Windchill Development Best Practice

<INTERNAL>

By:

Change History:

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| 10/10/2012 | Nathan Kral | Initial Draft |

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# Best Practice Name and Classification

## Name

*Change Template Initialization Rules* Best Practice

## Classifications

Low Level

## Also Known As

None

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# Objective

## Problem Statement

Problem: Configure change notice or task template to use different initialization rules for number, life cycle templates, etc. from a change notice or task.

## Background

Administrators can configure change notice or task rules for number, life cycle template and other attributes to a specific or generated value upon creation. The only difference between a change notice or task and a change notice or task template is a template attribute specifying that the object is a template. Since the change notice or task and change notice or task template are the same object type, they will also use the same loaded object initialization rules.

## Scope/Applicability/Assumptions

Assume you want to customize a change notice or task template to use different object initialization rules from what is used for a change notice or task that is not a template.

## Intended Outcome

The creation of change notices that are not templates will be unaffected and keep the current generated number sequence and life cycle template. The change notice templates will be generated with numbers that have 10 digits and use the “Basic” life cycle template.

# Solution

## Solution Statement

Solution: Update the change notice or task object initialization rule to conditionally configure the number and life cycle template when the change notice or task template attribute is set to true.

## Prerequisite knowledge

To apply this best practice, you need to have an understanding of the following:

* XML
* Loading Windchill object initialization rules

For more information on how to load and configure Windchill object initialization rules, visit the Windchill Customization Guide.

## Solution Elements

|  |  |  |
| --- | --- | --- |
| **Element** | **Type** | **Description** |
| Rule for Change Notice or task | XML | The rule for change notice or task. |
|  |  |  |
|  |  |  |

## Procedure

When setting the argument for an attribute value in which the change notice or task template value should be different than for the change notice or task creation use the wt.rule.algorithm.BooleanBranch value algorithm and test if the template.templated attribute is set to true. The first argument is for change notice or task template and the second argument is used for the change notice or task.

<!-- if (template.templated) -->

<Value algorithm="wt.rule.algorithm.BooleanBranch">

<!-- test this value -->

<Attr id="template.templated"/>

<!-- if true -->

<Arg>*Value for change notice or task template*</Arg>

<!-- if false -->

<Arg>*Value for change notice or task*</Arg>

</Value>

# Limitations

It is not possible to configure the number attribute to be empty for change notice or task template and generated for change notice or task because the template attribute is not set until the create wizard is submitted. Instead, it is recommended to use a generated sequence for both the change notice or task template and change notice or task if a generated sequence number is required for creation of change notice or task.

# Sample Code

Updated object initialization rules (OIR) in file ChangeMgmtInitRules.xml:

|  |  |  |
| --- | --- | --- |
|  | Change notice or task template | Regular Change notice or task |
| Life cycle template | Basic | Change Notice Life Cycle |
| Number | 10 digit number | 5 digit number |

<!-- set the lifecycle -->

<AttrValue id="lifeCycle.id" algorithm="com.ptc.core.foundation.lifecycle.server.impl.LifeCycleTemplateAttributeAlgorithm">

<!-- if (template.templated) -->

<Value algorithm="wt.rule.algorithm.BooleanBranch">

<!-- test this value -->

<Attr id="template.templated"/>

<!-- if true -->

<Arg>Basic</Arg>

<!-- if false -->

<Arg>Change Notice Life Cycle</Arg>

</Value>

</AttrValue>

<!-- set the number to a generated number -->

<AttrValue id="number" algorithm="com.ptc.windchill.enterprise.revisionControlled.server.impl.NumberGenerator">

<!-- if (template.templated) -->

<Value algorithm="wt.rule.algorithm.BooleanBranch">

<!-- test this value -->

<Attr id="template.templated"/>

<!-- if true -->

<Arg>{GEN:wt.enterprise.SequenceGenerator:WTCHANGEORDERID\_seq:10:0}</Arg>

<!-- if false -->

<Arg>{GEN:wt.enterprise.SequenceGenerator:WTCHANGEORDERID\_seq:5:0}</Arg>

</Value>

</AttrValue>

## Examples of Usage in Windchill Code

%Windchill\_Home%/loadFiles/pdmlink/ChangeMgmtInitRules.xml