



PDTool Studio Installer Admin Guide

An Open Source Asset for use with TIBCO® Data Virtualization

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Project Name	AS Assets PDTool (Promotion and Deployment Tool)
Document Location	This document is only valid on the day it was printed. The source of the document will be found in the PDTool and PDToolRelease folder (https://github.com/TIBCOSoftware)
Purpose	User's Guide



www.tibco.com

Global Headquarters
3303 Hillview Avenue
Palo Alto, CA 94304

Tel: +1 650-846-1000
+1 800-420-8450
Fax: +1 650-846-1005

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Related Documents

Name	Author
PDTool Studio Installer User Guide.pdf	Mike Tinius

Supported Versions

Name	Version
TIBCO® Data Virtualization	7.0.4 or later

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1 Introduction

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 DV Studio. The other part of PDTool is simply called PDTool and is focused on deployment and testing.

What gets installed?

- 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 DV 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:

- Architects – who want to understand how PDTool is used with Data Virtualization.
- Developers – who want to deploy resources from a version control system (VCS) such as TFS or Subversion to a target DV server.
- Operations personnel – who wants to encrypt a PDTool file which contains passwords.

Platform Support

The PDTool Studio Installer is only supported on Windows.

References

Product references are shown below. Any references to CIS or DV refer to the current TIBCO® Data Virtualization.

- TIBCO® Data Virtualization was formerly known as
 - Cisco Data Virtualization (DV)
 - Composite Information Server (CIS)

2 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 DV 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. DV Studio 6.2 or 7.0 Installed:

The user must be pre-install DV 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 DV 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 DV 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%\VCS\clients\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 DV Domain used for setup of the Studio VCS property file
set DEF_CIS_DOMAIN=composite
REM # Default DV 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 DV 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

3 Conclusion

Concluding Remarks

The Promotion and Deployment Tool is a set of pre-built modules intended to provide a turn-key experience for promoting DV resources from one DV 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 Professional Services for the advancement of the “**Promotion and Deployment Tool**”.