

Oracle® CADView-3D

Translator's User's Guide

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Oracle CADView-3D Translator's User's Guide, Release 12

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Preface

Intended Audience

Welcome to Release 12 of the *Oracle CADView-3D Translator's User's Guide*.

This manual is intended for users and managers who work with 3D models. Basic Windows computer system knowledge is assumed, as well as a thorough knowledge of your computer aided design (CAD) 3D modeling system.

Important: The license cost of CADView-3D includes only Translators for the VRML v2 and STL open-source formats. Translators for other formats and CAD systems may be available through Oracle partners or third-party independent software vendors.

See Related Information Sources on page viii for more Oracle Applications product information.

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Structure

- 1 Oracle CADView-3D Translators
- 2 Optimizing and Publishing Projects

Related Information Sources

This manual is intended to be used in conjunction with the other CADView-3D manuals. The following documents are also available for the CADView-3D product suite:

- Oracle CADView-3D DeskTop User's Guide Describes how to install the CADView-3D DeskTop Web browser plug-in and use it to navigate streaming 3D models and collaborate with other users in real-time.
- Oracle CADView-3D Studio User's Guide Describes how to install CADView-3D Studio and use it to optimize and publish 3D models to CADView-3D Servers.

Integration Repository

The Oracle Integration Repository is a compilation of information about the service endpoints exposed by the Oracle E-Business Suite of applications. It provides a complete catalog of Oracle E-Business Suite's business service interfaces. The tool lets users easily discover and deploy the appropriate business service interface for integration with any system, application, or business partner.

The Oracle Integration Repository is shipped as part of the E-Business Suite. As your instance is patched, the repository is automatically updated with content appropriate for the precise revisions of interfaces in your environment.

Do Not Use Database Tools to Modify Oracle Applications Data

Oracle STRONGLY RECOMMENDS that you never use SQL*Plus, Oracle Data Browser, database triggers, or any other tool to modify Oracle Applications data unless otherwise instructed.

Oracle provides powerful tools you can use to create, store, change, retrieve, and maintain information in an Oracle database. But if you use Oracle tools such as SQL*Plus to modify Oracle Applications data, you risk destroying the integrity of your data and you lose the ability to audit changes to your data.

Because Oracle Applications tables are interrelated, any change you make using an Oracle Applications form can update many tables at once. But when you modify Oracle Applications data using anything other than Oracle Applications, you may change a row in one table without making corresponding changes in related tables. If your tables get out of synchronization with each other, you risk retrieving erroneous information and you risk unpredictable results throughout Oracle Applications.

When you use Oracle Applications to modify your data, Oracle Applications automatically checks that your changes are valid. Oracle Applications also keeps track of who changes information. If you enter information into database tables using database tools, you may store invalid information. You also lose the ability to track who has changed your information because SQL*Plus and other database tools do not keep a record of changes.

Oracle CADView-3D Translators

Conventions

Conventions The following conventions are used in this manual:

Convention	Description
<>	Angle brackets enclose user-defined data in filenames and paths as in "C:\CADView-3D\Translators\" where is the name of the Oracle Home directory defined in your system.
boldface text	Boldface type in text indicates emphasis on a particular word or phrase.
Boldface Text With Initial Caps	Boldface type with initial capital letters indicates a menu item or text in title bar of user interface.

CADView-3D Translator Support

Caution: As an included component of the base license for CADView-3D, Oracle supplies only these CADView-3D Translators:

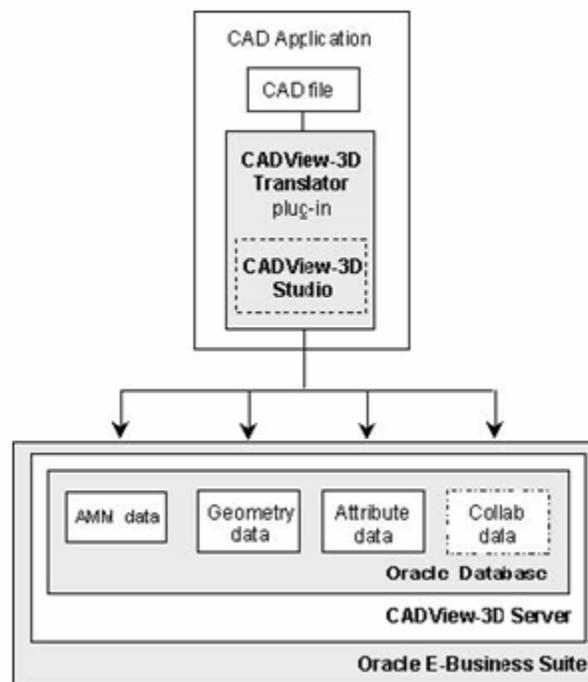
- STL: All versions
- VRML: v2

Note: The list of CAD authoring tools and versions supported is subject to change at Oracle's sole discretion. Translators for other formats and CAD systems may be available through Oracle partners or third-party independent software vendors.

