



Kofax Work Cycle Configuration Guide

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Preface

Kofax Work Cycle is the workflow component for Kofax Process Director Accounts Payable™. It allows users to approve invoices. SAP users can perform these tasks inside the SAP environment. Non-SAP users can use the Web Application.

❗ Kofax Work Cycle is the workflow component for Kofax Process Director Accounts Payable only. For information on configuring workflows for other process types, see the *Kofax Process Director Configuration Guide*.

Open the IMG

- To open the Work Cycle IMG, go to the `/COCKPIT/WI` transaction.

Workflows

Users can use workflows to send documents electronically to other people to obtain or provide additional information, clarification and approval.

Build a workflow

To build a workflow, complete the following procedures.

1. [Create a workflow.](#)
2. [Create one or more workflow steps.](#)
3. [Add workflow steps to a workflow.](#)
4. [Activate the workflow.](#)

Create a workflow

To create a workflow, complete the following steps.

1. Go to the [/COCKPIT/WI2](#) transaction.
2. In change mode, add a new entry.
3. Type a **Workflow ID** and a **Workflow description**.
Workflow recipients see the workflow description in the **Start workflow** dialog box, so choose a helpful description that indicates the purpose of the workflow.
4. In the **Workflow type** list, select the type of documents for which the workflow will be available.
5. Optional. Specify values for the other settings.
6. Click **Save** .

Create a workflow step

Workflow steps are the basic units of work that you use to compose workflow processes. Workflow steps always involve a human task such as data entry or approval.

Defining steps independently of a workflow means that you can use them in different workflows.

To create a workflow step, complete the following steps.

1. Go to the [/COCKPIT/WI3](#) transaction.
2. In change mode, add a new entry.
3. Type a **Workflow step ID** and a **Step description**.
4. In the **Workflow type** list, select the type of workflow step. The workflow type determines whether users can edit the document, or only release it.

5. In the **Processor** section, select at least one check box to specify which type of users can process the workflow step.
6. Optional. Specify values for the other settings.
7. Click **Save** .

Add workflow steps to a workflow

You can add a workflow step to more than one workflow. For example, if you create a general approval workflow step for a manager, you can use this step in multiple workflows without having to recreate the same step for each workflow.

To add workflow steps to a workflow, complete the following steps.

1. Go to the [COCKPIT/WI4](#) transaction.
2. In change mode, add a new entry.
3. Select a **Workflow ID**.
4. In the **Workflow step ID** field, select the workflow step that will be the first step in the workflow.
5. In the **Pos** field, type 1 as the position of the workflow step in the workflow.
6. Repeat these steps for each step in the workflow, increasing the **Position** number by 1 for each subsequent step.
7. Click **Save** .

Activate a workflow

You must activate a workflow to make it available for use.

1. Go to the [/COCKPIT/WI7](#) transaction.
2. In change mode, add a new entry.
3. Optional: Select a **Company Code** or a **PD document type** to restrict the workflow to one or both of these parameters.
4. Select **FI** or **MM**. To make the workflow available for both types of documents, create two entries, one for **FI** and one for **MM**.
5. Select the **Workflow ID**.
6. Click **Save** .

Configure automatic workflow start

You can configure settings to automatically start workflows when one of the following conditions is met.

- [Document transfer](#)
- [Document posting](#)
- [Document approval](#)

You can also configure settings to delay the start of a workflow by determining the baseline date from one of the following:

- Document transfer date

- Invoice date
- Document delivery date

For more information, see [Configure automatic workflow start](#) and [Define functions for baseline date](#).

Automatic workflow start on document transfer

When a document is transferred to Process Director Accounts Payable, if so configured, the system automatically starts a workflow.

If the workflow has a delay set, it is not started. If a follow-up flag is configured, a follow-up icon is set, regardless of the workflow start.

To automatically start a workflow on document transfer, complete the following steps.

1. Go to the [/COCKPIT/WI35](#) transaction.
2. In change mode, add a new entry.
3. In the **Automatic workflow start configuration table**, fill in all the required fields.
4. The **Start at Process** field is where you have to select the **01 Transfer** check box to allow the workflow to automatically start on document transfer.
5. Click **Save** .

Automatic workflow start on document posting

When a document is posted in Process Director Accounts Payable, if so configured, the system automatically starts a workflow.

If the workflow has a delay set, it is not started. If a follow-up flag is configured, a follow-up icon is set, regardless of the workflow start.

To automatically start a workflow on document posting, complete the following steps.

1. Go to the [/COCKPIT/WI35](#) transaction.
2. In change mode, add a new entry.
3. In the **Automatic workflow start configuration table**, fill in all the required fields.
4. The **Start at Process** field is where you have to select the **03 After Posting** check box to allow the workflow to automatically start on document posting.
5. Click **Save** .

Automatic workflow start on document approval

When a document is approved or rejected in Work Cycle, if so configured, the system automatically starts a workflow.

If the workflow has a delay set, it is not started. If a follow-up flag is configured, a follow-up icon is set, regardless of the workflow start.

To automatically start a workflow on document approval or rejection, complete the following steps.

1. Go to the [/COCKPIT/WI35](#) transaction.
2. In change mode, add a new entry.

3. In the **Automatic workflow start configuration table**, fill in all the required fields.
4. The **Start at Process** field is where you have to select the **04 After WF approved** check box to allow the workflow to automatically start on document approval or rejection.
5. Click **Save** .

Configure automatic workflow recall

You can configure settings to automatically recall workflows when the results of workflow recall check functions meet the configured workflow recall reasons.

Configure automatic workflow recall check functions

Check function modules define the criteria against which a document will be automatically checked. You can select the following pre-defined check function modules or create your own using the `/COCKPIT/WC_TEMPLATE_CHK_FUN` template.

Function Module	Description
<code>/COCKPIT/WC_CHK_GRNO</code>	Checks if the delivery note number is present
<code>/COCKPIT/WC_CHK_IS_FI</code>	Checks if this is an FI document
<code>/COCKPIT/WC_CHK_PAID</code>	Checks if the document was paid
<code>/COCKPIT/WC_CHK_PO_ASSIGNED</code>	Checks if the PO number is missing
<code>/COCKPIT/WC_CHK_REVERSED</code>	Checks if the document was reversed
<code>/COCKPIT/WC_CHK_VENDOR_NUMBER</code>	Checks if the Vendor Number is present on the PDAP document

To configure a check function module, complete the following steps.

1. To use your own check, create a new function module using the template `/COCKPIT/WC_TEMPLATE_CHK_FUN` and add the check coding.
2. Go to the [/COCKPIT/WI37](#) transaction.
3. In change mode, add a new entry.
4. In the **Workflow recall check functions** table, fill in all the required fields.
5. Click **Save** .

Configure automatic workflow recall reasons

Workflow recall reasons specify the circumstances in which a workflow is automatically recalled. For example, a workflow may be recalled because the invoice has been paid or a missing goods receipt has been entered in the system.

To configure a workflow recall reason, complete the following steps.

1. Go to the [/COCKPIT/WI38](#) transaction.
2. In change mode, add a new entry.
3. In the **Recall reasons: Overview** table, fill in all the required fields.

4. Select the recall reason in the table, then double-click **Recall reasons check functions**.
5. In change mode, add a new entry.
6. In the **Recall reasons check functions** table, fill in all the required fields.
If you add more than one check function, you can specify the order in which the checks are performed.
The workflow will be recalled only when all check functions return a positive result.
7. Click **Save** .

Define automatic workflow recall

To define automatic workflow recall, complete the following steps.

1. Go to the [/COCKPIT/WI39](#) transaction.
2. In change mode, add a new entry.
3. In the **Workflow recall configuration** table, fill in all the required fields.
4. Select the **Active** check box to activate automatic workflow recall for the selected workflow.
5. Click **Save** .

Modify the standard automatic recall check logic

This procedure outlines how to modify the standard recall check logic based on the "Goods Receipt Changes" reason.

As per predefined logic, the automatic workflow recall will not be executed if the PD AP document meets all of the following conditions. At least one of these conditions must not be true for the automatic recall to commence.

- It is currently in a workflow where automatic recall has already been configured.
- The document's PO number matches the Goods Receipt PO number.
- The document's item number matches the Goods Receipt item number.
- The Purchase Order has the GR-based IV or Service-based IV setting enabled.

You can customize the predefined logic to suit your specific requirements. The following example shows how to trigger automatic workflow recall for all Goods Receipt-based items in the Purchase Order.

The other automatic recall check function modules can be customized in a similar way.

1. In SE37, enter the `/COCKPIT/WC_CHK_GRNO` function module and click **Copy** .
A dialog box appears.
2. In the **To Function module** field, enter a name for the new function module. In the **Function group** field, enter your custom function group. Click **Copy**.
3. In the new function module, change the code as follows.

```
...
LOOP AT lt_item ASSIGNING <ls_item> .
* If previously items for same PO were inserted - no need to run function again
READ TABLE lt_po_item WITH KEY ebeln = <ls_item> - po_number TRANSPORTING NO
  FIELDS .
IF sy - subrc NE 0 . CLEAR lt_po_item[] .
```

```

/cockpit/cl_bapi_po => mr -> me_ekpo_read_with_ebeln ( EXPORTING ic_purchaseorder
= <ls_item>-
po_number " Purchasing Document Number
IMPORTING et_ekpo = lt_po_item " Table Type for Purchasing Document Items
EXCEPTIONS OTHERS = 1 ). IF sy - subrc NE 0 .
eb_recall_wf = abap_false .
CONTINUE .
ENDIF .
ENDIF .
LOOP AT lt_po_item TRANSPORTING NO FIELDS WHERE ebeln EQ <ls_item> - po_number
AND
ebelp EQ <ls_item> - po_item AND ( lebre EQ abap_true OR " Srv-based IV
<<< DELETE
webre EQ con_true ).
" GR-based IV
>>>
DELETE
<<< INSERT
webre EQ abap_false ).
" not GR-based IV
>>> INSERT
EXIT .
ENDLOOP .
IF sy - subrc EQ 0 .
eb_recall_wf = abap_false .
RETURN .
ENDIF .
ENDLOOP .
ENDFUNCTION .

```

4. In /COCKPIT/WI37, replace the /COCKPIT/WC_CHK_GRNO with the new function module. If the new module is not listed in the transaction, add it to the **Workflow recall check functions** table.
5. In /COCKPIT/WI38, ensure that the chosen recall reason is **Goods Receipt Changes** and that the new function module is selected in the **Recall reasons check functions**.
6. In /COCKPIT/WI39, activate the automatic workflow recall for the selected workflow. The workflow for all Goods Receipt-based items in the Purchase Order will be automatically recalled.

Workflow recipients

You can assign users as recipients of workflow steps in the following ways.

Manually

Either in Process Director Accounts Payable or Work Cycle, when starting or continuing a workflow.

Automatically and statically

Through recipient assignment to a workflow step. For more information, see [Assign workflow recipients](#).

Automatically and dynamically

- Through recipient determination. For more information, see [Determine recipients](#).
- Through a User Exit. For more information, see [Step User Exit 2 – Determine processor of step](#)

 Invalid users are automatically removed from the step for assigning workflow recipients (not displayed).

Assign workflow recipients

You can restrict which users are available for manual assignment to a workflow step, and also assign default recipients to the step.

Work Cycle automatically adds default recipients to the workflow step's recipients list.

To assign default recipients to a workflow step, complete the following steps.

1. Go to the [/COCKPIT/WUM2](#) transaction.
2. Select the workflow step and double-click the **Workflow processor** dialog structure menu.
3. In change mode, add a new entry.
4. For each recipient, select a **User type** and a **Workflow processor**.
5. Optional. To specify the processor as a default recipient, select the **SetDefault** check box.
6. Click **Save** .
7. Go to the [/COCKPIT/WI3](#) transaction.
8. In change mode, double-click the workflow step.
9. In the **Processor** section, in the **Pre-assign processors** list, select an option to determine which processors can be assigned to the step, and which processors Work Cycle automatically adds to the workflow step's recipients list.
10. Click **Save** .

Determine recipients

Kofax Process Director can automatically determine workflow recipients from the purchase order, purchase requisition, purchasing group, or SAP HR.

To configure automatic recipient determination for a workflow step, complete the following steps.

1. Go to the [/COCKPIT/WUM2](#) transaction.
2. Select the workflow step.
3. Double-click the **Recipient Determination functions** dialog structure menu.
4. In change mode, add a new entry.
5. Select one or more **Function Modules** that will determine the recipients.
6. For each function module, enter a **Sequence** number to specify the order in which the function modules determine recipients.
7. Work Cycle only calls each subsequent function if the previous function does not return one or more recipients.
8. Click **Save** .

Line item approval

Line item approval can be used for documents where different persons are responsible for different items on an invoice. Different recipients can then approve individual line items and accounting lines for MM and FI invoices in the same workflow step.

Workflow recipients see only items that are assigned to them, as well as any unassigned items. After the different recipients approve or reject all items, the workflow step finishes.

