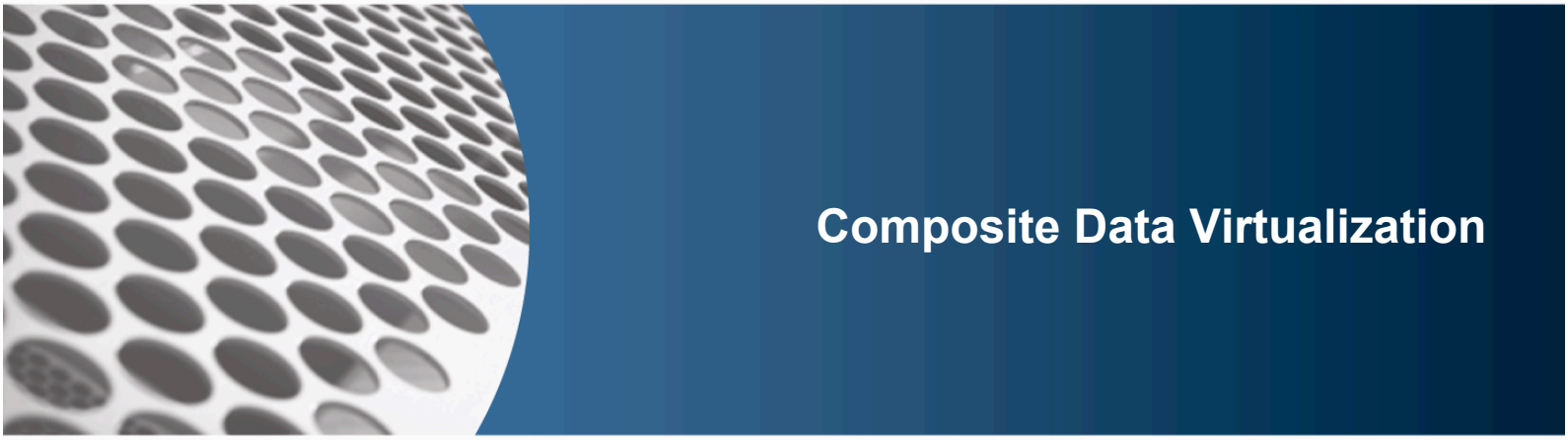
WHITE PAPER

COMPOSITE
— SOFTWARE —



Composite PS Promotion and Deployment Tool

GUI Guide

Composite Professional Services

April 2014

Composite Data Virtualization

TABLE OF CONTENTS

DOCUMENT CONTROL

Version History

Version	Date	Author	Description
1.0	04/24/2014	Calvin Goodrich	Initial revision

Related Documents

Document	File Name	Author
Composite PS Promotion and Deployment Tool User's Guide	Composite PS Promotion and Deployment Tool User's Guide v1.0.pdf	Mike Tinius
Composite PS Promotion and Deployment Tool Installation Guide	Composite PS Promotion and Deployment Tool Installation Guide.pdf	Mike Tinius
PS Promotion and Deployment Tool v1.1	PS Promotion and Deployment Tool - v1.1.ppt	Mike Tinius
Composite PS Promotion and Deployment Tool Module - Archive	Composite PS Promotion and Deployment Tool Module - Archive.pdf	Mike Tinius
Composite PS Promotion and Deployment Tool Module - DataSource	Composite PS Promotion and Deployment Tool Module - DataSource.pdf	Mike Tinius
Composite PS Promotion and Deployment Tool Module - Group	Composite PS Promotion and Deployment Tool Module - Group.pdf	Mike Tinius
Composite PS Promotion and Deployment Tool Module - Privilege	Composite PS Promotion and Deployment Tool Module - Privilege.pdf	Mike Tinius
Composite PS Promotion and Deployment Tool Module - Rebind	Composite PS Promotion and Deployment Tool Module - Rebind.pdf	Jerry Joplin
Composite PS Promotion and Deployment Tool Module - Regression	Composite PS Promotion and Deployment Tool Module - Regression.pdf	*Sergei Sternin*
Composite PS Promotion and Deployment Tool Module - Resource Cache	Composite PS Promotion and Deployment Tool Module - Resource Cache.pdf	Mike Tinius
Composite PS Promotion and Deployment Tool Module - Resource	Composite PS Promotion and Deployment Tool Module - Resource.pdf	Mike Tinius
Composite PS Promotion and Deployment Tool Module - Server Attribute	Composite PS Promotion and Deployment Tool Module - Server Attribute.pdf	Mike Tinius
Composite PS Promotion and Deployment Tool Module - Server Manager	Composite PS Promotion and Deployment Tool Module - Server Manager.pdf	Gordon Rose
Composite PS Promotion and Deployment Tool Module - Trigger	Composite PS Promotion and Deployment Tool Module - Trigger.pdf	Kevin O'Brien
Composite PS Promotion and Deployment Tool Module - User	Composite PS Promotion and Deployment Tool Module - User.pdf	Mike Tinius
