

How-To Guide: Email Notification in SAP Asset Information Workbench (AIW)

Applies to

SAP Asset Information Workbench (AIW) 1909 by Prometheus Group.

Summary

How-To guide to integrate Email Notification with Workflow work item in AIW.

Author: Mani Balakrishnan

Company: Prometheus Group

Created On: August 27, 2019

Version: 1.0



Table of Contents

1.	Introduction	3
2.	AIW Email Functionality	3
3.	Disclaimer	3
4.	Email Configuration	3
	4.1. User Maintenance	3
	4.2. Transparent Table	3
	4.3. Maintenance View	4
	4.4. Technical Details	4
	4.4.1. Standard Task - TS80000006	4
	4.4.2. Standard Text(s)	5
	4.4.3. Class-Methods to Notify Approvers	5
	4.5. Dependencies	6
5.	Customize Email Template	6
;	5.1. Copy/Create of Email Template	6
;	5.2. Maintain Email Configuration	7
;	5.3. Modify Email Task Method	8
6	Troubleshooting	a



1. Introduction

This document describes how to integrate email notification with work items. This document also describes the process to customize default email templates.

2. AIW Email Functionality

The email functionality is designed to support any Change Request type and Workflow Step types defined in MDGIMG configuration. The emails sent out are not actual work item(s) but notifications for a designated processor of the work item and any additional recipients to be notified at a BRF+ workflow step.

The email functionality allows to execute and approve work items from the external mailbox. The work items are delivered to an external mailbox and user can execute and approve the work items by clicking on the hyperlink.

A default email appears in the default email sending the client of your computer. It is possible to adapt all content except the link before sending the email.

Emails or notifications are sent to the actual recipients of the work item and additional recipient(s) in AIW.

Prometheus Group provides eight predefined email templates, which can be adapted by the user. Refer to Table 1: Default Email Templates for more details.

3. Disclaimer

The email functionality is designed to work only for AIW BRF+ controlled workflow(s). This will not replace extended notifications defined in SAP.

4. Email Configuration

This section gives a detailed description of the configuration that drives the email functionality.

4.1. User Maintenance

This feature allows maintaining the email address of the user.

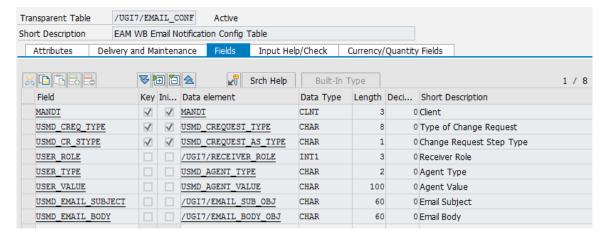
Go to SAP User Maintenance t-code SU01 and maintain the email address of the user to be notified.

4.2. Transparent Table

Table "/UGI7/EMAIL_CONF" stores the configuration details of the recipient of the notification, the workflow step, and the corresponding email template.



The structure of the table is displayed in the following image:



4.3. Maintenance View

This view is provided to the user to maintain, create or change the email configuration.

Maintenance view "/UGI7/V_EM_CONF" is created to add new/change configuration of the emails in the table "/UGI7/EMAIL_CONF". This view can be accessed using the t-code SM30.

Refer to the table as explained in <u>Section 5.2 on Maintain Email Configuration</u>.

4.4. Technical Details

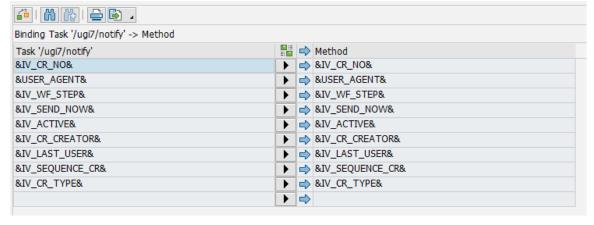
This section of the document provides a detailed explanation about the technical developments made for the email functionality in AIW.

4.4.1. Standard Task - TS80000006

This task is used to execute the method of the class to send email notification during the Change Request workflow approval process.

For example, the task "TS80000006" is designed to execute the method "NOTIFY_APPROVERS" of the class "/UGI7/USMD_WF_SSW" to send email notification during the Change Request workflow approval process.

The task exports the following parameters from the workflow container to class method.





4.4.2. Standard Text(s)

Standard text objects are created for email subject and body for different workflow step types.

These text objects are assigned in table "/UGI7/EMAIL_CONF" to be processed by the send email task of the workflow.

