

# PDTool Group Module User Guide

# An Open Source Asset for use with TIBCO® Data Virtualization

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Purpose	User's Guide	



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# **Related Documents**

Name	Author
PDTool User's Guide.pdf	Mike Tinius

# **Supported Versions**

Name	Version
TIBCO® Data Virtualization	7.0.8 or later

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# 1 Introduction

# **Purpose**

The purpose of the Group Module User Guide is to demonstrate how to effectively use the Group Module and execute actions. Groups are managed within the browser-based Data Virtualization (DV) Manager. The Group Module will allow the automation of creating, updating, deleting groups and generating the Group Module property file.

#### **Audience**

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

- Architects
- Developers
- Administrators
- Operations personnel

#### 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 Group Definition Module

# **Method Definitions and Signatures**

# 1. createOrUpdateGroups

Create CIS groups. If they already exist, update them instead.

```
@param serverId - target server id from servers config xml
@param groupIds - comma separated list of group Ids
@param pathToGroupsXML - path to the groups xml
@param pathToServersXML - path to the server values xml
@return void
@throws CompositeException

public void createOrUpdateGroups(String serverId, String groupIds, String pathToGroupsXML, String pathToServersXML) throws CompositeException;
```

# 2. deleteGroups

Delete CIS groups from a specified domain.

```
@param serverId - target server id from servers config xml
@param groupIds - comma separated list of group Ids
@param pathToGroupsXML - path to the groups xml
@param pathToServersXML - path to the server values xml
@return void
@throws CompositeException

public void deleteGroups(String serverId, String groupIds, String pathToGroupsXML, String pathToServersXML) throws CompositeException;
```

# 3. addUsersToGroups

Add passed in users to the associated with group ids and target server Id.

```
@param serverId - target server id from servers config xml
@param groupIds - comma separated list of group Ids
@param userNames - comma separated user names
@param pathToGroupsXML - path to the groups xml
@param pathToServersXML - path to the server values xml
@return void
```

```
@throws CompositeException

public void addUsersToGroups(String serverId, String groupIds, String
deleteUsersFromGroups String userNames, String pathToGroupsXML, String
pathToServersXML) throws CompositeException;
```

# 4. deleteUsersFromGroups

Delete passed in users from the associated group ids and target server ld.

```
@param serverId - target server id from servers config xml
@param groupIds - comma separated list of group Ids
@param userNames - comma separated user names like username1, username2
@param pathToGroupsXML - path to the groups xml
@param pathToServersXML - path to the server values xml
@return void
@throws CompositeException

public void deleteUsersFromGroups(String serverId, String groupIds, String userNames,String pathToGroupsXML, String pathToServersXML) throws CompositeException;
```

# 5. generateGroupsXML

Export existing CIS groups to a XML file based on the list of passed in group ids and server id.

```
@param serverId - target server id from servers config xml
@param domain - domain name. If domain is not passed then all groups are
included
@param pathToGroupsXML - path including name to the groups xml which
needs to be created
@param pathToServersXML - path to the server values xml
@return void
@throws CompositeException

public void generateGroupsXML(String serverId,String domainName,String
pathToGroupsXML, String pathToServersXML) throws CompositeException;
```

## General Notes:

The arguments pathToGroupsXML and pathToServersXML will be located in PDTool/resources/modules. The value passed into the methods will be the fully qualified path. The paths get resolved when executing the property file and evaluating the \$MODULE\_HOME variable.

# 3 Group Module XML Configuration

A full description of the PDToolModule XML Schema can be found by reviewing /docs/PDToolModule.xsd.html.

# **Description of the Module XML**

The GroupModule XML provides a structure "group" for "create, update, delete, manage users" and generating the user XML. The global entry point node is called "GroupModule" and contains zero or more "group" nodes.

```
<?xml version="1.0"?>
<p1:GroupModule xmlns:p1="http://www.dvbu.cisco.com/ps/deploytool/modules">
       <id>group1</id>
       <groupName>group1</groupName>
       <groupDomain>composite/groupDomain>
       vilege>ACCESS TOOLS
   </group>
   <group>
       <id>qroup2</id>
       <groupName>group2</groupName>
       <groupDomain>composite/groupDomain>
       MODIFY ALL USERS READ ALL CONFIG READ ALL RESOURCES READ ALL STATUS READ ALL USERS
UNLOCK RESOURCE</privilege>
   </group>
</pl></pl></ri></pr></ri></pr></ri></pr></ri></pr></ri>d</pr></ri>
```

#### Attributes of Interest

*id* – a unique identifier within the file.

