



Composite Data Virtualization

Composite PS Promotion and Deployment Tool Trigger Module User Guide

Composite Professional Services

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DOCUMENT CONTROL

Version History

Version	Date	Author	Description
1.0	8/16/2011	Kevin O'Brien	Initial revision for Trigger Module User Guide
3.0	8/21/2013	Mike Tinius	Updated docs to Cisco format.
3.1	2/18/2014	Mike Tinius	Prepare docs for open source.

Related Documents

Document	File Name	Author
Composite PS Promotion and Deployment Tool User's Guide v1.0	Composite PS Promotion and Deployment Tool User's Guide v1.0.pdf	Mike Tinius

Composite Products Referenced

Composite Product Name	Version
Composite Information Server	5.1, 5.2, 6.0, 6.1, 6.2

INTRODUCTION

Purpose

The purpose of the Trigger Module User Guide is to demonstrate how to effectively use the Trigger Module and execute actions. Once CIS resources are imported into a target CIS server during the deployment process, it is sometimes desirable to update the trigger configuration. The Trigger Module provides the mechanism to automate the configuration of trigger attributes. Using the "updateTriggers" method and pointing at an identifier within the TriggerModule.xml configuration file, the user of this tool will be able to execute a command-line or Ant script that will automatically connect to the target CIS server and perform the update. Additionally, the user can automate enabling and disabling of a trigger on the target CIS server. Finally, to make it easier on the developer or administrator who is configuring the deployment plan, they would use the "generateTriggersXML" to reach into the source server where the artifacts are being deployed from and generate the TriggerModule XML. Then, all they need to do is tweak a few configuration lines based on what the values are for the target CIS server. The TriggerModule XML becomes part of the deployment plan that they will use during the automated deployment process.

Audience

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

- Architects
- Developers
- Administrators
- Operations personnel

TRIGGER MODULE DEFINITION

Method Definitions and Signatures

1. updateTriggers

Update Trigger method updates trigger configurations based on the values identified by the trigger id in the TriggerXML and the target server.

```
@param serverId target server id from servers config xml
@param triggerIds list of comma separated trigger Ids
@param pathToTriggersXML path to the trigger xml
@param pathToServersXML path to the server values xml
@throws CompositeException

public void updateTriggers(String serverId, String triggerIds, String pathToTriggersXML, String pathToServersXML) throws CompositeException;
```

2. enableTriggers

Enable Trigger method enables or disables triggers based on the setting identified by the trigger id in the TriggerXML and the target server.

```
@param serverId target server id from servers config xml
@param triggerIds list of comma separated trigger Ids
@param pathToTriggersXML path to the trigger xml
@param pathToServersXML path to the server values xml
@throws CompositeException

public void enableTriggers(String serverId, String triggerIds, String pathToTriggersXML, String pathToServersXML) throws CompositeException;
```

3. generateTriggersXML

Generate the TriggerXML based on the starting path passed in and the target server information. Generate the XML to the file location passed in.

```
@param serverId target server id from servers config xml
@param startPath starting path of the resource e.g /shared
@param pathToTriggersXML path including name to the trigger xml which needs to be created
@param pathToServersXML path to the server values xml
@throws CompositeException
```

generateTriggersXML(String serverId, String startPath, String
pathToTriggersXML, String pathToServersXML) throws CompositeException;

General Notes:

The arguments pathToTriggersXML and pathToServersXML are located in [PDTool/resources/modules]. The value passed into the methods is the fully qualified path. The paths get resolved when executing the property file and evaluating the \$MODULE_HOME variable.

TRIGGER MODULE XML CONFIGURATION

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

Description of the Module XML

The TriggerModule XML provides a structure "TriggerModule" for "update, enable/disable and generateTriggerXML". The global entry point node is called "TriggerModule" and contains a collection of "triggerList" and "scheduleList" nodes. The "triggerList" contains a collection of "trigger" nodes. Each "trigger" node has a "condition" and "action". Where the "condition" is a timer event, a reference is made to a "schedule" node within "scheduleList".

