PDTool Server Attribute Module User Guide

An Open Source Asset for use with TIBCO® Data Virtualization

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| **Project Name** | AS Assets PDTool (Promotion and Deployment Tool) |
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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

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1. Introduction

## Purpose

The purpose of the Server Attribute Module User Guide is to demonstrate how to effectively use the Server Attribute Module and execute actions. Server Attributes are typically modified within the Studio Administration and Configuration. There are many different types of server attributes ranging from Data Virtualization (DV) Discovery, Monitor, Server, Studio, Data Sources and the Change Management Service. The Server Attribute module will allow the update of these configuration items to be automated via scripts instead of having to manually set them in DV Studio.

## 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)

1. Server Attribute Module Definition

## Method Definitions and Signatures

### updateServerAttributes

Update a DV server and studio configuration based on the list of server attributes ids that are passed in. Note: An exception will be thrown if an attribute is attempted to be updated that has an update rule of READ\_ONLY. Information on whether an attribute is “READ\_ONLY” or “READ\_WRITE” can be found by generating the attribute definitions.

@param serverId - target server id from server XML configuration file

@param serverAttributeIds - list of server attributes Ids (comma separated server attributes Ids). Server Attribute Ids rules:

1. csv string like sa1,sa2 (only server attributes Ids in this list are processed.)
2. '\*' or whatever is configured to indicate all resources (all server attribute Ids are processed in the module XML configuration file.
3. csv string with '-' or whatever is configured to indicate exclude resources as prefix like -sa1,sa2 (all resources in the module XML configuration file are processed except this passed in list)

@param pathToServerAttributesXML - path to the server attribute module XML configuration file

@param pathToServersXML - path to the server XML configuration file

@throws CompositeException

public void updateServerAttributes(String serverId, String serverAttributeIds, String pathToServerAttributesXML, String pathToServersXML) throws CompositeException;

### generateServerAttributesXML

Generate a file containing all server attributes for a given starting path and a given update rule.

@param serverId - target server id from server XML configuration file

@param startPath - starting path of the server attribute folder e.g. /server

@param pathToServerAttributeXML path including name to the server attributes XML which will be generated

@param pathToServersXML - path to the server XML configuration file

@param updateRule - the type of rule described by the attribute definition

READ\_ONLY - only get attributes where updateRule=READ\_ONLY

READ\_WRITE - only get attributes where updateRule=READ\_WRITE (this should be considered the default behavior because READ\_ONLY rules cannot be updated)

\* - get all attributes

@throws CompositeException

public void generateServerAttributesXML(String serverId, String startPath, String pathToServerAttributeXML, String pathToServersXML, String updateRule) throws CompositeException;

The following starting paths provide a listing of high-level categories which can be configured:

/cms – DV Change Management Service configuration attributes

/discovery – DV Discovery configuration attributes

/monitor – DV Monitor configuration attributes

/server – DV Information Server configuration attributes

/sources – DV Data Sources configuration attributes

/studio – DV Studio configuration attributes

The following structure is an example of what is generated:

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<ns2:ServerAttributeModule xmlns:ns2="http://www.dvbu.cisco.com/ps/deploytool/modules">

<serverAttribute>

<id>studio1</id>

<name>/studio/data/cursorFetchLimit</name>

<type>INTEGER</type>

<value>2000</value>

</serverAttribute>

</ns2:ServerAttributeModule>

### generateServerAttributeDefinitionsXML

Generate a file containing all server attribute definitions for a given starting path and a given update rule. Attribute Definitions describe how an attribute is defined and whether it can be updated or not.

@param serverId - target server id from server XML configuration file

@param startPath - starting path of the server attribute folder e.g. /server

@param pathToServerAttributeXML - path including name to the server attribute definition XML which will be generated

@param pathToServersXML - path to the server XML configuration file

@param updateRule - the type of rule described by the attribute definition

READ\_ONLY - only get attribute definitions where updateRule=READ\_ONLY

READ\_WRITE - only get attribute definitions where updateRule=READ\_WRITE

\* - get all attribute definitions

@throws CompositeException

public void generateServerAttributeDefinitionsXML(String serverId, String startPath, String pathToServerAttributeXML, String pathToServersXML, String updateRule) throws CompositeException;

The following starting paths provide a listing of high-level categories of attribute definitions:

/cms – DV Change Management Service configuration attributes

/discovery – DV Discovery configuration attributes

/monitor – DV Monitor configuration attributes

/server – DV Information Server configuration attributes

/sources – DV Data Sources configuration attributes

/studio – DV Studio configuration attributes

The following structure is an example of what is generated:

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<ns2:ServerAttributeModule xmlns:ns2="http://www.dvbu.cisco.com/ps/deploytool/modules">

<serverAttributeDef>

<id>studio1</id>

<name>/studio/data/cursorFetchLimit</name>

<type>INTEGER</type>

<annotation>This value affects how many rows can be fetched by Studio when looking at the results for a SQL request or procedure output.</annotation>

<defaultValue>1000</defaultValue>

<displayName>Cursor Fetch Limit</displayName>

<minValue>1</minValue>

<unitName>rows</unitName>

<updateRule>READ\_WRITE</updateRule>

</serverAttributeDef>

</ns2:ServerAttributeModule>

General Notes:

The arguments pathToServerAttributeXML 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.

1. Server Attribute Module XML Configuration

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

## Description of the ServerAttributeModule XML for (serverAttribute)

The ServerAttributeModule XML provides a structure “serverAttribute” for updating the DV server attributes and generating the base attribute XML configuration file. Then entry point node is called ServerAttributeModule and contains a choice of children [serverAttribute | serverAttributeDef].

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<ns2:ServerAttributeModule xmlns:ns2="http://www.dvbu.cisco.com/ps/deploytool/modules">

**<!-- Example of Simple Value Type -->**

**<!-- Contains a simple type and value -->**

<serverAttribute>

<id>studio1</id>

<name>/studio/data/cursorFetchLimit</name>

<type>INTEGER</type>

<value>2000</value>

</serverAttribute>

**<!-- Example of Value Array Type -->**

**<!-- Contains an item list of values -->**

<serverAttribute>

<id>monitor43</id>

<name>/monitor/server/connection/secondaryHosts</name>

<type>STRING\_ARRAY</type>

<valueArray>

<item>localhost</item>

<item>host2</item>

</valueArray>

</serverAttribute>

**<!-- Example of Value List Type -->**

**<!-- Contains an item list with type and value -->**

<serverAttribute>

<id>studio2</id>

<name>/studio/data/examplelist</name>

<type>LIST</type>

<valueList>

<item>

<type>STRING</type>

<value>a1</value>

</item>

<item>

<type>STRING</type>

<value>b1</value>

</item>

</valueList>

</serverAttribute>

**<!-- Example of Value Map Type -->**

**<!-- Contains an entry list of Key/Value pairs each containing type and value -->**

<serverAttribute>

<id>studio3</id>

<name>/studio/data/examplemap</name>

<type>MAP</type>

<valueMap>

<entry>

<key>

<type>STRING</type>

<value>key1</value>

</key>

<value>

<type>STRING</type>

<value>value1</value>

</value>

</entry>

<entry>

<key>

<type>STRING</type>

<value>key2</value>

</key>

<value>

<type>STRING</type>

<value>value2</value>

</value>

</entry>

</valueMap>

</serverAttribute>

</ns2:ServerAttributeModule>

## Description of the ServerAttributeModule XML for (serverAttributeDef)

The ServerAttributeModule XML provides a structure “serverAttributeDef” for generating the base attribute definition XML. This node is not used when updating server attributes. The entry point node is called ServerAttributeModule and contains a choice of children [serverAttribute | serverAttributeDef].

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<ns2:ServerAttributeModule xmlns:ns2="http://www.dvbu.cisco.com/ps/deploytool/modules">

**<!-- Example of Simple Value Type -->**

**<!-- Contains a simple type and value -->**

<serverAttributeDef>

<id>studio1</id>

<name>/studio/data/cursorFetchLimit</name>

<type>INTEGER</type>

<annotation>This value affects how many rows can be fetched by Studio when looking at the results for a SQL request or procedure output.</annotation>

<defaultValue>1000</defaultValue>

<displayName>Cursor Fetch Limit</displayName>

<minValue>1</minValue>

<unitName>rows</unitName>

<updateRule>READ\_WRITE</updateRule>

</serverAttributeDef>

**<!-- Example of Value Array Type -->**

**<!-- Contains an item list of values -->**

<serverAttributeDef>

<id>monitor43</id>

<name>/monitor/server/connection/secondaryHosts</name>

<type>STRING\_ARRAY</type>

<annotation>The list of hosts that are known to be in the cluster that the Monitor Server connects with. If the Monitor Server fails to connect with a DV instance when it first starts up, it will try one of the other hosts in this list. This list is automatically populated when a the Monitor Server is configured to monitor a DV instance as a cluster.</annotation>

