



ENOVIA SmarTeam

SmarTeam Viewers Installation and Configuration Guide

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Chapter 1: DS Viewer

Overview

The DS Viewer provides SmarTeam – Editor and SmarTeam – Web Editor with unified, cross-brand, DS 3D PLM Viewing technology for viewing V5 CATIA files.

The DS Viewer provides the following functionalities:

- Viewing formats: CGR and CGM
- Navigating in DS Viewer : Zooming, Panning, View Points Displaying, Visualization (Render) Modes, Rotating, Printing and Compass for indications of the viewed content's orientation for 3D files and view point rotation

The DS Server Viewer is a Java-based solution that provides markup support of viewer for SmarTeam applications, such as SmarTeam – Editor Windows and Web based versions. DS Server Viewer enables you to view and perform markup operations on documents, drawings and CATIA files within SmarTeam – Editor Windows and Web based applications.

For details, refer to the DS Viewer Installation Guide.

Installation Instructions

This viewer must be installed and configured as part of the SmarTeam – Editor Windows and Web based installation processes.

If you require DS Server Viewer functionalities, you must install DS Server Viewer. For further information refer to the DS Server Viewer Installation Guide.

Configuration

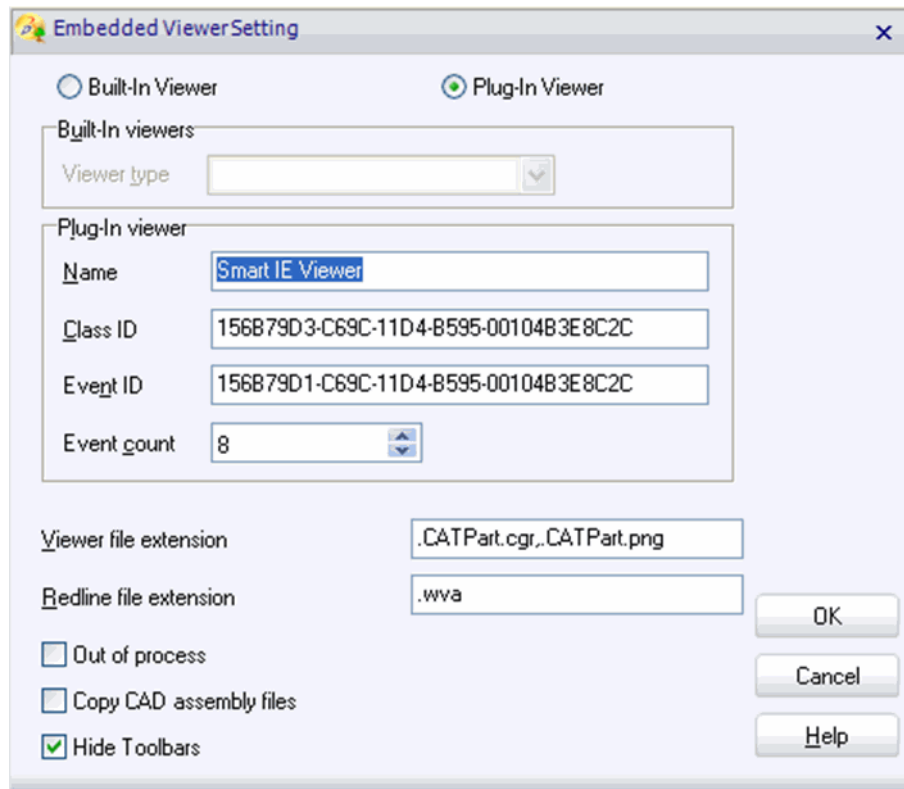
This section describes the settings required for CATIA files in order for DS Server Viewer to view these files properly in SmarTeam.

Application Tools Setup

In SmarTeam, navigate to the Application Tools Setup and define the following for all the CATIA files types that you will view with DS Viewer:

1. Enable the Plug-In Viewer and enter these parameters in the Plug-In Viewer section:
 - Name: Smart IE Viewer
 - ClassID: 156B79D3-C69C-11D4-B595-00104B3E8C2C

- EventID: 156B79D1-C69C-11D4-B595-00104B3E8C2C
 - Event count: 8
2. Verify that the File Extension contains:
 - .cgr for 3D files
 - .cgm for 2D files
 3. Set Redline file extension to .wva.
 4. Select the **Hide Toolbar** checkbox.