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:TriggerModule
xmlns:ns2="http://www.cisco.dvbu.com/ps/deploytool/modules">
    <triggerList>
<!-- Example of trigger with timerEvent condition with executeProcedure
action -->
        <trigger>
            <id>TR-1</id>
            <resourcePath>/shared/test1/test 1/trigger1</resourcePath>
            <isEnabled>false</isEnabled>
            <maxEventsQueued>1/maxEventsQueued>
            <annotation>trigger 1 annotation
            <condition>
                <timerEvent>
                    <scheduleId>TR-1-SCH-1</scheduleId>
                </timerEvent>
            </condition>
            <action>
                <executeProcedure>
                    <resourcePath>/shared/test1/test 1/proc 1</resourcePath>
                    <parameterValues>13421234.34,23243,2011-02-
02,8.710345879797E8,8098709.23454,2011-02-02 12:10:59.102, this, is a
different string'/parameterValues>
                </executeProcedure>
            </action>
        </trigger>
    </triggerList>
    <scheduleList>
        <schedule>
            <scheduleId>TR-1-SCH-1</scheduleId>
            <mode>NONE</mode>
            <fromTimeInADay>-1</fromTimeInADay>
            <endTimeInADay>-1</endTimeInADay>
            <recurringDay>-1</recurringDay>
            <isCluster>true</isCluster>
        </schedule>
    </scheduleList>
</ns2:TriggerModule>
```

Attributes of Interest

 id – The unique identifier within the TriggerModule.xml file that is used to identify a trigger resource configuration.

resourcePath – the CIS path to a resource.

isEnabled – determines whether the trigger is enabled or disabled.

maxEventsQueued - number of events to store in queue.

condition – the condition which causes the trigger to fire. This is described by child nodes "timerEvent", "jmsEvent", "userDefinedEvent" or "systemEvent".

action – the action to perform once the condition has fired. This is described by child nodes "executeProcedure", "sendEmail", "reintrospectDatasource", or "gatherStatistics".

scheduleId – when the condition type is "timerEvent", this links to the specific "scheduleId" of a "schedule" configured in "scheduleList".

mode – determines whether the schedule fires on a repeating basis. "NONE" means no repeating. "PERIODIC" means repeating information is provided in "startTime", "period", "count", "fromTimeInADay", "endTimeInADay" and "recurringDay".

fromTimeInADay – the starting time from which timer firings are honored. Specified as the number of minutes in a 24hr period e.g. 1380 = 11pm. -1 means no recurrence restriction.

endTimeInADay – the ending after which timer firings are ignored. Specified as the number of minutes in a 24hr period e.g. 1380 = 11pm. -1 means no recurrence restriction.

recurringDay – any specific days on which timer firings should be honored. Works in conjunction with "fromTimeInADay" and "endTimeInADay". Sunday = 1. Monday = 2. Tuesday = 4. Wednesday = 8. Thursday = 16. Friday = 32. Saturday = 64. Supply the value as a combination of days e.g. Tuesday + Wednesday = 12.

isCluster – determines whether this schedule timer should fire once per cluster.

Attribute Value Restrictions

TriggerConditionSystemEventValidationList – Defines the list of valid values for condition type SystemEvent. Element is restricted by the following list:

```
<xs:restriction base="xs:string">
             <xs:enumeration value="CacheRefreshFailure"/>
             <xs:enumeration value="CacheRefreshSuccess"/>
             <xs:enumeration value="DataSourceDown"/>
             <xs:enumeration value="DataSourceUp"/>
             <xs:enumeration value="RequestFailure"/>
             <xs:enumeration value="RequestInactive"/>
             <xs:enumeration value="RequestRunForTooLong"/>
             <xs:enumeration value="ResourceLock"/>
             <xs:enumeration value="ResourceUnlock"/>
             <xs:enumeration value="RequestsSpike"/>
             <xs:enumeration value="ErrorsSpike"/>
             <xs:enumeration value="FailedLoginSpike"/>
             <xs:enumeration value="StatisticsGatheringFailure"/>
             <xs:enumeration value="ServerStart"/>
             <xs:enumeration value="ServerStop"/>
             <xs:enumeration value="TransactionFailure"/>
      </xs:restriction>
</xs:simpleType>
```

TriggerModeValidationList – defines the recurring behavior of a schedule associated with a TimerEvent condition. Element is restricted by the following list:

TriggerPeriodValidationList – defines the granularity of recurrence of a schedule associated with a TimerEvent condition. Element is restricted by the following list:

```
<xs:simpleType name="TriggerPeriodValidationList">
             <xs:annotation>
                    <xs:documentation xml:lang="en">
                          MINUTE equates to INTERVAL. HOUR through YEAR equates to
CALENDAR
                    </xs:documentation>
             </xs:annotation>
             <xs:restriction base="xs:string">
                    <xs:enumeration value="MINUTE"/>
                    <xs:enumeration value="HOUR"/>
                    <xs:enumeration value="DAY"/>
                    <xs:enumeration value="WEEK"/>
                    <xs:enumeration value="MONTH"/>
                    <xs:enumeration value="YEAR"/>
             </xs:restriction>
      </xs:simpleType>
```

TriggerConditionTypeValidationList – defines the set of valid trigger condition types. Element is restricted by the following list:

TriggerActionTypeValidationList – defines the set of valid trigger action types. Element is restricted by the following list:

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 TriggerModule.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 "Composite PS Promotion and Deployment Tool User's Guide v1.0.pdf". The abridged version is as follows:

Windows: ExecutePDTool.bat -exec ../resources/plans/UnitTest-Trigger.dp

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

Properties File (UnitTest-Trigger.dp):

Property File Rules:

```
# UnitTest-Trigger.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 distinguising 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. $MODULE HOME) gets resolved on
invocation CisDeployTool.
                        Paths containing spaces must be enclosed in double quotes:
                               ANSWER: "$MODULE HOME/LabVCSModule.xml"
                        Given that MODULE HOME=C:/dev/Cis Deploy
Tool/resources/modules, PDToolautomatically 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 preceeding 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:

Ant Execution

The full details on build file setup and ant execution can be found in the document "Composite PS Promotion and Deployment Tool User's Guide v1.0.pdf". The abridged version is as follows:

Windows: ExecutePDTool.bat -ant ../resources/ant/build-Trigger.xml

Unix: ./ExecutePDTool.sh -ant ../resources/ant/build-Trigger.xml

Build File:

```
<?xml version="1.0" encoding="UTF-8"?>
<description>description</description>
   <!-- Default properties -->
   property name="SERVERID"
                       value="localhost"/>
   cproperty name="noarguments"
                       value="" ""/>
   <!-- Default Path properties -->
   property name="RESOURCE HOME"
                       value="${PROJECT HOME}/resources"/>
   property name="MODULE HOME"
                       value="${RESOURCE HOME}/modules"/>
   property name="pathToServersXML"
                       value="${MODULE HOME}/servers.xml"/>
   property name="pathToGroupsXML"
                       value="${MODULE HOME}/GroupModule.xml"/>
   <property name="pathToServerAttributeXML" value="${MODULE_HOME}/ServerAttributeModule.xml"/>
   property name="pathToUsersXML"
                       value="${MODULE HOME}/UserModule.xml"/>
   <!-- Custom properties -->
   property name="triggerIds" value="TR-1"/>
   <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.cisco.dvbu.ps.deploytool.ant.CompositeAntTask"
classpathref="project.class.path"/>
                                  target: default
                                         <target name="default" description="Update CIS with environment specific parameters">
                      <!-- Execute Line Here -->
                                 <executeJavaAction description="Generate" action="generateTriggersXML"</pre>
                                 \verb|arguments| = "${SERVERID}^s + $\{pathToGenTriggerXML}^s {pathToGerversXML}^s = $\{pathToGenTriggerXML}^s + $\{pathToGenTriggerXM
                                 endExecutionOnTaskFailure="TRUE"/>
                                  <!-- Windows or UNIX: Entire list of actions
                                  <executeJavaAction description="Generate" action="generateTriggersXML"</pre>
                                 \verb|arguments| = \$\{SERVERID\}^/ shared/test00^\$ \{pathToGenTriggerXML\}^\$ \{pathToServersXML\} = \{pathToServerSML\} = \{p
                                  endExecutionOnTaskFailure="TRUE"/>
                                  <executeJavaAction description="Enable" action="enableTriggers"</pre>
arguments="${SERVERID}^${triggerIds}^${pathToTriggerXML}^${pathToServersXML}"
                                  endExecutionOnTaskFailure="TRUE"/>
                                  <executeJavaAction description="Update" action="updateTriggers"</pre>
arguments="${SERVERID}^${triggerIds}^${pathToTriggerXML}^${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 "triggerlds".

- Possible values for the module identifier:
- 1. Inclusion List CSV string like "id1,id2"
 - PDToolwill process only the passed in identifiers in the specified module XML file.

Example command-line property file