System Overview

This User's Guide describes the use of CADView-3D Translators to convert computer-aided-design (CAD) 3D model files to the CADView-3D format for viewing over the Web with the CADView-3D DeskTop client.

CADView-3D Translators, along with CADView-3D Studio, convert native CAD source files into a set of output files that are published to a CADView-3D Server with an Oracle database. These files are used to render the model in the CADView-3D DeskTop viewer when a user clicks the designated web link.

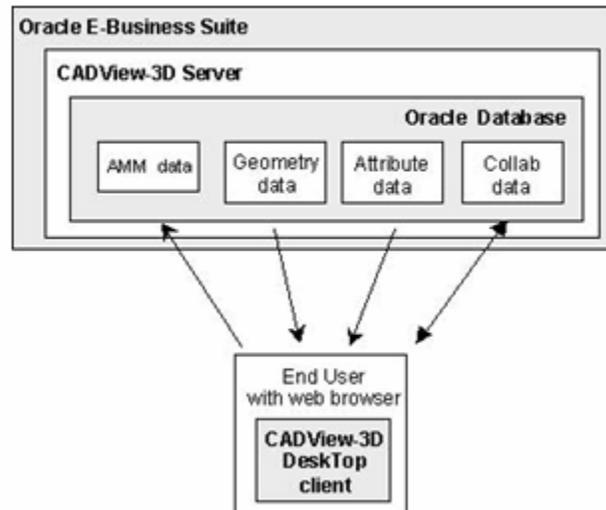


CADView-3D Servers manage streaming three types of data for each 3D model:

- Geometry data (extracted from source CAD model)
- Attribute data (extracted from source CAD model)

- Collaboration data (stored by users of CADView-3D DeskTop viewer)

From the end user's perspective, the CADView-3D system components work together in the following manner:



- A user with Web browser and the CADView-3D client clicks a link to open a document attachment for an item in the Oracle application.
- An HTML page is created on the fly that points to the AMM data published in the Oracle database for that model.
- CADView-3D DeskTop plug-in is launched. If the user has an earlier version, the current DeskTop will be downloaded and installed automatically.
- AMM data points to records for geometry data, attribute data, and collaboration data in the Oracle database.
- As the user navigates the model, geometry content (3D data) is streamed as needed to the DeskTop plug-in.
- As the user queries the model or views the **Parts List** window or **Attributes** window, attribute data (extracted from the original CAD model during optimization) is streamed to the DeskTop plug-in.
- While viewing the model with DeskTop, users can send collaboration data to the database and receive collaboration data stored by other users in their group.

See: System Requirement

See: Installing CADView-3D Translators

System Requirements

The following are the minimum hardware and software requirements for using CADView-3D Translators to publish to a CADView-3D Server:

- Your CAD application already installed on the system, as appropriate.
- CADView-3D Translator for your particular CAD application
- CADView-3D Studio (installed along with CADView-3D Translator)
- CADView-3D DeskTop client (installed with separate Windows-based installer)
- CADView-3D Server (installed on a separate server system)
- Windows 2000, XP, or Windows NT 4 with Service Pack 3 or higher
- Microsoft Internet Explorer 4.0 or higher or Netscape Navigator 4.06 or higher
- Oracle Jinitiator java plug-in version 1.1.8.16 or higher if viewing models published as attachments in Oracle E-Business Suite using Forms.

Note: You will be prompted to install Jinitiator automatically when you first connect to the E-Business Suite from your Web browser.

Note: You will be prompted to install Jinitiator automatically when you first connect to E-Business Suite with your Web browser.

- Pentium-class processor running at 200 MHz or above
- 128 MB RAM or more

Note: However, higher minimum requirements of your specific CAD application may take precedence.

See: Oracle E-Business Suite Applications Supported

Oracle E-Business Suite Applications Supported

Using CADView-3D DeskTop, you can attach models to certain business objects in the following Oracle E-Business Suite applications:

- Oracle® Product Lifecycle Management

- Oracle Product Information Management Data Librarian
- Oracle® Enterprise Asset Management
- Oracle® Manufacturing family of applications
- Oracle® Project Collaboration
- Oracle® Project Management
- Oracle® Property Manager
- Oracle® Service
- Oracle® Sourcing

Installing CADView-3D Translators

Depending on the type of CAD system you are using, you will need to install a specific type of CADView-3D Translator.

