JazzConnect-Email

Sender Edition

INSTALLATION & USERGUIDE

VERSION 5.0.0

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Contents

Figures

1 INTRODUCTION

This document describes the installation of JazzConnect-Email Sender Edition, a tool which enhances the use of Rational Team Concert by allowing the user to send emails directly from a Work Item.

The document also includes the initial configuration of parameters required to enable the tool to function in your environment. Both Unix and Windows platforms are covered in this document.

2 Product Overview

JazzConnect-Email Sender Edition is a Work Item plugin for Rational Team Concert. JazzConnect-Email Sender Edition provides functionality for data from Work Items to be emailed directly from the Work Items themselves, providing a full audit trail.

The Jazz plugins work behind the scenes with Rational Team Concert's internal mail system. Ordinarily, email notifications within Rational Team Concert are only sent to licensed users. JazzConnect-Email Sender Edition application enhances the functionality of this mail system by allowing emails to be sent to email recipients external to Rational Team Concert.

JazzConnect-Email Sender Edition can optionally be configured with Whilelist/Blacklist filters that permit or deny email recipients.

2.1 Key components

JazzConnect-Email Sender Edition consists of a Jazz plugin and is configured using the Project Areas's process configuration in the Rational Team Concert's Eclipse client.

2.2 System Architecture
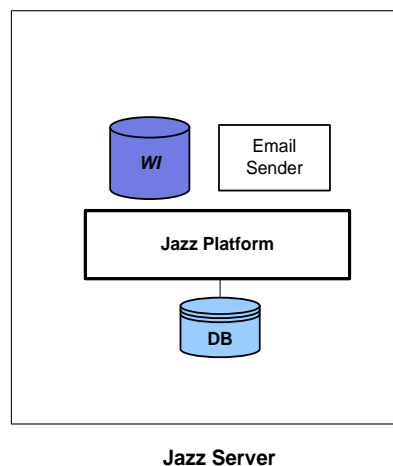
Figure 1: System Architecture

3 Pre-requisites

JazzConnect-Email Sender Edition **requires** the following in order to correctly function.

3.1 At the Jazz site

- Rational Team Concert/Rational Quality Manager Version 5.0 or later
- Rational Team Concert/Rational Quality Manager Eclipse Client (version 5.0 or later)
- Access to a Jazz administrator account
- Access to the Jazz server plugin configuration area
- Modification rights of all custom attributes to be granted to the required users

4 Preparing to install

4.1 License File

Each JazzConnect-Email Sender Edition installation requires a license file. If a license file is supplied, it must be stored in a browse able directory for installation.

4.2 Identify Jazz Server(s)

Each installation requires at least one Jazz (Rational Team Concert, Rational Quality Manager, etc.) server to install the plugin connector.

5 Installing the JazzConnect-Email Sender Edition toolset

There is only one package to install - the Email Sender (jazz plugin).

5.1 Installing the Email Sender Packages

To install the jazz plugin package perform the following steps:

1. Navigate to `<jazz-server-loc>/server/conf/ccm/sites`

2. Unzip the `jazz.connector.emailsender.zip` file here

3. Edit `com.cm_logic.jazz.wi.emailsender.ini` and update the `url` field to point to the location of the `site.xml` file

   ```
   e.g. url=file:///<jazz-server-loc>/server/conf/ccm/sites/jazzconnect-
   emailsender
   ```

   or use a relative path:

   ```
   e.g. url=file:ccm/sites/jazzconnect-emailsender
   ```

   > **Note:** For Windows based paths they should be preceded with a triple forward-slash. Unix just requires the normal path. If copying the URL from the address bar of Windows Explorer, change back-slashes to forward-slashes.

4. Copy the plugin property file to the provision profile directory in Jazz.

   ```
   cp com.cm_logic.jazz.wi.emailsender.ini <jazz-server-
   loc>/server/conf/ccm/provision_profiles
   ```

5. Update the `log4j.properties` file on the server `<jazz-server-local>/server/conf/ccm` to provide logging for the connector by appending the line:

   ```
   log4j.logger.com.cm_logic.jazz.wi.emailsender=INFO
   ```

   > **Note**: Replace `INFO` with `DEBUG` if you want detailed debugging enabled

6. Copy the supplied license file to the connector plugin directory `<jazz-server-loc>/server/conf/ccm/sites/jazzconnect-emailsender`, making sure the file is called `license.lic`

   ```
   e.g. <jazz-server-loc>/server/conf/ccm/sites/jazzconnect-emailsender/
   license.lic
   ```

7. Login to Jazz via the web to this location and request server to be refreshed.

   https://localhost:9443/ccm/admin/cmd/requestReset

8. Restart the Jazz server.

6 Configuring JazzConnect-Email Send Edition

Configuration of the JazzConnect-Email Send Edition can be achieved by adding an email tab to our designated Work Item type(s).

> **Note:** Information from the prerequisites in section 3 will be required to complete this task.

6.1 Configuring the Project's Process Definition

Within the Rational Team Concert Eclipse client, perform the following steps:

- Open the Project Area that will be configured for the EmailSender by right-clicking on the Project Area and select Open
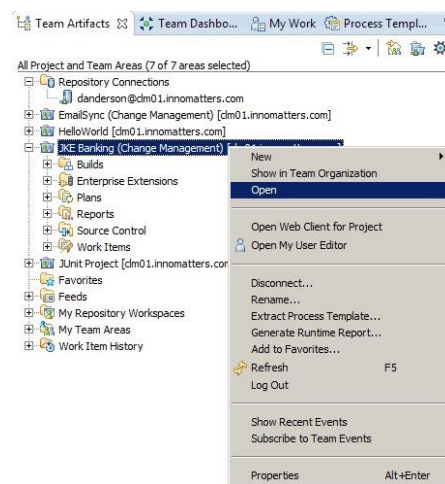
Figure 2 - Open Project Area