<displayName>Secondary DV Hosts</displayName>

<updateRule>READ\_WRITE</updateRule>

</serverAttributeDef>

**<!-- Example of Value List Type -->**

**<!-- Contains an item list with type and value -->**

<serverAttributeDef>

<id>studio2</id>

<name>/studio/data/examplelist</name>

<type>LIST</type>

<annotation>Example List</annotation>

<displayName>Example List</displayName>

<unitName>List</unitName>

<updateRule>READ\_WRITE</updateRule>

</serverAttributeDef>

**<!-- Example of Value Map Type -->**

**<!-- Contains an entry list of Key/Value pairs each containing type and value -->**

<serverAttributeDef>

<id>studio3</id>

<name>/studio/data/examplemap</name>

<type>MAP</type>

<annotation>Example Map</annotation>

<displayName>Example Map</displayName>

<unitName>Key-Value Map</unitName>

<updateRule>READ\_WRITE</updateRule>

</serverAttributeDef>

</ns2:ServerAttributeModule>

## Attributes of Interest

***id*** – this value is generated by the “generate…XML()” methods. It uses the first token in the server attribute path + a sequence number when generating. The value must be unique within the XML configuration file. The values are not guaranteed to be the same for different executions of the “generate...XML()” methods. The user may configure an XML file by hand if they wish but bear in mind that the id must be unique.

***name*** – this value is the actual server attribute path and is unique across all server attribute configurations. The same path describes the server attribute and the server attribute definition.

***updateRule*** – this value is only provided by the server attribute definition. It is used by the method generateServerAttributesXML to determine which server attributes to generate to the configuration file based on the udpateRule input argument.

## Attribute Value Restrictions

***updateRule*** – contains either READ\_ONLY or READ\_WRITE.

***type*** – all occurrences of this element have the following restrictions:

    <xs:simpleType name="AttributeTypeSimpleType">  
        <xs:restriction base="xs:string">  
            <xs:enumeration value="BOOLEAN"/>  
            <xs:enumeration value="BOOLEAN\_ARRAY"/>  
            <xs:enumeration value="BYTE"/>  
            <xs:enumeration value="BYTE\_ARRAY"/>  
            <xs:enumeration value="DATE"/>  
            <xs:enumeration value="DATE\_ARRAY"/>  
            <xs:enumeration value="DOUBLE"/>  
            <xs:enumeration value="DOUBLE\_ARRAY"/>  
            <xs:enumeration value="FILE\_PATH\_STRING"/>  
            <xs:enumeration value="FLOAT"/>  
            <xs:enumeration value="FLOAT\_ARRAY"/>  
            <xs:enumeration value="FOLDER"/>  
            <xs:enumeration value="INT\_ARRAY"/>  
            <xs:enumeration value="INTEGER"/>  
            <xs:enumeration value="LIST"/>  
            <xs:enumeration value="LONG"/>  
            <xs:enumeration value="LONG\_ARRAY"/>  
            <xs:enumeration value="MAP"/>  
            <xs:enumeration value="NULL"/>  
            <xs:enumeration value="OBJECT"/>  
            <xs:enumeration value="PASSWORD\_STRING"/>  
            <xs:enumeration value="PATH\_STRING"/>  
            <xs:enumeration value="SET"/>  
            <xs:enumeration value="SHORT"/>  
            <xs:enumeration value="SHORT\_ARRAY"/>  
            <xs:enumeration value="STRING"/>  
            <xs:enumeration value="STRING\_ARRAY"/>  
            <xs:enumeration value="UNKNOWN"/>  
        </xs:restriction>  
    </xs:simpleType>

1. 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 ServerAttributeModule.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-ServerAttribute.dp

Unix: ./ExecutePDTool.sh -exec ../resources/plans/UnitTest-ServerAttribute.dp

***Properties File (UnitTest-ServerAttribute.dp):***

Property File Rules:

# ----------------------------

# UnitTest-ServerAttributes.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:

# ----------------------------

# Parameter Specification:

# ----------------------------

# Param1=[PASS or FAIL] :: Expected Regression Behavior. Informs the script whether you expect the action to pass or fail. Can be used for regression testing.