Composite PS Promotion and Deployment Tool Module - Version Control System.pdf	Composite PS Promotion and Deployment Tool Module - Version Control System.pdf	Mike Tinius
Composite PS Promotion and Deployment Developer's Guide – Field Edition	Composite PS Promotion and Deployment Tool Developer's Guide - Field Edition.docx	Gordon Rose

Composite Products Referenced

Composite Product Name	Version
Composite Information Server	6.2

INTRODUCTION

Purpose

The purpose of this document is to provide guidance on how to install the Composite "***PS Promotion and Deployment Tool***" graphical user interface (GUI).

Before attempting to install the GUI, please refer to the following documentation on how to install the command line PDTool distribution:

- Composite PS Promotion and Deployment Tool Installation Guide v1.0.pdf

Upon completion of the installation, please refer to the following documentation:

For Users performing promotion and deployment of CIS resources:

1. **User** – Composite PS Promotion and Deployment Tool User's Guide v1.0.pdf
2. **Training** – LabPD-DeployTool.pdf
3. **Modules** – Modularized functionality within the Promotion and Deployment Tool
    - Composite PS Promotion and Deployment Tool Module - Archive.pdf
    - Composite PS Promotion and Deployment Tool Module - DataSource.pdf
    - Composite PS Promotion and Deployment Tool Module - Group.pdf
    - Composite PS Promotion and Deployment Tool Module - Privilege.pdf
    - Composite PS Promotion and Deployment Tool Module - Rebind.pdf
    - Composite PS Promotion and Deployment Tool Module - Regression.pdf
    - Composite PS Promotion and Deployment Tool Module - Resource Cache.pdf
    - Composite PS Promotion and Deployment Tool Module - Resource.pdf
    - Composite PS Promotion and Deployment Tool Module - Server Attribute.pdf
    - Composite PS Promotion and Deployment Tool Module - Server Manager.pdf
    - Composite PS Promotion and Deployment Tool Module - Trigger.pdf
    - Composite PS Promotion and Deployment Tool Module - User.pdf
    - Composite PS Promotion and Deployment Tool Module - Version Control System.pdf

For Developers building new modules to snap into the tool:

1. **Development** – Composite PS Promotion and Deployment Tool Developer's Guide - Field Edition - v1.0.pdf

2. **Training** – LabPD-DeployTool.pdf

Audience

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

- **Operations personnel** – provides guidance on how to develop and execute promotion scripts. The GUI is primarily an ease-of-use addition that is layered on top of the command line version of PDTool.