- Browse to `Process Configuration -> Team Configuration -> Operation Behaviour`
- Select `Work Items -> Save Work Item (server)`
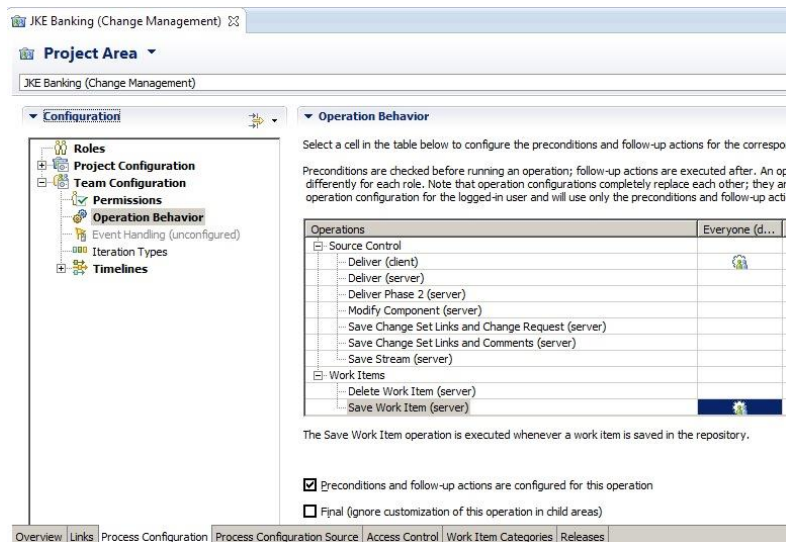
Figure 3 - Save Work Item (server)

- In `Preconditions`, click `Add` and select "`CM-Logic WorkItem Email Verification`"
- Apply changes and Save.
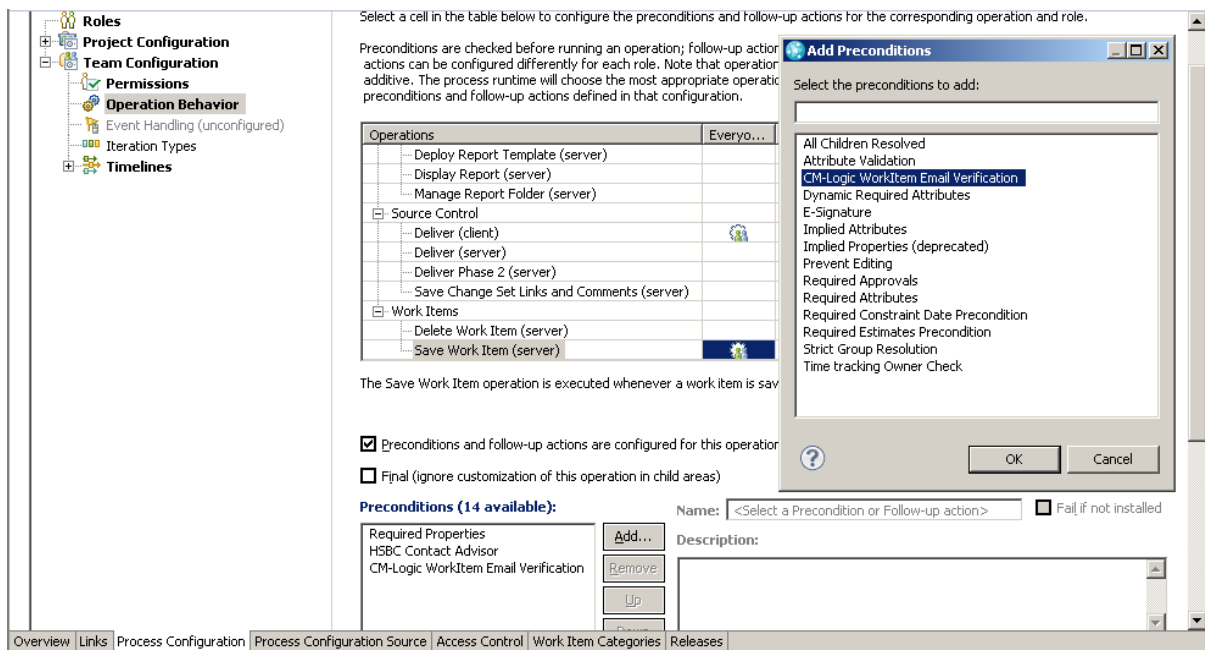
Figure 4: Adding a pre-condition

- Switch to the *Process Configuration Source* tab and search for "`OperationAdvisorEmail`". Once you find it, remove the slash / from the end of the line and put it onto its own line (I.e. `</precondition>`).

- In between the precondition blocks insert the template settings (OperationAdvisorEmail)
  You can use the sample below for reference:

```xml
<precondition description="Handle manual email send requests from the user
in a WorkItem" id="com.cm_logic.jazz.wi.emailsender.OperationAdvisorEmail"
name="CM-Logic WorkItem Email Verification"
xmlns="http://com.cm_logic.jazz.wi.emailsender.OperationAdvisorEmail">
      <OperationAdvisorEmail
            enabled="true"
            addAsComment="true"
            WorkItemTypes="defect"
            updateAttachment="true"
            allowAttachments="true"
            defaultFrom="user@yourcompany.com"
            fromLookupField="category"
            fromLookup="Unassigned=>user@yourcompany.com;RTC Email
Reader=>user@yourcompany.com"
            toEmailFields="emailSenderReporterEmail,emailSenderToList,email
      SenderTo"
            ccEmailFields="emailSenderReporterCCEmail,emailSenderCC,emailSe
      nderCCList"
            bccEmailFields="emailSenderBCC,emailSenderBCCList"
            resetToFields="false"
            resetCcFields="true"
            resetBccFields="true"
            emailWiIncludeFields= "id,internalPriority,description"
            emailSendField="emailReadyToSend"
            emailResetField="resetEmailFields"
      />
</precondition>
```

For more information on the syntax and mandatory/optional fields for this precondition, please see Appendix A – Configuring Operation Advisor Email Precondition.

6.1.1 Email Whitelist/Blacklist Filter Configuration

If you wish to restrict the recipients of any email sent via the EmailSender, you can configure the Whitelist/Blacklist filters:

- *Whitelist*: Email addresses matching this filter are **permitted** as email recipients
- *Blacklist*: Email addresses matching this filter are **denied** as email recipients

These filters can be configured globally, affecting all Project Areas, or can be configured by Project Area.

