



165 Broadmeadow Cove
Roswell, GA 30075
www.felcosolutions.com
Phone: 770-766-1241

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Email Changeable Table

Windchill Installation Instructions – Version 2.0.0

Windchill Supported Versions
10.x to 12.x

J.D. Felkins
FELCO SOLUTIONS, INC.

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Windchill Email Custom Extension

Overview

The extension collects changeables (Items in a Change Object or Promotion Request) within a release process to display changeable information within a workflow email notification robot. The workflow process administrator sets the attributes names and calls a class within an expression robot to send an email that includes the changeable information. An administrator also specifies what object type should be reported in the notification table.

Download the **EmailCustomTableExpression-X.X.X.zip** file from our website. The X.X.X at the end of the zip file is the extension version. The zip file contains two files shown below.

1. FSI-EmailChangeableTable-X.X.X.jar (contains all the required java classes)- Note: Remove the old jar file if exist.
2. expressionRobotContents.txt (The expression to copy to a workflow robot)

The [Extension Installation Instructions](#) section details the steps required to install and run the extension. The [Attribute List](#) section explains how to setup the attribute variable.

We recommend installing the extension on a non-production environment first to test and confirm the extension functionality before installing on a Windchill production machine.

Attribute List

The list of attributes (IBAs) is listed as a common delimited string within an expression robot using their internal names except for the reserved names.

Use the reserved names listed below to specify the changeable information:

1. Name
2. Number
3. Revision
4. State
5. Type
6. Comment (Comment found within a Change Object or Promotion Request)
7. Transition (Target Transition within a Change Notice, Change Activity or Promotion)

Example: `ibaNames = "Name,Number,Revision,State,com.ptc.ptc_training.FACILITY,com.acme.MYAttributeName";`

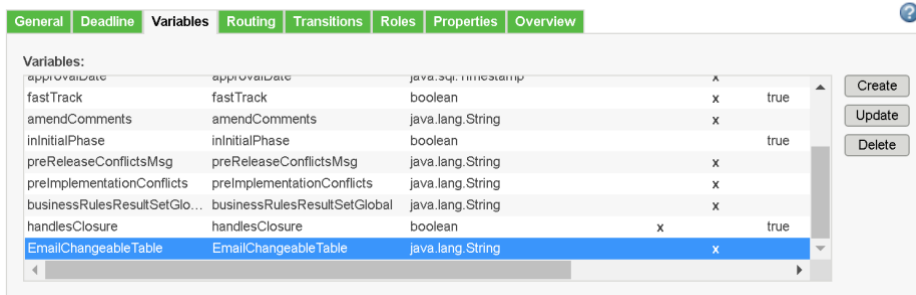
Filter List


The extension allows to filter specific types of object to be included in the email table. The types can be EPMDocument, WTPart, WTDocument or any subtype name. If you want to have all the objects in the table then set the allowedType to "All".

Example: `allowedTypes= "EPMDocument, WTPart, com.part.agenda";`

Extension Installation Instructions

1. Copy the FSI-EMailChangeableTable.jar file to the **Windchill/codebase/WEB-INF/lib** directory on the Windchill server then restart Windchill.
2. Open and edit any workflow for the following object types: Change Notice, Change Request, Problem Report Change Activity, Design Review or Promotion Notice.
3. Add a Global Workflow Variable named EmailChangeableTable or anything you like as a java.lang.String type. Select **Properties** in the workflow definer to create workflow variable as displayed below.