**groupName** – this value is tells the system the name of the group.

*groupDomain* – this value is tells the system which "valid' domain the user belongs to.

#### **Attribute Value Restrictions**

privilege - A space separated list of Privilege Access Rights that may include 1 or more of
[ACCESS\_TOOLS MODIFY\_ALL\_CONFIG MODIFY\_ALL\_RESOURCES MODIFY\_ALL\_STATUS
MODIFY\_ALL\_USERS READ\_ALL\_CONFIG READ\_ALL\_RESOURCES READ\_ALL\_STATUS READ\_ALL\_USERS
UNLOCK RESOURCE]

Schema validation uses the following set:

# 4 How To Execute

The following section describes how to setup a property file for both command line and Ant and execute the script. This script will use the GroupModule.xml that was described in the previous section.

#### **Script Execution**

The full details on property file setup and script execution can be found in the document "PDTool User's Guide.pdf". The abridged version is as follows:

Windows: ExecutePDTool.bat -exec ../resources/plans/UnitTest-Group.dp Unix: ./ExecutePDTool.sh -exec ../resources/plans/UnitTest-Group.dp **Properties File (UnitTest-Group.dp):** 

# Property File Rules:

```
UnitTest-Group.dp
   1. All parameters are space separated. Commas are not used.
         a. Any number of spaces may occur before or after any parameter and are
trimmed.
   2. Parameters should always be enclosed in double quotes according to these rules:
          a. when the parameter value contains a comma separated list:
                                     ANSWER: "ds1, ds2, ds3"
         b. when the parameter value contain spaces or contains a dynamic variable that
will resolve to spaces
            i.
                 There is no distinguishing between Windows and Unix variables. Both
UNIX style variables ($VAR) and
                  and Windows style variables (%VAR%) are valid and will be parsed
accordingly.
            ii. All parameters that need to be grouped together that contain spaces
are enclosed in double quotes.
            iii. All paths that contain or will resolve to a space must be enclosed in
double quotes.
                 An environment variable (e.g. $MODULE HOME) gets resolved on
invocation PDTool.
                        Paths containing spaces must be enclosed in double quotes:
                               ANSWER: "$MODULE HOME/LabVCSModule.xml"
                        Given that MODULE HOME=C:/dev/Cis Deploy Tool/resources/modules,
PDTool automatically resolves the variable to
                        "C:/dev/Cis Deploy Tool/resources/modules/LabVCSModule.xml".
          c. when the parameter value is complex and the inner value contains spaces
                    i. In this example $PROJECT HOME will resolve to a path that
contains spaces such as C:/dev/Cis Deploy Tool
                        For example take the parameter -pkgfile
$PROJECT HOME$/bin/carfiles/testout.car.
```

```
# Since the entire command contains a space it must be enclosed in double quotes:

# ANSWER: "-pkgfile $PROJECT_HOME/bin/carfiles/testout.car"

# 3. A comment is designated by a # sign preceding any other text.

# a. Comments may occur on any line and will not be processed.

# 4. Blank lines are not processed

# a. Blank lines are counted as lines for display purposes

# b. If the last line of the file is blank, it is not counted for display purposes.

#
```

# Property File Parameters:

# Property File Example:

```
# -----
# Begin task definition list for UNIX:
PASS FALSE ExecuteAction generateGroupsXML $SERVERID composite
     $MODULE HOME/getGroupModule.xml $MODULE HOME/servers.xml
PASS FALSE ExecuteAction deleteGroups
                                               $SERVERID group1
     $MODULE HOME/GroupModule.xml $MODULE HOME/servers.xml
PASS
     FALSE ExecuteAction
                         createOrUpdateGroups $SERVERID "group1, group2"
     $MODULE HOME/GroupModule.xml $MODULE HOME/servers.xml
     FALSE ExecuteAction addUsersToGroups
                                              $SERVERID group1 "user3"
PASS
     $MODULE_HOME/GroupModule.xml $MODULE_HOME/servers.xml
PASS FALSE ExecuteAction deleteUsersFromGroups $SERVERID group1 "user3"
      $MODULE HOME/GroupModule.xml $MODULE HOME/servers.xml
```

