

BPA 3DSmartDocCreator >

- <TS9> -

Installation Guide – V1.8

BPA Delivery 8 for V5R20 (V5.8)

3DSmartDocCreator – Business Process Accelerator
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1. Introduction

This document describes the installation procedure for the BPA 3DSmartDocCreator Server

This document is divided into the following sections:

- 3DSmartDocCreator Server installation
- Configuring 3DSmartDocCreator Server

1. Related Documentation

Related Documentation for Configuring the 3DSmartDocCreator Server

- SmarTeam Administration Guide
- SmarTeam Installation Guide

2. Definitions

Variables

Proposed examples:

Name	Definition
HOME	The selected directory for BPA Server installation
<CATIA Install Directory>	The directory of CATIA installation
<OS_Root_directory>	The operating system root directory (typically C:\)
<BPA License Directory>	The installation directory for BPA license files
<Path>	Variable for search path

Table 1 - Variables

Pictograms





Symbol	Usage
	Step The step symbol signals that a sequence of work operations is given.
	Information The info symbol signals background information.
	Tip The lamp symbol signals a tip that offers you practical experience to make your work easier.
	Warning: The warning symbol signals critical moments to which you should pay attention in order to avoid problems in your work process.

Table 2 - Pictograms

3. Prerequisite for 3DSmartDocCreator Installation

Hardware requirements

- See SmarTeam Hardware requirements

Software requirements

Software requirements for 3DSmartDocCreator Server

- SmarTeam Client Installation
- 3DVIA Sync Installation
- 3DVIA Sync Integration Installation
- Operating System :
 - Windows XP SP3 or Windows Server 2003
 - Windows 7 Professional 64 bit

Required disk space

- See SmarTeam Hardware requirements

2. 3DSmartDocCreator Server installation

1. Before Installing

- Be sure that you have sufficient rights on your PC to create a Path, copy files and register DLL's
- Check for installation folder
- Need for uninstalling manually an older version of the BPA (if upgrading of old versions is not automatically supported)
- Dot Net Framework 3.5 SP2 is installed

2. 3DSmartDocCreator Server package description

Setup files

The package includes these files separated in the listed folders:

3DSmartDocCreatorServer → Gets installed in the folder specified by the user. This folder in the documents is referred to as <Homedirectory>

- \BIN
 - AutomationServer.exe
 - AutomationServer.ini
 - Displayfile.exe
 - JobServerApp.dll
 - JobServerCompPlugIn.dll
 - JobServerWatcher.exe
 - SmartDocCreator.lic
 - vbSendMail.dll
- \Operations
 - convertshattered.xml
 - CREATECOMPOSERASSEMBLYFILES.jod
 - CREATECOMPOSERCONTENT.jod
 - CREATECOMPOSERDOCUMENTS.jod
 - CREATECOMPOSERFILES.jod
 - CREATECOMPOSERFILESANDVIEW.jod
 - createContent.xml
 - CreateView.xml
 - createViewPictures.xml

3DSmartDocCreatorClient

- \BIN
 - SmartDocCreator.dll
 - SmartDocCreator.lic
 - SmartDocCreator.dll.config
 - SmartDocCreator.xml
 - SmartDocCreatorNLS.xml
 - AxInterop.DS3DVIAPlayerActiveXLib.dll
 - Interop.DS3DVIAPlayerActiveXLib.dll
 - Interop.Shell32.dll
 - SmartTeam.Std.Interop.SmartTeam.SmApplic.dll
 - SmartTeam.Std.Interop.SmartTeam.SmartFlow.dll
 - SmartTeam.Std.Interop.SmartTeam.SmartMessages.dll

- SmarTeam.Std.Interop.SmarTeam.SmGUISrv.dll
- SmarTeam.Std.Interop.SmarTeam.SmIntegrationTools.dll
- SmarTeam.Std.Interop.SmarTeam.SmRecList.dll
- SmarTeam.Std.Interop.SmarTeam.SmUtil.dll
- ComposerStarter.exe
- Interop.DS3DVIAComposer.dll
- Interop.ISPLI0BPALUMLib.dll
- ISPHA0HelpAbout.dll
- ISPLI0BPALUM.dll

