

OBJECT VALIDATOR

Companies using Object Validator experience **faster change cycles, less rework, a lower risk for errors**, and greater **transparency** into business decisions. These performance and quality benefits extend downstream to ERP and other third-party integrations.

Business Rule Checks (BRCs) for any organization need to be flexible and easy to implement. This application allows an administrator to easily manage business rules without being a Windchill developer, constantly changing workflows, or restarting Windchill. Individual rules can be enabled or disabled for any Windchill context.

Object Validator's BRCs are accessible to users thru Change objects, Promotion Requests, Workflows, and Windchill Action menus. Users can review errors before a Change process is executed. Users quickly learn to proactively apply BRCs when it is most convenient and appropriate to them.

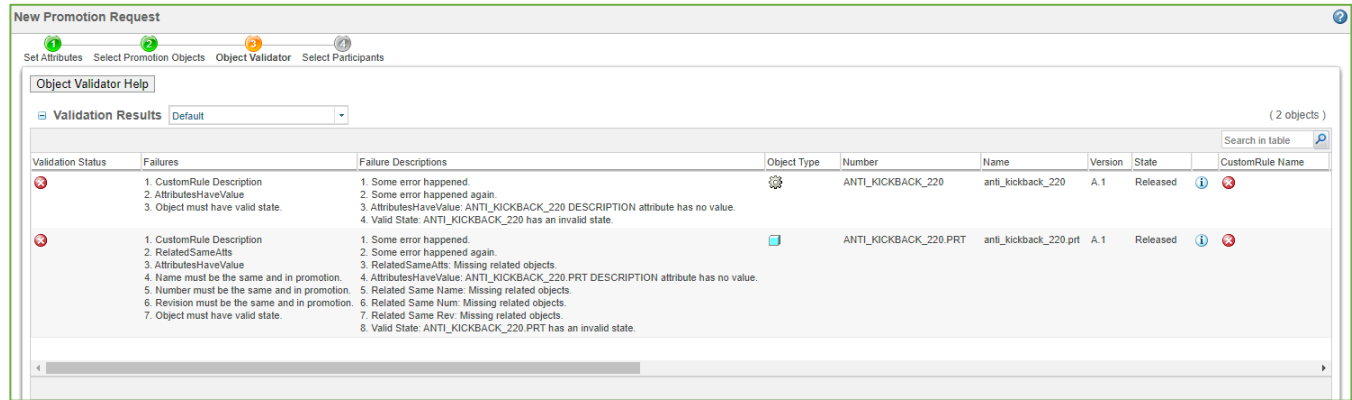
When business rules are implemented correctly, they deliver efficiency and predictability to release processes.

Configure via Rule File and Preferences

```
<rule name="DESCRIPTION IBA Rule" description="DESCR
<attribute>DESCRIPTION</attribute>
<operator>equals</operator>
<value></value>
<ruleStatus>Fail</r
<applicableObjectTy
<excludeObjectSubTy
<applicableExtensio
<applicableWindchil
<excludedWindchillC
<excludedNumber></e
<applicableContext>
<excludedContext></
</rule>
```

Object Validator

- Allow Continue/Finish
- Enable change task validator
- Enable promotion validator
- Enable promotion validator per context
- Help URL
- Rule does not apply icon
- Show Info Icon



For any selected CAD/WTPart/Document object or objects associated to a Change/Promotion object:

Object Status Checks

- ✓ No objects are checked-out
- ✓ All applicable objects are in a valid state for Change/Promotion

Attribute Checks

- ✓ Specified IBA values are not empty, contain certain characters, match a value or value length
- ✓ Primary (owner) associated CAD and WTPart objects have matching attribute values, including: Name, Number, Revision and any specified global attribute (IBA)

Relationship and Structure Checks

- ✓ Sheet metal CAD objects include a DXF file attachment
- ✓ Primary associated CAD or WTPart objects exist and are included
- ✓ The associated WTPart of a CAD assembly has a structure
- ✓ Confirm non-released items in a structure are included in the Change or Promotion object

Extensible

- ✓ Incorporate any customer developed Windchill Business Rules that return pass or fail

Business Rules Help

- ✓ Link to business rules help documentation

Validation in Workflows

Companies can use the Object Validator within any workflow for a Change Notice, Change Task, or Promotion Request. Business Rule Checks are performed within the workflow using a conditional robot to determine if any of the objects fail or pass the business rules.