If an email could not be sent, an advisor message will be dispayed when you attempt to save the Work Item:

CM-Logic EmailSender Operation Advisor Failed. No valid (filtered) TO email addresses specified to send message to.

6.1.1.1 Configure filters by Project Area

To configure by Project Area, the filters should be added to the OperationAdvisorEmail section as described in 6.1. For example:

```
<OperationAdvisorEmail
    enabled="true"
    …
    emailWhiteListFilter="^\S+\@(Kintrax|mycompany).com$"
    emailBlackListFilter="^\S+\@(gmail|yahoo).com$"
    …
/>
```

Note: Take note of the double quotes and single back-slash in the filter value

6.1.1.2 Configure filters Globally

To configure the filter(s) globally; i.e. filters apply to all Project Areas with EmailSender configured, you must add the filters to the jazzconnect.properties file, as follows:

Folder location: <jazz-server-loc>\server\conf\ccm\sites\jazzconnect-emailsender

```
emailWhiteListFilter=^\\S+\@(Kintrax|mycompany).com$
emailBlackListFilter=^\\S+\@(gmail|yahoo).com$
```

Notes:
1. There is a jazzconnect.properties.sample file located in this directory. Simply rename to jazzconnect.properties and edit the file accordingly.
2. Take note of the double back-slash and no double quotes needed in the filter value

6.2   *Adding the Email Tab*

The email tab provides you with an interface for sending emails from a Work Item.

Follow these steps to add the Email Tab:

1. Ensure that "Enable Process Attachments Scripts" is enabled in the Advanced server properties of the CCM Application:
   https://localhost:9443/ccm/admin#action=com.ibm.team.repository.admin.configureAdvanced
2. Search for 'Enable Process Attachment Scripts' and ensure that it is set to '**true**' (This is not the default value)

Figure 5 - Enable Process Attachment Scripts

3. Follow one (1) of the following steps:
   a. To add the Email tab directly, through copying and pasting code into the Process Configuration Source tab, follow the instructions in section 6.2.1

   OR

   b. To add the email tab manually, follow section 6.2.2.

6.2.1 Adding the Email Tab Through Copy and Paste

Perform the following actions:

1. Open the `Adding the Email Tab.xml` file included in the installation package and follow the instructions that are included in this file (it is also included in Appendix B – Sample XML Schema)
2. Complete section 6.2.2.2 (Adding Email Sender Scripts)
3. Complete section 6.2.2.4 (Further Attribute Customization)

All other sections of 6.2.2 can be skipped

6.2.2 Adding the Email Tab Manually

To add the Email tab manually, open the project area and navigate to the 'Process Configuration' tab. From here, expand 'Project Configuration,' 'Configuration Data', and 'Work Items.'

6.2.2.1 Adding an Enumeration

Click on 'Enumerations,' under 'Choose an enumeration to edit, click 'Add…' and create an enumeration with the following details:

ID: emailSenderInclude
Name: Email Sender Include
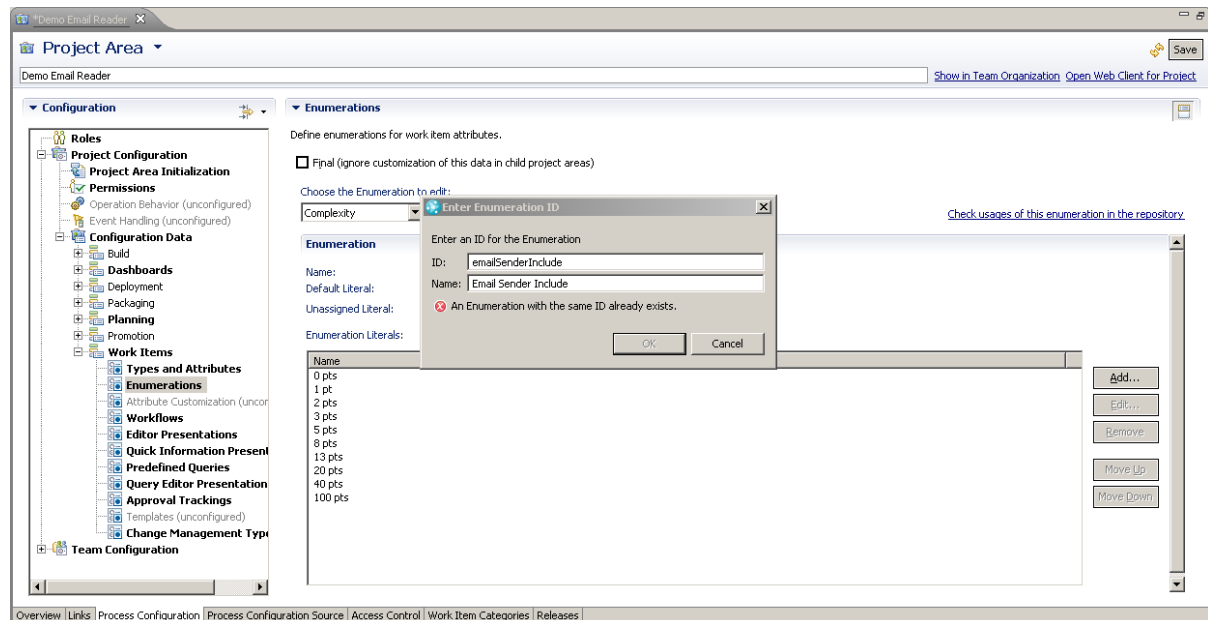
Figure 6: Adding an enumeration

Once the enumeration has been created, add three literals (using the 'Add…' button on the right hand side) with the following names:

- Nothing
- WorkItem Description
- Full Email History
- All Configured

For the 'Default Literal' and 'Unassigned Literal' dropdown menus, select 'Nothing' from both.