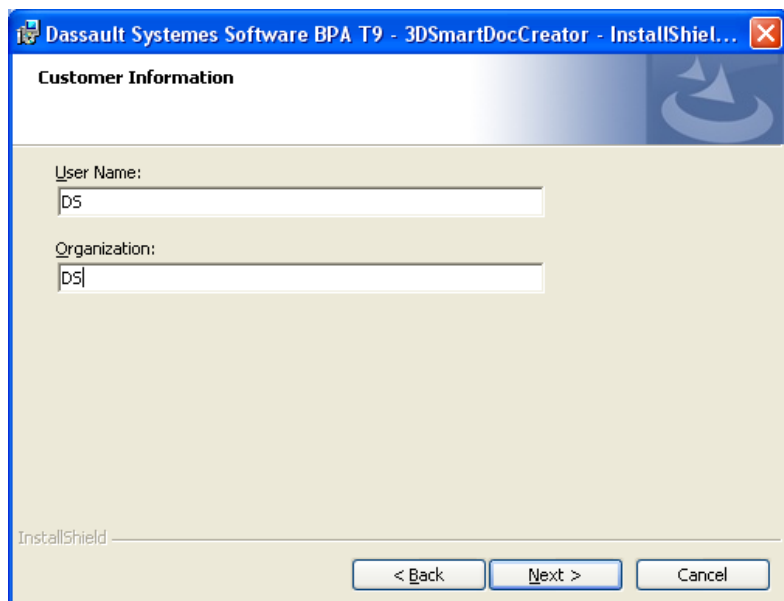
Possible other folders may contain: admin settings, demo data, additional tool folder for licensing, resources files etc... Indicate the setup file format (ex: tar file, InstallShield setup file).

3. 3DSmartDocCreator Server Installation

1.) The installation is done through installation software. Please execute the “setup.exe” from the delivered or existing media



2.) Key in your preferred User Name and Organisation:



Customer Information

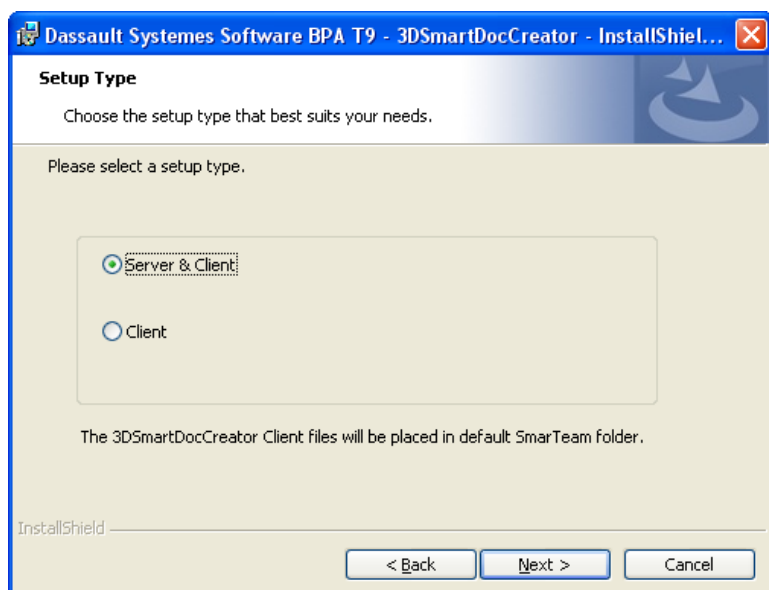
User Name:
DS

Organization:
DS

InstallShield

< Back Next > Cancel

3.) Choose the installation type. The Server installation requires also a client installation. So if you choose this type both, Server and Client will be installed



Setup Type

Choose the setup type that best suits your needs.

Please select a setup type.