```
PASS FALSE ExecuteAction updateTriggers $SERVERID "tr1,tr2" "$MODULE_HOME/TriggerModule.xml" "$MODULE_HOME/servers.xml"
```

Example Ant build file

```
<executeJavaAction description="Update" action="updateTriggers"
arguments="${SERVERID}^tr1,tr2^${pathToTriggersXML}^${pathToServersXML}"</pre>
```

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

Example command-line property file

```
PASS FALSE ExecuteAction updateTriggers $SERVERID "*"
"$MODULE HOME/TriggerModule.xml" "$MODULE HOME/servers.xml"
```

Example Ant build file

```
<executeJavaAction description="Update" action="updateTriggers"
arguments="${SERVERID}^**\${pathToTriggersXML}^\${pathToServersXML}"</pre>
```

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

Example command-line property file

```
PASS FALSE ExecuteAction updateTriggers $SERVERID "-tr3,tr4"
"$MODULE HOME/TriggerModule.xml" "$MODULE HOME/servers.xml"
```

Example Ant build file

```
<executeJavaAction description="Update" action="updateTriggers"
arguments="${SERVERID}^-tr3,tr4^${pathToTriggersXML}^${pathToServersXML}"</pre>
```

EXAMPLES

The following are common scenarios when using the TriggerModule.

Scenario 1 - Generate Trigger Module XML

Description:

Generate the Trigger Module XML configuration file for a specific CIS project folder. This is useful for a developer/administrator to get the initial configuration from the development server. Once the TriggerModule.xml file is generated, the developer or administrator can tweak the parameters for the target CIS server. This new file will be part of the deployment plan of the target CIS server.

Execution Sample:

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

Property file setup for UnitTest-Trigger.dp:

```
# ------
# Begin task definition list:
# ------
# Generate the list of Triggers

PASS FALSE ExecuteAction generateTriggersXML $SERVERID /shared/test00
    "$MODULE_HOME/getTriggerModule.xml" "$MODULE_HOME/servers.xml"
```

Results Expected:

PDTool executed and generated the getTriggerModule.xml file in the PDTool/resources/modules directory. An example of the output can be seen in the section "Description of the Module XML".

Next the developer or administrator would rename this file and edit the property, attributes values to align with values used on the target CIS server.

Finally the user would execute scenario 2 below to update the trigger attributes.

Scenario 2 - Update Triggers

Description:

Update the triggers on the target CIS server using the generated Trigger Module XML configuration file. This provides the administrator with a way to automate the deployment process and affect change on the target CIS server.

XML Configuration Sample:

This is an example of a TriggerModule.xml configuration for a trigger with a jmsEvent condition and a reintrospectDatasource action.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:TriggerModule
xmlns:ns2="http://www.cisco.dvbu.com/ps/deploytool/modules">
    <triggerList>
        <trigger>
           <id>TR-3</id>
           <resourcePath>/shared/test/ResourceTrigger/trigger3</resourcePath>
           <isEnabled>true</isEnabled>
           <maxEventsQueued>1</maxEventsQueued>
           <annotation>trigger 3 annotation
            <condition>
                <jmsEvent>
                   <connector>JmsConnector
                    <destination>JmsDestination</destination>
                   <selector>JmsSelector</selector>
                </jmsEvent>
           </condition>
            <action>
                <reintrospectDatasource>
<resourcePath>/shared/test1/data sources/ds orders</resourcePath>
                   <emailTo>to@compositesw.com</emailTo>
                    <emailCC></emailCC>
                    <emailBCC></emailBCC>
                   <emailReplyTo></emailReplyTo>
                   <emailSubject></emailSubject>
                   <emailBody></emailBody>
                   <skipIfNoResults>false</skipIfNoResults>
                    <noCommit>true</noCommit>
                </reintrospectDatasource>
           </action>
        </trigger>
    </triggerList>
</ns2:TriggerModule>
```

