Windchill Development Best Practice

**Name:** *Change Status Calculator* Best Practice

<INTERNAL>

By: Michael McLachlan

Change History:

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| **Date** | **Author** | **Description** |
| 04/19/2012 | Michael McLachlan | Initial draft |
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# Best Practice Name and Classification

## Name

Change Status Calculator Best Practice

# Objective

The objective is to describe how to use the Change Status Calculator tool.

## Problem Statement

By default, the Pending Change Indicator and the Resulting Change Indicator only show up on Affected and Resulting Objects in the Implementation State. However, this document describes how to update objects to show the Pending Change Indicator and/or the Resulting Change Indicator displays. The Pending Change Indicator is an icon that shows up on an object when it is an Affected Object of a Change Request or Change Notice during certain States. The Resulting Change Indicator is an icon that shows up on a Resulting Object when its Change Notice is in a certain State.

## Scope/Applicability/Assumptions

Scope:

This document will cover running the tool from the command line with various options.

Applicability:

This applies to anyone who wishes to control the Pending Change Indicator and the Resulting Change Indicator. It applies to the following Windchill PDMLink releases: 10.0 M040, 10.1 M010, and 11.0.

Assumptions:

This document assumes you are familiar with how to use a Windchill shell.

## Intended Outcome

To control when objects show the Pending Change Indicator and the Resulting Change Indicator, update the following properties as desired:

* wt.change2. pendingResultingStates
* wt.change2.pendingOrderStates
* wt.change2.pendingRequestStates.

After updating the desired property, run the Change Status Calculator tool to apply the changes.

# Solution

In order to control when objects show the Pending Change Indicator and the Resulting Change Indicator, I can update the properties wt.change2. pendingResultingStates, wt.change2.pendingOrderStates, or wt.change2.pendingRequestStates. Once a property is updated, I will use the Change Status Calculator tool to apply the changes.

## Running the Tool

To run the Change Status Calculator and update all objects with the Pending and Resulting Change Indicators (as specified by the above property settings), run the following command from a Windchill shell:

|  |
| --- |
| windchill wt.change2.ChangeStatusCalculator |

## Command Line Options

The following table shows the different parameters that can be used with the Change Status Calculator:

|  |  |  |
| --- | --- | --- |
| Option: | Meaning: | Example Command: |
| -preview | Show the total count of objects that will be updated when you run the tool with no parameters. This is intended to give administrators the number of objects that will be updated without actually performing the update. | windchill wt.change2.ChangeStatusCalculator -preview |
| -onlyResulting | Updates only the objects where the resulting indicator might have changed. This can be used with the preview option. | windchill wt.change2.ChangeStatusCalculator -onlyResulting |
| -help | Show the valid usage of the Change Status Calculator. | windchill wt.change2.ChangeStatusCalculator -help |

## Performance

The performance of this tool depends on the number of Changeable objects in the database. When attempting to update the indicators on 600,000 Changeable objects, the tool would take about 40 seconds. Keep this in mind when running the tool.

# Example

To make the Resulting Change Indicator show up on Resulting Objects when the Change Notice is in the Under Review or Implementation state, do the following:

1. Open wt.properties with a text editor (this can be found in \Windchill\codebase\wt.properties)
2. Find the property named: **wt.change2.pendingResultingStates**
3. Modify the value of the property to be: **UNDERREVIEW,IMPLEMENTATION**
4. Save the file
5. Restart Windchill
6. Open a Windchill shell
7. Run the following command:
   1. windchill wt.change2.ChangeStatusCalculator

Now the Resulting Change Indicator will show up on Resulting Objects when the Change Notice is in the Under Review or the Implementation state.