# Param2=[TRUE or FALSE] :: Exit Orchestration script on error

# Param3=Module Batch/Shell Script name to execute (no extension). Extension is added by script.

# Param4=Module Action to execute

# Param5-ParamN=Specific space separated parameters for the action. See Property Rules below.

Property File Example:

# -----------------------------------------

# Begin task definition list:

# -----------------------------------------

#

PASS FALSE ExecuteAction generateServerAttributesXML $SERVERID "/" $MODULE\_HOME/getServerAttributeModule.xml $MODULE\_HOME/servers.xml "READ\_WRITE"

#

PASS FALSE ExecuteAction generateServerAttributeDefinitionsXML $SERVERID "/" $MODULE\_HOME/getServerAttributeDefinitionModule.xml $MODULE\_HOME/servers.xml "\*"

#

PASS FALSE ExecuteAction updateServerAttributes $SERVERID "server1" $MODULE\_HOME/ServerAttributeModule.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/plans/build-ServerAttribute.xml

Unix: ./ExecutePDTool.sh -ant ../resources/plans/build-ServerAttribute.xml

***Build File:***

<?xml version="1.0" encoding="UTF-8"?>

<project name="PDTool" default="default" basedir=".">

<description>description</description>

<!-- Default properties -->

<property name="SERVERID" value="localhost"/>

<property name="noarguments" value="&quot;&quot;"/>

<!-- Default Path properties -->

<property name="RESOURCE\_HOME" value="${PROJECT\_HOME}/resources"/>

<property name="MODULE\_HOME" value="${RESOURCE\_HOME}/modules"/>

<property name="pathToServersXML" value="${MODULE\_HOME}/servers.xml"/>

<property name="pathToArchiveXML" value="${MODULE\_HOME}/ArchiveModule.xml"/>

<property name="pathToDataSourcesXML" value="${MODULE\_HOME}/DataSourceModule.xml"/>

<property name="pathToGroupsXML" value="${MODULE\_HOME}/GroupModule.xml"/>

<property name="pathToPrivilegeXML" value="${MODULE\_HOME}/PrivilegeModule.xml"/>

<property name="pathToRebindXML" value="${MODULE\_HOME}/RebindModule.xml"/>

<property name="pathToRegressionXML" value="${MODULE\_HOME}/RegressionModule.xml"/>

<property name="pathToResourceXML" value="${MODULE\_HOME}/ResourceModule.xml"/>

<property name="pathToResourceCacheXML" value="${MODULE\_HOME}/ResourceCacheModule.xml"/>

<property name="pathToServerAttributeXML" value="${MODULE\_HOME}/ServerAttributeModule.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"/>

<!-- Custom properties -->

<property name="serverAttributes" value="studio1,studio2"/>

<property name="pathToGenServerAttributeXML" value="${MODULE\_HOME}/getServerAttributeModule.xml"/>

<property name="pathToGenServerAttributeDefXML" value="${MODULE\_HOME}/getServerAttributeDefModule.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" classname="com.tibco.ps.deploytool.ant.CompositeAntTask" classpathref="project.class.path"/>

<!-- =================================

target: default

================================= -->

<target name="default" description="Update DV with environment specific parameters">

<!-- Execute Line Here -->

<executeJavaAction description="Update" action="updateServerAttributes" arguments="${SERVERID}^${serverAttributes}^${pathToServerAttributeXML}^${pathToServersXML}" endExecutionOnTaskFailure="TRUE" />

<!-- Windows or UNIX: Entire list of actions

<executeJavaAction description="Generate Atribute" action="generateServerAttributesXML" arguments="${SERVERID}^/^${pathToServerAttributeXML}^${pathToServersXML}^READ\_WRITE" endExecutionOnTaskFailure="TRUE" />

<executeJavaAction description="Generate Attribute Definitions" action="generateServerAttributeDefinitionsXML" arguments="${SERVERID}^/^${pathToServerAttributeDefsXML}^${pathToServersXML}^\*" endExecutionOnTaskFailure="TRUE" />

<executeJavaAction description="Update" action="updateServerAttributes" arguments="${SERVERID}^${serverAttributes}^${pathToServerAttributeXML}^${pathToServersXML}" endExecutionOnTaskFailure="TRUE" />

-->

</target>

</project>

## Module ID Usage

The following explanation provides a general pattern for module identifiers. The module identifier for this module is “serverAttributeIds”.

* Possible values for the module identifier:
* 1. ***Inclusion List*** - CSV string like “id1,id2”
  + PDTool will process only the passed in identifiers in the specified module XML file.

Example command-line property file

PASS FALSE ExecuteAction updateServerAttributes $SERVERID "server1,server2" $MODULE\_HOME/ServerAttributeModule.xml $MODULE\_HOME/servers.xml

Example Ant build file

<executeJavaAction description="Update" action="updateServerAttributes" arguments="${SERVERID}^**server1,server2**^${pathToServerAttributeXML}^${pathToServersXML}"

* 2. ***Process All*** - '\*' or whatever is configured to indicate all resources
  + PDTool will process all resources in the specified module XML file.