System Configuration

The system configuration is installed with the SmarTeam Services. Any changes that need to be made to the system configuration are performed on the machine on which the SmarTeam Services exist.

You can make changes to the System Configuration by manually updating the XML files in the System Configuration.

Before making changes to the XML files, it is highly recommended to backup the "smarteam home directory\configuration settings\data" directory.

File Association for Web Applications

To make manual changes to the System Configuration:

1. On SmarTeam Services server, navigate to <SmarTeam home directory>\ Configuration Settings\Data\Domain.
2. In the file **smarteam.std.viewers.config.xml**, there is a collection of adapters. If the file does not exist, copy the file from <SmarTeam home directory>\ Configuration Settings\Data\Default to <SmarTeam home directory>\ Configuration Settings\Data\Domain directory.
3. Open **smarteam.std.viewers.config.xml** and add/associate each desired file extension with CATIAWebViewerAdapter as shown in example:

```
<ViewerAdapters>
    ...
    ...
    <adapter>
        <extension>.cgr</extension>
        <adapter>SmarTeam.Std.Web.Viewers.Adapters.CATIAWebViewerAdapter
    </adapter>
    <adapter>
        <extension>.cgm</extension>
        <adapter>SmarTeam.Std.Web.Viewers.Adapters.CATIAWebViewerAdapter
    </adapter>

    </adapter>
    ...
    ...
</ViewerAdapters>
```

4. Restart Core Services and Web Server.

Internet Site

You are highly recommended to frequently visit our website for the latest updates and plug-in products, including the latest Service Packs, Program Directory (Release Notes) Hotfixes and technical support at <http://www.3ds.com/support/>.

In addition, you will also be able to view any installation known issues.

Chapter 2: eDrawings Viewer

Overview

The eDrawings Viewer provides SmarTeam – Editor Windows and Web based and SmarTeam – Community Workspace with the facility to view SolidWorks files using eDrawings tools.

eDrawings in SmarTeam supports the following file formats:

- SolidWorks Part .SLDPRT
- SolidWorks Assembly.SLDASM
- SolidWorks Drawing.SLDDRW
- eDrawings Part.EPRT
- eDrawings Assembly.EASM
- eDrawings Drawing.EDRW

Remarks:

- Markup is not supported for eDrawings on the Web. The markup is saved locally but is not transferred to the vault.
- When using eDrawings, original files can be accessed via the Web. This can result in a breach of security.

Installation Instructions

It is automatically installed and configured as part of the SmarTeam – Editor Installation process.

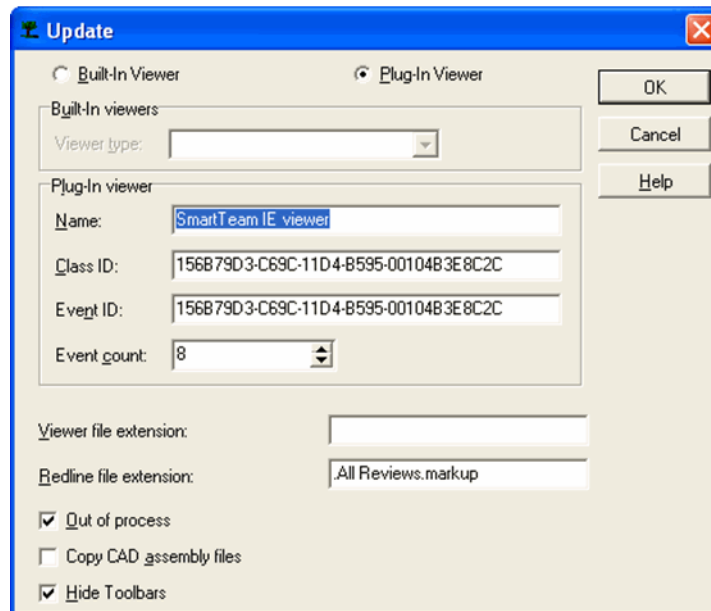
Configuration

For SmarTeam - Editor

In SmarTeam, go to the Application Tools Setup, and define the following for all the SolidWorks files types that will be viewed by the eDrawing Viewer:

1. Enable the Plug-In Viewer and enter these parameters in the Plug-In Viewer section:
 - Name: Smart IE Viewer
 - ClassID: 156B79D3-C69C-11D4-B595-00104B3E8C2C
 - EventID: 156B79D3-C69C-11D4-B595-00104B3E8C2C
 - Event count: 8

2. Verify that the File Extension is empty.
3. Redline file extension: All Reviews.markup.
4. Select **Hide Toolbars** checkbox.
5. Click **OK**.



For Web Applications

To make the manual changes to the System Configuration:

1. On SmarTeam Services server navigate to **<SmarTeam home directory>\ Configuration Settings\Data\Domain**.
2. In the file **smarteam.std.viewers.config.xml**, there is a collection of adapters. If the file does not exist copy file from **<SmarTeam home directory>\ Configuration Settings\Data\Default** to **<SmarTeam home directory>\ Configuration Settings\Data\Domain** directory.
3. Open **smarteam.std.viewers.config.xml** and add associate each desired file extension with **eDrawingAdapter** as shown in example:

```
<ViewerAdapters>
    ...
    ...
    <adapter>
        <extension>.sldprt</extension>
        <adapter>SmarTeam.Std.Web.Viewers.Adapters.eDrawingAdapter
    </adapter>
    </adapter>
    ...
    ...
</ViewerAdapters>
```

4. Restart core services and Web Server.

Repeat this procedure for the remaining extensions .SLDASM, SLDPRT, .EPRT, .EASM, .SLDDRW and .EDRW.

System Configuration Keys

The Viewer configuration settings are used for configuring SmarTeam Web applications to work with the SmarTeam Web Viewer server. These settings are generated and entered automatically by the SmarTeam Web application setup.

The System Configuration Service is a web-based tool that provides the administrator with the ability to handle and control all configuration settings from one central location. The tool runs on the system configuration server. For more information on the System Configuration Service and its parameters, refer to the System Configuration document.

To configure the Web applications, change the following parameters in the System Configuration Service:

- **eDrawingURL**: The location of the documents to be viewed in eDrawings should include the protocol: http://, https://, server:// etc.
- **eDrawingDirectory**: The location to which the files to be viewed in eDrawings are copied. This key overrides the value in TemporaryViewerPath for eDrawings.

Using eDrawing Viewer with Community Workspace

When using eDrawing Viewer with Community Workspace, the EDRAWINGS_ENABLED key must be set to YES.

To configure the eDrawing Viewer, use the following procedure:

1. From the System Configuration Editor, search for eDrawing.
2. Select **mySmarTeam.EDRAWINGS_ENABLED** key.
3. From Override Level, click **Domain**.
4. In Value, enter **YES**.
5. Click **Save** and Logout from System Configuration Editor.

Chapter 3: SmarTeam Viewer

Overview

The SmarTeam Viewer provides SmarTeam – Editor Windows and the facility to view and markup multiple file formats. The SmarTeam Viewer is based on the Oracle AutoVue Desktop Version.

Installation Instructions

Install Oracle AutoVue Desktop Version 19.3.4 on each machine where SmarTeam – Editor is installed.