CADView-3D Translators must be installed on the same system as the respective CAD software. When you install a Translator, CADView-3D Studio is also installed automatically. After installing these two applications via the Oracle installer, you are prompted to install CADView-3D DeskTop using a separate Windows-based installer.

Note: Where applicable, see installation guidelines for Oracle Partner-provided translators.

Installing CADView-3D DeskTop

The CADView-3D DeskTop is used to view your model in a Web browser after publishing. It is provided in a separate Windows-based installer on your Oracle CADView-3D product CD. The installer is automatically launched after you install a CADView-3D Translator.

Alternatively, log in to E-Business Suite with a responsibility that allows you to view the CADView-3D application. On the Applications page, choose "CADView-3D," click "View Test Models & CADView-3D Components," and then click "Install CADView-3D Components." On the Installers page, click "CADView-3D Desktop Installer" to install the CADView-3D DeskTop plug-in. You are also prompted to install or upgrade DeskTop when you click "View Test Model" in the CADView-3D application.

Once you install the CADView-3D DeskTop client on your system, when you open a CADView-3D model and connect to a CADView-3D Server, it will determine whether there is an upgrade available. If so, it will launch the installer automatically and prompt

you to install the most recent version.

To install CADView-3D DeskTop, :

1. Navigate to the folder in which the "CADView-3DDesktopSetup.exe" file is stored and double-click it.

Note: The DeskTop installer downloaded or launched from E-Business Suite is named "ddddstin.exe."

2. In the **Welcome** screen, click Next to continue.
3. In the **Destination Folder** screen, accept the default directory or click Change to
4. In the **Setup Type** screen, accept Default Complete or choose Custom and click Next to choose a specific module to install. Click Next to continue.
5. In the **Ready to Install Program** screen, click the Install button to begin installation or click Back to review or change settings.
6. In the **Installing CADView-3D DeskTop** screen, the progress bar advances as DeskTop is installed by default to the destination folder:
`\<Orant>\CADView-3D\DeskTop\`
where "Orant" is your Oracle Home directory.
7. In the **Setup Completed** screen, you can choose to view the "readme" file and click Finish to exit setup. The readme.txt is stored in the installation directory.

Optimizing and Publishing Projects

Attaching a Model to an E-Business Suite Object

After your model is published to a CADView-3D Server connected to Oracle E-Business Suite, you can attach the model from CADView-3D DeskTop to the following business objects in supported Oracle applications:

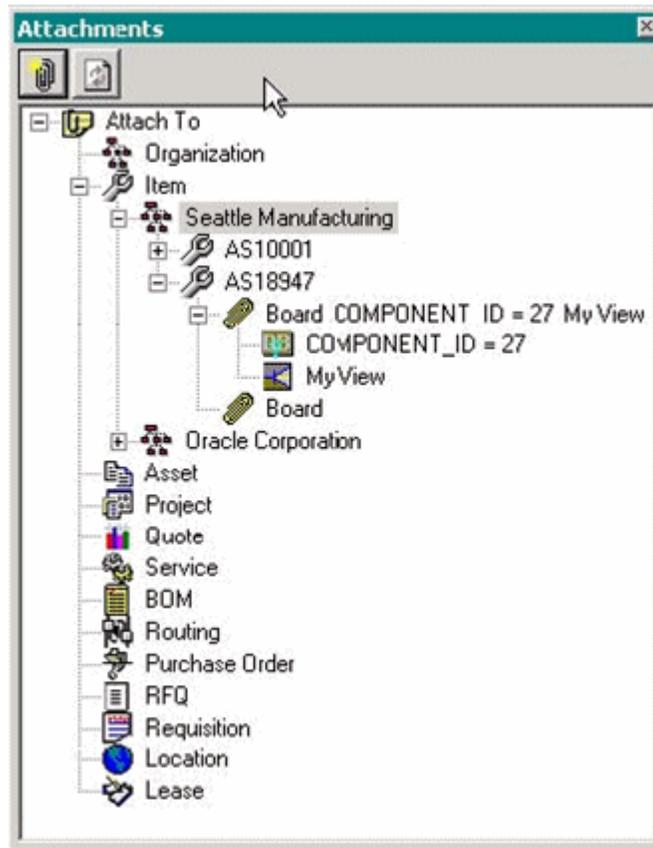
- Organization
- Item - item or item revision
- Asset
- Project - project or task
- Quote - quote or quote line
- Service
- BOM - primary or alternate
- Routing - primary, alternate, revision, or sequence
- Purchase Order
- RFQ
- Requisition
- Location
- Lease

To attach the model to an E-Business Suite object:

1. Publish the model to a CADView-3D Server from the Translator. The model is launched automatically in CADView-3D DeskTop after publishing.