Example command-line property file

PASS FALSE ExecuteAction updateDataSources $SERVERID "**\***" "$MODULE\_HOME/DataSourceModule.xml" "$MODULE\_HOME/servers.xml"

Example Ant build file

<executeJavaAction description="Update" action="updateServerAttributes" arguments="${SERVERID}^**\***^${pathToServerAttributeXML}^${pathToServersXML}"

* 3. ***Exclusion List*** - CSV string with '-' or whatever is configured to indicate exclude resources as prefix like “-id1,id2”
  + PDTool will ignore passed in resources and process the rest of the identifiers in the module XML file.

Example command-line property file

PASS FALSE ExecuteAction updateServerAttributes $SERVERID "-server1,server2" $MODULE\_HOME/ServerAttributeModule.xml $MODULE\_HOME/servers.xml

Example Ant build file

<executeJavaAction description="Update" action="updateServerAttributes" arguments="${SERVERID}^**-server1,server2**^${pathToServerAttributeXML}^ ${pathToServersXML}"

1. PDTool Examples

The following are common scenarios when using the ServerAttributeModule.

## Scenario 1 – Generate Server Attributes XML

**Description:**

Generate the server attributes xml for “/studio” properties and READ\_WRITE update rule.

**XML Configuration Sample:**

Not applicable for this example.

**Execution Sample:**

Unix: ./PDTool.sh UnitTest-ServerAttribute.dp

Property file setup for UnitTest-ServerAttribute.dp:

# -----------------------------------------

# Begin task definition list for UNIX:

# -----------------------------------------

# Generate READ\_WRITE server attributes to ServerAttributeModule2.xml

PASS FALSE ExecuteAction generateServerAttributesXML $SERVERID "/studio" $MODULE\_HOME/ServerAttributeModule2.xml $MODULE\_HOME/servers.xml "READ\_WRITE"

**Results Expected:**

The file getServerAttributeModule.xml is produced with only /studio server attributes populated.

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<ns2:ServerAttributeModule xmlns:ns2="http://www.dvbu.cisco.com/ps/deploytool/modules">

<serverAttribute>

<id>studio1</id>

<name>/studio/data/cursorFetchLimit</name>

<type>INTEGER</type>

<value>2000</value>

</serverAttribute>

<serverAttribute>

<id>studio2</id>

<name>/studio/data/examplelist</name>

<type>LIST</type>

<valueList/>

</serverAttribute>

<serverAttribute>

<id>studio3</id>

<name>/studio/data/examplemap</name>

<type>MAP</type>

<valueMap/>

</serverAttribute>

<serverAttribute>

<id>studio4</id>

<name>/studio/data/rowFetchSize</name>

<type>INTEGER</type>

<value>2000</value>

</serverAttribute>

<serverAttribute>

<id>studio5</id>

<name>/studio/data/xmlTextLimit</name>

<type>INTEGER</type>

<value>10000</value>

</serverAttribute>

<serverAttribute>

<id>studio6</id>

<name>/studio/lock/enabled</name>

<type>BOOLEAN</type>

<value>true</value>

</serverAttribute>

</ns2:ServerAttributeModule>

## Scenario 2 – Update Server Attributes

**Description:**

Update the DV configuration for specific studio server attributes.

**XML Configuration Sample:**

Use the Server Attribute XML file that was generated in scenario 1. Modify the following attributes so that you can tell they have been changed:

<id>studio1</id>

<name>/studio/data/cursorFetchLimit</name>

<value>1500</value>

<id>studio5</id>

<name>/studio/data/xmlTextLimit</name>

<value>200000</value>

**Execution Sample:**

Unix: ./ExecutePDTool.sh -exec ../resources/plans/UnitTest-ServerAttribute.dp

Property file setup for UnitTest-ServerAttribute.dp:

# -----------------------------------------

# Begin task definition list for UNIX:

# -----------------------------------------

# Update server attributes defined by the list "studio1,studio5"

PASS FALSE ExecuteAction updateServerAttributes $SERVERID "studio1,studio5" $MODULE\_HOME/ServerAttributeModule2.xml $MODULE\_HOME/servers.xml

**Results Expected:**

The script will report “PASS” for the execution of this action. Open DV Studio and review the changes for Studio.

1. 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.

1. 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***”.