6.2.2.2 Adding Email Sender Scripts

On the left hand side, click on '`Attribute Customization`' and select '`Value Sets`'.
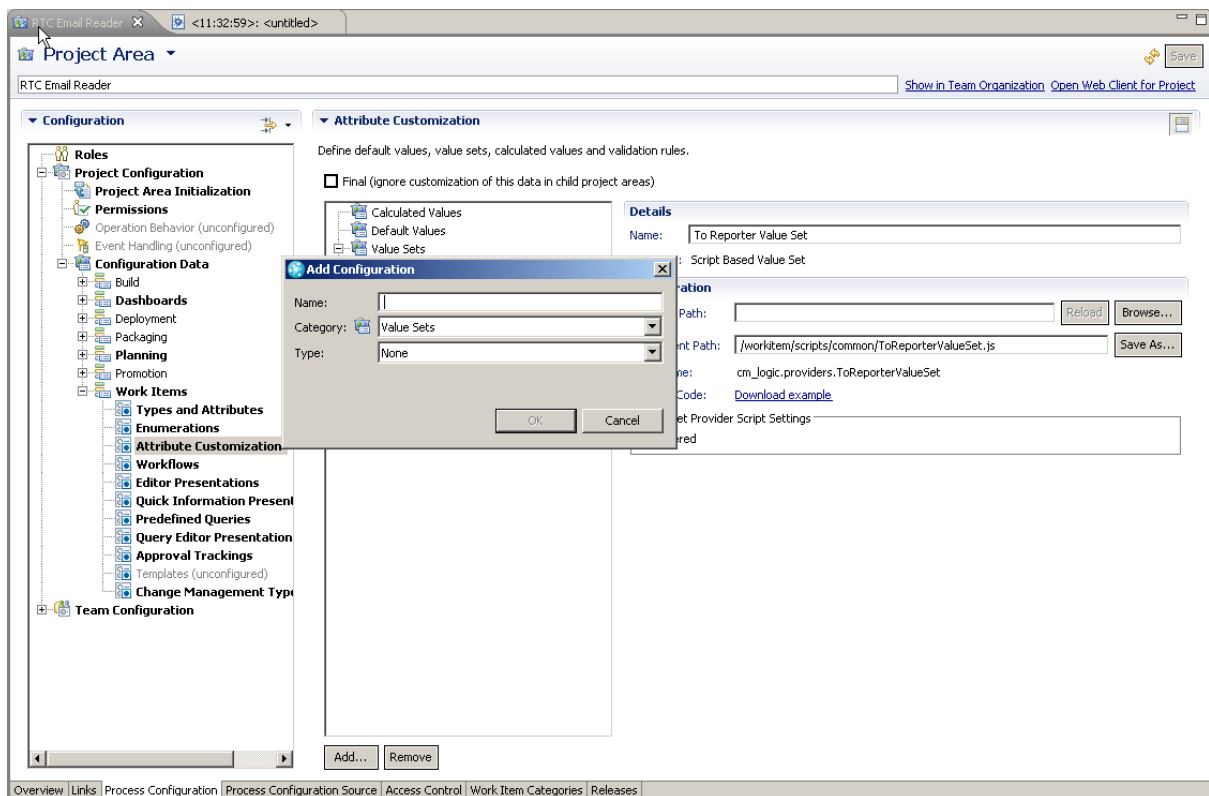
Figure 7: Adding attribute customization scripts

By clicking '`Add…`', create two value sets of type 'Script-based value set' and by clicking on the '`Browse…`' button, select the relevant javascript file from the two available in the JazzConnect-Email Sender Edition package.

Name	Local File Path
To Reporter Value Set	ToReporterValueSet.js
To CC Reporter Value Set	ToCCReporterValueSet.js

Figure 8: Table of Value Set scripts to add

6.2.2.3 Adding Custom Attributes

On the left hand side, click on 'Types and Attributes.'

The Email Tab can be added to any Work Item type you choose. In this example we will be adding it to the 'Defect' Work Item type.

Click on 'Defect' and in the 'Attributes' section, click on 'Add...'

Figure 9: Adding a Custom Attribute

Using this method, create the custom attributes with the fields detailed in figure 5 below.

Note: Take extra care to get the IDs exactly correct as, once created, they cannot be undone	

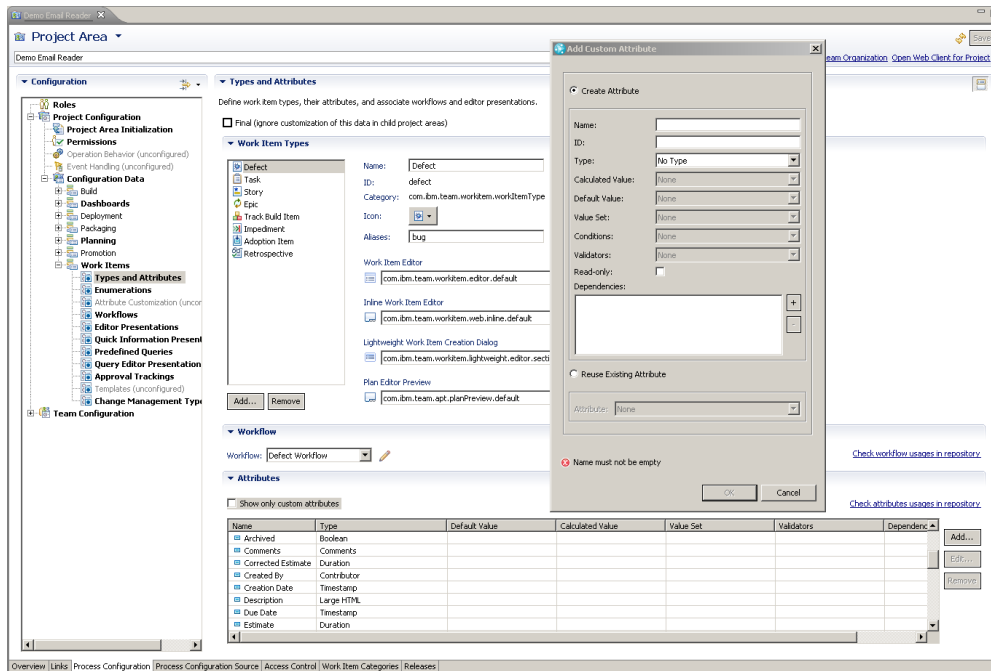| Name	ID	Type
Attachment Number(s)	attachmentNumbers	Medium String
BCC	emailSenderBCC	Medium String
BCC (list)	emailSenderBCCList	Contributor List
Body	emailSenderBody	Large String
CC	emailSenderCC	Medium String
CC (list)	emailSenderCCList	Contributor List
CC (reporter email)	emailSenderReporterCCEmail	Medium String
From	emailSenderFrom	Medium String
From (default)	emailSenderFromDefault	Medium String
Include	emailSenderInclude	Email Sender Include (Enumeration)
Reporter Email	reporterEmail	Small String
Reporter CC Email	reporterCCEmail	Small String
Subject	emailSenderSubject	Medium String
To	emailSenderTo	Medium String
To (reporter email)	emailSenderReporterEmail	Medium String
To (list)	emailSenderToList	Contributor List
Ready To Send	emailReadyToSend	Boolean
Reset Email Fields	emailFieldReset	Boolean