Execution Sample:

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

Property file setup for UnitTest-Trigger.dp:

Results Expected:

PDTool executed the "updateTriggers" for the trigger identified by "TR-3" and the target CIS server identified by "test9400".

Scenario 3 - Enable Triggers

Description:

Enable or disable the triggers on the target CIS server using the generated Trigger Module XML configuration file. This action only utilizes the isEnabled element. No other trigger attributes are modified by this action. This provides the administrator with a way to automate the deployment process and affect change on the target CIS server.

XML Configuration Sample:

This is an example of a TriggerModule.xml configuration for a trigger with a timerEvent condition (with corresponding schedule described in scheduleList) and a sendEmail action.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
xmlns:ns2="http://www.cisco.dvbu.com/ps/deploytool/modules">
    <triggerList>
        <trigger>
            <id>TR-2</id>
            <resourcePath>/shared/test/ResourceTrigger/trigger2</resourcePath>
            <isEnabled>false</isEnabled>
            <maxEventsQueued>2</maxEventsQueued>
            <annotation>trigger 2 annotation
            <condition>
                <timerEvent>
                   <scheduleId>TR-2-SCH-2</scheduleId>
                </timerEvent>
            </condition>
            <action>
                <sendEmail>
                   <resourcePath>/shared/test/ResourceTrigger/proc
2</resourcePath>
                    <parameterValues></parameterValues>
                    <emailTo>mtinius@compositesw.com</emailTo>
                    <emailCC></emailCC>
                    <emailBCC></emailBCC>
                    <emailReplyTo></emailReplyTo>
                    <emailSubject></emailSubject>
                    <emailBody></emailBody>
                    <skipIfNoResults>true</skipIfNoResults>
                    <includeSummary>false</includeSummary>
                </sendEmail>
```