 You must activate line item approval for the workflow step. However, you should only activate line-item approval for one step per workflow.

Activate line item approval

To activate line item approval for a workflow step, complete the following steps.

1. Go to the [/COCKPIT/WI3](#) transaction.
2. In change mode, double-click the workflow step.
3. In the **Optional settings** section, select the **All recipients must process** and **Line item/account approval** check boxes.
4. Click **Save** .

Assign users to items

There are three ways users can be assigned to an item.

Manual assignment post-workflow start

As no items are pre-assigned to anyone, the workflow recipients can initially view all the items in the document, and then approve one or more items. Whenever a user selects the **Approve** check box for an item and clicks the **Approve** button, that item is cleared, and the other workflow recipients can then no longer view or approve it.

Automatic assignment

The recipients are determined via [Step User Exit 2 – Determine processor of step](#).

 This method is recommended as the best practice.

Manual assignment pre-workflow start

Before starting a workflow, Kofax Process Director users can manually assign recipients to each line item in the invoice document. When a user starts the workflow, Work Cycle automatically adds the users assigned to individual invoice items to the workflow step's recipients list.

 Manual assignments override the automatic assignments done via the User Exit.

Workflow step conditions

Workflow step conditions are rules that determine whether a workflow step starts.

For example, in a typical two-step FI approval workflow, you may only want to start the second approval step if the value of an invoice is above a certain amount. You create conditions based on the values of certain fields. You can create more than one condition for a step.

Apply workflow step conditions

To apply conditions for a workflow step, complete the following steps.

1. Go to the [/COCKPIT/WI4](#) transaction.
2. Select a workflow step and double-click the **Define step condition within workflow process** dialog structure menu.
3. In change mode, add a new entry.
4. In the **Sequence** field, enter 1.
This is the condition that executes first. Subsequent conditions have the sequence numbers 2, 3, 4, and so on.
5. Select the **Structure** and the **Internal field** that the condition is based on.
6. In the **Inclusion/Exclusion** list, select whether to include or exclude the values in the **From value** and **To value** fields from the step condition.
7. Select the **Comparative options**.
Example: To create a condition based on an amount exceeding the value in the **From value** field, select **GE – Greater than or equal to from-value**.
8. Type a **From value** and a **To value** in SAP internal format.
Example: For cost center 1000, type 0000001000, for vendor 2500, type 0000002500, and so on.
The **From value** and **To value** must have the same length as the field, otherwise the step condition will not activate. Add leading zeros to make these values the same length as the field.
Example: The cost center field KOSTL has a length of 10, so for cost center 2500, type 0000002500.
You only need a **To value** if you use **BT – Between from-value and to-value**.
9. If there are multiple step conditions and you want to perform two or more conditions together before performing another, select the **Opening bracket** or **Closing bracket** check box.
10. If you create more than one condition, in the **Boolean operator** list, select **AND** or **OR**, as appropriate.
11. Click **Save** .

Example

To create a step condition for a gross amount exceeding 1000 EUR or 1400 USD, in [/COCKPIT/WI4](#), add the following four conditions.

Setting	Value
Item/Sequence	1

Setting	Value
Structure	HEADER (header data)
Internal field	GROSS_AMOUNT
Inclusion/exclusion	Including
Comparative options	GT – Greater than from-value
From value	1000
Opening bracket/Closing bracket	Opening bracket
Boolean operator	AND

Setting	Value
Item/Sequence	2
Structure	HEADER (header data)
Internal field	CURRENCY
Inclusion/exclusion	Including
Comparative options	EQ – Same as from-value
From value	EUR
Opening bracket/Closing bracket	Closing bracket
Boolean operator	OR

Setting	Value
Item/Sequence	3
Structure	HEADER (header data)
Internal field	GROSS_AMOUNT
Inclusion/exclusion	Including
Comparative options	GT – Greater than from-value
From value	1400
Opening bracket/Closing bracket	Opening bracket
Boolean operator	AND

Setting	Value
Item/Sequence	4
Structure	HEADER (header data)
Internal field	CURRENCY
Inclusion/exclusion	Including
Comparative options	EQ – Same as from-value
From value	USD

Setting	Value
Opening bracket/Closing bracket	Closing bracket
Boolean operator	[Blank]

Field statuses

Field statuses control field display and access in a document. A field status specifies the field attributes, such as editable, read-only, hidden, or mandatory, for individual fields or all fields of a specific type, such as all header data or all invoice line items fields.

You can apply field statuses to Work Cycle workflow steps to control which fields users can display and change, and for which fields they must enter a value before completing the workflow step.

Create a field status

You can apply a field status to individual fields or to all fields of a specific type, such as all header data. Attributes of individual fields override the attributes of all fields of a specific type.

For example, you can set all header fields to read-only, but allow editing of individual header fields.

Mandatory fields prevent users from saving the document if the field is empty. This is not the same as the mandatory field setting in `/COCKPIT/C3`, which prevents users from posting the document if the field is empty.

To create a field status, complete the following steps.

1. Go to the `/COCKPIT/C23` transaction
2. In change mode, add a new entry.
3. In the **Field status** field, type a name for the field status.
4. To make all fields of a specific type read-only, such as all header data fields, in the **Field status identification** section, select the appropriate check box.
If you select the **No acc. assignment line with MM invoices** check box, the entire **Acct.asgmt.data** section does not appear in MM documents.
5. Double-click the **Characteristic value of status** dialog structure menu.
6. To specify attributes for individual fields, complete the following substeps.
7. In change mode, add a new entry.
Select the **Structure** and the **Internal field name**.
In the **Display** list, select the field attribute.
8. Click **Save** .

Apply a field status to a workflow step

When you apply a field status to a workflow step, it only affects the document in Work Cycle, not in Process Director Accounts Payable.

You activate field statuses for Process Director Accounts Payable in `/COCKPIT/C24`.

To apply a field status to a workflow step, complete the following steps.

1. Go to the [/COCKPIT/WI3](#) transaction.
2. In change mode, double-click the workflow step.
3. In the **Field status** field, select the field status.
4. Click **Save** .

Configure one-time vendor fields in the Web Application

Workflow processors can save information about one-time vendors, for which no master data record exists.

In the SAP GUI, Work Cycle users can add this information on the Vendor tab.

You must configure which one-time vendor fields to display to Work Cycle users in the Web Application. The **Name** (NAME1) and **City** (ORT01) fields are displayed by default.

1. Go to the [/COCKPIT/WI29](#) transaction.
2. In change mode, add a new entry.
3. Optional. To display the field only for a specific one-time account, in the **Vendor** field, select a one-time account number.
4. Select the Work Cycle **Field name**.
5. In the **Display** field, select a display option for the field.
6. In the **Priority** field, type a number to determine the order in which the fields display. The lowest values display at the top.
7. Click **Save** .

Post after workflow approval

You can activate automatic posting for workflows. After users approve the last workflow step, the system attempts to post the document.

1. Go to the [/COCKPIT/WI2](#) transaction.
2. In change mode, double-click the workflow.
3. In the **Posting settings** section, select the **Posting attempt after WF** check box.
4. Optional. In the **Follow-up flag ID for failed auto posting** field, select a follow-up flag. The system sets this follow-up flag if the posting attempt fails.

You can define follow-up flags in [/COCKPIT/C50](#). See the *Process Director Accounts Payable Configuration Guide* for more information.

5. Click **Save** .

Delete a workflow

Before deleting workflows or workflow steps, ensure that no documents are currently active in them. You must either wait for the workflow for these documents to finish, or recall the documents from the workflow.

1. To find out which documents are currently active for a specific workflow or workflow step, complete the following substeps.
 - a. Go to the `/COCKPIT/1` transaction.
 - b. In the **Workflow ID** or **Workflow step ID** field, select the workflow or workflow step and click the **Execute**  button.
2. To delete the workflow, complete the following substeps.
 - a. Go to the `/COCKPIT/WI2` transaction.
 - b. In change mode, select the workflow and click the **Delete**  button.

Email notifications

Work Cycle sends email notifications to users at various times, such as when they start or recall a workflow, or when a workflow is overdue. You can specify a notification text and subject for each of these actions.

Work Cycle provides [built-in templates](#) for email notifications. You can use these templates as they are, or you can copy and modify them to create your own email notification templates. You can use step-specific templates for workflow start, queries and forwarding.

You can send emails in either plain text or in the HTML format. For more information, see [Activate an email template](#) and [Create an email template](#).

You can also include [text variables](#) (also known as aliases or placeholders) in email templates. When it sends the email, Work Cycle replaces these variables with the relevant text. For example, Work Cycle replaces the `&WEB_CYCLE_USER_NAME&` text variable with the recipient's name.

Built-in email templates

Work Cycle provides the following email templates that you can use as they are or copy to create your own templates.

Action	Built-in template
Starting a workflow	• <code>/COCKPIT/WEB_CYCLE_START</code> for plain text emails • <code>/COCKPIT/WEB_CYCLE_TEMPL_HTM</code> for HTML emails • <code>/COCKPIT/WEB_CYCLE_FR_START</code> for the Process Director AP Work Cycle for SAP Fiori application emails
Recalling a document	<code>/COCKPIT/WEB_CYCLE_STOP</code>
Reminders for overdue workflows	<code>/COCKPIT/WEB_CYCLE_REMINDER</code>
Substitute taking over processing	<code>/COCKPIT/WEB_CYCLE_TAKEOVER</code>
Collective email	<code>/COCKPIT/WEB_CYCLE_COLLECT</code>
Starting a workflow – email to active substitutes	<code>/COCKPIT/WEB_CYCLE_SUBST</code>
Starting a workflow in Process Director AP Work Cycle for SAP Fiori application – email to active substitutes	<code>/COCKPIT/WEB_CYCLE_FR_SUBST</code>
Answering a query	<code>/COCKPIT/WEB_CYCLE_ANSWER</code>
Sending a query	<code>/COCKPIT/WEB_CYCLE_QUERY</code>
Forwarding a workflow	<code>/COCKPIT/WEB_CYCLE_FORWARD</code>

Email text variables

You can use the following text variables in workflow emails. Work Cycle replaces these variables with the relevant text when it sends the email.

For example, use `&WEB_CYCLE_USER_NAME&` to insert the recipient's name.

Variable	Description
<code>&SENDER_EMAIL&</code>	The email address of the person who starts the workflow.
<code>&SENDER_PHONE&</code>	The phone number of the person who starts the workflow.
<code>&SENDER_FAX&</code>	The fax number of the person who starts the workflow.
<code>&SENDER_NAME&</code>	The full name of the person who starts the workflow.
<code>&SENDER_DEPARTMENT&</code>	The department of the person who starts the workflow.
<code>&SENDER_FUNCTION&</code>	The function of the person who starts the workflow.
<code>&SENDER_COMPANY&</code>	The company of the person who starts the workflow.
<code>&WEB_CYCLE_DESCRIPTION&</code>	The description of the workflow, as specified in / COCKPIT/WI2.
<code>&WEB_CYCLE_STEP_DESCRIPTION&</code>	The description of the workflow step, as specified in / COCKPIT/WI3.
<code>&HEADER-x</code>	The name of the Process Director Accounts Payable header field, where x is the field ID in the /COCKPIT/ THDR table.
<code>&VENDOR-x</code>	The name of the vendor, where x is a field ID in the BAPI1008_4 table.
<code>&SY-x</code>	The name of a system variable, where x is a field ID in the SYST structure.
<code>&WEB_CYCLE_SINGLE_DOCUMENT_LINK&</code>	The URL of the Web Application or Process Director AP Work Cycle for SAP Fiori application to a single document.
<code>&WEB_CYCLE_SINGLE_SIGN_ON_LINK&</code>	The URL of the Web Application logon page.

Variable	Description
&WEB_CYCLE_DOCUMENT_LIST_LINK& &WEB_CYCLE_DIRECT_DOCUMENT_LINK&	The URL of the Web Application to the list of documents to approve. Unlike the Work Cycle Web Application (the previous version of the Process Director Web Application), the document list does not appear directly. Instead, the Web Application login screen appears, and the user must provide a password. If configured, the selection screen appears, then the document list. If the pdweb-app properties "pd_select_last_node = yes" parameter is configured, the document list of the last used Worklist node appears.  Two variables exist to provide backward compatibility with previous versions.
&WEB_CYCLE_FIORI_DOCUMENT_LIST_LINK&	The URL of the Process Director AP Work Cycle for SAP Fiori application to the list of documents to approve.
&WEB_CYCLE_SUBST_DOC_LIST_LINK&	The URL to the list of documents for a substitute.
&WEB_CYCLE_FIORI_SUBST_DOC_LIST_LINK&	The URL of the Process Director AP Work Cycle for SAP Fiori application to the list of documents for a substitute.
&WEB_CYCLE_USER&	The ID of the workflow processor.
&WEB_CYCLE_USER_NAME&	The full name of the workflow processor.
&WEB_CYCLE_SUBST_NAME&	The full name of a substitute.
&DUE_DAYS&	The number of days remaining until the processor must approve the document.
&MOBILE_APPROVE&	For Email-based Approval (formerly MOBILE APPROVAL), the <code>mailto</code> URL to approve the document.
&MOBILE_REJECT&	For Email-based Approval, the <code>mailto</code> URL to reject the document.
&MOBILE_NOTE&	For Email-based Approval, the <code>mailto</code> URL to add a note the document.