Figure 10: Table of email tab attributes

6.2.2.4 Further Attribute Customization

In 'Types and Attributes', we now need to associate the scripts we added in section 6.2.2.2 to the relevant attributes. Double-click on the attributes named below and add the following customizations to the attributes.

Name	Value Set	Dependencies
To (Reporter email)	To Reporter Value Set	Reporter Email
CC (reporter)	To CC Reporter Value Set	Reporter CC Email

Figure 11: Table of scripts with attributes

6.2.2.5 Configuring the Editor Presentation

On the left hand side, click on Editor Presentations.

Click 'Add Tab…' on the right hand side and create a tab with the following properties:

Title: Email
Layout: H Layout
Create Tab ID: emailtab
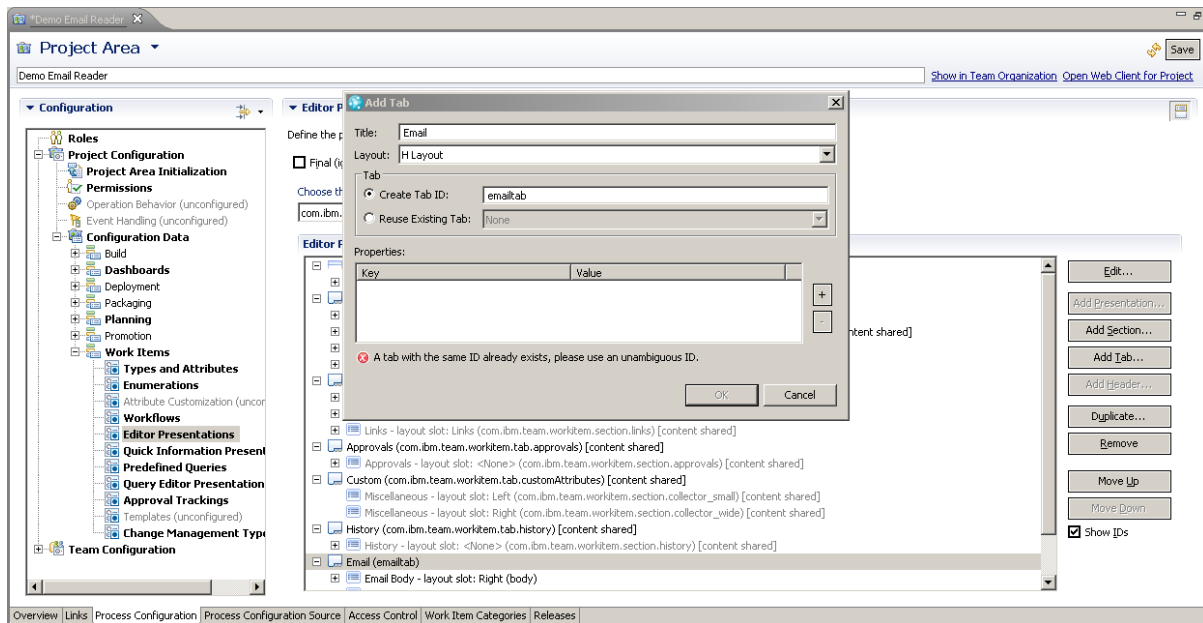
Figure 12: Adding Email tab to editor presentation

Once created, highlight the 'Email' tab and add four sections (using the 'Add Section…' button on the right hand side) with the following properties:

Title	Slot	Create Section ID	Properties
Email Body	Right	Body	-
Subject and From	Top	SubjectFrom	-
To Details	Left	ToDetails	-
Comments	Bottom	commentssection	Key: expanded Value: false

Figure 13: Table of email tab sections

Individual presentations now need to be added to these sections on the tab. This can be done by selecting a section and clicking the 'Add Presentation…' button on the right hand side.

Figure 14: Adding presentations to sections

The table below details which to create. Select 'Attribute-based presentation' and for the 'Read Only' property, select 'Inherit from Attribute' for all of these.

