

While lifecycles, teams, and numbering schemes define the behavior of Windchill objects, they are not associated to specific Windchill objects, and thus cannot drive those objects through a business process. This is accomplished with object initialization rules. This section outlines each of the object initialization rules and best practices.

## OBJECT INITIALIZATION RULES

**Object initialization rules (OIRs)** assign specific behaviors upon creation. These rules are Windchill **object** class specific (**documents, parts, CAD documents, promotion requests**, etc.) and are written in an XML format. OIRs can be retrieved from the Object Initialization Rules Administrator from the Utilities page on the **Organization** level. These rules can be applied to all **context** levels and provide the ability to assign the following to Windchill objects:

- Object numbering
- Object versioning
- Folder path
- **Lifecycle** association
- **Team template** association

## OBJECT NUMBERING RULE

Object numbering defines the numbering scheme of end items, parts, documents, CAD documents, and change objects. By default, Windchill is set to automatically number the five objects listed above. The initial numbering rules for **end items**, parts, documents, and CAD documents are set to 10-digit numbers that are sequentially incremented by one. Change objects are set to five-digit numbers. If auto-numbering is not desired, it is possible to turn it off.

1. Open the OIR XML file for a specific object type in WordPad.
2. Comment out the following two **blue** lines under the number constraint in the "Specify AttrConstraint tag" section.

```
<AttrConstraint id="number" algorithm="com.ptc.core.rule.server.impl.GatherAttributeConstraints">
<!--
<Value algorithm="com.ptc.core.rule.server.impl.GetServerAssignedConstraint"/>
<Value algorithm="com.ptc.core.rule.server.impl.GetImmutableConstraint"/>
-->
</AttrConstraint>
```

## OBJECT VERSIONING RULE

Versioning manages ongoing development of digital documents by incrementing an associated number or letter code. Versioning is applied to end items, parts, documents, and CAD documents. There are four versioning schemes that Windchill provides:

- The **standard alphabetic scheme** is the default scheme set in the Site context that uses letters A through Z.
- The **standard integer scheme** starts with the number 1 and increments by 1 to a maximum number of 2144483647.
- The **file-based versioning scheme** uses either alphabetic or integers to define versioning. This is applied by loading an XML file, which defines the desired versioning scheme. Refer to *Windchill Business Administrator's Guide* for information on creating and loading file-based versioning schemes.
- The **state-based versioning scheme** is a preloaded numeric and MIL standard (alphabetic) scheme that is defined in the default versioning XML file. This scheme is specific to the lifecycle versioning options that can be set.

If a file-based scheme is used, the OIR will need to reflect that change. Set the version information by adding the name of the new file-based scheme to the end of the argument: **NewSeriesName**.

```
<!-- set the version info to a generated version info -->
<AttrValue id="MBA|versionInfo" algorithm="com.ptc.core.foundation.vc.server.impl.VersionInfoGenerator">
<Arg>wt.series.HarvardSeries.NewSeriesName</Arg>
</AttrValue>
```

### NOTE: COMMENTING OUT LINES IN XML

Commenting out lines in XML can be accomplished by putting **<!--** in front of the line and **-->** behind the line. This will communicate to Windchill not to apply the rule during object creation.

## FOLDER PATH RULE

The folder path rule defines where objects are stored upon creation. For example, if it is desired to have all promotion requests placed in the promotion request folder upon the object's creation, that can be driven by the folder path rule. This can be achieved by simply appending the folder name to **/Default**. In this case, the folder is **Promotion Requests**.

```
<!-- set the folder -->
<AttrValue id="folder.id" algorithm="com.ptc.core.foundation.folder.server.impl.FolderPathAttributeAlgorithm">
<Arg>/Default/Promotion Requests</Arg>
</AttrValue>
```

## LIFECYCLE ASSOCIATION RULE

The lifecycle association rule will associate a specific lifecycle to the desired Windchill object. Upon object creation, it will take on the maturation process defined by the lifecycle it is associated to. This can be achieved by simply specifying the lifecycle name in the OIR. In this case, the lifecycle name is **TriStar\_LC**.

```
<!-- set the lifecycle -->
<AttrValue id="lifeCycle.id" algorithm="com.ptc.core.foundation.lifecycle.server.impl.LifeCycleTemplateAttributeAlgorithm">
<Arg>
<?loc-begin key="BASIC_LIFECYCLE_NAME" maxlen="30"?
>TriStar_LC<?loc-end?>
</Arg>
```

## TEAM TEMPLATE ASSOCIATION RULE

The team template rule will associate a specific team template to the desired Windchill object.

```
<!-- set the team template -->
<AttrValue id="teamTemplate.id" algorithm="com.ptc.core.foundation.team.server.impl.TeamTemplateAttributeAlgorithm">
<Arg>Default</Arg>
```