



## ***Advanced Service Assets***

### ***“PDTool” Promotion and Deployment Tool***

### ***PDTool Studio Installer Admin Guide***

Data Virtualization Business Unit Advanced Services

September 2015

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## DOCUMENT CONTROL

### Version History

Version	Date	Author	Description
1.0	09/18/2015	Mike Tinius	Initial revision for Installer Administrator Guide

### Related Documents

Document	Date	Author
<i>Cisco AS Promotion and Deployment Tool – PDTool Studio Installer User Guide</i>	<i>Cisco PDTool Studio Installer User Guide.pdf</i>	Mike Tinius

### Data Virtualization Business Unit (DVBU) Products Referenced

DVBU Product Name	Version
Composite Information Server	6.2, 7.0

## INTRODUCTION

### *License*

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This software is released AS-IS!. Support for this software is not covered by standard maintenance agreements with Cisco. Any support for this software by Cisco would be covered by paid consulting agreements, and would be billable work.

### *Purpose*

The Administration Guide provides a PDTool Studio Administrator with the steps to “pre-configure” the PDTool Studio installer for Windows with a consistent and uniform deployment across the development and testing user base. This guide does not provide the background for installing PDTool Studio but instead guides the Administrator through the process of setting up for the installation. The Administrator can configure standard variables for your organization that will be used by all to make it easier for “mass installation”. Ultimately, a consistent installation means it is easier to support the developers and testers when they have questions or issues.

This is the part of PDTool, “PDToolStudio” that provides VCS check-in/check-out facilities with Cisco Studio. The other part of PDTool is simply called PDTool and is focused on deployment and testing.

#### What gets installed?

- Cisco PDToolStudio 6.2 or PDToolStudio 7.0.0
- VCS Client if the Administrator chooses to pre-configure the \VCSClients folder

#### Where do the files get copied?

- Recommended default location:  
C:\Users\%USERNAME%\\.compositesw\PDToolStudio[6.2|7.0.0]\_[TFS|SVN|GIT|P4|CVS]
  - E.g. C:\Users\user1\.compositesw\PDToolStudio7.0.0\_TFS
  - **PDToolStudio** – PDTool Studio client for Cisco Studio
  - **VCSClients** – Pre-configured VCS clients are optional if installed elsewhere.

- **\SVN\_client** – Subversion client
- **\TFS\_TEE\_client** – Team Explorer Everywhere client
- **\GIT\_client** – Git client
- **\P4\_client** – Perforce client
- **\CVS\_client** – CVS client

### ***Audience***

This document is intended to provide guidance for the following users:

- For CIS Developers only who have Cisco Studio installed and want to connect to a version control system (VCS) such as TFS, Subversion, GIT, Perforce or CVS.

### ***Platform Support***

The PDTTool Studio Installer is only supported on Windows.

## PDTool STUDIO (VCS INTEGRATION) INSTALLER ADMIN GUIDE

### *Pre-Requisite Checklist*

The following is a list the Administrator will need to check when setting up the “pre-configuration” for PDToolStudio:

1. *Network Connection:*

Each user must be connected to a network and have access to the VCS server.

2. *JRE7 Installed:*

JRE 7 (1.7) must be pre-installed on the target computer before installing PDTool. Each user must perform this action.

If Cisco Studio 7.0 is installed, it is possible to utilize that JRE: CIS\_HOME\jre or you can use the one installed in the “C:\Program Files\Java\jre7”.

3. *Version Control System (VCS) Access:*

Each user must perform this action.

The user must submit a request in advance to their organization to get access to a version control system (VCS) repository prior to installation of PDTool.

4. *CIS Studio 6.2 or 7.0 Installed:*

The user must be pre-install CIS Studio 6.2 or 7.0.

5. *Pre-configure Installer Default Variables:*

The Administrator performs this action.

For VCS installation, edit: **PDToolStudio-VCS.bat** and provide any default values that require modification.

6. *Pre-configure VCS Client Software:*

The Administrator performs this action.

To insure consistency of VCS clients across the developer community, be sure to copy the correct client software into the appropriate VCSClients sub-directory.

- SVN\_client – copy the subversion binaries.
- TFS\_TEE\_client – copy the Team Foundation Everywhere client binaries.
- P4\_client – copy the Perforce client binaries.
- GIT\_client – copy the GIT client binaries.
- CVS\_client – copy the CVS client binaries.