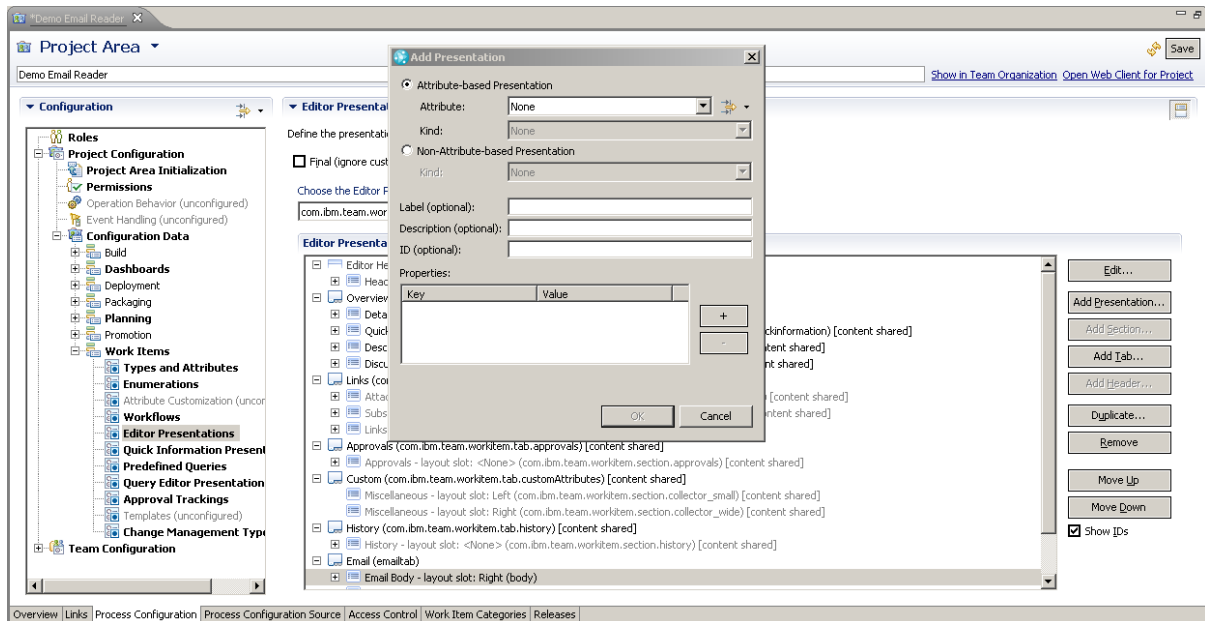| Section	Attribute	Kind	Extras
Email Body			
	Body	Description (in RTC 4.x, select 'Text')	
	Attachment Number(s)	String	LABEL - Attachment IDs (comma separated) to include in Email
Subject and From			
	Subject	String	DESCRIPTION - Leave blank to use Summary as email subject
	From (default)	String	DESCRIPTION - Based on team value
	From	String	DESCRIPTION - Leave blank to use From (default) value
To Details			
	Include	Radio Group	
	Ready To Send	Boolean	
	Reset Email Fields	Boolean	
	To (Reporter email)	Value set combo	
	To	String	DESCRIPTION - Leave blank to use To (reporter email) value (if box is checked)
	To (list)	Contributor List	
	CC (Reporter email)	Value set combo	
	CC	String	DESCRIPTION - Leave blank to use CC (reporter email) value (if box is checked)
	CC (list)	Contributor List	
	BCC	String	
	BCC (list)	Contributor List	

Figure 15: Table of presentations

- Select the Comment section and add a presentation to it. Select 'Non-Attribute-Based Presentation' and select 'Discussion' from the 'Kind' dropdown menu.
- Select the Email Body section and add a presentation to it. Select 'Non-Attribute-Based Presentation' and select 'Attachments' from the 'Kind' dropdown menu.

Finally,

- Select the Overview tab and click 'Add Presentation…'
- Anywhere in this tab, add the 'Reporter Email' and 'Reporter CC Email' attributes of kind 'String.'

Note: Optionally, you can add the 'Reporter Email' and 'Reporter CC Email' attributes to another tab.

6.3 Editing the Email Tab Attributes

If a user wishes to edit the email tab attributes that we added to the process definition, the project role for the user must have the relevant permissions.

To configure the "Modify" permissions for these (and any other attributes), this can be done through the `'Process Configuration'` tab of the project. Click on `Team Configuration` ➔ `Permissions` and depending upon your chosen process role (here we have chosen 'Everyone'), navigate to `Work Items` ➔ `Save Work Item (server)` ➔ `Modify a Work Item`. Here, you can choose which attributes a specific project role can modify.

.
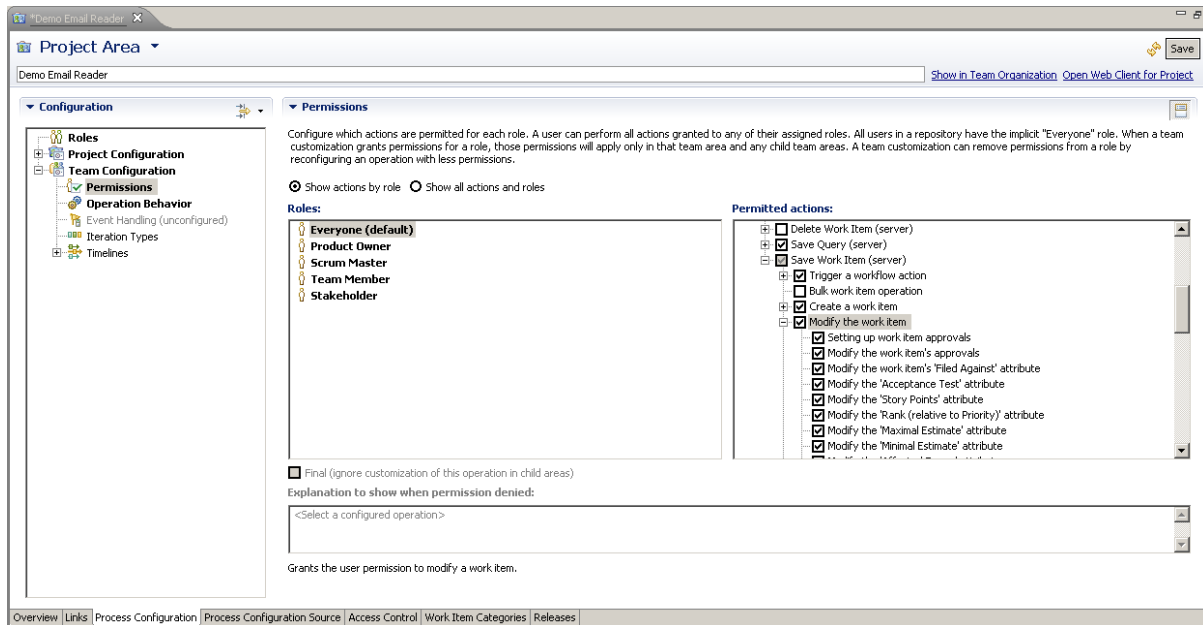
Figure 16: Modifying Project Area permissions

7 Testing

This section details a walkthrough of a simple test that can be carried out to verify if the email tab has been configured correctly and the plugin has been installed correctly.

7.1 Send an Email from a Created Work Item

Basic Test:

1. Click on a Work Item that has just been created and navigate to the Email tab
2. If the email tab looks like the figure below, then it has been configured correctly
3. Send an email; at minimum, fill in the 'To' and 'Email Body' fields and click the 'Save' button in the top right-hand corner.
4. Verify that the email has arrived

Figure 17: Sending an email from Rational Team Concert

8 Appendix A – Configuring Operation Advisor Email Precondition

To find where OperationAdvisorEmail is configured, navigate to the 'Process Configuration Source' tab of your Jazz project and search for 'OperationAdvisorEmail.'