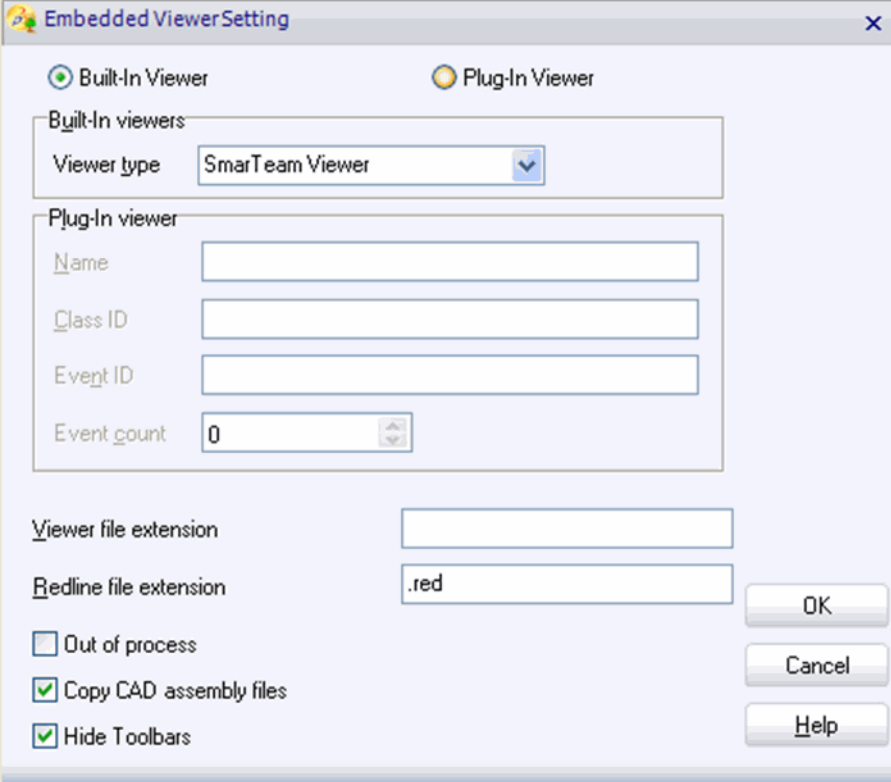
For more information, refer to the Oracle AutoVue Installation documentation.

Configuration

For SmarTeam Editor

In SmarTeam – Editor, select the Application Tools Setup, and define the following for all desired files types that will be viewed by the SmarTeam Viewer:

1. Enable the Build-in.
2. Keep the Viewer file extension field empty to view original file or type in the viewable file extension.
3. Redline file extension: .red.
4. Select **Hide Toolbars** checkbox.
5. Click **OK**.



The **Embedded ViewerSetting** dialog box is used to configure the viewer. It features two tabs: **Built-In Viewer** (selected) and **Plug-In Viewer**. The **Built-In viewers** section contains a **Viewer type** dropdown menu set to **SmarTeam Viewer**. The **Plug-In viewer** section includes input fields for **Name**, **Class ID**, **Event ID**, and a **Event count** spinner set to 0. Below these, there are fields for **Viewer file extension** and **Redline file extension** (set to .red). At the bottom, three checkboxes are present: **Out of process** (unchecked), **Copy CAD assembly files** (checked), and **Hide Toolbars** (checked). On the right side, there are **OK**, **Cancel**, and **Help** buttons.

Embedded ViewerSetting

☒ Built-In Viewer ☐ Plug-In Viewer

Built-In viewers

Viewer type: SmarTeam Viewer

Plug-In viewer

Name:

Class ID:

Event ID:

Event count: 0

Viewer file extension:

Redline file extension: .red

☐ Out of process

☒ Copy CAD assembly files

☒ Hide Toolbars

OK Cancel Help

Chapter 4: SmarTeam Web Viewer

Overview

The SmarTeam Web Viewer provides SmarTeam Web applications (SmarTeam – Web Editor, SmarTeam Navigator and SmarTeam Community Workspace) facility to view and markup multiple file formats. The SmarTeam Web Viewer is based on the Oracle AutoVue Web Version.

Installation Instructions

Oracle AutoVue

Install Oracle AutoVue Web Version 19.3.4.

For details, refer for Oracle AutoVue Installation documentation.

For more information regarding SmarTeam deployment options review the SmarTeam Deployment Guide.

Markup Monitor

The Markup Monitor handles moving Markup files to the SmarTeam Vaults when they are created by Oracle AutoVue. This enables multiple users to create, review and update Markups.

The Markup Monitor must be installed on the Vault Server machine.