Variables for HTML emails

You can only use the following variables in HTML emails, not in plain text emails.

If no document data exists in the line item, account and multi-account assignment tables, the email does not include these tables.

Variable	Description
&HEADER_DATA&	Displays the document header data in a table.
&ITEM_DATA&	Displays the document line item data in a table.

Variable	Description
&ACCOUNT_DATA&	Displays the document account assignment data in a table.
&MULTI_ACC_ASS_DATA&	Displays the (MM) document account assignment data in a table.  If Add multi acc. ass. to items is active in <code>/COCKPIT/WI30</code>, the account-assignment data appears in the line item table.
&WORKFLOW_HISTORY&	Displays the workflow log, including any notes that users create in Work Cycle.  The workflow history table does not appear in the email for the first step of a workflow.
&MOBILE_BUTTONS&	Displays the Approve , Reject and Note buttons for Email-based Approval. Email-based Approval must be active for the workflow step in <code>/COCKPIT/MAI2</code> .

Create an email template

Before creating email templates, you must specify which format to use in `/COCKPIT/WI30` (plain text or HTML). You cannot use both formats. Also, you can display header, line-item, and account assignment data in HTML emails, but not in plain text emails.

Create a plain text email template

Work Cycle provides the `COCKPIT/WEB_CYCLE_START` template for plain text emails, which you can use as is, or copy and modify. We recommend copying the built-in templates, and then modifying the copy.

1. In the `SE61` transaction, copy one of the built-in templates to create a new documentation object with the **General text** document class.
2. Edit the text and click the **Save**  button.
3. Go to the `/COCKPIT/WI30` transaction.
4. In change mode, in the **Format** list, select **P Plain Text**.
5. Click **Save** .

Create an HTML email template

Work Cycle provides the following templates for HTML emails, which you can use as is, or copy and modify. We recommend copying the built-in templates, and then modifying the copy.

- `/COCKPIT/HTML_START` for the HTML start code

You also define the CSS styles in the `/COCKPIT/HTML_START` template.

- `/COCKPIT/WEB_CYCLE_TEMPL_HTM` for the email text
- `/COCKPIT/HTML_END` for the HTML end code
- `/COCKPIT/HTML_MOBILE_BUTTONS` for Email-based Approval (formerly MOBILE APPROVAL)

i Use plain text when creating the template. The text is formatted as HTML when Work Cycle sends the email.

To create an email template in HTML format, complete the following steps.

1. In the `SE61` transaction, copy one of the built-in templates to create a new documentation object with the **General text** document class.
2. Edit the text and click the **Save**  button.
3. Go to the `/COCKPIT/WI30` transaction.
4. In change mode, in the **Format** list, select **H HTML**.
5. In the **HTML templates** section, type the names of the documentation objects to use for the HTML start code, HTML end code, and Email-based Approval links.

i The actual email will be created from the content of the three templates: `HTML_START`, `/COCKPIT/WEB_CYCLE_TEMPL_HTM`, and `HTML_END`.

6. Optional. Click **Link names** to specify names for document links to the Web Application. These names appear in the email instead of the URL.
7. Optional. To display header, line-item, and account assignment data in tables, in the **Number of fields per row** field, type the number of fields to include in each table row.
The table rows display the label and value for each field.
8. Optional. To include multi-account assignment fields for MM documents in the line item table, instead of in a separate table, select the **Add Multi acc. ass. to items** check box.
9. Optional. If Email-based Approval is active for a workflow step, tables display only one field per table row. To display more fields per row, select the **Ignore MOBILE APPROVAL** check box and type a number in the **Number of fields per row** field.
10. Optional. Click **Field selection** to specify the fields to display in the tables.
11. Optional. To include a background image, in the **Background** field, type the image's SAP Web Repository ID, not the original file name.
For more information on how to upload an image to the SAP Web Repository, see [Add an image to the SAP Web Repository](#).
12. Click **Save** .

Add an image to the SAP Web Repository

To use a background image in an HTML email, you must add it to the SAP Web Repository.

There is no requirement for the image file name. It does not have to be `backgrnd.gif`, as it appears in the default HTML start template. Work Cycle links your image with this file name automatically.

To add an image to the SAP Web Repository, complete the following steps.

1. Go to the `SMW0` transaction.
2. Select **Binary data for WebRFC applications** and click the **Find**  button.
3. Click the **Execute**  button.
4. Click the **Create**  button.
5. Type an **Object name** and **Description**.
6. Click the **Import**  button.
7. Select the image file and click **Open**.
8. Select a **Package** and click the **Save**  button.

Activate an email template

When you activate an email template, Process Director Accounts Payable uses that template when sending workflow emails.

To activate an email template, complete one of the following actions.

- For general workflow templates, in transaction [/COCKPIT/WI9](#), type the name of your documentation object in the appropriate field.
You can also change the default email subject.
- For the workflow start template, in transaction [/COCKPIT/WI3](#), type the name of your documentation object in the **Text for the confirmation email** field.
- For queries and forwarding templates, in transaction [/COCKPIT/WI3](#), in the **Email texts and subjects** section, type the name of your documentation object in the appropriate field.

Email notifications with SAP Fiori document link

Email notifications with a link to a single document or a list of documents in Process Director AP Work Cycle for SAP Fiori can be sent upon the start and the approval of the workflow to the user and the user's active substitute. To complete the configuration, follow these general steps.

1. Provide the URL for Process Director AP Work Cycle for SAP Fiori:
 - In the [/COCKPIT/WI1](#) transaction.
 - In the Work Cycle [User Exit 939](#), if Process Director AP Work Cycle for SAP Fiori and Web Application are used together.
2. Go to the [/COCKPIT/WI3](#) transaction. In the **Text for the confirmation email** field use the [/COCKPIT/WEB_CYCLE_FR_START](#) template.
Make sure that **Send emails** is set to **A - Individual email with image attachment**.
3. To send the notification to the active substitute, go to the [/COCKPIT/WI9](#) transaction. In the **Text for email to active substitute at workflow start** field use the [/COCKPIT/WEB_CYCLE_FR_SUBST](#) template.
4. Use [text variables](#) in the templates to include a link to a single document, a list of documents or a list of documents for the substitute.

Users

Provided they have the appropriate authorization, SAP users can log on to Work Cycle in both SAP and the Web Application using their SAP user name and password.

For non-SAP users, you can create Work Cycle users who can log on to the Web Application only. For more information on authorizations, see [Activate authorization checks in Work Cycle](#).

Create a user

To create a Work Cycle user, complete the following steps.

1. Go to the [/COCKPIT/WUM](#) transaction.
2. In the **Workflow processor** field, perform one of the following actions.
 - Type a user name
 - Leave the field blank to have the system generate a user name automatically. You can specify the method for automatic user name generation in [/COCKPIT/WI6](#).
3. Click the **Create user**  button.
4. In the **User data** dialog box, type the details for the user.
5. Optional. If the setup of user passwords should follow a security policy, under **Password Policy**, enter the name of the security policy that you want to apply, or search for all available policies by clicking the **Search**  button.
6. Click the **Continue**  button.

Work Cycle displays an initial password for the user. You can specify a default initial password for new users in [/COCKPIT/WI6](#). If you do not specify a default password, Work Cycle generates a random password according to the rules defined by the [security policy](#).
7. Click **Save** .
8. Optional. To send an email to newly-created users, in [/COCKPIT/WI6](#) select the **Create or delete** check box and specify a text for the email.

Import users from a file

To import users from a file, such as a CSV file, you must write a function module to perform the import.

The function module must map and save the data to the [/COCKPIT/TWC_UMP](#) table, which contains the Work Cycle users.

You can copy the [/COCKPIT/WC_MAP_IMP_EXAMPLE](#) function module and modify it to your requirements. This example function module works with CSV files.

1. Write a function module to perform the import.

2. Go to the [/COCKPIT/WI6](#) transaction.
3. In the **Mapping module** field, type the name of your function module.
4. Click **Save** .
5. Go to the [/COCKPIT/WUM](#) transaction.
6. Click the **Import user**  button.
7. In the **Import user** dialog box, select the file to import and click the **Continue**  button.

Import users from an LDAP directory

The SAP `LDAP` transaction code is the control mechanism for the communication outside SAP ERP.

Before importing users from an LDAP directory, you need to map the LDAP attributes to Work Cycle user fields. The [/COCKPIT/WC_USER_UPDATE](#) program then uses this mapping to import the user data from the LDAP directory to Work Cycle .

To map the LDAP attributes to Work Cycle user fields and then import the LDAP user data, complete the following steps.

1. Go to the [/COCKPIT/WI27](#) transaction.
2. In change mode, add a new entry.
3. In the **Attribute name** field, type the name of the LDAP directory attribute.
4. In the **Internal field name** field, select the Work Cycle field.
5. Optional. To modify the imported values, write your own function module and select it in the **Function Module** field.
6. Click **Save** .
7. Go to the `SE38` transaction and run the [/COCKPIT/WC_USER_UPDATE](#) program.

 Instead of using the [/COCKPIT/WI27](#) transaction, you can also use [LDAP User Exit 1](#) to assign the LDAP attributes to the Work Cycle user fields.

Create a user group

You can create user groups consisting of Work Cycle users and SAP users. User groups can also contain other user groups.

In the SAP GUI, Work Cycle resolves user groups to the individual users when a user assigns the group to a workflow step. The Web Application resolves the group to the individual users when a user performs a workflow action, such as starting the workflow.

Work Cycle removes group members with a user type that is not assigned to the workflow step.

1. Go to the [/COCKPIT/WUM1](#) transaction.
2. In change mode, add a new entry.
3. Type a **Work group** ID and description.
4. Select the group and double-click the **Assigned processors** dialog structure menu.

5. In change mode, add a new entry.
6. Select a **User type** and a **Workflow processor**. Add an entry for each processor or user group to include in the group.
7. Click **Save** .

View user change logs

To view a list of the changes made in the user management, complete the following step.

- In transaction [/COCKPIT/WUM](#), on the **Extras** menu, select **Change Logs**.

Substitutes

Substitutes can process workflows for the users to whom they are assigned as a substitute.

Assign substitutes

You can assign substitutes for Work Cycle and SAP users.

1. Go to the `/COCKPIT/WC_SUBS_MGR` transaction.
2. Select the **User type** and **User ID**.
3. Click the **Execute**  button.
4. Click the **Insert Row**  button.
5. Select the **Workflow processor** and validity dates.
6. To activate the substitute, select the **Active** check box.
7. Only for SAP users. Select a **Substitute profile**.
8. Click **Save** .

Define a substitute profile

When SAP users create a substitute, they can assign a substitute profile. Profile selection is only applicable to SAP Users, Work Cycle users are independent of the profile.

In `/COCKPIT/WI33`, you can specify which substitute profile allows substitutes to process documents in workflow. Only substitutes with that profile can process documents. If no substitutes have the profile, any substitute without a profile can process the documents. You can only assign one profile.

Web Application users cannot assign substitute profiles, so Work Cycle automatically assigns the specified profile to substitutes that users create in the Web Application.

To define a substitute profile, complete the following steps.

1. Go to the `/COCKPIT/WI33` transaction.
2. In change mode, add a new entry.
3. Select a **Substitute profile**.
4. Click **Save** .

Security policies

With security policies, you can define sets of rules for creating and changing passwords of Work Cycle users.

These rules are used to validate the passwords that are automatically created by the system, as well as those entered by users during a password change.

You can also define login restrictions, such as the maximum number of failed login attempts and the validity period of initial passwords.

Set up and apply security policies

To set up and apply security policies, complete the following steps.

1. [Set up the required security policies.](#)
2. [Activate a security policy for Work Cycle users.](#)
3. [Assign the security policy to a new Work Cycle user.](#)

Set up security policies

To set up security policies, you first have to create the security policy that you want to use. Then, define the policy attributes or the logic according to which the user passwords should be created.

Create a security policy

To create a security policy, complete the following steps.

1. Call the `SECPOL` SAP transaction.
2. In change mode, click **New entries**.
3. In the **Security Policy** table, enter a name and short description for the new policy.
The policy name can be up to 40 characters long.
4. Click **Save** .

Assign policy attributes

To assign policy attributes to the security policy, complete the following steps.

1. Select the policy you just created.
2. Double-click the **Attributes** dialog structure menu and click **New entries**.
3. In the **Attributes** table, set up the password security rules, as required.

Example: If a password should have a minimum length of eight characters, contain two upper case letters, one special character, and should expire after 60 days, it should have the following settings:

```
MIN_PASSWORD_DIGITS = 8  
MIN_PASSWORD_UPPERCASE = 2  
MIN_PASSWORD_SPECIAL = 1  
PASSWORD_CHANGE_INTERVAL = 60
```

4. Click **Save** .
5. [Activate the security policy for Work Cycle users.](#)

 It is not possible to check the expiration of the passwords of internet users.

