

# CA ERwin® Model Manager

CA ERWIN MODEL MANAGER (CA ERWIN MM) PROVIDES A SCALABLE, MULTI-USER MODELING ENVIRONMENT THAT FACILITATES EFFECTIVE MODELER COLLABORATION AND SERVES AS THE INTEGRATION HUB FOR TWO TIME-PROVEN MODELING TOOLS, CA ERWIN® DATA MODELER (CA ERWIN DM) AND CA ERWIN® PROCESS MODELER (CA ERWIN PM). TO THIS END, CA ERWIN MM FOSTERS TEAMWORK AND COLLABORATION IN A MANAGED MODELING ENVIRONMENT AND BRINGS ABOUT HIGHER LEVELS OF CONSISTENCY, QUALITY AND PRODUCTIVITY.

## Overview

Managing data and business process models in a multi-user environment is fraught with complexities that often result in significant overhead and organizational risk. These challenges put a premium on the policies and procedures that improve the management, analysis and design of data models throughout their lifecycles — and wring risks and costs out of these processes.

## Benefits

Leveraging CA ERwin MM to coordinate analysis and design initiatives helps to streamline the management of data and process models across multiple teams or users. By enabling automated, auditable processes CA ERwin MM increases efficiencies and reduces costs, while improving communication, collaboration, standardization and accountability.

## The CA Advantage

CA ERwin MM offers robust, collaborative model management capabilities that scale to support both small project teams and enterprise-wide modeling initiatives — and promote metadata reuse with minimal impact on modeling autonomy. And as a core component of the CA ERwin Modeling family, CA ERwin MM is an integral resource you can leverage to unify and simplify the management of your information infrastructure.

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## CA ERwin Model Manager Facilitates Collaboration and Control

### Scaling Modeling Efforts for Maximum Efficiency and Faster Time-to-Market

Sharing and managing data and business process models in a collaborative multi-user environment can present significant risk and overhead. Because effectively managing the analysis and design of data is a key to success — and also represents a common point of failure — you need to foster an enterprise-wide culture of collaborative modeling that enhances productivity and facilitates compliance and accountability.

However, manually coordinating and sharing models and related objects across the enterprise can be challenging — and quite hazardous if not properly managed. And as models evolve to the enterprise level, and modeling teams grow in size and become increasingly decentralized, the resources required to coordinate activities can escalate at an exponential rate. To achieve repeatable success and increase the quality and efficiency of data model design, you must automate the collaboration process, share work products, actively promote standards and maintain an effective audit trail.

### Increasing Modeler Productivity Through Managed Collaboration

The solutions and toolsets that support these activities must be scalable and integrate across the enterprise, while simultaneously providing sustainable value to individual modelers, workgroup leaders and their managers. Yet, without a common, centralized model repository that enforces organizational standards and provides reusable content, modelers are often left to their own devices — not only wasting valuable time and resources, but creating models that fail to conform to corporate standards. What's more, without comprehensive collaboration, versioning and audit capabilities, modelers may overwrite one another's changes or lack awareness of changes made by other teams, resulting in quality control issues, limited accountability and a loss of productivity.

CA ERwin MM addresses the complexities associated with resource sharing through an integrated, multi-user environment that provides visibility into intricate model structures and enables coordinated, large-scale modeling. It drives these capabilities through such features as version control, access control, managed collaboration and enhanced analysis capabilities — which work together to deliver a secure, managed environment that automates auditing and simplifies adherence to compliance requirements. In addition, CA ERwin MM seamlessly integrates into your existing environment with hosting compatibility on Oracle, Microsoft SQL Server or Sybase ASE database management system (DBMS).

## Key Capabilities of CA ERwin MM

CA ERwin MM includes a host of features that work in concert to promote collaboration and accountability — and improve the efficiency and effectiveness of your organization’s data modeling processes. Key capabilities include:

- Modeler collaboration services
- Model change management
- Model and repository administration

### MODELER COLLABORATION SERVICES

Because modelers often work on multiple projects simultaneously, changes must be managed through parallel iterations within overlapping periods of time. CA ERwin MM enables cross-team collaboration with little or no impact on stand-alone modeler capabilities and efficiencies — without negatively affecting the quality or integrity of the work produced. Specific collaboration capabilities include:

**CONCURRENT MODEL ACCESS** Features optional model locking, which allows multiple users to concurrently work on a given model without compromising the integration and integrity of their parallel efforts.