☒ Server & Client

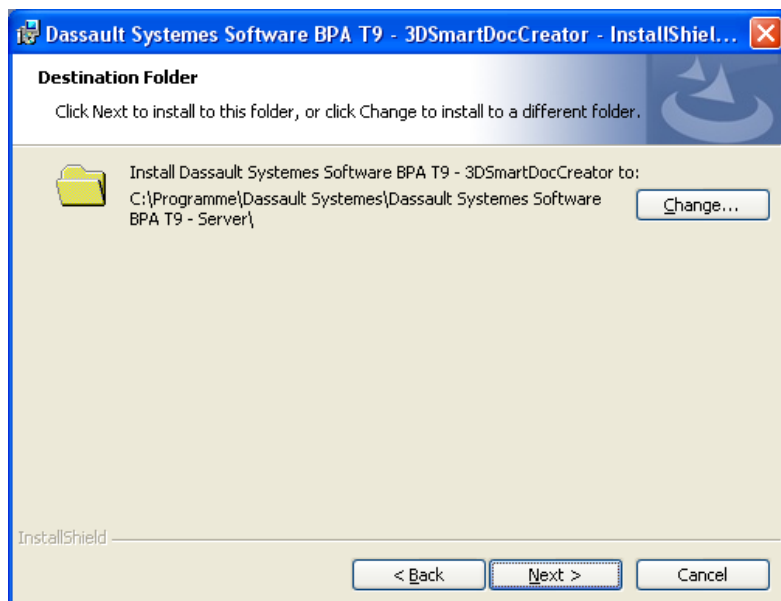
☐ Client

The 3DSmartDocCreator Client files will be placed in default SmarTeam folder.

InstallShield

< Back Next > Cancel

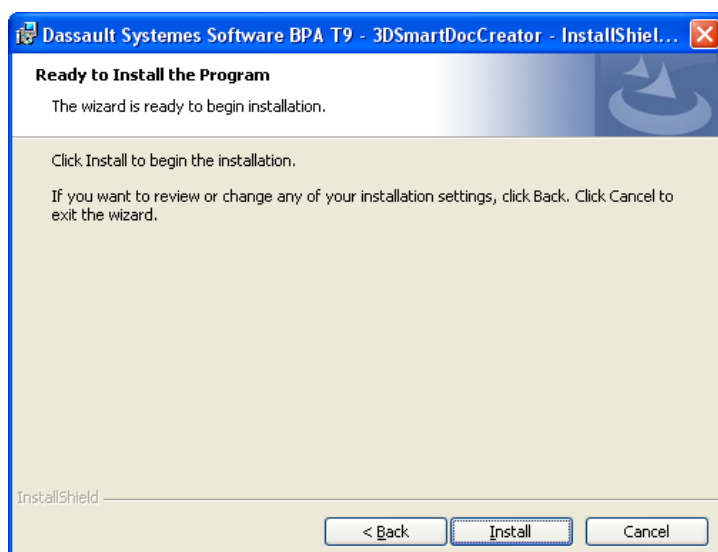
4.) Choose the Root Folder for the Server installation:



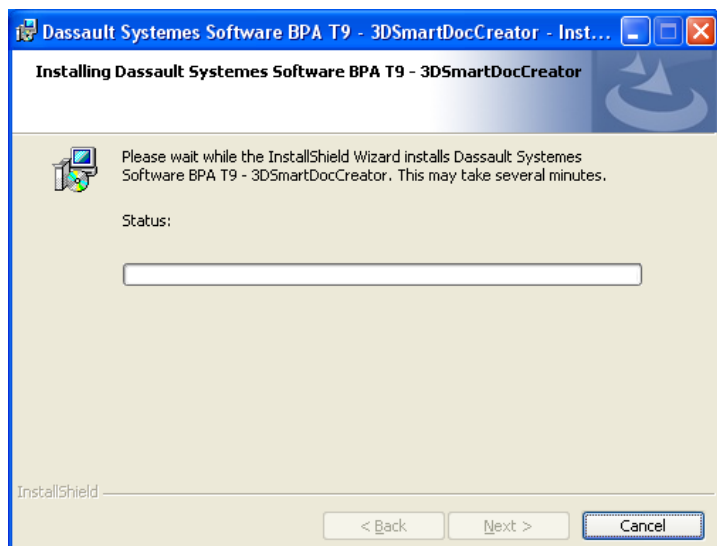
Under this root following folders are created through setup:

\Bin	All files are copied in this directory as explained in section 2.
\Documentation	Server Installation and Administration documentation
\Done	In this directory all done jobs are copied
\Failed	In this directory all failed jobs are copied
\Files	This is a directory that is used as working directory for files
\Log	In this directory the log files are located
\Operations	All files as explained in 2. 3DSmartDocCreator Server package description
\Pending	This is the shared directory where all jobs that have to be done are located
\Pictures	This is the directory where views are stored
\Redo	On redo the job files are located here
\Trace	In this directory the trace files from the jobs are located
\Work	This is the work directory for the jobs

4.) Click [Install] to start the installation:



5.) Wait to installer has finished the installation



3. **Configuring 3DSmartDocCreator Server**

1. **3DSmartDocCreator Server Configuration**

Share the <Homedirectory>\pending folder. To allow the clients to create jobs on this server you must share the Pending directory to all users.

Directory Settings:

Open the <Homedirectory>\bin\AutomationServer.ini with

Change the [RootDir=c:\js] to your <Homedirectory>

In the run time section make the following changes

[RUNTIME]

COMPOSERPATH=G:\Program Files\Dassault Systemes\3DVIAComposer\6.6\Bin\ - Add here the Path of the 3DVIA Composer installation

SHAREDCOMPOSERDIR=T:\Geom_Dir\ - Add here the Shared composer directory which is discussed in the next section

DATABASENAME=PLM DB ST – This is the DB name

Open the CREATECOMPOSERFILES.jod File located in <Homedirectory>\Operations directory

- Since in the automation.ini in the runtime section the paths have been already given and associated with a variable, the same is used in the JOD files. Hence there is no change needed to be done in the JOD file with respect to the above settings. For other settings, please go through all the JOD files and make necessary changes.

2. **Create a shared Directory on the SmarTeam Fileserver**

Create a shared Directory for the converted Composer Files (smgXML and smgGeom). These files are created during through the AutomationServer. Please provide Read/Write permission for logged in user on the server (AutomationServer.exe) and also for the Client Composer User on this directory.

3. **Change export values in XML files**

Changes that have to be done in the related xml file for the 3DVIA Sync:

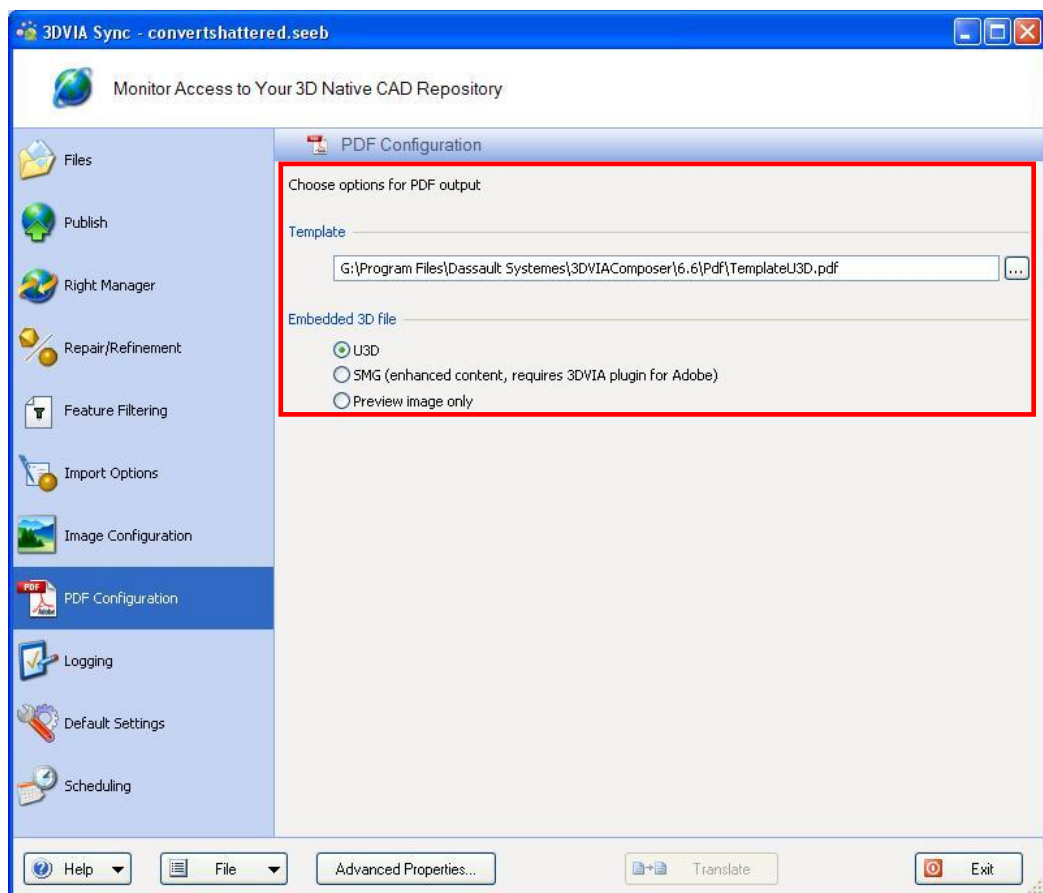
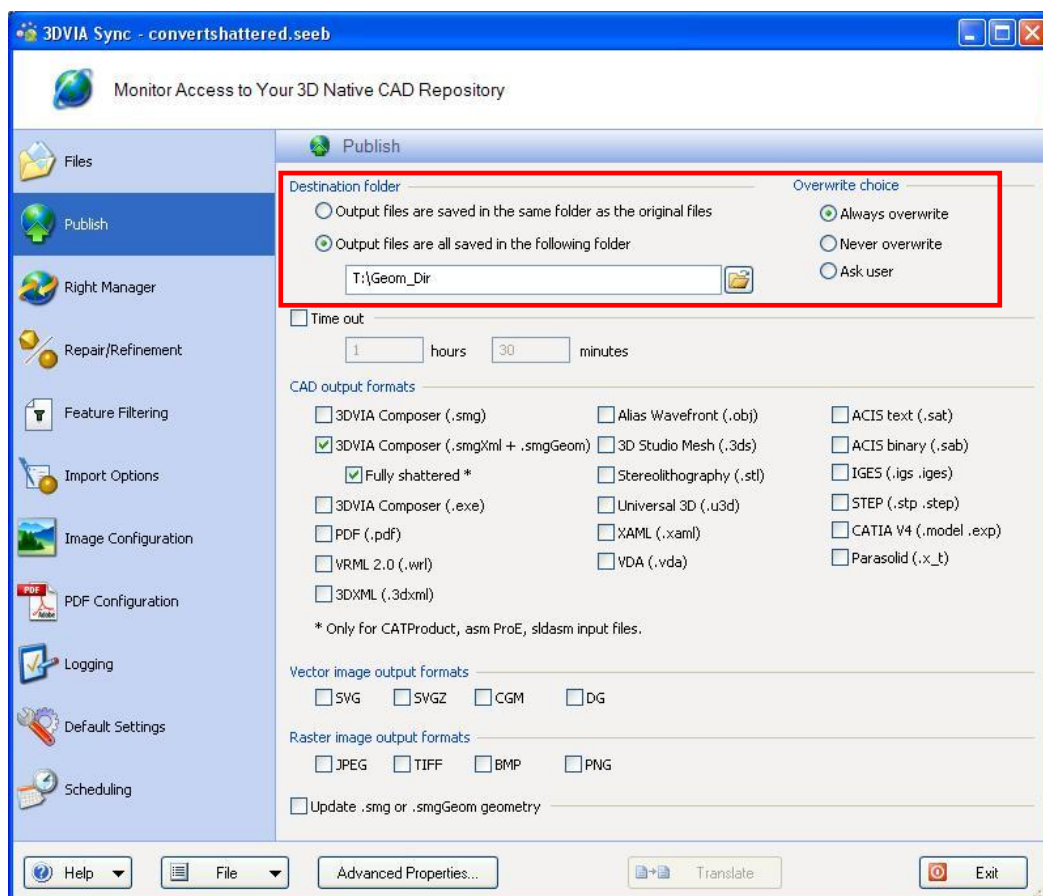
- Open the convertshattered.xml.
- Do the highlighted changes as shown in the pictures below:
- convertshattered.xml file as seen in notepad:

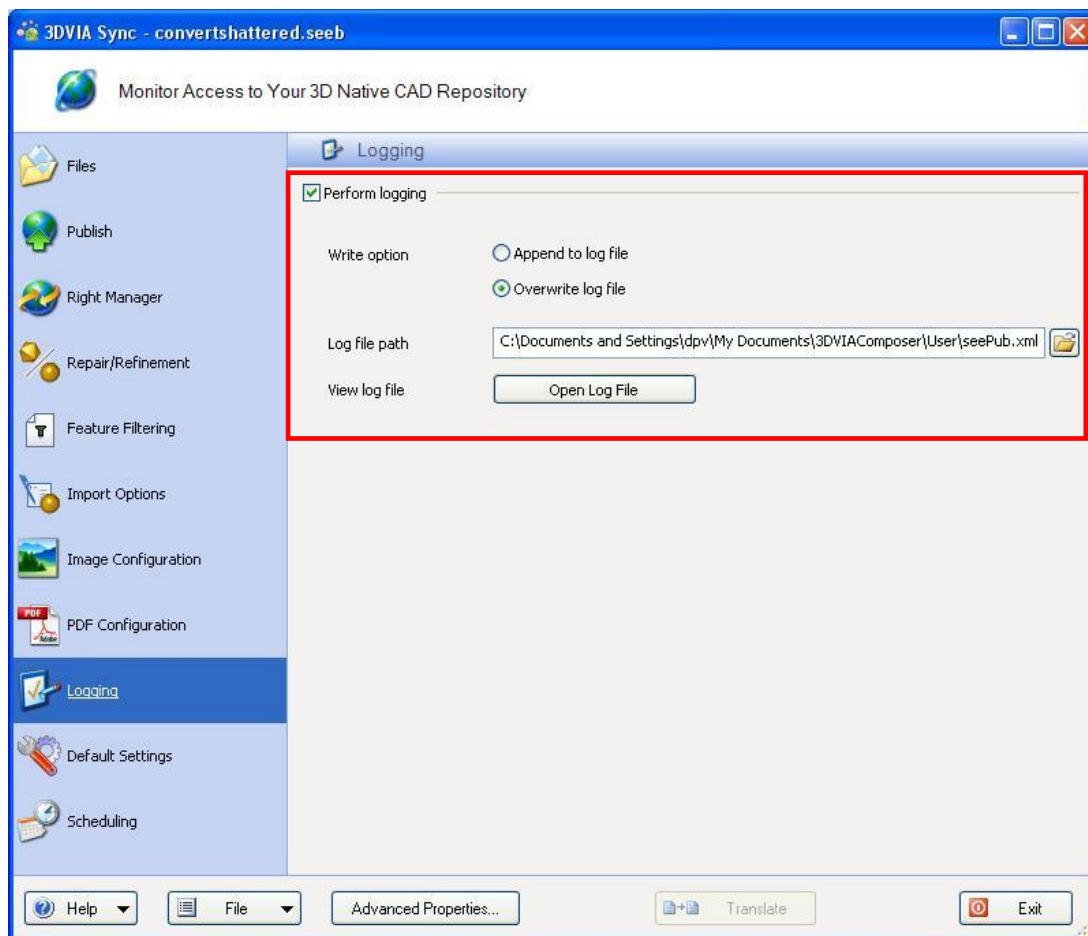
```
<SeemageBatch Version="6.1.1.1335">
  <Properties>
    <Batch.IOREfinement Value="0.5"/>
    <Batch.SaveInSameFolder Value="0"/>
    <Batch.SaveInXmlOnly Value="1"/>
    <Batch.SaveFolder Value="T:\Geom_Dir"/> <-Shared Directory
    <Batch.OverwriteChoice Value="0"/>
    <Batch.IOREfinementAdapt Value="1"/>
    <Batch.Healing Value="0"/>
    <Batch.IOCheckOriginalFileChange Value="0"/>
    <Batch.IOMergeFileInOneActor Value="0"/>
    <Batch.IOMergeFileInOneFile Value="0"/>
    <Batch.IOREcursivity Value="0"/>
    <Batch.IOImportAsBodies Value="1"/>
    <Batch.IOImportMassProperties Value="0"/>
    <Batch.IOImportPoints Value="0"/>
    <Batch.IOImportPMIs Value="1"/>
    <Batch.IOImportCurves Value="0"/>
    <Batch.IOImportFreeFaces Value="0"/>
    <Batch.IOImportNoShow Value="0"/>
    <Batch.IOImportNoPick Value="0"/>
    <Batch.IOImportGraphicData Value="1"/>
    <Batch.IOREduceAccuracy Value="0"/>
    <Batch.IOREduceAccuracy.Value Value="0.1"/>
    <Batch.IOWriteNormals Value="1"/>
    <Batch.IOWriteSmgGeomsWhenSaveSmgXml Value="1"/>
    <Batch.IOWriteSmgGeomsInSmgXmlDirectory Value="0"/>
    <Batch.IOCompressionBits Value="16"/>
    <Batch.IOREfinementType Value="0"/>
    <Batch.IORElativeRefinementFunction Value="0"/>
    <Batch.IOSetChordalError Value="1"/>
    <Batch.IOSetNormalDeviation Value="0"/>
    <Batch.IOSetEdgeLength Value="0"/>
    <Batch.IOChordalErrorValue Value="0.2"/>
    <Batch.IONormalDeviationValue Value="20"/>
    <Batch.IOEdgeLength Value="20"/>
    <Batch.IOUseFlatMethod Value="4"/>
    <Batch.IOU3dQualityOutput Value="0"/>
    <Batch.IOIdentType Value="1"/>
    <Batch.IOImportMetas Value="1"/>
    <Batch.IONodeFeatureName Value="1"/>
    <Batch.IONodeInstanceName Value="1"/>
    <Batch.IOPDFTemplate Value="G:\Program Files\Dassault Systemes\3DVIAComposer\6.6\Pdf\TemplateU3D.pdf" />
  </>
  <Batch.IOPDFPublishType Value="0"/>
  <Batch.PerformLogging Value="1"/>
  <Batch.AppendToLog Value="0"/>
  <Batch.LogFilePath Value="C:\Documents and Settings\dpv\My Documents\3DVIAComposer\User\seePub.xml" />
  <Batch.ShowProgress Value="0"/>
  <Batch.UseTimeOut Value="0"/>
</SeemageBatch>
```