```
</action>
        </trigger>
    </triggerList>
    <scheduleList>
        <schedule>
            <scheduleId>TR-2-SCH-2</scheduleId>
            <mode>PERIODIC</mode>
            <startTime>2011-06-01T15:55:37.000Z</startTime>
            <period>HOUR</period>
            <count>1</count>
            <fromTimeInADay>1200</fromTimeInADay>
            <endTimeInADay>1400</endTimeInADay>
            <recurringDay>2</recurringDay>
            <isCluster>true</isCluster>
        </schedule>
    </scheduleList>
</ns2:TriggerModule>
```

Execution Sample:

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

Property file setup for UnitTest-Trigger.dp:

Results Expected:

PDTool executed the "enableTriggers" for the trigger identified by "TR-2" and the target CIS server identified by "test9400". The outcome of this action is that the trigger is disabled. No other trigger attributes are changed.

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.

Error processing trigger id: <id>. JMS event condition property 'Connector' is null:

This may occur when you do not supply a value for the Connector property for a trigger condition type of jmsEvent.

Error processing trigger id: <id>. JMS event condition property 'Destination' is null:

This may occur when you do not supply a value for the Destination property for a trigger condition type of jmsEvent.

Error processing trigger id: <id>. System event condition property 'System Event Name' is empty

This may occur when you do not supply a value for the System Event Name property for a trigger condition type of systemEvent.

Error processing trigger id: <id>. System event condition property 'System Event Name' value '<value>' is invalid

This may occur when the value supplied for the System Event Name property for a trigger condition type of systemEvent is not one of the known values. Please see the definition of TriggerConditionSystemEventValidationList for the list of valid values.

Error processing trigger id: <id>. User defined event condition property 'User Defined Event Name' is empty

This may occur when you do not supply a value for the User Defined Event Name property for a trigger condition type of userDefinedEvent.

Error processing trigger. Referenced Scheduleld <id> is missing from TriggerModule.xml

This may occur when you reference a schedule id in a timerEvent condition, but that schedule id does not appear in scheduleList section of the trigger module XML file.

Error processing trigger schedule id: <id>. Schedule condition property 'Mode' is empty

This may occur when a defined schedule (corresponding with a trigger condition of type timerEvent) has an empty value for Mode. Please see the definition of TriggerModeValidationList for the list of valid values.

Error processing trigger schedule id: <id>. Schedule condition property 'Mode' value '<value>' is invalid

This may occur when a defined schedule (corresponding with a trigger condition of type timerEvent) has an invalid value for Mode. Please see the definition of TriggerModeValidationList for the list of valid values.

Error processing trigger schedule id: <id>. Schedule condition property 'Mode' has value 'PERIODIC' but schedule condition property 'count' is missing

This may occur when a defined schedule (corresponding with a trigger condition of type timerEvent) has an invalid value for count. Count determines the frequency of repetition of the timer schedule.

Error processing trigger schedule id: <id>. Schedule condition property 'Mode' has value 'PERIODIC' but schedule condition property 'count' is less than zero: <countValue>

This may occur when a defined schedule (corresponding with a trigger condition of type timerEvent) has a negative value for count. Count determines the frequency of repetition of the timer schedule and must be a positive value.

Error processing trigger schedule id: <id>. Schedule condition property 'Count' has value <countValue> which exceeds maximum allowed value of <Integer.MAX VALUE>

This may occur when a defined schedule (corresponding with a trigger condition of type timerEvent) has too large a value for count. Integer.MAX_VALUE is platform specific for a given Java Virtual Machine. Count determines the frequency of repetition of the timer schedule.

Error processing trigger schedule id: <id>. Schedule condition property 'Period' has an invalid value: <periodValue>

This may occur when a defined schedule (corresponding with a trigger condition of type timerEvent) has an invalid value for period. Please see the definition of TriggerPeriodValidationList for the list of valid values.

Error processing trigger schedule id: <id>. Schedule condition property 'Recurring Day' value '<recurringDayValue>' is invalid. Valid values are between 1 and 127.

This may occur when a defined schedule (corresponding with a trigger condition of type timerEvent) has an invalid value for recurringDay. recurringDay must have a value between 1 and 127.

Error processing trigger schedule id: <id>. Schedule condition property 'FromTimeInADay' must have a value between 0 and 1440. Current value is: <value>

This may occur when a defined schedule (corresponding with a trigger condition of type timerEvent) has an invalid value for fromTimeInADay. fromTimeInADay is specified in minutes and must have a value between 0 and 1440.

Error processing trigger schedule id: <id>. Schedule condition property 'EndTimeInADay' must have a value between 0 and 1440. Current value is: <value>

This may occur when a defined schedule (corresponding with a trigger condition of type timerEvent) has an invalid value for endTimeInADay. endTimeInADay is specified in minutes and must have a value between 0 and 1440.

Error processing trigger schedule id: <id>. Schedule condition property 'FromTimeInADay' must have a value between 0 and 1440. Current value is: <value>

This may occur when a defined schedule (corresponding with a trigger condition of type timerEvent) has an invalid value for fromTimeInADay. fromTimeInADay is specified in minutes and must have a value between 0 and 1440.

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.

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