**MULTI-USER COLLISION RESOLUTION CAPABILITIES** Identifies conflicting model changes, automatically alerts users when they occur and guides resolution activities, maximizing team productivity and ensuring ongoing model integrity.

**INDEPENDENT MODEL MERGE** Facilitates the automatic merging of separate and distinct models for collaboration purposes through a merge manager that leverages the complete compare feature in CA ERwin DM to identify objects to be included in merged models.

### MODEL CHANGE MANAGEMENT

Controlling and tracking changes in a data or process model is critical to ensuring the integrity of the model throughout its lifecycle. CA ERwin MM increases the ease with which users can identify and address changes from past modeling sessions, helping you better maintain business alignment, consistently deliver high quality standards and simplify the process of meeting audit and compliance requirements. Modeler collaboration functionality includes:

**MODEL CHANGE IMPACT ANALYSIS** Utilizes the Generalized Data Modeling (GDM) and complete compare features of CA ERwin DM to provide 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.

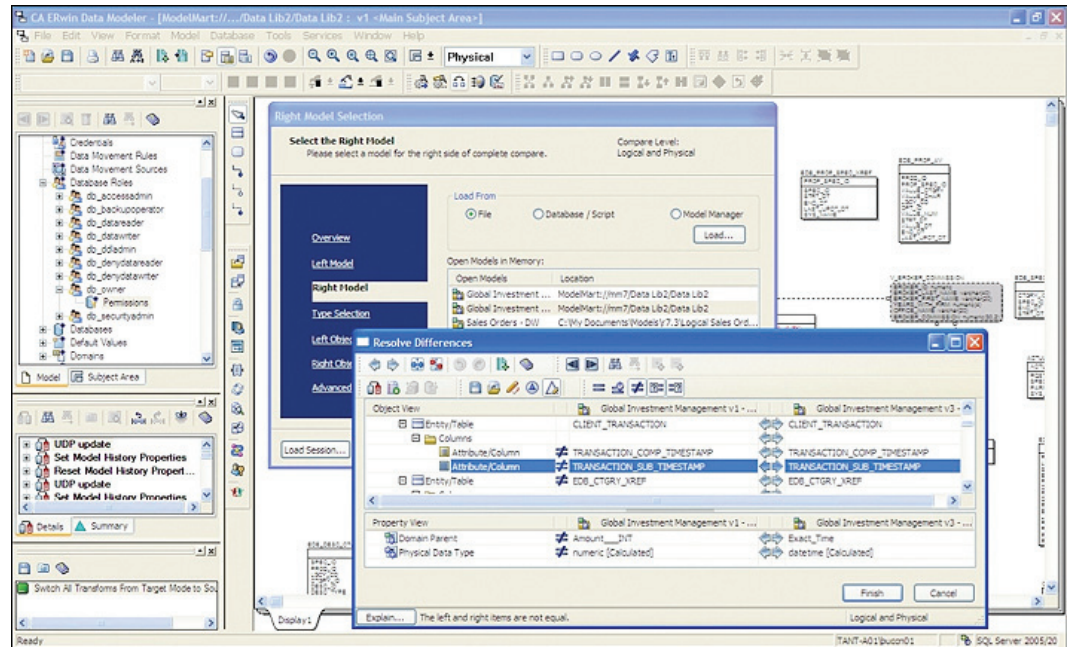
**VERSION MANAGEMENT** Lets modelers store, access and analyze the history of a model and the changes made to it, lockdown specific versions, run difference reports between versions and seamlessly roll back models to previous states as required.

**UNDO/REDO ROLLBACK CAPABILITY** Provides change and version management functionality with the ability to undo or rollback changes in an individual session, or throughout the history of the model.

FIGURE A

Performing impact analysis with the help of CA ERwin Data Modeler's complete compare facility allows modelers to review, accept and/or undo changes prior to committing them to the modeling repository.