#### **Ant Execution**

The full details on build file setup and ant execution can be found in the document "PDTool User's Guide.pdf". The abridged version is as follows:

Windows: ExecutePDTool.bat -ant ../resources/ant/build-Group.xml Unix: ./ExecutePDTool.sh -ant ../resources/ant/build-Group.xml

### **Build File:**

```
<?xml version="1.0" encoding="UTF-8"?>
cproject name="PDTool" default="default" basedir=".">
```

```
<description>description</description>
 <!-- Default properties -->
 property name="SERVERID"
                                          value="localhost"/>
 property name="noarguments"
                                          value="" ""/>
 <!-- Custom properties -->
 property name="groupIds"
                                          value="group1, group2"/>
 cproperty name="pathToGenGroupXML"
                                          value="${MODULE HOME}/getGroupModule.xml"/>
 <!-- Default Path properties -->
 property name="RESOURCE HOME"
                                          value="${PROJECT HOME}/resources"/>
 property name="MODULE HOME"
                                          value="${RESOURCE HOME}/modules"/>
 cproperty name="pathToServersXML"
                                          value="${MODULE HOME}/servers.xml"/>
 property name="pathToArchiveXML"
                                          value="${MODULE HOME}/ArchiveModule.xml"/>
                                          value="${MODULE HOME}/DataSourceModule.xml"/>
 property name="pathToDataSourcesXML"
 property name="pathToGroupsXML"
                                          value="${MODULE HOME}/GroupModule.xml"/>
 cproperty name="pathToPrivilegeXML"
                                          value="${MODULE HOME}/PrivilegeModule.xml"/>
 cproperty name="pathToRebindXML"
                                          value="${MODULE HOME}/RebindModule.xml"/>
 cproperty name="pathToRegressionXML"
                                          value="${MODULE HOME}/RegressionModule.xml"/>
 cproperty name="pathToResourceXML"
                                          value="${MODULE HOME}/ResourceModule.xml"/>
 property name="pathToResourceCacheXML"
                                          value="${MODULE HOME}/ResourceCacheModule.xml"/>
 property name="pathToTriggerXML"
                                          value="${MODULE HOME}/TriggerModule.xml"/>
 property name="pathToUsersXML"
                                          value="${MODULE HOME}/UserModule.xml"/>
 property name="pathToVCSModuleXML"
                                          value="${MODULE HOME}/VCSModule.xml"/>
 <!-- Default Classpath [Do Not Change] -->
 <path id="project.class.path">
      <fileset dir="${PROJECT HOME}/lib"><include name="**/*.jar"/></fileset>
      <fileset dir="${PROJECT HOME}/dist"><include name="**/*.jar"/></fileset>
      <fileset dir="${PROJECT HOME}/ext/ant/lib"><include name="**/*.jar"/></fileset>
 </path>
 <taskdef name="executeJavaAction" description="Execute Java Action"</pre>
classname="com.tibco.ps.deploytool.ant.CompositeAntTask" classpathref="project.class.path"/>
target: default
<target name="default" description="Update CIS with environment specific parameters">
 <!-- Windows / UNIX -->
 <executeJavaAction description="Generate"</pre>
                                                 action="generateGroupsXML"
      \verb|arguments| ``s{SERVERID}^composite^${pathToGenGroupXML}^${pathToServersXML}'' |
      endExecutionOnTaskFailure="TRUE" endExecutionOnScriptLaunch="TRUE"/>
 <executeJavaAction description="Delete"</pre>
                                                 action="deleteGroups"
      arguments="${SERVERID}^${groupIds}^${pathToGroupsXML}^${pathToServersXML}"
      endExecutionOnTaskFailure="TRUE" endExecutionOnScriptLaunch="TRUE"/>
 <executeJavaAction description="CreateOrUpdate" action="createOrUpdateGroups"</pre>
      arguments = "${SERVERID}^{$groupIds}^{$groupIds}^{$groupSML}^{$groupSML}^{$groupSML}^{$groupSML}}"
       endExecutionOnTaskFailure="TRUE" endExecutionOnScriptLaunch="TRUE"/>
```

```
<executeJavaAction description="AddUsers" action="addUsersToGroups"
    arguments="${SERVERID}^${groupIds}^user3^${pathToGroupsXML}^${pathToServersXML}"
    endExecutionOnTaskFailure="TRUE" endExecutionOnScriptLaunch="TRUE"/>

<executeJavaAction description="DeleteUsers" action="deleteUsersFromGroups"
    arguments="${SERVERID}^${groupIds}^user3^${pathToGroupsXML}^${pathToServersXML}"
    endExecutionOnTaskFailure="TRUE" endExecutionOnScriptLaunch="TRUE"/>
```