A Task includes a link of the Object Validator page to review the validations within a new browser tab. The user clearly sees the issues on one page and can perform the changes while reviewing the results.

This allows flexibility of the workflow administrator to route failures to an activity to handle the rework tasks.

The workflow has its own rule file allowing different rules to be applied separately from an action or wizard step. Workflow rules are can be applied to specific primary business objects.

Task from Home Page

The screenshot shows a 'My Tasks' window with an 'Open' button. Below it is a table with columns for 'Name' and 'Rework Change Notice Task'. A green arrow points from the task name to a 'General' tab. The 'General' tab contains the following information:

- Subject:** Change Notice - 00046, Example Change Notice Template
- Instructions:** The change notice has been returned for rework. You have been instructed to modify the task.
 1. Review the object displayed.
 2. Modify the task.
 3. Enter comments in the Comments text field below.
 4. Click Complete Task to advance the change notice.
- Process:** Change Notice Workflow_00046-Example Change Notice Template

A green circle highlights a link labeled 'Object Validator Link' with the text 'Review Validation Status Review Validations'.

Object Validator

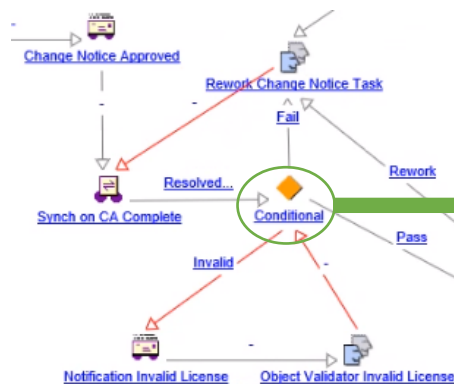
Validation Results

Validation Status	Failures	Failure Descriptions	Object Type	Number	Name	Version	State	CustomRule Name	RelatedSameAlts
❌	1. CustomRule Description 2. RelatedSameAlts 3. DESCRIPTION IBA cannot be null or empty.	1. This rule failed because 2. RelatedSameAlts: Missing related objects.	📄	ANTI_KICKBACK_220.PRT	anti_kickback_220.prt	A.1	Released ⓘ	❌	❌

Workflow Rule File

```
<rule name="WtPart FACILITY Rule" description="FACILITY IBA cannot be null or empty." status="off">
  <attribute>FACILITY</attribute>
  <operator>equals</operator>
  <value></value>
  <ruleStatus>Fail</ruleStatus>
  <applicableObjectTypes>wt.part.WtPart</applicableObjectTypes>
  <excludeObjectSubTypes>com.ptc.ptc.training.Screw</excludeObjectSubTypes>
  <applicableExtensions></applicableExtensions>
  <applicableWindchillOperationSubTypes>wt.maturity.PromotionNotice</applicableWindchillOperationSubTypes>
  <excludeWindchillOperationSubTypes>wt.maturity.FsiPromotionNotice</excludeWindchillOperationSubTypes>
  <excludedNumber></excludedNumber>
  <applicableContext>*</applicableContext>
  <excludedContext></excludedContext>
</rule>
```

Workflow Process



Calls the Object Validator BRC

Routing

Routing Type: Conditional

Routing Events: Pass, Fail, Invalid

Routing Expression:

```
com.fsi.objectvalidator.helpers.ObjectValidatorWorkFlowHelper objValHelper = new com.fsi.
result = objValHelper.getValidationStatus();
objectValidatorURL = objValHelper.getUrl();
```

Insert: Variable: [dropdown]