OS Platforms Supported

Windows Platforms: Windows XP, Windows 7
UNIX Platforms: Linux 5.5
Note: Porting to other operating systems that CIS runs on are available upon request
Java:
JRE 1.6 for command-line deployment
JDK 1.6 for Ant deployment
Browsers:
Internet Explorer: Up to and including version 10. (There is a known issue with IE version 11.)
Firefox: Any version
Chrome: Any version
PDTool command line: 6.2-2014-03-26.r1

DISTRIBUTION

PDTool GUI Contents

1. **pdtoolgui.yml** - contains configuration information (preferences, logging, etc.)
2. **run.bat / run.sh** - runs the application (web) server that the browser will access.
3. **src** – contains the web assets (pages, images, etc.)
4. **target** – contains the java libraries needed to run the GUI.
5. **templates** – contains templates and data source attribute definitions.

INSTALLATION

GUI Installation

Installation of the GUI components is straightforward as it is nothing more than a zip file that is unzipped into the command line PDTool installation folder.

System Requirements

The following system requirements must be met for executing Windows or UNIX scripts.

1. **Java 6**

   1.1. JRE 1.6 is required to be present on the system.

2. **Read/Write Access** – The script must have read/write access to the file system where PDTool is installed. The location of the VCS Workspace must have read/write access by the user. Log files will be written as well.

3. **UNIX (Bourne Shell)** – Scripts on UNIX require access to /bin/sh

4. **PDTool Command Line** - An existing installation of PDTool command line .

Installation Overview

1. **Copy or FTP the PDToolGUI.zip**

2. **Unzip PDToolGUI.zip into an existing PDTool command line installation. A "gui" subfolder is created.**

Installation and Configuration Details

1. **Project Folder** – Select an existing command line PDTool installation folder preferably with no spaces.

   1.1. Windows – e.g. C:\dev\deploy

   1.2. UNIX - e.g. /opt/Deploy

2. **FTP or Copy** – FTP or Copy the PDToolGUI.zip to the project folder

3. **Unzip** – Unzip PDTool.zip into the command line PDTool installation folder you selected in step 1.

4. **Configure run script**

   4.1. Windows – Modify **run.bat**

   4.2. UNIX - Modify **run.sh**

4.3. Update the **APPS_INSTALL_DIR** variable to point to the command line PDTool installation folder.

UPGRADING PDTOOL GUI

How to upgrade an instance of PDTool GUI

This section discusses the procedure for upgrading an instance of PDTool GUI to a new one.

Upgrade an existing install

The following steps outline what a deployment administrator or developer should do to upgrade PDTool GUI from one version to another.

1. **Rename old PDTool directory (previous release)**

    1.1. Make a copy of the existing pdtoolgui.yml file as installing a new version of PDTool GUI will overwrite this. Recall that this file contains the user preferences.

2. **Install new version of PDTool GUI**

    2.1. Copy the PDTool zip file with the pattern "PDToolGUI_bldXXXX.zip" to the PDTool command line installation folder where you want to unzip.

STARTING PDTOOL GUI

Starting the application

The GUI application runs as a web application and is accessed using a web browser. To start the application, simply execute the run.bat or run.sh script in the gui folder in your PDTool command line installation folder.

Accessing the application

Point your browser to http://localhost:9399/pdtoolgui/index.html

By default, the application server listens on port 9399. You can edit the pdtoolgui.yml file to update the port number. This will require a restart of the application server to take effect.

Logging

By default, logging information is output to the console where the run.bat or run.sh script is executed.

Alternatively, the pdtoolgui.yml file can be edited to enable logging to a file and disable logging to the console. Also, various application server components' logging levels can be modified to output more or less information.

PDTOOL GUI INITIAL CONFIGURATION

Preferences

Click on the "CONFIGURATION" tab to bring up the application preferences.

- **Create backup files? -** This determines whether the GUI will make a backup copy of deployment plans, module files, and the server.xml file before every edit.
- **Default Profile -** This determines the deployment profile to display when editing deployment plan steps, executing deployments, and generating data source attributes.
- **Default Server -** This determines the server to display when editing deployment plan steps, executing deployments, and generating data source attributes.
- **Restrict access to local clients? -** This can be used to restrict access to the application server to web browsers that are running on the local machine (no remote access.) It is enabled by default.
- **XML Indent Width -** This determines how many spaces to use for indents before XML elements when writing out XML files.

