Shell separately by downloading each application's individual installation program
- Install CA ERwin Data Modeler r8 and then run the Crystal Reports installation from the CA ERwin Data Modeler r8 DVD

## CA ERwin Data Modeler r8 Silent Installation

CA ERwin Data Modeler r8 requires .NET 3.5 to be installed on your system. If you do not have it installed, the CA ERwin Data Modeler installation will attempt to install it. In this case, we advise against using a silent install.

## Upgrading to r8.1 on Windows Server 2003

While upgrading CA ERwin Data Modeler r8.1 from r8 or r8.0.01 on the Windows Server 2003 platform, you may receive a digital signature policy error during the r8.1 installation. This is an operating system error that can be resolved by applying the update for Windows Server 2003 ([KB925336](#)) from Microsoft.



# Chapter 9: Documentation

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This section contains information about current product documentation.

This section contains the following topics:

[Documentation Formats and Deliverables](#) (see page 47)

[Technical Documentation Series](#) (see page 48)

[Release Numbers](#) (see page 49)

## Documentation Formats and Deliverables

The following changes have been made to CA ERwin Data Modeler documentation:

- In the earlier versions of CA ERwin Data Modeler, installing documentation was optional. Now, when you install CA ERwin Data Modeler, documentation is installed by default.
- The following online help systems are now available only through the CA ERwin Data Modeler bookshelf:
  - Add-in Manager Online Help
  - Datatype Standards Online Help
  - ERwin Online Help
  - Naming Standards Online Help

**Note:** In the previous version, these online help systems were available in the bookshelf and in the `\CA\ERwin Data Modeler r8\Doc` folder.

### Deliverables Included

- The Bookshelf provided with CA ERwin Data Modeler, which is installed by default, includes documentation for CA ERwin Data Modeler Navigator Edition, and CA ERwin Data Model Validator. You can open the Bookshelf in a web browser from the CA ERwin Data Modeler Start menu. The documentation provided on the Bookshelf includes:

| Deliverable Name                         | Format Provided |
|--|-----------------|
| Add-In Manager Online Help               | HTML            |
| Administration Guide (Workgroup Edition) | HTML and PDF    |
| API Reference Guide                      | HTML and PDF    |
| Datatype Standards Online Help           | HTML            |

| Deliverable Name                            | Format Provided |
|---|-----------------|
| Editing Forward Engineering Templates       | HTML and PDF    |
| Implementation Guide                        | HTML and PDF    |
| Implementation Guide (Data Model Validator) | HTML and PDF    |
| Implementation Guide (Workgroup Edition)    | HTML and PDF    |
| Metamodel Reference                         | HTML            |
| Methods Guide                               | HTML and PDF    |
| Naming Standards Online Help                | HTML            |
| ODBC Reporting Guide                        | HTML and PDF    |
| CA ERwin Data Modeler Online Help           | HTML            |
| Release Notes                               | HTML and PDF    |
| Release Notes (Data Model Validator)        | HTML and PDF    |
| Template Language and Macro Reference       | PDF             |
| User Guide (Navigator Edition)              | HTML and PDF    |

**Note:** For more information about the CA ERwin Data Modeler editions, see [CA ERwin Data Modeler Editions](#) (see page 9).

## Technical Documentation Series

The Template Language and Macro Reference (*Template Lang and Macro Ref.PDF*) technical document is provided on the Bookshelf and can also be accessed from the Tech Docs menu item on the CA ERwin Data Modeler Start menu.

The CA ERwin Data Modeler metamodel reference and overview technical documents are provided on the CA ERwin Data Modeler Metamodel Reference Bookshelf. This Bookshelf is accessible from the Tech Docs menu item on the CA ERwin Data Modeler Start menu. It contains an overview of the metamodel (*ERwin Metamodel Overview.PDF*) and the metamodel object and property descriptions are provided in HTML format (*Metamodel Reference*).

To view PDF files, you must download and install the Adobe Reader from the Adobe website if it is not already installed on your computer.



## Release Numbers

The release number on the title page of a document might not correspond to the current product release number; however, all documentation delivered with the product, regardless of release number on the title page, will support your use of the current product release. The release number changes only when a significant portion of a document changes to support a new or updated product release. For example, a document for r8 may still be valid for r8.1. Documentation bookshelves always reflect the current product release number.

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.