Integrate with SAP Business Workflow

You can integrate Work Cycle workflows in SAP Business Workflow.

If a user sends a Work Cycle workflow step to an SAP user, it also appears as a new work item in the Workflow category of the recipient's SAP Business Workplace Inbox in transaction `SBWP`. Users can also access the Work Cycle step from the Universal Worklist (UWL).

To integrate with SAP Business Workflow, in the `SWDD` transaction, complete the following procedures.

1. [Create a new workflow definition.](#)
2. [Create a container element.](#)
3. [Set up the workflow start event.](#)
4. [Add a container operation to delete superfluous attachments.](#)
5. [Add an activity for the Work Cycle workflow step.](#)
6. [Activate the workflow definition.](#)
7. Optional. [Configure access from the Universal Worklist.](#)

Create a new workflow definition

The first step in integrating Work CycleE in SAP Business Workflow is to create a new workflow definition.

1. In the `SWDD` transaction, in the **Workflow** menu, click **New**, then save.
2. In the **Give your new workflow template a name here** dialog box, type an abbreviation and a name and click the **Continue**  button.
3. In the **Create Object Directory Entry** dialog box, select a **Package**, then save.
4. [Create a container element.](#)

Create a container element

A container element maps a Work Cycle workflow step to an SAP Business Workflow step.

Prerequisite: You have created a workflow definition. For more information, see [Create a new workflow definition](#).

1. In the `SWDD` transaction, below the **Navigation Area**, select **Workflow Container** tab and double-click **<Double-Click to Create>**.
2. In the **Create Container Element** dialog box, type an element, a name, a description and the object type `/COCKPIT/W`.
3. On the **Properties** tab, select the **Parameter settings > Import** check box.
4. Click the **Continue**  button.

5. [Set up the workflow start event.](#)

Set up the workflow start event

The workflow start event starts an SAP Business Workflow when a Work Cycle workflow step starts

Prerequisite: You have created a container element. For more information, see [Create a container element](#).

1. In the `SWDD` transaction, click the **Basic data**  button.
2. On the **Version-Independent (Task) > Start Events** tab, add the following entries, then press **Enter**.
 - **Object Category:** BO BOR Object Type
 - **Object Type:** /COCKPIT/W
 - **Event of the object:** STARTED

3. To activate the event linkage, click the **Activate**  button.

The system prompts you to enter a customizing request.

 In some customer implementations, you may have to activate the event linkage manually in every client and system.

4. To configure the event binding, click the **Binding**  button.
5. In the **Change Binding for Workflow** dialog box, drag and drop the **_EVT_OBJECT** event container field onto the **SingleDocumentLink** entry of your new workflow container.
 If an event is raised, the instance of the object that raised the event is available in the **_EVT_OBJECT** event container field. You must copy this field into the corresponding field in the workflow container.
 This is the field **SingleDocumentLink**, which was created in the workflow step. It is the only available field for event binding, because it is the only field marked as an input field.
6. Click the **Continue**  button.
7. To specify how the work item recipients will be determined, complete the following substeps.
 - a. Click the **Agent Assignment for task**  button.
 - b. In the **Maintain Agent Assignment** dialog box, click the **Attributes** button.
 - c. Select the **General task** option and click the **Transfer** button.
 This setting allows all SAP users as possible work item recipients.
 - d. Click the **Update Index**  button to activate the assignment.
8. [Add a container operation](#) (to delete superfluous attachments).

Add a container operation

Any actual step processing occurs in Work Cycle, so only the work item itself should appear in SAP Business Workflow. You must therefore add a container operation to remove superfluous attachments.

Because you do not need to transport any attachments from Work Cycle into *SBWP*, you can simply delete them from the workflow. When the user selects the work item, Work Cycle opens.

Prerequisite: You have set up the workflow start event. For more information, see [Set up the workflow start event](#).

1. To return to the overview, click the **Back**  button.
2. In the workflow visualization, double-click **Undefined- Double-click**.
3. In the **Step Selection** dialog box, double-click the **Container Operation** step type.
4. In the **Control** tab, type the following settings.

Field	Setting
Step name	Delete useless attachments
Outcome name	Attachments deleted
Step not in workflow log	Select the check box.
Result element	_Attach_Objects

5. Click the **Continue**  button.
6. [Add an activity for the Work Cycle workflow step](#).

Add an activity for the Work Cycle workflow step

Adding an activity creates a step in the SAP workflow for the Work Cycle step.

Prerequisite: You have added a container operation. For more information, see [Add a container operation](#).

1. Right-click **Workflow completed**, then select the context menu item **Create**.
2. In the **Step Selection** dialog box, double-click the **Activity** step type.
3. In the **Control** tab, in the **Task** dropdown menu, select **Create task**.
4. In the **Task: Create** dialog box, in the **Basic Data** tab, type the following settings.

Field	Setting
Abbr	PDWCProcess
Name	Work Cycle process
Object Category	BO BOR Object Type
Object Type	/COCKPIT/W

Field	Setting
Method	DISPLAY

- Optional. In the **Description** tab, add documentation for the task.
- In the **Terminating events** tab, define a terminating event with the following settings.

Field	Setting
Element	_WI_OBJECT_ID
Object Category	BO BOR Object Type
Object Type	/COCKPIT/W
Event	FINISHED

This ensures that the work item disappears from the SAP Business Workplace if a user cancels, recalls or finishes it from within Process Director Accounts Payable or Work Cycle.

- Save your settings.
- In the **Create Object Directory Entry** dialog box, type an appropriate Z package.

 Check that everything is correct before returning to the activity definition. You will no longer be able to edit the task after returning to the activity definition.

- To return to the activity definition dialog box, click the **Back**  button.

The system displays a proposal for a binding.

- Click **Continue**  to confirm.
- In the **Control** tab, in the **Agents** section, use the search help to select an expression for the **Agents** assignment.
- In the **Expression for step agent** dialog box, select the expression **Container > SingleDocumentLink > User**.
- Click **Continue** .
- In the **Control** tab, in the **Task Properties** section, click **Agent assignment for task** .
- In the **Maintain Agent Assignment** dialog box, click the **Attributes** button.
- In the **Task** dialog box, select the **General Task** option and click **Continue** .
- Click the **Back**  button twice to return to the Workflow Builder.
- [Activate the workflow definition.](#)

Activate the workflow definition

Activating the workflow definition finalizes the configuration and takes it into production.

Prerequisite: You have added an activity for the Work Cycle workflow step. For more information, see [Add an activity for the Work Cycle workflow step](#).

- To activate the workflow definition, click the **Activate**  button.

2. Optional. [Configure access from the Universal Worklist](#)

Configure access from the Universal Worklist

Users can access SAP Business Workflow tasks through the SAP Universal Worklist (UWL).

To access Work Cycle workflows from UWL, in addition to the steps for integrating Work Cycle with SAP Business Workflow, you must also create a binding from the workflow container to the task container so that users can access the Work Cycle URL from UWL. See the SAP documentation for information on configuring UWL.

Prerequisite: You have activated the workflow definition. For more information, see [Activate the workflow definition](#).

1. In the `SWDD` transaction, double-click the **Work Cycle** activity.
2. In the **Task** field, double-click the task number to open the task details.
3. Select the **Container** tab or the **Container** button on the toolbar (depending on your SAP version).
4. In change mode, on the tab toolbar, click the **New**  button.
5. Select **ABAP Dictionary Reference** and type the structure `/COCKPIT/SWC_DUMMY` and the field URL.
6. Save and go back.
7. In the **Activity** screen, click the **Binding (Exists)** button.
8. Expand the **SingleDocumentLink** workflow container on the left-hand side and drag and drop the **DocumentSingleLink** field to the **SingleDocumentLink** task container on the right-hand side.

A new entry appears in the **Binding Workflow -> Step 'Work Cycle process table'**.

9. Click **Continue**  and then the **Save**  button.

Programs and functions

/COCKPIT/ARCHIV_DELETE_META

The `/COCKPIT/ARCHIV_DELETE_META` program returns an error or success message (about the attachment deletion) to the Web Application.

The program is called within the [/COCKPIT/RFC_WC_DEL_ATTACHMENT](#) RFC.

/COCKPIT/ARCHIV_NOTE_LATE

The `/COCKPIT/ARCHIV_NOTE_LATE` program archives internal notes and all notes that users add to the document after completion of the workflow.

Work Cycle automatically archives all notes relevant to the workflow when the workflow finishes.

Workflow recipients can create and view workflow notes in Work Cycle and the Web Application. Kofax Process Director Accounts Payable users can create internal notes in `/COCKPIT/1` which are not visible in Work Cycle or the Web Application.

/COCKPIT/ARCHIV_WCLOG_REPAIR

The `/COCKPIT/ARCHIV_WCLOG_REPAIR` program archives workflows for which archiving has failed, for example, due to the archive being offline as a result of incorrect configuration.

If the `/COCKPIT/ARCHIV_WCLOG_REPAIR` program also fails to archive the workflow, complete the following steps.

1. Run the [/COCKPIT/WC_SET_NOT_ARCHIVED](#) program.
This program resets the ARCHIVED flag so that you can archive the workflow again.
2. Run the `/COCKPIT/ARCHIV_WCLOG_REPAIR` program again.

/COCKPIT/DUE_DATE_CHECK

The /COCKPIT/DUE_DATE_CHECK program sends reminder emails for overdue workflows. Individual emails are sent to both the step processors and their substitutes.

Selection parameters

Document number

The range of Process Director Accounts Payable documents to process.

Workflow due date

The program only runs for workflows whose due date is past this date.

Overdue to specified date

Select this check box if you have specified a workflow due date.

Activate email dispatch

Select this check box to send reminder emails.

Send collective emails

Send collective emails

In the workflow step settings, you can specify that Work Cycle sends a collective email, instead of one email for each workflow step. The DUE_DATE_CHECK program checks for processors who have received a workflow step and sends a collective email to these processors and their substitutes.

This email contains the following details.

- Document number
- Workflow description
- Workflow step description
- Overdue date

Workflow processor

The user you specify here is the sender of collective emails.

User type

The type of user for which the program will send reminder emails.

Application log

Create application log

Select this check box to create messages in the SAP application log.

Show application log on finish

Select this check box to display the SAP application log after the program runs.

Object & Sub-object

Type the object and sub-object to include in the SAP application log messages. The object and subobject classify the log, so it is best to use custom (Z*) ones.

Language for message templates

The search for message templates in different languages is performed in the following order.

1. The receiver language in SU01.
2. The user's logon language.
3. English (fallback language 1).
4. German (fallback language 2).

If a template is not available in any of these languages, it is not displayed. You should create a translation in at least one of the fallback languages for all templates. For more information, see *Kofax Process Director Accounts Payable Configuration Guide*.

/COCKPIT/RFC_WC_DEL_ATTACHMENT

The `/COCKPIT/RFC_WC_DEL_ATTACHMENT` function module receives information about which attachment in the Web Application needs to be deleted.

/COCKPIT/RFC_WC_PO_HISTORY_GET

The `/COCKPIT/RFC_WC_PO_HISTORY_GET` RFC displays the purchase order history (for MM invoices) in the Web Application.

As input parameters, the purchase order number and the purchase order item number are provided. As table parameters, the purchase order history and messages are returned.

/COCKPIT/RFC_WC_UPLOAD_CONF

The `/COCKPIT/RFC_WC_UPLOAD_CONF` RFC returns the list of data providers that have been configured for a workflow step in the `/COCKPIT/IMPORT_C1` transaction.

The workflow ID and the workflow step ID are the import parameters for this Function Module.

For details about the `/COCKPIT/IMPORT_C1` transaction, see the *Process Director Accounts Payable Configuration Guide*.

/COCKPIT/WC_AS_AMOUNT_MISMATCH

The /COCKPIT/WC_AS_AMOUNT_MISMATCH function module determines if a price mismatch exists.

A [price mismatch](#) is one of the conditions for automatically starting a workflow.

/COCKPIT/WC_AS_FI_DOC

The /COCKPIT/WC_AS_FI_DOC function module determines if an FI approval is required.

An [FI approval is required](#) is one of the conditions for automatically starting a workflow.

/COCKPIT/WC_AS_NO_GR

The /COCKPIT/WC_AS_NO_GR function module determines if a goods receipt is missing.

A [missing goods receipt](#) is one of the conditions for automatically starting a workflow.

/COCKPIT/WC_AS_QUAN_MISMATCH

The /COCKPIT/WC_AS_QUAN_MISMATCH function module determines if a quantity mismatch exists.

A [quantity mismatch](#) is one of the conditions for automatically starting a workflow.

/COCKPIT/WC_AUTO_START

The information about the delay date set for an automatic workflow start is stored in the /COCKPIT/TWCAUTO table and picked up by the /COCKPIT/WC_AUTO_START report.