Servers

The second subheading under "CONFIGURATION" allows for updating the servers.xml file.

Deployment Configurations

The third subheading under "CONFIGURATION" allows for managing deployment profiles.

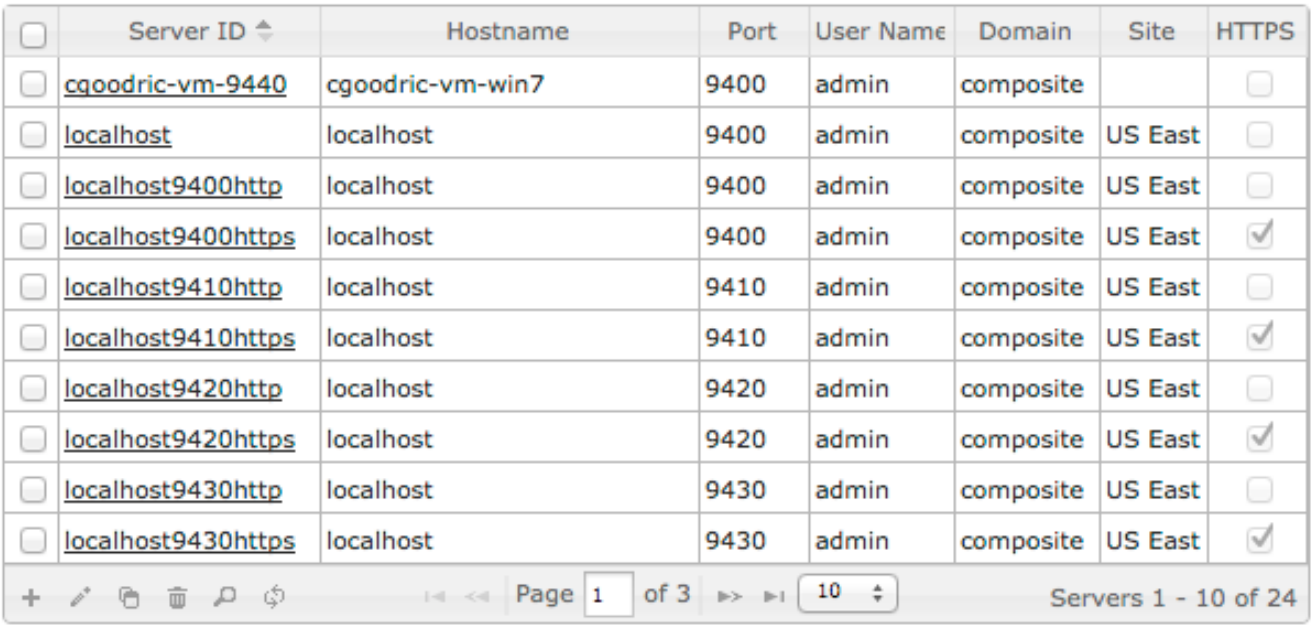
VCS Initialization

The fourth subheading under "CONFIGURATION" allows for determining the status of VCS initialization and also to initialize VCS workspaces.

PDTOOL GUI FEATURES

Table Displays

Many of the screens in the GUI use a tabular display to represent lists of resources:



Server ID	Hostname	Port	User Name	Domain	Site	HTTPS
cgoodric-vm-9440	cgoodric-vm-win7	9400	admin	composite		
localhost	localhost	9400	admin	composite	US East	
localhost9400http	localhost	9400	admin	composite	US East	
localhost9400https	localhost	9400	admin	composite	US East	✓
localhost9410http	localhost	9410	admin	composite	US East	
localhost9410https	localhost	9410	admin	composite	US East	✓
localhost9420http	localhost	9420	admin	composite	US East	
localhost9420https	localhost	9420	admin	composite	US East	✓
localhost9430http	localhost	9430	admin	composite	US East	
localhost9430https	localhost	9430	admin	composite	US East	✓