1. Run SmarTeam – Foundation installation and select the Markup Monitor from the component tree.
2. Enter the Viewer Markup path in format <Viewer server IP>\<Markup shared directory>.

Configurations

AutoVue Service

Change user name of AutoVue service as following:

The user should be a domain user that is assigned for services for both AutoVue and SmarTeam Web application services (in some environments it is recommended to be installed on different machines).

Shared Directories

The following directories must be shared:

1. Create and share Viewers directory.
2. Share directory located in <Program Files\JVue\>Bin\Markups.
3. Set full permissions for user that is assigned for AutoVue service and SmarTeam Web application services.

Oracle AutoVue Configuration

Open <Program Files\JVue\>Bin\VueServer.ini in editor and add the following section:

- [Server]
- Directory=\\<Server IP Address>\<Viewers>

For \\<Server IP Address>\<Viewers> use directory created in step, Shared Directories.

Verification:

In <Program Files\JVue\>Bin\VueServer.properties file

The AutoVue server machine name in JVueserver.hostname appears with domain prefix.

The Proxy settings (if applicable) are defined according to Oracle AutoVue documentation.

SmarTeam System Configuration Keys

Set the System Configuration Key on the JVueViewer directory

Key: JVueViewerDirectory

Value: <Viewer Server IP>\Viewer

Override level: Domain

Set the System Configuration Key on the JVueMarkup directory

Key: JVueMarkupDirectory

Value: <Viewer Server IP>\Markups

Override level: Domain

File Association for Web Applications

To make manual changes to the System Configuration:

1. On SmarTeam Services server, navigate to <**SmarTeam home directory**>\ **Configuration Settings\Data\Domain**.
2. In the file `smarteam.std.viewers.config.xml`, there is a collection of adapters. If the file does not exist copy file from <**SmarTeam home directory**>\ **Configuration Settings\Data\Default** to <**SmarTeam home directory**>\ **Configuration Settings\Data\Domain** directory.
3. Open `smarteam.std.viewers.config.xml` and add/associate each desired file extension with **JVueAdapter** as shown in this example:

```
<ViewerAdapters>
    ...
    ...
    <adapter>
        <extension>.dwg</extension>
        <adapter>SmarTeam.Std.Web.Viewers.Adapters.JVueAdapter<\adapter>
    </adapter>
    ...
    ...
</ViewerAdapters>
```

4. Restart **Core Services** and **Web Server**.

Chapter 5: SmarTeam 3DVIA Viewer

General

The SmarTeam 3DVIA Viewer is embedded in SmarTeam – Editor applications and has two modes for presenting data:

- **Regular mode** - Search results are displayed on a plate, where drilling down into the assembly opens additional plates revealing the detailed parts of the assembly's composition
- **Examine mode** - This mode does not permit navigation, but enables you to display redlines and FTA. For 3DVIA Viewer, only the Examine mode will be available.
- Supported file types
- The natively supported file formats are (extension)
 - 3D
 - CGR
 - 3D XML
 - 2D
 - CGM
 - BMP
 - 301
 - CAL
 - CLP
 - DCX
 - DIB
 - ICO
 - IFF
 - MAC
 - PCX
 - PSD
 - PCT
 - PNG
 - RAS
 - SCT
 - TGA
 - TIF
 - TIFF
 - FXS
 - WMF

WPG
XBM
XPM
XWD
JPEG
JPG
RGB
GL
HPGL
GL2
HPGL2
PS
EPS
SVG

Verifying Application and Internal Servlet Startup

Server Installation

SmarTeam – Foundation must include following installations:

- SmarTeam Core Services
- SmarTeam – Editor
- Web services for Live Applications

Client Installation

Select 3DVIA Viewer when installing SmarTeam – Editor.

Prerequisite

Java Runtime 1.6.0_13 must be installed on each client machine - Editor and Web Editor.

Hardware Compatibility

To verify Hardware compatibility, refer to the DS support site:

<http://www.3ds.com/support/hardware-certification/windows-certified-workstations/>

Configuration

Authentication

Set SmarTeam Authentication for your database in the Authentication Manager utility.