The **mandatory** parameters in the OperationAdvisorEmail are:

enabled	Sets whether the precondition is enabled. Set to true for the Email Sender to function.
addAsComment	The body of the email is added to the Work Item as a comment if set to true.
allowAttachments	If set to false, functionality to include attachments in emails is disabled.
resetToFields	If true, the values of To, To (list) and To (reporter email) will be reset to a blank value after the email is sent. If false, the last used values will remain.
resetCcFields	If true, the values of CC, CC (list) and CC (reporter email) will be reset to a blank value after the email is sent. If false, the last used values will remain.
resetBccFields	If true, the values of BCC and BCC (list) will be reset to a blank value after the email is sent. If false, the last used values will remain.
updateAttachment	If you have opted for an attachment with the email history, it will be updated if set to true.

The **optional** parameters in the OperationAdvisorEmail are:

attachmentBodyPrefix	This parameter sets the prefix of the name of the attachment that is automatically created and used to track all correspondence regarding the Work item it is linked to.
attachmentLinkType	Rarely used. The default link type is com.ibm.team.workitem.linktype.attachment. If you wish to have an alternative link type, change this value.
defaultFrom	If no email address is found from the lookup list, then the email address specified here will be used as the default "from"/"reply-to." If this is left blank, the "from" email address will default to that of the user that is logged in.
emailFooter	This field adds a footer to every email that is sent. Different footers can be configured depending upon who the Work Item is assigned to. For example: `emailFooter="Unassigned=>Unassigned Footer;App Resource=>Warning\nThis is on\nmultiple\nlines;Demo Email Reader=>--\nKintrax Ltd\nTel +44 7860 444"`
emailWiIncludeFields	This parameter sets which fields are included in an email when the 'WorkItem Description' option is selected. The default is to have the Id, Summary, and Description fields included. Any attribute ID in the Work Item can be used here. Example: `emailWiIncludeFields= "id,internalPriority,customAttribute1"`
fieldNames	Use a semicolon separated list to configure Email tab custom

	attributes. Example: `from=emailSenderFrom;subject=emailSenderSubject`
fromLookup	Use a semicolon separated list to configure different from/reply-to email addresses. Example: `Unsassigned=>`rtc.unassigned@Kintrax.com`; App Resource=>`rtc.appres@Kintrax.com This will allow you have different email boxes processing incoming emails depending on which the value of the Work Item type configured in 'fromLookupField.' For example, if it is configured to look up the value of the specified Team (fromLookupField= "category"). If you leave a team out of the mapping, the defaultFrom field value will be used.
fromLookupField	Field to lookup a value for use in the "fromLookup" field. The default is "category."
tempDirectory	Rarely used. Specifies a temporary directory for storing files. Only use if you are unhappy with the default directories (/tmp or C:/temp)
WorkItemTypes	This restricts which WorkItem types the email processor will attempt to run for.

The following parameters are in case the attribute IDs of the custom attributes specified in section 6.2.2.3 are unavailable. Change the values of the following parameters if the attribute IDs are different than specified in section 6.2.2.3:

defaultToFields	defaultToFields="emailSenderReporterEmail,emailSenderTo,emailSenderToList"
defaultCcFields	defaultToFields="emailSenderCC,emailSenderCCList"
emailAttachmentList	emailAttachmentList="attachmentNumbers"
emailBccFields	emailBccFields="emailSenderBCC,emailSenderBCCList"
emailBodyField	emailBodyField="emailSenderBody"
emailFromField	emailFromField="emailSenderFrom"
emailIncludeFlag	emailIncludeFlag="emailSenderinclude"
emailSubjectField	emailSubjectField="emailSenderSubject"
emailSendField	emailSendField="emailReadyToSend"
emailResetField	emailResetField="resetEmailFields"