Note: If the "View Model After Publishing" option is unchecked or you did not enter the option "-vue 1" at the command line, you can still launch DeskTop by double-clicking the <ModelName>.html file located in the Translator's Local Output Directory.

2. In CADView-3D DeskTop, choose **Attachments** in the **Window** menu.
3. In the **Attachments** window, double-click the type of object to which you want the model attached (e.g., Item, Asset, Project, etc.).



4. In the **Attach To** screen, accept the default Description or enter a descriptive name for the model.

Note: This name will become the model name in the **Server/Model**

Information window in DeskTop. It will also appear on the **Attachment** page in E-Business Suite as the description users view to select the model.

5. Enter the required information for the business object you want to attach the model to. You can enter a partial name and wildcard such as "CV3D%" and use the Search (flashlight) button to query the database to select a value.

Note: Queries to the Oracle database are case-sensitive.

Attach to Item/Revision

Organization: Seattle Manufacturing

Item:

Revision (Optional):

Description: Board

Attachment

Toolbar: [Icons for file operations]

Name	Type
------	------

Buttons: OK, Cancel

6. In the **Search Results** screen, make a selection and click OK.

Search Results - [Item]

Navigation: [Left Arrow] [Right Arrow]

Search Results:

- CV3D-13011
- CV3D-IBR1000
- CV3D-IBR1001
- CV3D-IBR10012
- CV3D-IBR1002
- CV3D-IBR10021
- CV3D-IBR1002?
- CV3D-IBR1003

Button: Ok

7. You can use the attachment icons to select any of the following to occur when the model is opened (optional):
 - **Query** - you can open the model with an object or group of objects isolated
 - **Viewpoint** - open the model and view it from a particular viewpoint
 - **Markup** - you can open the model with a markup image visible
 - **Path** - you can open the model and immediately play a path
 - **Animation** - you can open the model with an animation playing in a loop
 - **Query + Viewpoint** - open the model with a particular view of isolated object(s)
 - **Animation + Viewpoint** - open the model with a particular view of an animation playing

Note: When any of the above are selected, a descriptive string is appended to the model's name in the Description field. For example, "model_name" becomes "model_name_inspection route."

8. Click OK to attach the model to the object in the database in E-Business Suite.
See: Launching a CADView-3D Model from Oracle E-Business Suite

Note: You can delete an attached model from the Oracle application interface; however, the attachment will still appear in DeskTop's **Attachment** window. You cannot delete an attachment from the DeskTop interface.

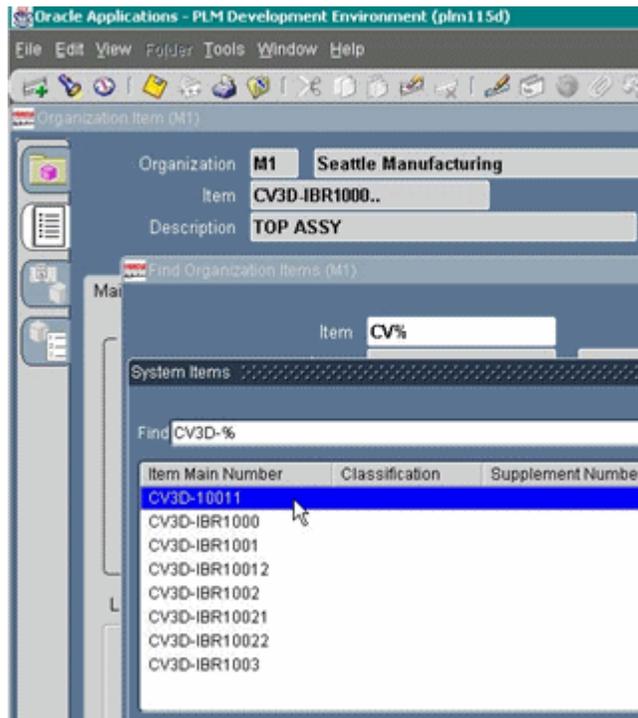
Note: However, if you are logged into E-Business Suite with a responsibility that allows you to view and administer the CADView-3D application, you can delete models in the **Administer CADView-3D Models** page.