7. *Pre-configure Configuration Property Files:*

The configuration property files provide a mechanism for setting standard default variables for each target CIS environment.

## *Administrator Setup Procedure*

### *1. Unzip the PDTool Studio Release Zip File:*

- a. Unzip to any directory on your windows machine e.g. [C:\Temp].
- b. PDToolStudio-6.2-YYYY-MM-DD.r1.zip
- c. PDToolStudio7.0.0-YYYY-MM-DD.r1.zip

### *2. Edit Installer Batch Files:*

- a. *Purpose* – The purpose of this is to “pre-configure” the installation for your organization so that you have a consistent and uniform configuration across the developer and tester user base.

#### *b. Location*

- a. [C:\Temp]\PDToolStudio6.2\_installer\installer
- b. [C:\Temp]\PDToolStudio7.0.0\_installer\installer

- c. **PDToolStudio-VCS.bat** – used for installing a VCS configuration focused on developers who require access to VCS from CIS Studio.

REM # Force SetupPDTool.bat to use default values when present and bypass prompting the user. Values=[Y or N]. This will streamline setup.

REM # Set to "Y" to bypass prompting for defaults values that are set with a value.

set DEF\_FORCE\_PROMPT\_BYPASS=N

REM # Default for I\_JAVA\_HOME

set DEF\_JAVA\_HOME=C:\Program Files\Java\jre7

REM # Default for I\_PDTOOL\_DESTINATION\_HOME

set

DEF\_PDTOOL\_DESTINATION\_HOME=C:\Users\%USERNAME%\compositesw\PDToolStudio7.0.0\_TFS

REM # Default for I\_PDTOOL\_DESTINATION\_DIR

set DEF\_PDTOOL\_DESTINATION\_DIR=PDToolStudio

REM # Default for I\_CONFIGURE\_VCS. Bypass VCS variables when set to "N".

set DEF\_CONFIGURE\_VCS=Y

REM # Default for I\_VCS\_BASE\_TYPE=[SVN|TFS|GIT|P4|CVS]

set DEF\_VCS\_BASE\_TYPE=TFS

REM # Default for I\_VCS\_HOME is the location of where the VCS client executable is located

set

DEF\_VCS\_HOME=%DEF\_PDTOOL\_DESTINATION\_HOME%\VCSClients\TFS\_TEE\_client

REM # Default for I\_VCS\_REPOSITORY\_URL - Always use 4 forward slashes to escape https://url --> https:///url and no slash at the end.

set DEF\_VCS\_REPOSITORY\_URL=http:///localhost:8080/tfs/CompositeCollection

REM # Default for I\_VCS\_PROJECT\_ROOT

```

set DEF_VCS_PROJECT_ROOT=Composite_7.0.0/cis_objects
REM # Default for I_VCS_WORKSPACE_NAME. The name of the workspace.
REM # To use variable delayed expansion put 2 %% signs around each variable
name otherwise simply use a value.
REM # Example: Combination of VCS username and release folder to make a unique
workspace name=%%I_VCS_USERNAME%%%%I_RELEASE_FOLDER%%
set DEF_VCS_WORKSPACE_NAME=TFSsw7
REM # Default for I_VCS_USERNAME. Generally this will be the standard computer
USERNAME value.
set DEF_VCS_USERNAME=%USERNAME%
REM # To be appended to the I_VCS_USERNAME as in user@domain or leave a
blank space if not applicable. TFS requires this.
set DEF_VCS_DOMAIN=
REM # Default for I_CIS_USERNAME used for setup of the Studio VCS property file
set DEF_CIS_USERNAME=admin
REM # Default CIS Domain used for setup of the Studio VCS property file
set DEF_CIS_DOMAIN=composite
REM # Default CIS Hostname used for setup of the Studio VCS property file
set DEF_CIS_HOSTNAME=localhost
REM # Default VCS Configuration property file used for connecting PDToolStudio to
VCS
REM # Existing standard, parameterized, configuration property templates:
REM # studio_SVN.properties, studio_TFS.properties, studio_GIT.properties,
studio_P4.properties, studio_CVS.properties
REM # This is a default value only and may be overridden during PDToolStudio
execution.
set DEF_CONFIG_PROPERTY_FILE=studio_TFS.properties
REM # This is the list of drive letters that PDTool will use to search for the first
available drive.
REM # It will be used as a substitute drive to shorten the overall path to the workspace.
REM # Depending on how /PDToolStudio/bin/setVars.bat is configured, this may be
used for "subst" or it may be used for "net use".
REM # It is recommended to use "net use" because it survives log offs and reboots.
set PDTOOL_SUBSTITUTE_DRIVE_LIST=I: J: K: L: M: N: O: P: R: S: T: U: V: W: X:
Y: Z:

```

- d. **Customization Concept** – if your organization requires the use of multiple VCS configurations, consider making a copy of PDToolStudio-VCS.bat and give it a more specific name that applies to your organizations need. For example, if you require both TFS and Subversion, you could create PDToolStudio-TFS.bat and PDToolStudio-SVN.bat to differentiate the installation package.

### 3. *Configure VCS Clients (Optional):*

- a. *Purpose* – The objective is to provide an out-of-the-box experience for the PDToolStudio user. Rather than having the developer install the VCS client, the installer allows you to “pre-configure” one or more clients. This is optional



however. The installer allows you to configure a pre-defined directory but this must be standard for all users.

*b. Location*

- a. **\VCSClients** – Pre-configured VCS clients are optional if installed elsewhere.
  - i. **\SVN\_client** – Subversion client
  - ii. **\TFS\_TEE\_client** – Team Explorer Everywhere client
  - iii. **\GIT\_client** – Git client
  - iv. **\P4\_client** – Perforce client
  - v. **\CVS\_client** – CVS client
- c. Copy the required client into the appropriate client directory as shown above.
  - a. For SVN, don't copy the /bin folder but instead copy the entire contents of the bin into SVN\_client.
  - b. For TFS, be sure and use the TFS Team Everywhere Explorer (TEE) client and not the GUI client.

*4. Configure PDToolStudio Configuration Property Files:*

- a. *Purpose* – The configuration property files provide a standard mechanism for each CIS server environment. It allows the PDToolStudio Administrator to “pre-configure” which VCS environment PDToolStudio will be allowed to connect to and set environment variables that are specific to that environment. There is a standard naming convention used that is tried and true for any customer environment. PDToolStudio comes pre-configured for each VCS environment. It is up to the PDToolStudio Administrator to configure for their specific environment. For example, studio\_SVN.properties or studio\_TFS.properties.

*b. Location*

- a. [C:\Temp]\PDToolStudio6.2\_installer\installer\_source\PDToolStudio\resources\config
- b. [C:\Temp]\PDToolStudio7.0.0\_installer\installer\_source\PDToolStudio\resources\config

*c. Procedure*

- a. Edit the specific property file for your environment and make sure the required, standard variables are set for your organization:
  - i. SVN=studio\_SVN.properties
  - ii. TFS=studio\_TFS.properties
  - iii. GIT=studio\_GIT.properties
  - iv. CVS=studio\_CVS.properties

- v. P4=studio\_P4.properties
- b. Typical variables to set:
  - i. VCS\_MULTI\_USER\_TOPOLOGY=true
  - ii. VCS\_MULTI\_USER\_DISABLE\_CHECKOUT=true
- c. The Administrator may also put standard, custom organization variables in the configuration property file.
- d. Save when done.

*5. Zip up the Installer Directory:*

a. *Location*

- a. [C:\Temp]\PDToolStudio6.2\_installer
- b. [C:\Temp]\PDToolStudio7.0.0\_installer

*6. Share “pre-configured” PDToolStudio:*

- a. Share the PDToolStudio “pre-configured” installer with others in your organization via a shared drive, Sharepoint or some other shared mechanism.

**FINISHED**

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## CONCLUSION

### *Concluding Remarks*

The AS Promotion and Deployment Tool is a set of pre-built modules intended to provide a turn-key experience for promoting CIS resources from one CIS instance to another. The user only requires system administration skills to operate and support. The code is transparent to operations engineers resulting in better supportability. It is easy for users to swap in different implementations of a module using the Spring framework and configuration files.

### **How you can help!**

Build a module and donate the code back to Cisco Advanced Services for the advancement of the “*AS Promotion and Deployment Tool*”.



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