</target>

</project>

# 5 PDTool Examples

The following are common scenarios when using the GroupModule.

# Scenario 1 – Generate Group XML

#### **Description:**

Generate the group xml property file based on the domain "composite".

# XML Configuration Sample:

Not applicable for this example.

## **Execution Sample:**

Unix: ./ExecutePDTool.sh -exec ../resources/plans/UnitTest-Group.dp Property file setup for UnitTest-Group.dp:

```
# ------
# Begin task definition list for UNIX:
# -------
# Generate
PASS FALSE ExecuteAction generateGroupsXML $SERVERID composite
   $MODULE_HOME/getGroupModule.xml $MODULE_HOME/servers.xml
```

## **Results Expected:**

The file getGroupModule.xml is produced with only groups from the "composite" domain.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:GroupModule xmlns:ns2="http://www.dvbu.cisco.com/ps/deploytool/modules">
   <group>
       <id>admin-0</id>
       <groupName>admin</groupName>
       <groupDomain>composite/groupDomain>
       MODIFY ALL STATUS MODIFY ALL USERS READ ALL CONFIG READ ALL RESOURCES
READ ALL STATUS READ ALL USERS UNLOCK RESOURCE</privilege>
   </group>
   <group>
       <id>all-1</id>
       <groupName>all</groupName>
       <groupDomain>composite/groupDomain>
       vilege>NONE</privilege>
   </group>
   <group>
       <id>group1-2</id>
       <groupName>group1</groupName>
```

# Scenario 2 - Delete Groups

# **Description:**

Delete groups. If the group does not exist then no action is taken.

# **XML Configuration Sample:**

Use the GroupModule XML file and make sure it has an entry that looks like this:

# **Execution Sample:**

Unix: ./ExecutePDTool.sh -exec ../resources/plans/UnitTest-Group.dp Property file setup for UnitTest-Group.dp:

```
# ------
# Begin task definition list for UNIX:
# ------
# Delete
PASS FALSE ExecuteAction deleteGroups $SERVERID "group1,group2"
    $MODULE_HOME/GroupModule.xml $MODULE_HOME/servers.xml
```

## **Results Expected:**

The script will report "PASS" for the execution of this action. Open DV Manager and review the list of groups. The groups "group1 and group2" should <u>not</u> exist.

# Scenario 3 - Create Or Update Groups

# **Description:**

Create or update groups. If the group does not exist then create it otherwise update it.

# XML Configuration Sample:

Use the GroupModule XML file and make sure it has an entry that looks like this:

# **Execution Sample:**

Unix: ./ExecutePDTool.sh -exec ../resources/plans/UnitTest-Group.dp Property file setup for UnitTest-Group.dp:

```
# ------
# Begin task definition list for UNIX:
# -------
# Create or Update

PASS FALSE ExecuteAction createOrUpdateGroups $SERVERID "group1,group2"
    $MODULE HOME/GroupModule.xml $MODULE HOME/servers.xml
```

## **Results Expected:**

The script will report "PASS" for the execution of this action. Open DV Manager and review the list of groups. The groups "group1 and group2" should exist now.

# **6 Exceptions and Messages**

The following are common exceptions and messages that may occur.

# **Wrong Number of Arguments:**

This may occur when you do not place double quotes around comma separated lists.

# 7 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 DEV 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*".