9 Appendix B – Sample XML Schema

This XML data is used as part of the instructions included in section 6.2.1

> **Note:** This document can be opened in an editor program (such as Notepad++) for increased readability.
>
> Be sure to save a backup copy of the process configuration source before you start

```
<!--

                                                *****Adding the Email Tab*****

        Open up the 'process configuration source tab' on the project that you wish to
        add the email tab to and append the following code to the relevant section.

        Inside <customAttributes category ="<relevant WI type>"></customAttributes>, add
        the custom attributes:

        NB: by default, "defect" = "com.ibm.team.workitem.workItemType"
-->

<customAttribute id="attachmentNumbers" name="Attachment Number(s)" type="mediumString"/>
 <customAttribute id="reporterEmail" name="Reporter Email" type="smallString"/>
 <customAttribute id="reporterCCEmail" name="Reporter CC Email" type="smallString"/>
 <customAttribute id="emailSenderBody" name="Body" type="string"/>
 <customAttribute id="emailSenderSubject" name="Subject" type="mediumString"/>
<customAttribute id="emailSenderFrom" name="From" type="mediumString"/>
<customAttribute id="emailSenderInclude" name="Include" type="emailSenderInclude"/>
<customAttribute id="emailSenderReporterEmail" name="To (reporter email)" type="mediumString"/>
 <customAttribute id="test" name="Test" type="smallString"/>
<customAttribute id="emailSenderTo" name="To" type="mediumString"/>
<customAttribute id="emailSenderToList" name="To (list)" type="contributorList"/>
 <customAttribute id="emailSenderReporterCCEmail" name="CC (reporter)" type="mediumString"/>
 <customAttribute id="emailSenderCC" name="CC" type="mediumString"/>
<customAttribute id="emailSenderCCList" name="CC (list)" type="contributorList"/>
 <customAttribute id="emailSenderBCC" name="BCC" type="mediumString"/>
 <customAttribute id="emailSenderBCCList" name="BCC (list)" type="contributorList"/>
<customAttribute id="emailSenderFromDefault" name="From (default)" type="mediumString"/>
<customAttribute id="multiselect" name="Multiselect" type="enumerationList$severity"/>
<customAttribute id="emailReadyToSend" name="Ready To Send" type="boolean"/>
 <customAttribute id="reporterToEmail" name="Reporter To Email" type="mediumString"/>
 <customAttribute id="emailFieldReset" name="Reset Email Fields" type="boolean"/>
<!--
        Inside <attributeDefinitions></attributeDefinitions>, add:
-->

<attributeDefinition id="emailSenderBody" name="Body" type="string"/>
<attributeDefinition id="attachmentNumbers" name="Attachment Number(s)" type="mediumString"/>
<attributeDefinition id="emailSenderSubject" name="Subject" type="mediumString"/>
<attributeDefinition id="emailSenderFrom" name="From" readOnly="false" type="mediumString"/>
<attributeDefinition id="emailSenderInclude" name="Include" type="emailSenderInclude"/>
<attributeDefinition id="emailSenderReporterEmail" name="To (reporter email)" type="mediumString"/>
<attributeDefinition id="emailSenderTo" name="To" type="mediumString"/>
<attributeDefinition id="emailSenderToList" name="To (list)" type="contributorList"/>
<attributeDefinition id="emailSenderReporterCCEmail" name="CC (reporter)" type="mediumString"/>
<attributeDefinition id="emailSenderCC" name="CC" type="mediumString"/>
<attributeDefinition id="emailSenderCCList" name="CC (list)" type="contributorList"/>
```

```xml
<attributeDefinition id="emailSenderBCC" name="BCC" type="mediumString"/>
<attributeDefinition id="emailSenderBCCList" name="BCC (list)" type="contributorList"/>
<attributeDefinition id="reporterEmail" name="Reporter Email" type="smallString"/>
<attributeDefinition id="reporterCCEmail" name="Reporter CC Email" type="smallString"/>
<attributeDefinition id="emailSenderFromDefault" name="From (default)" type="mediumString"/>
 <attributeDefinition id="emailReadyToSend" name="Ready To Send" type="boolean"/>
<attributeDefinition id="reporterToEmail" name="Reporter To Email" type="mediumString"/>
 <attributeDefinition id="emailFieldReset" name="Reset Email Fields" type="boolean"/>

<!--
        Inside <editor id="<editor associated with the relevant WI type>"></editor>, add:
-->

<tab tabId="emailtab" title="Email"/>

<!--
        Inside <configuration-data xmlns="http://com.ibm.team.workitem.editor/presentations" final="false"
id="com.ibm.team.workitem.editor.configuration.presentations"></configuration-data>, add:
-->

<section id="ToDetails">
<presentation attributeId="emailReadyToSend" kind="com.ibm.team.workitem.kind.boolean"/>
<presentation attributeId="emailFieldReset" kind="com.ibm.team.workitem.kind.boolean"/>
  <presentation attributeId="emailSenderInclude" kind="com.ibm.team.workitem.kind.radiogroup"/>
  <presentation attributeId="emailSenderReporterEmail"
kind="com.ibm.team.workitem.kind.internal.valuesetcombo"/>
  <presentation attributeId="emailSenderTo" description="Leave blank to use To (reporter email) value (if box
is checked)" kind="com.ibm.team.workitem.kind.string"/>
  <presentation attributeId="emailSenderToList" kind="com.ibm.team.workitem.kind.contributorList"/>
  <presentation attributeId="emailSenderReporterCCEmail"
kind="com.ibm.team.workitem.kind.internal.valuesetcombo"/>
  <presentation attributeId="emailSenderCC" description="Leave blank to use CC (reporter email) value (if box
is checked)" kind="com.ibm.team.workitem.kind.string"/>
  <presentation attributeId="emailSenderCCList" kind="com.ibm.team.workitem.kind.contributorList"/>
  <presentation attributeId="emailSenderBCC" kind="com.ibm.team.workitem.kind.string"/>
  <presentation attributeId="emailSenderBCCList" kind="com.ibm.team.workitem.kind.contributorList"/>
</section>
<tab id="emailtab" layout="builtInHLayout">
  <section sectionId="body" slot="right" title="Email Body"/>
  <section sectionId="SubjectFrom" slot="top" title="Subject and From"/>
  <section sectionId="ToDetails" slot="left" title="To Details"/>
  <section sectionId="commentssection" slot="bottom" title="Comments">
    <property key="expanded" value="false"/>
  </section>
</tab>
<section id="Body">
  <presentation attributeId="emailSenderBody" kind="com.ibm.team.workitem.kind.internal.description"/>
  <presentation attributeId="attachmentNumbers" kind="com.ibm.team.workitem.kind.string"
label="Attachment IDs (comma separated) to include in Email"/>
  <presentation kind="com.ibm.team.workitem.kind.internal.attachments"/>
</section>
<section id="commentssection">
  <presentation kind="com.ibm.team.workitem.kind.internal.discussion"/>
</section>
<section id="SubjectFrom">
  <presentation attributeId="emailSenderSubject" description="Leave blank to use Summary as email subject"
kind="com.ibm.team.workitem.kind.string"/>
<presentation attributeId="emailSenderFromDefault" description="Based on team value"
kind="com.ibm.team.workitem.kind.string"/>
```

```
  <presentation attributeId="emailSenderFrom" description="Leave blank to use From (default) value"
kind="com.ibm.team.workitem.kind.string"/>
</section>


<!--
        Inside <configuration-data xmlns="http://com.ibm.team.workitem/enumerations" final="false"
id="com.ibm.team.workitem.configuration.enumerations"></configuration-data>, please add:
-->


<enumeration attributeTypeId="emailSenderInclude" name="Email Sender Include">
<literal default="true" externalValue="0" id="emailSenderInclude.literal.l3" name="0 - Nothing" null="true"/>
<literal externalValue="1" id="emailSenderInclude.literal.l5" name="1 - WorkItem Description"/>
 <literal externalValue="2" id="emailSenderInclude.literal.l7" name="2 - Full Email History"/>
<literal externalValue="3" id="emailSenderInclude.literal.l8" name="3 - All Configured"/></enumeration>


<!--
        N.B For RTC v 4.x, please replace:
        <presentation attributeId="emailSenderBody"
kind="com.ibm.team.workitem.kind.internal.description"/>
        WITH
        <presentation attributeId="emailSenderBody" kind="com.ibm.team.workitem.kind.text"/>
-->
```