Launching a CADView-3D Model from Oracle E-Business Suite

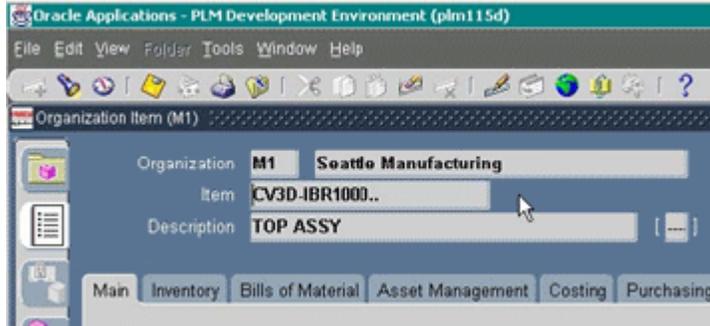
Oracle Jinitiator java plug-in version 1.1.8.16 or higher is required to view Oracle E-Business Suite applications using Forms. You will be prompted to install Jinitiator automatically when you first connect to E-Business Suite with your Web browser.

business object in Oracle E-Business Suite:

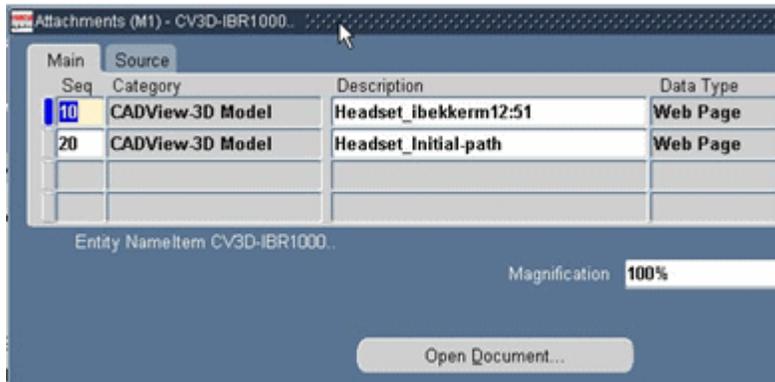
1. Open a Web browser and navigate to the login page for the Oracle application.
2. Log in with your user name and password.
3. In the **Welcome** screen under applications, choose the responsibility that allows you to see the business object to which the CADView-3D model is attached. Click OK.
4. In the **Navigator** screen in the Functions tab, double-click the desired function such as "Inventory" and select "Items."
5. Double-click "Organization Items" and select the desired name from the list.
6. Enter the item name or choose Find from the View menu to open the **Find** screen and enter the first few characters with a "%" wildcard to narrow search and click Find.



7. Select the item to which the model is attached.
8. In the main toolbar, click the Attachment icon (paper in paperclip).

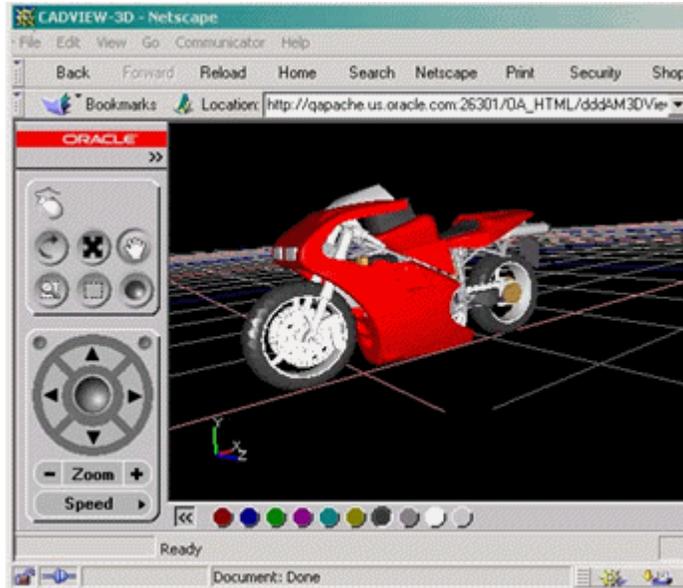


- In the **Attachment** screen, select a document in the "CADView-3D Model" category.



- Click the Open Document button. A separate Web browser is launched with the model loaded in the CADView-3D viewer.

Note: The model's name is not displayed in the URL when you launch DeskTop from E-Business Suite. Instead, find it in the **Server/Model Information** window in DeskTop.



Depending on how the person who created the attachment set up the initial view, you may initially see an animation in the model, a path navigating through the model, an isolated part or group of parts, or a markup image.

Note: If CADView-3D DeskTop is not installed, the installer is launched automatically. After the DeskTop is installed, the model appears loaded in DeskTop in a separate Web browser. This automatic installation feature is only present when launching models on E-Business Suite.

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