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- **Sorting** - Most tables can be sorted by clicking on the title of a column. Arrows indicate the direction of the sort.
- **Pagination** - Most tables will paginate the information displayed. The widget at the bottom center of the page enables switching to different pages and also allows the setting of page size. The widget at the bottom right of the table indicates what rows are being displayed.
- **Actions** - All tables will have some sort of actions that can be performed. The buttons at the bottom left of the table will indicate what can be performed. Hovering over a button will reveal a tooltip indicating the action to perform. Clicking on the button will perform the action. Some actions require one or more table rows' checkboxes to be checked.
- **Hyperlinked content** - Most tables will have a column with content that is clickable (the content is underlined to indicate this.) Generally, clicking on a hyperlink will display an editor for changing the contents of the table entry. This performs the same action as checking a row's check box and clicking the "Edit" button.
- **Searching** - All tables will have a "Search" button that can be used to filter the contents being displayed. Clicking the "Search" button will open a dialog that will ask for a column to filter on and filter criteria. Click the "Find" button to engage the filter. Click the "Reset" button to turn filtering off.

- **Auto-Generation** - Some modules allow content to be automatically generated using one of PDTool's generate methods. Clicking on the "Auto-Generate …" button will open a dialog that will prompt for various values used for auto generation. The generated entries will then be merged into the displayed module automatically.

Dialog Windows

Editing of various table entries is done using dialog windows. The various fields will have labels indicating the kind of information to be entered. Hovering over a field label will reveal a tooltip with further information.

- **Spinners** - These are used for numeric information. The up and down arrows will increment or decrement the value. Some spinners only allow a particular range of values and will either stop spinning or flip over to the other end of the range when the end of an acceptable range is reached.
- **Tabular Entries** - Some editors accept a list of tabular information (group membership, data source attributes and values, etc.) These are presented as a loose table of entries. An "Add …" button typically appears at the bottom of the table to add new entries while a button with a trash can icon appears to the right of each row to let the user delete the row.
- **Array, List, Map Dialogs** - Some values for a field are too complex to display with a single input field. These are generally marked with a simple button with a pencil icon. Clicking the button will open a dialog that allows for the entry of array, list, or map data types.
- **Passwords** - The security of password information is very important. These fields are obscured so that the actual password text is not displayed. One of the nicer features of the GUI is that the password is automatically encrypted before it is written out to the underlying file (the command line PDTool required entering passwords in plain text and subsequently executing a call to ExecutePDTool on the file.)
- **Select Lists** - Select lists are used where only a restricted set of values is allowed. In some cases these are constant values (such as resource types.) In others, they are identifiers that are looked up from other configured PDTool components. For example, when configuring an execution plan step for updating a data source, the select list for the data source ID will only display those ID's available in the specified data source module file.
- **Auto Completion** - Some fields have an auto-completion feature enabled such that typing a few letters will display a menu of appropriate values that contain those letters.

CONCLUSION

Concluding Remarks

The PS 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 Composite Professional Services for the advancement of the "***PS Promotion and Deployment Tool***".

ABOUT COMPOSITE SOFTWARE

Composite Software, Inc. ® is the only company that focuses solely on data virtualization.

Global organizations faced with disparate, complex data environments, including ten of the top 20 banks, six of the top ten pharmaceutical companies, four of the top five energy firms, major media and technology organizations as well as government agencies, have chosen Composite's proven data virtualization platform to fulfill critical information needs, faster with fewer resources.

Scaling from project to enterprise, Composite's middleware enables data federation, data warehouse extension, enterprise data sharing, real-time and cloud computing data integration.

Founded in 2002, Composite Software is a privately held, venture-funded corporation based in Silicon Valley. For more information, please visit www.compositesw.com.

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