Persistency Storage

Refer to SmarTeam – Editor Installation Guide, Chapter 3 Persistency Storage Configuration section.

System Editor Key

To enable the viewing of files using 3DVIA Viewer ,set the System Configuration key as following:

Key: Live3DServerlocation

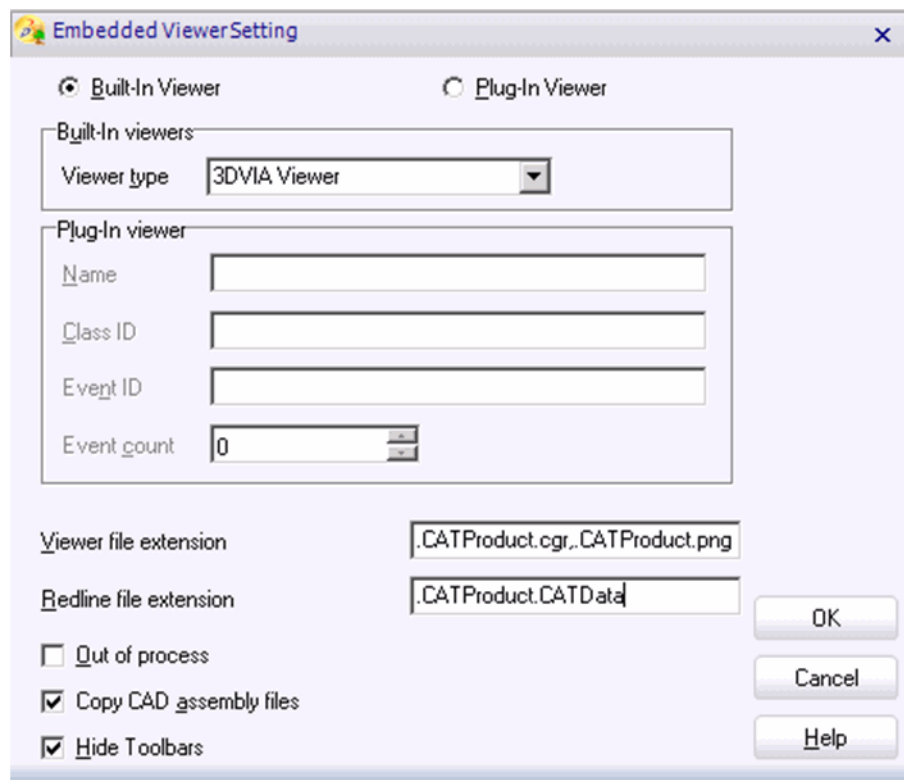
Value: <SmarTeam Foundation Server IP>

Override Level: Domain

Application Setup

To associate the 3DVIA Viewer for 3D files, apply the following setting for each file type:

- Select Build-In Viewer
- Viewer Type: 3DVIA Viewer
- Viewer file extension: add desired file extension to original file extension
- Redline file extension: add .CATData to original file extension



Viewer Adapter XML

To associate the 3DVIA viewer with file types to view in SmarTeam Web applications (SmarTeam Web Editor and SmarTeam Navigator) set the association as follows:

Configuring the server to run as a service:

1. On SmarTeam Services server, navigate to **<SmarTeam home directory>\ Configuration Settings\Data\Domain**.
2. In the file `smarteam.std.viewers.config.xml`, there is a collection of adapters. If the file does not exist, copy the file from **<SmarTeam home directory>\ Configuration Settings\Data\Default** to **<SmarTeam home directory>\ Configuration Settings\Data\Domain** directory.

3. Open **smarteam.std.viewers.config.xml** and add associate each desired file extension with **Live3DAdapter** as shown in example:

```
...
<ViewerAdapters>
    ...
    ...
    <adapter>
        <extension>.cgr</extension>

        <adapter>SmarTeam.Std.Web.Viewers.Adapters.Live3DAdapter<\adapter>
    </adapter>
    ...
    ...
</ViewerAdapters>
```

4. Restart Core Services and Web Server.