This report has a parameter that defines the number of days after which the record from the table will be deleted. Those days are added to the new start date, which is the date on which the automatic workflow start was to be triggered plus the number of days of delay.

The report also has the **Workflow start date** parameter, which enables you to simulate a future run date. By default, this parameter contains the system date.

/COCKPIT/WC_AUTO_START_SAMPLE

The /COCKPIT/WC_AUTO_START_SAMPLE function module allows you to develop your own custom functions to automatically start a workflow.

You can use the template to set specific criteria and conditions.

/COCKPIT/WC_BASE_DATE_SAMPLE

The [configuration settings for automatically starting a workflow](#) have the option to delay the workflow start. The baseline date for this delay cannot always be retrieved from a fixed field.

Therefore, it is required to dynamically determine the date by using a function module. The /COCKPIT/WC_BASE_DATE_SAMPLE function module allows you to do this determination.

/COCKPIT/WC_BD_INVOICE_DATE

The /COCKPIT/WC_BD_INVOICE_DATE function module allows you to delay the start of a workflow by determining the baseline date from the invoice date.

The function module returns the invoice date (from the Process Director Accounts Payable document) as the baseline date.

/COCKPIT/WC_BD_TRANSFER_DATE

The /COCKPIT/WC_BD_TRANSFER_DATE function module allows you to delay the start of a workflow by determining the baseline date from the transfer date.

The function module returns the transfer date (from the Process Director Accounts Payable document) as the baseline date.

/COCKPIT/WC_CHK_DEL_USRS

The /COCKPIT/WC_CHK_DEL_USRS program checks whether any of the following items has a user assigned that no longer exists.

- User groups
- Workflow steps
- Substitute assignments

/COCKPIT/WC_DEBUG

The /COCKPIT/WC_DEBUG program enables the creation of log entries for Kofax Process Director and Work Cycle RFC calls.

The RFC calls include those from the Web Application and User Exits. You can use it for debugging purposes. You can record log entries for calls made by specific users.

/COCKPIT/WC_DELETE

The `/COCKPIT/WC_DELETE` program deletes workflow data for selected documents.

You can use this program to remove a document from workflow, for example, if users cannot recall the document because the workflow is no longer valid due to changes in the workflow customizing.

/COCKPIT/WC_RFC_LOG

The `/COCKPIT/WC_RFC_LOG` program displays all the RFC log entries stored in the `/COCKPIT/TWC_LOG` table.

That is, it displays all log entries created by the [/COCKPIT/WC_WEB_LOGGING](#) function. RFC log entries are a record of RFC calls made by the Web Application.

Show RFC log

Select this check box to display the RFC log file saved in the `/COCKPIT/TWC_LOG` table.

Put separator after seconds

Enter a number to displays a horizontal line between entries after each specified period.

Delete all RFC log entries

Select this check box to delete all RFC log entries saved in the `/COCKPIT/TWC_LOG` table.

/COCKPIT/WC_SET_NOT_ARCHIVED

The `/COCKPIT/WC_SET_NOT_ARCHIVED` program resets the **ARCHIVED** flag so that you can archive the workflow with [COCKPIT/ARCHIV_WCLOG_REPAIR](#).

You can use this program for workflows that are marked as archived, but actually have the archive missing.

/COCKPIT/WC_SUBST_MANAGER

You can use the `/COCKPIT/WC_SUBST_MANAGER` program to globally manage substitutes for Work Cycle and SAP users.

It calls the `/COCKPIT/WC_USER_TYPE_GET` function module to determine the user type.

/COCKPIT/WC_UMA_PASSWD_INIT

The /COCKPIT/WC_UMA_PASSWD_INIT program resets passwords for Work Cycle users, or forces them to change their passwords when they next log on.

Selection Criteria Line

Workflow processor

The Work Cycle user.

Email in uppercase letters

The email address of the Work Cycle user.

Language key

The language setting for the Work Cycle user.

Full name

The Work Cycle user's full name.

Telephone

The telephone number of the Work Cycle user.

Department

The department of the Work Cycle user.

New password

Test run

Displays a log of users whose passwords will be reset, without actually performing the reset operation. Reset may mean generating a new password, or forcing the user to change their password.

Password is being regenerated

Generates a new password for the Work Cycle user.

User must change password

Forces the Work Cycle user to change their password the next time they log on.

/COCKPIT/WC_USER_TYPE_GET

The /COCKPIT/WC_USER_TYPE_GET function module returns the user type: SAP or Work Cycle user.

/COCKPIT/WC_USER_UPDATE

The /COCKPIT/WC_USER_UPDATE program imports users from an LDAP directory.

LDAP server: symbolic name

The LDAP server name. You can view and manage LDAP servers in the `LDAP` transaction.

Search filter

Allows you to use search criteria to import only selected users.

The default search filter is `(&(objectclass=user)(mail=*))`, which selects all users.

For example, to select only users from a user group called Sales, type

`(&(objectCategory=group)(description=Sales))`.

System user or domain user

System user active

Uses the current SAP system user to log on to the LDAP server. If you clear this setting, you must specify which user name and password to use for the LDAP domain account.

User ID for logon

User name of the LDAP domain account used to log on to the LDAP server.

Password for logon

Password of the LDAP domain account used to log on to the LDAP server.

Actions

Send email

Sends an email notification to existing users whose data the program updates.

Retrieve Work Cycle

Recalls all workflows that are currently being processed by users whose data the program updates.

No duplicate user check

Checks whether a duplicate email address exists (for example, if an LDAP user is already an SAP user, with the same email address).

Exclude from update

Enables you to select users whose data the program will not update, even if updated data exists in LDAP.

Identification of deleted users

Attribute name

The name of the LDAP field. You must map this field to a Work Cycle field in [/COCKPIT/WI27](#).

Attribute value

The value of the LDAP field. If the program finds this value in any of the existing users, it delete those users.

 The `/COCKPIT/WC_USER_UPDATE` program searches for the value in the Work Cycle field to which the LDAP Attribute name is mapped in [/COCKPIT/WI27](#).

Delete all others

Deletes existing users whose data the program does not update.

Exclude from delete

Enables you to select users that the program does not delete. This option is only valid if you select the Delete all others check box.

Commit database changes

Saves the imported data to the database. If you clear this check box, the program performs a test run only and does not import or change data.

Application log

Create application log

Creates an application log of the import.

Show application log on finish

Select this check box to display the SAP application log after the program runs.

Object & Subobject

Type the object and sub-object to include in the SAP application log messages. The object and subobject classify the log, so it is best to use custom (Z*) ones.

/COCKPIT/WC_WEB_LOGGING

The `/COCKPIT/WC_WEB_LOGGING` function module records all RFC calls that the Web Application makes.

You should activate it in the [/COCKPIT/WC_DEBUG](#) program. You can view the resulting log messages by running the [/COCKPIT/WC_RFC_LOG](#) program.

/COCKPIT/XPRA_V720_SP0

If you have upgraded from a version of Process Director Accounts Payable prior to 7.2 and created Web Application users in /COCKPIT/WUM in that version, you must run the /COCKPIT/XPRA_V720_SP0 program to ensure that users can search for Web Application users by email address.

IMG reference

Set the Web Application URL

/COCKPIT/WI1

In this transaction, you activate Work Cycle and specify a URL for the Web Application or Process Director AP Work Cycle for SAP Fiori application.

Active

Activates or deactivates Work Cycle.

SAP system ID

The ID of the SAP system on which Work Cycle is active.

URL of Work Cycle Web Application

The URL used in email templates for workflow starts, reminders, and so on.

 This URL does not affect the setup or configuration of the Web Application or Process Director AP Work Cycle for SAP Fiori application.

Define workflow

/COCKPIT/WI2

In this transaction, you configure the following settings for a workflow. For the corresponding task, see [Create a workflow](#).

Workflow ID

The name of the workflow.

Workflow settings

Workflow description

The description of the workflow appears in Process Director Accounts Payable and Work Cycle.

Maximum processing time, in days

The period within which processors must complete the workflow. After this period expires, Work Cycle sends daily reminder emails to the processors.

Selection list order

A number that determines the position of the workflow in the Process Director Accounts Payable workflow selection list. 0 (zero) places the workflow at the top of the list.

The values for this field do not have to be in sequential order. For example, you can define Workflow1 = 5, Workflow2 = 0, and Workflow3 = 20. The workflows will appear in the selection list in the following order: Workflow2, Workflow1, Workflow3.

Workflow type

The type of documents that users can send to the workflow.

 All documents means that users can send all documents except rejected documents to the workflow.

Save notes in archive

Saves Work Cycle notes in the archive.

Calculate length of validity**Omit Friday/Saturday/Sunday**

Determines whether the calculation of the Maximum processing time excludes Fridays, Saturdays and Sundays.

Factory or Holiday calendar ID

Determines whether the calculation of the Maximum processing time excludes non-working days defined in a specific factory or holiday calendar.

If you select both a factory calendar and a holiday calendar, the calculation uses the only factory calendar. If you want to use both a factory calendar and a holiday calendar, in `OY05`, assign a holiday calendar to a factory calendar, and then in `/COCKPIT/WI2`, select the factory calendar.

Use Gregorian calendar for calculation

Determines the due date calculation method.

If the check box is selected, the calculation method based on the Gregorian calendar is used. If it is not selected, the German method (a month is assumed to consist of 30 days) is used. By default, the check box is not selected.

Document creation settings (optional)**PD document type for document creation**

The Kofax Process Director document type assigned when users create documents in Work Cycle.

Mandatory note**Before workflow start**

Determines whether users must create a Work Cycle note before they start the workflow.

Posting settings

Posting attempt after WF

Activates automatic posting after workflow approval.

Follow-up flag ID for failed auto posting

Sets a follow-up flag for a failed automatic posting attempt. You can define follow-up flags in /COCKPIT/C50. See the *Process Director Accounts Payable Configuration Guide* for more information.

Define workflow steps

/COCKPIT/WI3

In this transaction, you configure the following settings for a workflow step. For the corresponding task, see [Create a workflow step](#).

Workflow step

The name of the workflow step.

Mandatory settings

Step description

The description of the workflow step appears in Process Director Accounts Payable and Work Cycle.

Workflow type

Determines whether users can edit the document, or only release it.

- **1 - Release**

Work Cycle users can only approve, reject and add notes. They cannot edit the document. Process Director Accounts Payable users cannot edit the document while it is in workflow.

- **2 - Correction**

Work Cycle users can edit, approve and reject. Process Director Accounts Payable users cannot edit the document while it is in workflow.

- **3 - Release and correction**

Work Cycle users can edit, approve and reject. Process Director Accounts Payable users cannot edit the document while it is in workflow.

- **4 - For information purposes**

Work Cycle users can edit the document. The **Approve** and **Reject** buttons are not available. Users must click the **Note** button to release the document.

We recommend applying a field status to the workflow step to prevent editing, as Process Director Accounts Payable users can edit the document while it is in workflow. A workflow step of this type must be either the only step in workflow, or the last step a multi-step workflow.

Text of release function

The text label of the **Approve/Release** button in the Web Application.

 In the SAP GUI, the tooltip text is always **Approve document**.

Subject of notification email

The subject of the email sent to the workflow step recipients.

Text for the confirmation email

The content of the email sent to the workflow step recipients. Work Cycle provides [built-in templates](#), such as /COCKPIT/WEB_CYCLE_START, that you can use as they are, or copy and edit.

 If you do not specify a step-specific subject and text for the workflow step recipients, the text from the /COCKPIT/WEB_CYCLE_START template is used. You cannot set up general workflow texts for starting a workflow.

Field status

The field status to apply to the document when users open it Work Cycle.

If you leave the **Field status** blank, users cannot edit the document.

Validity period

The period within which processors must complete the workflow step. After this period expires, Work Cycle sends daily reminder emails to the processors.

The sum total of the validity periods for all workflow steps assigned to the workflow must equal the **Maximum processing time** in the workflow configuration.

Interval for reminder emails

For overdue workflow steps, the interval in days for reminder emails. For example, if you enter 3, Work Cycle sends reminder emails every three days.

Optional settings

Forward

Determines whether processors can forward the document and send queries to other users.

- **Not allowed**
Processors cannot forward the document or send queries.
- **X - Allowed**
Processors can forward the document, but cannot send queries.
- **1 - Only queries without document handover**
Processors cannot forward the document, but they can send queries. After sending a query, the document remains in the sender's Worklist.
- **2 - Only queries with document handover**
Processors cannot forward the document, but they can send queries. After sending a query, the document disappears from the sender's Worklist until the user has answered the query.
- **3 - Allowed, also queries without document handover**
Processors can forward the document and send queries. After sending a query, the document remains in the sender's Worklist until the user has answered the query.
- **4 - Allowed, also queries with document handover**

Processors can forward the document and send queries. After sending a query, the document disappears from the sender's Worklist.

All recipients must process

All recipients of the workflow step must release the document before it can move to the next workflow step, or before the workflow can finish, if the step is the last workflow step.

Line item/account approval

Allows different processors to approve individual line items for MM documents and accounting lines for FI documents.

You must also select the **All recipients must process** check box.