## IMPACT ANALYSIS



## MODEL AND REPOSITORY ADMINISTRATION

A simple and secure model administration interface promotes management strategies that minimize administrative overhead, drive productivity and lower total cost of ownership (TCO) — while enhancing the reliability of your models and their associated histories. CA ERwin MM allows you to manage the model repository from within the application, enabling the development of a standardized, profile-based user interface. Repository administration can be centralized or distributed based on the size, dynamics and requirements of the specific modeling group in your organization. Specific functionality includes:

**FLEXIBLE REPOSITORY ACCESS CONTROL** Leverages your choice of system or database management system (DBMS) authentication to provide administrators with simple, yet powerful, access management capabilities that enable profile-based access control and visibility into model objects at multiple levels of granularity.

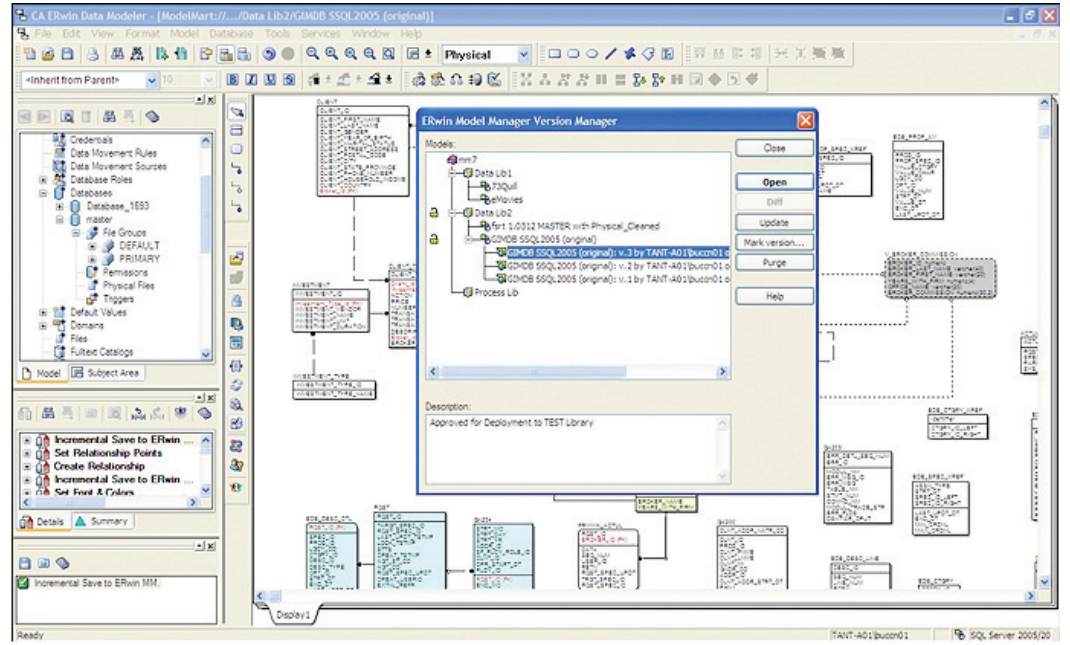
**LIBRARY MANAGEMENT** Facilitates the partitioning of the model repository into libraries that group and organize your models for managed access to their contents, allowing you to isolate projects, their lifecycle statuses, the work of organizational units or such implementation differences as those among development, testing and production environments.

**SUB-MODELING AND SUBJECT AREA 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. In addition, users can logically partition models into subject areas, manage access to the models through these partitions, check out individual subject areas or sub-models and apply access profiles at the subject area level.

FIGURE B

CA ERwin Model Manager offers the ability to manage multiple versions of your data models.

## VERSION MANAGEMENT



## Supported Environments

CA ERwin MM supports the following database servers:

- Microsoft SQL Server
- Oracle
- Sybase ASE

CA ERwin MM supports the following modeling clients:

- Microsoft Windows XP
- Microsoft Windows Vista
- Microsoft Windows Server 2003

## Enabling Collaboration for Greater Consistency and Quality

CA ERwin Model Manager provides robust, collaborative model management capabilities that support enterprise-wide modeling initiatives — without requiring a significant investment in resources to administer and integrate the model into your organization’s information infrastructure. To this end, CA ERwin MM helps you:

- Enhance collaboration
- Increase productivity
- Improve model quality
- Enable standardized processes

What’s more, your modelers can leverage the gains in collaboration, standardization, ease of reuse and productivity into a standardized, comprehensive organizational communications network that does not negatively impact their modeling autonomy.