4. Create and place an Expression Robot in the workflow at a desired location. 
5. Copy the contents found in the **expressionRobotContents.txt** file within the Expression tab of the robot. The contents are displayed below. The variable named **EmailChangeableTable** is the variable that was created in step three and it is the example variable. Please use the workflow variable name that you created. Select **Check Syntax** within the expression robot. to verify the contents.


```
/**
Collect changeables from various change objects or promotion notice and put into a HTML table within
a Notification Robot Processor. The table is built by passing IBA internal names and reserved names.
The Name and Number attributes includes the object's URL to allow a use to quickly review the object's info page.

The object type's workflow can be used: Change Notice, Change Activity, Design Review, Change Request, Problem Report,
or Promotion Request
Changeable types are: EPMDocument, WTPart, WTDocument, or any soft type of these three types.

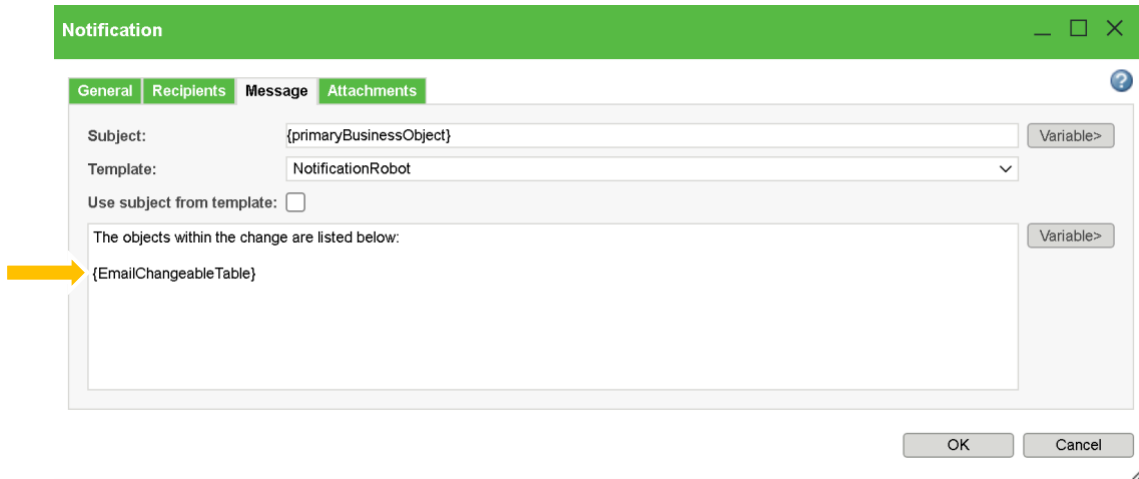
Reserved words are listed below to use for the table columns. All others specified are for IBA names.
Reserved words: Name, Number, Revision, State, Type, Comment, Transition

Allowed Types:
The allowed types to put in the email table.
Use: EPMDocument, WTPart, WTDocument or any subtype name
**/
// List of IBA names and allow types to use to define the table columns
String ibaNames = "Name,Number,Revision,State,Type,com.ptc.ptc_training.FACILITY";
//Set the types to be reported within the table. Set "All" for all items to be reported.
String allowedTypes = "EPMDocument,WTPart";

com.fsi.email.EmailCustomHelper emailChangeableTable = new com.fsi.email.EmailCustomHelper();
EmailChangeableTable = emailChangeableTable.getChangeableEmailTable(primaryBusinessObject,ibaNames,allowedTypes );
```

6. Create a Notification Robot and place after the Expression robot. 

7. Add the workflow variable to the notification message tab



8. Save the workflow and perform a check-in.

9. Create the change object that starts the workflow to review the email contents.

An email is sent with a table of changeable information as shown below. The user has the ability to select a URL link placed on the name and number column to open the objects details page within Windchill.

Process Notification

Process: Change Notice Workflow_00063

Process description: Change Notice creation, implementation, and audit.

Activity name: Notification

Activity description:

Subject object: [Example Change Notice Template](#)

Product Name: [Chainsaw - 220 Series](#)

Product Creator: [Jones, Mike](#)

Host Organization: PTC Power Equipment

Product Description: None

The objects within the change are listed below:

Name	Number	Revision	State
valve_disk_220.prt	VALVE_DISK_220.PRT	C	INWORK
throttle_valve_clip_220.prt	THROTTLE_VALVE_CLIP_220.PRT	C	INWORK
measure	MEASURE	A	INWORK
measure.prt	MEASURE.PRT	A	INWORK
throttle_valve_clip_220	THROTTLE_VALVE_CLIP_220	C	INWORK