Send emails

Determines whether recipients of the workflow step receive an email notification.

- **Individual email without image attachment**

Work Cycle sends a single email to each step recipient, without attaching the document image.

- **A - Individual email with image attachment**

Work Cycle sends a single email to each step recipient, and attaches the document image.

- **X - No email**

Work Cycle does not send an email. Recipients must manually check their Work Cycle Worklists for new documents.

- **S - Collective email**

Work Cycle uses the `DUE_DATE_CHECK` program to send a collective email to each recipient of the workflow step. A collective email contains all workflow step notifications for that processor since the last program run.

Reject

Determines what happens when a user rejects the workflow step. Work Cycle cancels the workflow completely, or returns the document to the first or previous workflow step recipient or processor.

A recipient is the person that receives the workflow step. A processor is the person who actually approves or rejects the workflow step. In most cases, this will be the same person. However, if the recipient forwards the document to another person, or the recipient's substitute processes the document, the processor is not the same person as the recipient. Thus it is possible to specify whether the document should be returned to the person who received the workflow step or to the person who actually processed it.

You can select one of the following Reject options from the list:

- **Back to Kofax Process Director processor**

The document remains in the workflow, but a Process Director Accounts Payable user must determine what action to take, such as cancelling the workflow, or sending the document to another recipient.

- **X - Back to previous workflow recipient**

Work Cycle sends the document to the recipient of the previous step in the workflow.

- **1 - Cancel workflow**

Work Cycle cancels the entire workflow.

- **2 - Back to first workflow processor**

Work Cycle sends the document to the processor of the first step in the workflow. This is the default behavior.

- **3 - Back to first workflow recipient**

Work Cycle sends the document to the recipient of the first step in the workflow.

- **4 - Back to previous workflow processor**

Work Cycle sends the document to the processor of the previous step in the workflow.

For invoice documents that users create in the Web Application, the following rules apply when you set the **Reject** setting for the first workflow step to **Cancel workflow**.

- If the first workflow processor rejects the document and other users have not processed it, Work Cycle deletes the document.
- If the first workflow processor rejects the document and other users have processed it, Work Cycle does not delete the document.
- Processing can include forwarding the document, sending a query, returning the document to the first workflow processor by rejecting all subsequent steps, or processing by a substitute.

Email archive

Determines whether Work Cycle archives notification emails, and whether users can edit the email texts before sending the document to workflow.

- **Do not archive as a note**

Work Cycle does not archive notification emails as notes. Work Cycle users cannot edit emails.

- **X - Archive as a note**

Work Cycle archives notification emails as notes. Work Cycle users cannot edit emails.

- **A - Do not archive as a note, changeable in Work Cycle**

Work Cycle does not archive notification emails as notes. Work Cycle users can edit emails.

- **B - Archive as a note, changeable in Work Cycle**

Work Cycle archives notification emails as notes. Work Cycle users can edit emails.

Executability

Determines whether a processor must complete a workflow step.

 This option cannot be used for the first step in a workflow.

Doc. upload

Determines whether processors can attach additional files to the document in the Web Application.

Recall documents in WA

Determines whether processors can recall documents in the Web Application.

Processor

Any email address

Email users can be recipients of the workflow step.

SAP users

SAP users can be recipients of the workflow step.

Internet users

Work Cycle Web Application users can be recipients of the workflow step.

User groups

User groups can be recipients of the workflow step.

Pre-assign processors

Determines which users can be recipients and whether Work Cycle automatically adds default processors as recipients to the workflow step. Default processors are those for which you select the **SetDefault** check box in [/COCKPIT/WUM2](#).

- **Default assigned processors only**

Only processors specified in [/COCKPIT/WUM2](#) or in a User Exit can be recipients. Work Cycle adds default processors as recipients.

- **X - All assigned processors**

Only processors specified in [/COCKPIT/WUM2](#) or in a User Exit can be recipients. Work Cycle adds all processors specified in [/COCKPIT/WUM2](#) or in a User Exit as recipients.

- **A - Default assigned, any other processor**

Any user can be a recipient. Work Cycle adds default processors as recipients.

- **B - All assigned, any other processor**

Any user can be a recipient. Work Cycle adds all processors specified in [/COCKPIT/WUM2](#) or in a User Exit as recipients.

Assignment of processors

- **In Process Director Accounts Payable**

Kofax Process Director Accounts Payable users manually assign processors.

- **1 - In Work Cycle**

Work Cycle users manually assign processors. If you select this option, users cannot recall the workflow step.

- **2 - In Process Director Accounts Payable or Work Cycle**

Process Director Accounts Payable users or Work Cycle users manually assign processors.

- **3 - In background (automatic, without manual intervention)**

Work Cycle assigns processors automatically. Select this option for automatic workflow starts, and when the step is in the second or subsequent position in the workflow, and the previous workflow step processor must not select the recipients of the next step. If you select this option, users cannot recall the workflow step.

User Exits

You activate User Exits at the following points to add custom logic for workflow steps. Type the User Exit name in the appropriate field.

- Check if the Work Cycle step can be started
- Define possible processors and parallel steps
- Logic after the step action has been performed
- Logic after the step has been released
- Check recipients of the step

Email texts and subjects

These fields specify the subject and email text for sending and answering queries and forwarding workflow steps.

If you do not specify email texts and subjects here, Work Cycle uses the general email texts and subjects.

Optional settings for Work Cycle steps

/COCKPIT/WI17

In this transaction, you configure the following optional settings for workflow steps. For the corresponding task, see [Create a workflow step](#).

Workflow step

The name of the workflow step.

Note settings

Note required

Determines whether users must create a note before performing the following actions.

- Replying to a query
- Sending a query
- Forwarding the workflow step
- Approving the workflow step
- Rejecting the workflow step

 Do not select these check boxes for workflow steps of the type 4 - For information purposes.

Cover sheet settings

Print cover sheet?

Displays a Print cover sheet button when users open the document in the Web Application. When users click the Print cover sheet button, a dialog box displays a cover sheet in PDF format, which users can print.

Cover sheets enable users to attach scanned paper documents to a Kofax Process Director document. Cover sheets contain the Kofax Process Director document number and a barcode, which Kofax Process Director uses to identify the correct document for the scanned attachments.

Form name

The name of the PDF form to use for the cover sheet.

Recipient settings

Single recipient of workflow step

Specifies that only one user can be the recipient of the workflow step.

Permitted recipient check

Specifies which users can be recipients of the workflow step.

- **S – New recipient (not the current processor)**
- **X – Principle of dual control (recipient not previous processor)**
- **– None**
- **F – None, forwarding permitted to oneself**
- **I – Sender/initiator cannot be processor of the workflow**

Any user for forwarding

Users can forward the document to any other user.

This setting only applies if you set the Pre-assign processors setting in [/COCKPIT/WI3](#) to All assigned processors or Default assigned processors only.

Any user for queries

Users can send queries about the document to any other user.

This setting only applies if you set the Pre-assign processors setting in [/COCKPIT/WI3](#) to All assigned processors or Default assigned processors only.

PD message type start/continue

Determines whether Process Director Accounts Payable checks for steps without assigned recipients when users start or continue a workflow.

If no recipient is assigned to a workflow step and the workflow step settings only allow a Kofax Process Director user to assign recipients, Work Cycle can display a dialog box to inform the user that recipients are not assigned. Depending on which option you select in the PD message type start/continue list, the dialog box opens and the user can or must correct the assignment, or they can start or continue the workflow without assigning users.

- **EE Error when start, error when carry on**
Users must assign recipients when starting and continuing a workflow.
- **ES Error when start, no notification when carry on**

Users must assign recipients when they start a workflow. The dialog box does not open when they continue a workflow.

- **EW Error when start, warning when carry on**

Users must assign recipients when they start a workflow. The dialog box opens when they continue a workflow, but they do not have to assign recipients.

- **SE No notification when start, error when carry on**

The dialog box does not open when users start a workflow. The dialog box opens when they continue a workflow, and they must assign recipients.

- **SW No notification when starting, warning when carry on**

The dialog box does not open when users start a workflow. The dialog box opens when they continue a workflow, but they do not have to assign recipients.

- **WE Warning when start, error when carry on**

The dialog box opens when users start a workflow, but they do not have to assign recipients. The dialog box opens when they continue a workflow, and they must assign recipients.

- **WS Warning when starting, no notification when continuing**

The dialog box opens when users start a workflow, but they do not have to assign recipients. The dialog box does not open when they continue a workflow.

- **WW Warning when starting, warning when carry on**

The dialog box opens when users start a workflow, but they do not have to assign recipients. The dialog box opens when they continue a workflow, but they do not have to assign recipients.

- **No notification**

Process Director Accounts Payable does not check for steps without assigned recipients.

 Recipients must be entered in the first item when a workflow is started, and in the next item when a workflow is continued. If this is not done, an error message will appear, which cannot be overruled by any of the settings described here.

No auto takeover if substitute of a parallel processor

Activate this check box to suppress automatic processing if the workflow step goes to two processors, and one of the processors is also the substitute of the other processor and takes over processing.

It makes sense to select this check box if all processors must process the workflow step and, in the case of substitutes, manual take over of processing by the substitute should be enforced, even though the substitute is also a recipient of the workflow step.

The prerequisite for this is that the workflow step must be processed by all recipients (All recipients must process).

A workflow step that must be processed by all processors is sent to user A and user B. A is also the active substitute of B.

The step is normally automatically processed by A as well, if this flag is not set. Setting the flag has the effect that, after A has processed the workflow step, B must still process the workflow step and thus it could be processed again by A in the capacity of substitute.

Line item/account approval**Default recipient type**

Determines the default recipient type. If you only define one user type in the workflow step settings, this is the default user type. If you define several user types in the step settings, you can define the default user type here.

Show all lines

Determines whether workflow processors see lines assigned to other processors in read-only mode. By default, workflow processors see only those lines that are assigned to them, or lines that are not assigned to anyone.

Attachment deletion**Allow attachment deletion**

This configuration option determines whether attachments can be deleted in a workflow step or not.

Messages to the vendor**Allow sending emails to vendor**

This configuration option determines whether you can send emails to vendors or not.

Workflow processes and step conditions

/COCKPIT/WI4

In this transaction, you configure workflow processes and define conditions for workflow steps. For the corresponding task, see [Apply workflow step conditions](#).

Define workflow processes**Workflow ID**

The name of the workflow.

Workflow step ID

The name of the workflow step.

Position

The position of the workflow step in the workflow, where 1 is the first step in a workflow, 2 is the second step, and so on.

 You can add a workflow step to more than one workflow.

Define step condition within workflow process**Sequence**

When you define several conditions for the same step, the Sequence number specifies the order in which the system checks whether the conditions apply.

Structure

The structure containing the field for which the condition applies.

Internal field

The name of the Kofax Process Director field for which the condition applies.

Inclusion/exclusion

Specifies whether the condition includes or excludes the values in the From value and To Value fields.

I Including

- The condition is fulfilled if the values are present.

E Excluding

- The condition is fulfilled if the values are not present.

Comparative options

Specifies the function used to compare the From value and To value.

From value/To value

The values to use in the evaluation of the condition.

 To avoid errors, type the values in SAP internal format. For example, for cost center 1000 type 0000001000, for vendor 2500 type 0000002500.

Opening bracket/Closing bracket

If there are multiple step conditions and you want to perform two or more conditions together before performing another, select the Opening bracket or Closing bracket check box.

Boolean operator

The operator used to join conditions.

Activate workflows

/COCKPIT/WI7

In this transaction, you activate workflows to make them available for use. For the corresponding task, see [Activate a workflow](#).

Company code

Company code for which the workflow is available.

FI/MM

Type of invoice for which the workflow is available.

To make the workflow available for both types of invoice, create two entries, one for FI and one for MM

PD document type

Process Director Accounts Payable document type for which the workflow is available.

 Workflows to which you assign a document type are available in the Invoice type selection list when users create a new invoice.

Workflow ID

The name of the workflow.

Workflow steps, assign processors

/COCKPIT/WUM2

In this transaction, you assign recipients to workflow steps. For the corresponding task, see [Assign workflow recipients](#).

Workflow processor**Workflow ID**

The name of the workflow.

Workflow step

The name of the workflow step.

Workflow processor

The user name of the user assigned as a recipient to the workflow step.

User type

The type of user. You can assign SAP and Work Cycle users, and user groups.

Set default

Specifies that the user is a default processor for the workflow step. The **Pre-assign processors** setting in the workflow step configuration determines whether Work Cycle automatically assigns default and non-default users to the step.

Recipient determination functions

You can automatically determine workflow recipients from the purchase order, purchase requisition, purchasing group or SAP HR.

Workflow ID

The name of the workflow.

Workflow step

The name of the workflow step.

Function Module

The name of the Function Module that determines the recipients.

Sequence

The order in which the defined Function Modules determine recipients.

Work Cycle only calls each subsequent function if the previous function does not return one or more recipients.