FIGURE C

CA ERwin Model Manager includes functionality that helps you better manage the change, versioning and partitioning of your data models.

FEATURES AND BENEFITS OF CA ERWIN MODEL MANAGER

FEATURES	CAPABILITIES	BENEFITS
<ul style="list-style-type: none"> <li>• Model change impact analysis</li> </ul>	<ul style="list-style-type: none"> <li>• Provides a change summary showing the impact of all changes and the history of changed model objects</li> <li>• Allows you to select the changes that apply to a particular model repository</li> </ul>	<ul style="list-style-type: none"> <li>• Helps modelers understand the impact of change</li> <li>• Identifies conflicts before models are committed to the repository</li> </ul>
<ul style="list-style-type: none"> <li>• Version management</li> </ul>	<ul style="list-style-type: none"> <li>• Lets modelers store, access and analyze the history of a model and the changes made to it</li> <li>• Enables you to lockdown versions, run difference reports between versions and roll back models, as required</li> </ul>	<ul style="list-style-type: none"> <li>• Simplifies the process of tracking, managing and communicating the impact of change across the organization</li> </ul>
<ul style="list-style-type: none"> <li>• Undo/redo rollback capability</li> </ul>	<ul style="list-style-type: none"> <li>• Allows you to undo changes to an individual session and throughout the history of the model</li> </ul>	<ul style="list-style-type: none"> <li>• Streamlines the process of reverting back to previous versions</li> </ul>
<ul style="list-style-type: none"> <li>• Flexible repository access control</li> </ul>	<ul style="list-style-type: none"> <li>• Leverages DBMS or system-based authentication</li> <li>• Offers profile-based administrative access controls</li> </ul>	<ul style="list-style-type: none"> <li>• Enables greater management flexibility</li> </ul>
<ul style="list-style-type: none"> <li>• Library management</li> </ul>	<ul style="list-style-type: none"> <li>• Allows you to partition model repositories into libraries</li> </ul>	<ul style="list-style-type: none"> <li>• Improves model management and enhances artifact use</li> </ul>
<ul style="list-style-type: none"> <li>• Sub-modeling and subject area support</li> </ul>	<ul style="list-style-type: none"> <li>• Enables you to logically partition CA ERwin Data Modeler into subject areas</li> <li>• Helps modelers examine individual subject areas, sub-models and access profiles</li> </ul>	<ul style="list-style-type: none"> <li>• Enhances the focus of modelers and their efforts</li> <li>• Reduces the system resources needed to upload and download models during check-in and check-out</li> </ul>

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## The CA Advantage

CA ERwin Model Manager is part of a focused, best-of-breed modeling and database design solution providing a comprehensive, enterprise-focused toolset that seamlessly integrates across products to deliver exponential value to users throughout your organization. In addition, CA ERwin MM understands the intricacies of data and process models, providing superior management and collaborative capabilities well beyond those offered by generic source control tools.

### **The Enterprise IT Management (EITM) Vision**

As a key component in the CA Database Management (CA DBM) solution, as well as the CA ERwin Modeling family, CA ERwin MM delivers the integral functionality that enables the core competencies you need to foster collaboration, communication and standardization across your data modeling processes. And by tightly integrating the control and management of operations, security and storage, CA ERwin MM serves as an important part of CA's Enterprise IT Management (EITM) vision. This philosophy seeks to align IT and business processes to help you unify and simplify the management of your information infrastructure.

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## Next Steps

For more information about the ways CA ERwin MM can enable a streamlined, manageable multi-user modeling environment — while enhancing communication, collaboration, standardization and productivity — visit [ca.com/contact/rmdm](https://ca.com/contact/rmdm).

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To learn more, and see how CA ERwin Model Manager can help your organization to unify and simplify IT management for better business results, visit [ca.com/modeling](https://ca.com/modeling).

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