Text Object	Description
/UGI7/EAM_SWN_BODY_FINISH	Email content used in workflow step-type "Approve"
/UGI7/EAM_SWN_BODY_PROCESS	Email content used in workflow step-type "Process"
/UGI7/EAM_SWN_BODY_PROCE_REJ	Email content used in workflow step-type "Revise"
/UGI7/EAM_SWN_BODY_SEQCR	Email content used in sequence launch of MOCR
/UGI7/EAM_SWN_SUBJECT_FINISH	The subject of the email notification used in workflow step-type
	"Approve"
/UGI7/EAM_SWN_SUBJECT_PROCES	The subject of the email notification used in workflow step-type
	"Process"
/UGI7/EAM_SWN_SUBJECT_REVISE	The subject of the email notification used in workflow step-type
	"Revise"
/UGI7/EAM_SWN_SUBJECT_SEQCR	The subject of the email notification used in sequence launch of
	MOCR

Table 1: Default Email Templates

4.4.3. Class-Methods to Notify Approvers

Class Name: /UGI7/USMD_WF_SSW
Method Name: NOTIFY_APPROVERS

This method sends an email notification to the recipients maintained in table "/UGI7/EMAIL_CONF" in HTML format.

The following lists the logic of the notification process:

- Determine the email configuration maintained for the Change Request type and workflow step type from table "/UGI7/EMAIL_CONF".
- For each recipient maintained in the table, (apart from user type "US") determine the SAP user id.
- For the recipients determined in the above step, call the method "SEND_MAIL".
- Method Name: SEND_MAIL
- Determine email id of the SAP user by calling the method "GET_EMAIL_ID" (from user profile)
- Method "GET_VARIABLES_NOTIFICATIONS" return the contents related to Change Request and Workflow step to be embedded in the email notification.
- Method "GET_TEXT_FROM_REPOSITORY" reads the text objects associated with the current workflow step type and replaces the text symbols (place holders) with the CR content determined in above step (b).
- Once the email subject and body are built, the program sends an email by calling the method "SEND" of class "CL_BCS".



4.5. Dependencies

The following lists the objects that exist for the email functionality to work without issues.

- The text objects maintained in table "/UGI7/EMAIL CONF" should be valid (i.e. created).
- Email address should be maintained in the user profile of the SAP user.
- SMTP nodes should be configured in the t-code "SCOT".

5. Customize Email Template

Email templates are designed to create custom templates. The templates are specific to different functions. This section describes the procedure to successfully change the standard email template.

The following topics are discussed in this section:

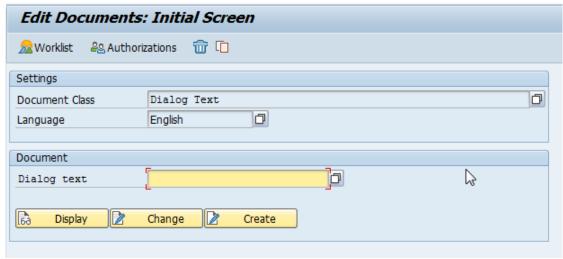
- Copy/Create of Email Template
- Maintain Email Configuration
- Modify Email Task Method

5.1. Copy/Create of Email Template

Use the following steps to copy/create an email template:

- 1. Navigate to the t-code SE61.
- 2. Set the Document class to "Dialog Text" and the desired language as "English".
 - i Note

You can select the desired language.



- 3. Select desired Email Template as in Table 1: Default Email Templates.
- 4. Change the content of the Text Object Save and Activate the Object.
- i Note

Alternatively, you can create new email templates in the customer namespace.



5.2. Maintain Email Configuration

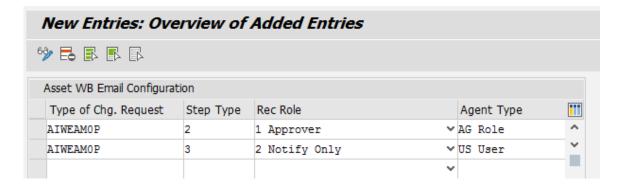
The following section provides a detailed explanation of the configuration that drives the email functionality.