Set up general workflow texts

/COCKPIT/WI9

In this transaction, you specify the subjects and texts of general workflow emails. For the corresponding task, see [Activate an email template](#).

 Workflow start texts, as well as step-specific texts for queries and forward, are specified in /COCKPIT/WI3.

Work Cycle general texts**Recalling a workflow**

Sent when users recall a workflow step or the entire workflow.

Reminders for overdue workflow steps

Sent when a workflow step or an entire workflow is overdue.

Processing by a different user

Sent to the original recipient of a workflow when a substitute takes over processing of a document.

Collective emails

The /COCKPIT/DUE_DATE_CHECK program sends collective emails. A collective email contains all workflow step notifications for that processor since the last program run. You activate collective emails in the workflow step configuration.

In the **Sender of accum. email** field, you can specify any SAP user as the sender of the email.

Active substitutes at workflow start

Sent to active substitutes of workflow processors when a user starts a workflow.

Answering queries

Sent when a user answers a query about a document.

Sending queries

Sent when a user sends a query about a document to another user.

Forwarding a workflow

Sent when a user forwards a workflow to another user for processing.

Activate authorization checks in Work Cycle

/COCKPIT/WI13

In this transaction, you assign an authorization object to control user access to Work Cycle.

Authorization object

The name of the SAP authorization object that permits access to Work Cycle. If you do not specify an authorization object, all SAP users can access Work Cycle.

Message transformation for checks

/COCKPIT/WI22

In this transaction, you can change the type of messages for different checks, and you can also suppress messages completely.

This applies to both Kofax Process Director and SAP messages. Changing or suppressing messages is useful, for example, if `coding block (COBL)` error messages should not appear for documents where no cost center has been assigned. You can apply rules for all workflow steps, or restrict them to specific workflow steps.

Message check time

The time when the check runs.

Workflow step ID

The name of the workflow step.

Type

The type of check.

Message ID

The message class. See SE91. The message class contains a collection of messages (see Message No., below).

All Kofax Process Director message classes are saved in /COCKPIT/*.

Message No.

The message ID. The actual message you wish to change or suppress. See SE91 for a list of message numbers and the message text.

Any message

If active, the rule applies to all messages for the Message ID and the Message No. is ignored.

Action

The change to the type of message or error that is generated. Or, whether the message is suppressed/ignored.

Limit attachment visibility in applications

/COCKPIT/WI28

In this transaction, you specify which types of attachments are not visible in the Web Application and the Process Director Accounts Payable for use with SAP Fiori application.

You can limit the visibility for a specific workflow step or a specific Process Director Accounts Payable archive document type.

Web application

The part of the Web Application or Fiori Application in which the attachment is not visible.

- **Work Cycle (history)**
When viewing documents that have already been processed.
- **Work Cycle (document selection)**
When viewing the document detail.
- **Work Cycle (worklist selection)**
When viewing the document list

Workflow step ID

The name of the workflow step.

Document type

The Process Director Accounts Payable archive document type. You define the document types in transaction `OAC2`.

Email settings

Email settings

/COCKPIT/WI30

In this transaction, you configure settings for workflow emails. All settings except the **Format** setting apply only to HTML emails. For the corresponding task, see [Create a plain text email template](#).

Format

Specifies the format for workflow emails.

If you do not select a value, Work Cycle sends plain text emails.

HTML templates

HTML start

The template for the start of the HTML email, from the <HTML> tag to the <BODY> tag. The default template is /COCKPIT/HTML_START. You define the CSS styles in the /COCKPIT/HTML_START template.

HTML end

The template for the end of the HTML email, from the </BODY> tag to the </HTML> tag. The default template is /COCKPIT/HTML_END.

MOBILE APPROVAL links

The template for formatting the Email-based Approval (formerly MOBILE APPROVAL) links for approving, rejecting and adding notes to documents. The default template is /COCKPIT/HTML_MOBILE_BUTTONS.

Link names

A shortcut to [/COCKPIT/WI31](#), where you specify names for document links in Work Cycle emails. These names appear in the email instead of the URL.

Field display

Number of fields per row

The number of fields that appear in each table row of HTML tables included the email.

A field consists of the field name and the field value, so if you specify 4 fields, the row consists of 8 cells.

 If Email-based Approval is active for a workflow step, Work Cycle ignores this setting and displays only one field per row. You can override this with the Ignore MOBILE APPROVAL setting.

Add multi acc. ass. to items

Specifies whether multi-account assignment fields for MM documents appear in the line item table or in a separate table.

Ignore MOBILE APPROVAL

If Email-based Approval is active for a workflow step, Work Cycle displays only one field per row in HTML tables. Select the Ignore MOBILE APPROVAL check box to use the Number of fields per row setting instead.

Field selection

A shortcut to [/COCKPIT/WI32](#), where you specify which fields to display in HTML workflow emails.

Images

Disable email background

Specifies whether a background image appears in the email.

Background

To use a background image in HTML emails, you must upload the image to the SAP Web Repository. Type the SAP Web Repository image ID, not the original file name of the image.

If you do not specify a background image, Work Cycle uses `backgrnd.gif`.

The image ID does not have to be `backgrnd.gif`. Work Cycle links your image with this file name automatically.

 If the email program does not support background images for HTML emails, the background image appears as an email attachment.

Others

Turn off emails for locked substs

Select this checkbox to prevent the sending of workflow emails to locked substitutes. Exceptions apply to substitutes locked due to multiple failed login attempts with an incorrect password.

When a workflow is sent to a user with a locked substitute, a warning message is displayed indicating that the substitute is locked.

Report Status by Mail

Select an option to receive email status updates:

- **Never:** Do not receive any status updates.
- **Only if errors occur:** Receive updates only when errors are encountered.
- **If sent:** Receive confirmation when the email is sent.
- **If read:** Receive confirmation when the email is read.
- **Always:** Receive updates for all statuses.
- Leave the field blank to apply SAP standard settings.

HTML email link names

/COCKPIT/WI31

In this transaction, you specify names for document links in Work Cycle emails. The hyperlink to the document or list of documents displays this name instead of the URL. For the corresponding task, see [Create an HTML email template](#).

Alias

- **&WEB_CYCLE_DIRECT_DOCUMENT_LINK&**
The URL of the list of documents to approve.
- **&WEB_CYCLE_DOCUMENT_LIST_LINK&**
The URL of the list of documents to approve. Two aliases exist to provide backward compatibility with previous versions of Work Cycle.
- **&WEB_CYCLE_SINGLE_DOCUMENT_LINK&**
The URL of a single document.
- **&WEB_CYCLE_SINGLE_SIGN_ON_LINK&**

The URL of the Web Application logon page.

- **&WEB_CYCLE_SUBST_DOC_LIST_LINK&**

The URL of the list of documents for a substitute

Value

The display name for the hyperlink.

Email field selection

/COCKPIT/WI32

In this transaction, you specify which fields to display in HTML workflow emails. For the corresponding task, see [Create an HTML email template](#).

Structure

The structure that contains the field.

- **HEADER**

Header data

- **ITEM**

Line item data

- **ACCOUNT**

Account assignments for FI items

- **ACCASS**

Account assignments for MM items

Internal field name

The name of the field in Process Director Accounts Payable.

Automatic workflow start

Define functions for automatic workflow start

/COCKPIT/WI34

In this transaction, you define the function modules for automatically starting a workflow. You can also define your own custom functions using the /COCKPIT/WC_AUTO_START_SAMPLE template.

Workflow start type

The ID of the workflow start type.

Set Function Module for automatic workflow start

Function Module

The unique name of the function module to use for automatically starting a workflow. The code of the function module determines under what conditions the workflow starts.

Workflow start

A description of the condition for automatically starting a workflow. The following standard conditions are available:

- 001 FI document: Starts the workflow if an FI approval is required
- 002 Missing GR: Starts the workflow if there is no goods receipt
- 003: Quantity mismatch: Starts the workflow if the invoice quantity for an item differs from the purchase order quantity
- 004: Amount mismatch: Starts the workflow if the invoice price for an item differs from the purchase order price
- 005: Amount too high: Starts the workflow if the invoice price for an item is higher than the purchase order price
- 006: Amount too low: Starts the workflow if the invoice price for an item is lower than the purchase order price

Define functions for baseline date

/COCKPIT/WI36

In this transaction, you define the function modules for delaying a workflow start when specific criteria are met.

WC Baseline Date

The ID of the baseline date for the delayed workflow start.

Set Function Module for baseline date

Function Module

The unique name of the Function Module you want to use for delaying the start of a workflow.

Workflow Baseline

The method to determine the baseline date for delaying the start of a workflow. The following are available:

- Baseline date: From transfer date
- Baseline date: From invoice date
- Baseline date: From deliver date

Configure automatic workflow start

/COCKPIT/WI35

In this transaction, you configure settings for automatically starting workflows, or for delaying their start when specific criteria are met. For the corresponding task, see [Configure automatic workflow start](#).

CoCd

The buying organizational unit.

PD DocType

The Kofax Process Director document type.

Workflow ID

The name of the workflow.

Sequence

The order in which the Function Modules defined for automatically starting a workflow should be used.

WF type

The ID of the [condition for automatically starting a workflow](#).

Workflow start

The description of the [condition for automatically starting a workflow](#).

Start at Process

The process that should start the automatic workflow start function. The following are available:

- **01 Transfer**
Automatic workflow start on document transfer.
- **03 After Posting**
Automatic workflow start on document posting.
- **04 After WF approved**
Automatic workflow start on document approval.

Delay

The number of days by which the workflow should be delayed.

WC Base

The ID of the [method that should be used to determine the baseline date for delaying the start of a workflow](#).

Workflow Baseline day function

The description of the [method that should be used to determine the baseline date for delaying the start of a workflow](#).

Follow-up

Sets up a follow-up flag for important document alterations or outstanding activity.

Automatic workflow recall

Define workflow recall check functions

/COCKPIT/WI37

In this transaction you define the check function modules against which a document will be automatically checked. You can define your own custom functions using the /COCKPIT/WC_TEMPLATE_CHK_FUN template. See [Configure automatic workflow recall check functions](#) for more information.

The following standard check function modules are available:

Function Module	Description
/COCKPIT/WC_CHK_GRNO	Checks if the delivery note number is present
/COCKPIT/WC_CHK_IS_FI	Checks if this is an FI document
/COCKPIT/WC_CHK_PAID	Checks if the document was paid
/COCKPIT/WC_CHK_PO_ASSIGNED	Checks if the PO number is missing
/COCKPIT/WC_CHK_REVERSED	Checks if the document was reversed
/COCKPIT/WC_CHK_VENDOR_NUMBER	Checks if the Vendor Number is present on the PDAP document

Define workflow recall reasons

/COCKPIT/WI38

In this transaction, you define the reasons for recalling a workflow when specific criteria are met.

Reason

The number of the recall reason.

Reason name

The name of the recall reason.

Description

The description of the recall reason.

Recall reasons check functions

The criteria against which any document in the workflow will be automatically checked. The workflow will be recalled only when all check functions return a positive result.

Function

Recall check function number.

Order

The order in which the checks will run.

Function module

The name of the recall check function module.

Description

The description of the recall check function module.

Define workflow recall configuration

/COCKPIT/WI39

In this transaction, you configure settings for automatically recalling workflows when specific criteria are met. For the corresponding task, see [Configure automatic workflow recall](#).

CoCd

The buying organizational unit.

Workflow ID

The name of the workflow.

PD DocType

The Kofax Process Director document type.

Reason

The number of the recall reason for automatically recalling a workflow.

Reason name

The name of the recall reason for automatically recalling a workflow.

Active

Select this check box to activate automatic workflow recall for the selected workflow.

Presentation and interface

Maximum number of fields in the Web Application

/COCKPIT/WI11

In this transaction, you define the fields to display in the Web Application.

You can use the `CI_COCKPIT_ORDER` include to extend the `/COCKPIT/SORDER` table with fields from the `BAPIEKPO` (purchase order) and `BAPIEKBES` (purchase order history) tables.

Structure

The structure that contains the field.

- **HEADER:** Header data
- **ITEM:** Line item data
- **ACCOUNT:** Account assignment for FI items
- **ACCASS:** Account assignment for MM items

- **TAX:** Tax fields
- **CHECKDATA:** Bank and other data fields
- **SORDER:** Purchase order fields
- **CPD:** One-time vendor fields

Internal field name

The name of the Process Director Accounts Payable field.

 To display the **Purchase Order history** button, you need to configure both the `PO_NUMBER` and `PO_ITEM` fields in the `ITEM` structure.

Create field status and assigning field characteristics

/COCKPIT/C23

In this transaction, you create field statuses. For the corresponding task, see [Create a field status](#).

Field status

The name of the field status.

Field status identification

Header data can only be displayed

Displays all header fields as read-only.

Display invoice items only

Displays all line-item fields as read-only.

Only display account assignment

Displays all account assignment fields as read-only.

No account assignment line with MM invoices

Hides the account assignment fields for FI items in MM documents.

Display withholding tax only

Displays withholding tax fields as read-only.

Display tax only (no entry)

Displays tax fields as read-only.