Do similar for the CreateViewPictures.xml that belongs to the CREATECOMPOSERDOCUMENTS.jod and all other xml files.

Note: The same changes in the XML file can be done through 3DVIA Sync. For this

1. Rename the XML file as .seeb file – example convertshattered.seeb
2. Double click on this file to open it in 3DVIA Sync
3. Make changes as shown in the screenshots below. These changes correspond to the same changes done in the XML file as shown above.
4. After the change is done, make appropriate change in the JOD file where these files are referenced.





Installation Checklist

Please feel free to use this checklist during Installation.

BPA Server Installation:

Installation Step	Description	Done
Check Prerequisites	3DVIA Sync/Sync Integration / SmarTeam Client / Net 3.5SP2	
Create Folder Structure	Create the needed folders and main folder for the BPA Server	
Copy Files	Copy all Files to the related folders	
Register DLLs	Register the named DLLs located in the \BIN (see 2.4)	
Copy Client files	Also the server needs the BPA Client DLLs	
Register BPA Client	Register "SmartDocCreator.dll" (see 2.6)	
Install LUM License	Install a LUM License nodelocked (TS9)	
Install Zipping Software	Install Zipping Software instead of use Windows ZIP See 5.14	

BPA Server Configuration

Configuration Step	Description	Done
Create Network Share	Share the "\Pending" Directory of the Automation Server	
Edit ".jod" files	Change the ".jod" files to your environment (Path informations and 3DVIA informations) Change the name of your SmarTeam database and the user – login (refer to TS9_ServerAdministrationGuideR20D8SP5)	
Edit ".xml" files	Change the output path inside the named xml files for the SYNC-jobs	