1. Customizing activity using transaction path MDGIMG > Asset Information Workbench > Email Notification.



2. Maintain the following to create new/change the email configuration.

Field	Description
Type of Change	MDG Change Request type that should be maintained.
Request	
Change Request	Workflow step type. Values: Approve; Revise; Process
Step Type	
Receiver Role	Values: Approver / Notify Only.
	Receiver Roles are of two categories: "Approver" or "Notify Only". The recipients of the email are maintained in the table based on their categories.
	Approver: An email is sent to the users of the category for further action based on step type.
	Notify Only: An email notification is sent to users of the category based on step type.
Agent Type	Recipient Type. Example: "US" / "AG" / "S" / "C" / "O" / "SU"
Agent Value	Recipient Value. Example: User ID
Email Subject	Name of the template/text object maintained for the email subject
Email Body	Name of the template/text object maintained for the email body





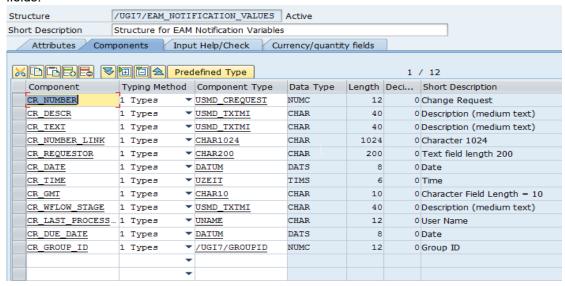
Excel attached as a reference of all the entries expected.



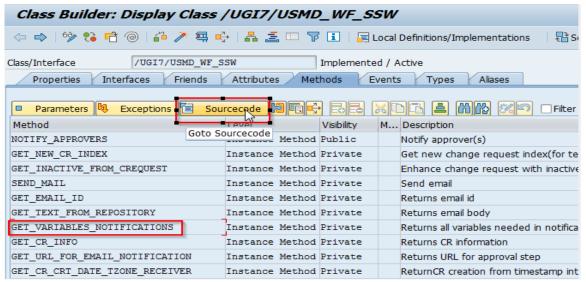
5.3. Modify Email Task Method

This step is required if the new CR related details should be included in the email content apart from the standard delivered content.

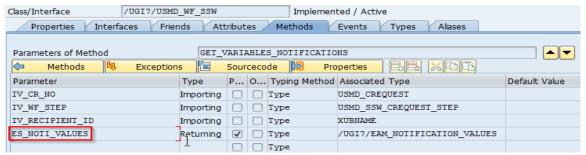
 Go to t-code SE11 to enhance the structure /UGI7/EAM_NOTIFICATION_VALUES with new fields.



2. Go to t-code SE24. Set "/UGI7/USMD_WF_SSW" in the object type and enter method "GET_VARIABLES_NOTIFICATIONS" in display mode.



3. Create implicit enhancement within the class method to fetch the new CR content and update the export parameter.



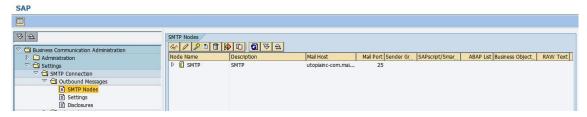


6. Troubleshooting

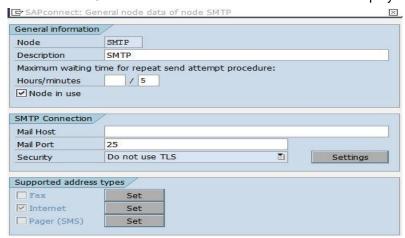
In case you do not receive any email notification for the custom domain, maintain the domain in the SCOT.

Use the following steps to maintain the email notification to be processed.

1. Go to t-code SCOT and click on SMTP node.

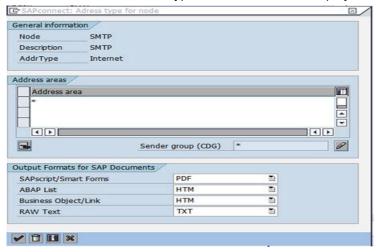


SAP connect: General node data of node SMTP screen is displayed.



- 2. In the General information block, enable Node in use field.
- 3. In the SMTP connection block, maintain Mail Host and Mail Port as 25.
- 4. In the Supported address types block, select Internet.
- 5. Click Set.

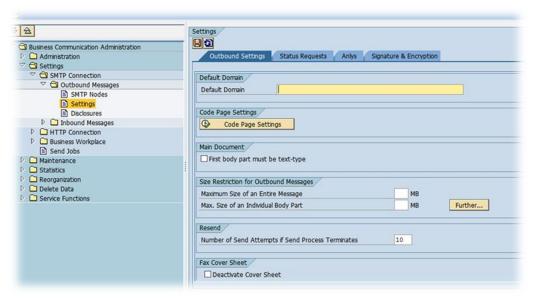
The SAP connect: Address type for node screen is displayed.



In the Address areas block, maintain "*". This indicates that the email notification to external and internal users are configured.



- 7. Click Continue
- 8. Select SMTP Connection > Outbound Messages > SMTP Nodes > Settings and maintain the Default Domain in the Outbound Settings tab.



9. Go to t-code SOST.

A list of pending requests is displayed on the screen. You can either manually process or automate the process.