Screen variants

You can assign screen variants for the Invoice items, Account Assignments, PO Account Assignments and PO Data grids. See the SAP documentation for information on creating screen variants.

Characteristic value of status

Structure

The structure that contains the field.

- **HEADER:** Header data
- **ITEM:** Line item data
- **ACCOUNT:** Account assignment for FI items
- **ACCASS:** Account assignment for MM items
- **TAX:** Tax fields
- **CHECKDATA:** Bank and other data fields
- **SORDER:** Purchase order fields
- **CPD:** One-time vendor fields

Internal field name

The name of the Process Director Accounts Payable field.

Display

- **D Only display:** Displays the field as read-only.
- **H Hide:** Does not display the field.
- **M Mandatory field:** The user must type a value in the field before saving the document.
- **Normal field:** The user can edit the field value.

Maintain default layouts for the Work Cycle transaction overview screen

/COCKPIT/WI12

In this transaction, you assign variants to specify the default layout of the following grids in the Work Cycle document list.

- Document list
- MM invoice items
- FI coding items

Activate Work Cycle customer-specific functions

/COCKPIT/WI14

In /COCKPIT/WI14 you can activate customer functions and define menu names and toolbar buttons for these functions.

Use Process Director Accounts Payable User Exit 12 (/COCKPIT/USEX_CUSTFCT_PROCESS) to link the menu items to functions.

Workflow step

The name of the workflow step.

Activate customer functions

Displays the custom menu in /COCKPIT/WC.

Menu description

The name of the custom menu.

Description

The name of the menu item.

Cust. function icon

(Optional). The icon for the toolbar button.

Op. mode

Specifies whether the function locks and updates the document.

- **Lock and update document**

The document is locked for other users and the current user can edit the document.

- **1 Lock but do not update document**

The document is locked for other users but the current user cannot edit the document.

- **2 No lock and no update of document**

The document is not locked for other users and the current user cannot edit the document.

Customer specific function 4-6 special option

In `/COCKPIT/WI14` you can display or hide customer specific functions 4-6 on the toolbar. Check the **Hide from Toolbar** check box to hide the functions from the toolbar or clear the check box to display them.

When the functions are hidden on the toolbar, they are still available on the menu.

Process several documents together

Specifies whether the function runs on more than one document simultaneously.

Archive document types for document upload in the Web Application

`/COCKPIT/WI15`

In this transaction, you specify which document types users can upload in the Web Application and in Process Director AP Work Cycle for SAP Fiori.

Document type

The document type, as defined in `OAC2`.

Attachment description mode

Specifies whether users can view and edit the attachment description. Attachment descriptions are only available in SAP versions ECC600 and higher. To activate attachment descriptions, you must select the Save File Attributes check box in transaction `OAG1`.

Maximum size of attachment (MB)

Specifies the maximum file size for the upload of an attachment.

Define forms for workflow steps for the Web Application

/COCKPIT/WI16

In this transaction, you can specify which archive document types Work Cycle uses when Web Application users fill in and submit forms. If this table is empty, Work Cycle uses the first matching entry in /COCKPIT/C15.

Workflow step

The name of the workflow step.

Language

The language of the form.

File form

The file name of the form, as it appears in the Web Application.

Workflow step - Forms

Name of the form

The name of the form.

Document type

The archive document type to use for the form. You define archive document types in transaction OAC2.

Extend selection criteria for workflow history

/COCKPIT/WI24

In this transaction, you can define additional fields for the **History > New invoice selection** tab, when searching for processed documents. These selection fields appear in the SAP GUI **Workflow > Display releases (history)** dialog box.

The following fields are always available.

- Workflow name
- Last approval/action from/to
- Display approvals only
- Maximum number of rows

The remaining configured fields appear when users click the **Other selection fields** button. Only simple From-To selections are allowed; it is not possible to define ranges or single values.

Table name

The type of field.

- **HEADER:** Header fields
- **WEB_CYCLE:** Work Cycle workflow fields

Field name

The name of the field.

Selection type

The type of selection for the field.

- **1 Single parameter:** Provides one field to enter a single value.
- **2 From/To parameter:** Provides two fields to enter a range, such as "document number 1000 to 2000".
- **3 Checkbox:** Allows users to select multiple options.
- **4 Radio button:** Allows users to select only one of the available options.

 Use the **Radio button** selection type only with fields of an applicable type. Using it with fields of the type CHARACTER or INTEGER will result in incorrect search results.

Status description

The display text for the field in the Web Application. If you do not enter text, Work Cycle uses the standard field name from the data dictionary.

Sequence

The order in which the fields appear (lowest to highest value).

Web Application search help

Insert or adapt search helps

/COCKPIT/WI19

In this transaction, you can override the default Work Cycle search helps add additional search helps for the Web Application.

Possible search helps**Structure**

The structure that contains the field.

- **HEADER:** Header data
- **ITEM:** Line item data
- **ACCOUNT:** Account assignment for FI items
- **ACCASS:** Account assignment for MM items
- **TAX:** Tax fields
- **CHECKDATA:** Bank and other data fields
- **SORDER:** Purchase order fields
- **CPD:** One-time vendor fields

Internal field name

The name of the Kofax Process Director field.

Function module

The function module that provides the search help for the specified field.

To suppress a default search help, leave this field blank.

Field name in search help

The name of the field to display in the search results.

You must include the field that you added in the Possible search helps table. It may be the same Kofax Process Director field or the corresponding SAP field.

Example: If you add the Kofax Process Director `TAX_CODE` field to the **Possible search helps** table, you must add the SAP `MWSKZ` field to the **Search help fields** table. If you add the Kofax Process Director `FOLLOW_UP` field to the **Possible search helps** table, you can also add the `FOLLOW_UP` field to the **Search help fields** table.

Search help fields

For each field you add, you must specify the fields with which users can search, and the fields that appear in the search results.

Priority

The order of the fields, starting on the left with 1, then 2, 3, and so on.

 You must assign priority 1 to the search field. For example, if you added `TAX_CODE` to the **Possible search helps** table, you must add the `MWSKZ` field to the **Search help fields** table and assign priority 1.

ABAP type

The data type, such as character string, date or time.

No. of characters

The length of the field that displays the field values.

Search/display

Determines whether the field is only available for searching, or also appears in the search results.

Label

The label of the field in the search dialog box and the header of the results list.

 If the label is not available in the language in which the user is currently logged on, the field does not appear in the search help.

Optional: SAP search helps

If you add the `/COCKPIT/WC_SHLP_GENERAL` function module to the Possible search helps table, you must define an SAP search help.

Table name

Any table or structure that contains the field name, and a search help is available for that field. This is usually one of the following structures.

- /COCKPIT/SHDR_DISP
- /COCKPIT/SITEM_DISP
- /COCKPIT/SACCT_DISP
- /COCKPIT/TACCAS

Search help name

An elementary search help with the search help provided in the table/structure above.

Default search helps

/COCKPIT/WI18

This transaction lists the default search helps for the Web Application. This information is for reference only. To change search helps in the Web Application, use [/COCKPIT/WI19](#).

Structure

The structure that contains the field.

- **HEADER:** Header data
- **ITEM:** Line item data
- **ACCOUNT:** Account assignment for FI items
- **ACCASS:** Account assignment for MM items
- **TAX:** Tax fields
- **CHECKDATA:** Bank and other data fields
- **SORDER:** Purchase order fields
- **CPD:** One-time vendor fields

Internal field name

The name of the Process Director Accounts Payable field.

Function module

The function module that provides the search help for the specified field.

Search help fields**Field name in search help**

The name of the field to display in the search results.

Priority

The order of the fields, starting on the left with 1, then 2, 3, and so on.

ABAP type

The data type, such as character string, date or time.

No. of characters

The length of the field that displays the field values.

Search/display

Determines whether the field is only available for searching, or also appears in the search results.

Label

The label of the field in the search dialog box and the header of the results list.

Optional: SAP search helps**Table name**

Any table or structure that contains the field name, and a search help is available for that field.

Search help name

An elementary search help with the search help provided in the table or structure specified in the Table name field.

Web Application: Document selection

User group for document selection

/COCKPIT/WI25

In this transaction, you specify the user group that is able to view all Process Director Accounts Payable documents in the Web Application, not just documents sent to these users in a workflow. You can only specify one user group. For the corresponding task, see [Create a user group](#).

Work group

Any Work Cycle user group.

Criteria for document selection

/COCKPIT/WI26

In this transaction, you can define the document selection criteria for the **PD Documents** tab.

Table name

The type of field.

- **HEADER:** Header fields
- **WEB_CYCLE:** Work Cycle workflow fields

Field name

The name of the field.

Selection type

The type of selection for the field.

- **1 Single parameter:** Provides one field to enter a single value.

- **2 From/To parameter:** Provides two fields to enter a range, such as "document number 1000 to 2000".
- **3 Checkbox:** Allows users to select multiple options.
- **4 Radio button:** Allows users to select only one of the available options.

 Use the **Radio button** selection type only with fields of an applicable type. Using it with fields of the type CHARACTER or INTEGER will result in incorrect search results.

Alternative assignment

The display text for the field in the Web Application. If you do not enter text, Work Cycle uses the standard field name from the data dictionary.

Sequence

The order in which the fields appear (lowest to highest value).

Maintain default values for document creation

/COCKPIT/WBI7

In this transaction, you specify default values for the header fields when users create an invoice in the Web Application. Users can only create invoices if you activate the `wb_create` parameter in the `pdweb-app.properties` file.

PD document type

The Process Director Accounts Payable document type. If you do not enter a value here, the specified field value will be the default for all documents except those for which a document type specific value exists.

Internal field name

The name of the Process Director Accounts Payable field.

Field value

The value that appears in the field when creating a new invoice.

Web Application: Configure fields for one-time vendors

/COCKPIT/WI29

In this transaction, you can specify which one-time vendor fields appear in the Web Application. For the corresponding task, see [Configure one-time vendor fields in the Web Application](#).

Vendor

The name of the vendor. If you leave this field blank, the field setting applies to all vendors.

Field name

The name of the Process Director Accounts Payable field.

Display

- **D Only display:** Displays the field as read-only.

- **H Hide:** Does not display the field.
- **M Mandatory field:** The user must type a value in the field before saving the document.
- **Normal field:** The user can edit the field value.

 You do not need to add the mandatory fields the `NAME1` (Name) and `OTRO1` (City) fields, as these appear by default.

Priority

The row position of the field, with 0 being the highest row. If more than one field has the same row number, Work Cycle sorts the fields alphabetically.

User management

Map LDAP attributes to user master data

`/COCKPIT/WI27`

In this transaction, you map the LDAP attributes to the Work Cycle user fields. For the corresponding task, see [Import users from an LDAP directory](#).

The `/COCKPIT/WC_USER_UPDATE` program uses this mapping to import users from an LDAP directory into Work Cycle.

Attribute name

The name of the LDAP directory attribute.

Internal field name

The Work Cycle user field. You can select any field in the `/COCKPIT/TWC_UMP` table.

Function module

Optional. Assign a function module to modify the imported data before Work Cycle saves it in `/COCKPIT/TWC_UMP`. Work Cycle does not provide a standard function module, so you must write your own.

Set Work Cycle user management

`/COCKPIT/WI6`

In this transaction, you configure settings for the creation of new Work Cycle users. For the corresponding task, see [Create a user](#).

Customize user management

User generation

The method Work Cycle uses to create the user name if you do not specify a name.

- **Random name**

Work Cycle uses random characters to create the user name.

- **1 Generate name from email**

Work Cycle uses the first part of email address to create the user name.

Mapping module

The function module Work Cycle uses to import user data from a file.

Work Cycle provides the `/COCKPIT/WC_MAP_IMP_EXAMPLE` sample module, which you can use to import users from CSV files.

Initial password

The initial password for all users. Each user must change this initial password when they first log on. If you do not specify an initial password, Work Cycle automatically generates a random password.

 Work Cycle stores this password in encrypted form on the database.

Password Policy

The [security policy](#) that should be applied when creating and changing user passwords.

Use emails

Create or delete

Sends an email to newly created or deleted users.

Create Mail Txt

The email text for new users.

Delete Mail Text

The email text for deleted users.

Mail Text to Subs

The email text for substitutes of new or deleted users.

Lock or unlock

Sends an email to locked or unlocked users.

Mailtext

The email text for locked or unlocked users.

Change password

Sends an email to users when their password changes.

Mailtext

The email text for password changes.

Duplicate check**Check user ID**

Checks whether an SAP user with the same user ID already exists.

Check mail address

Checks whether an SAP user with the same email address already exists.

Check name (first name/last name)

Checks whether an SAP user and/or a Work Cycle user with the same first name and last name already exists, such as John Smith.

Check name (last name/first name)

Checks whether an SAP user and/or a Work Cycle user with the same last name and first name already exists, such as Smith John.

Work Cycle User management

Manage Work Cycle users

/COCKPIT/WUM

In this transaction, you manage Work Cycle users. In the **Workflow processor** field, type the name of the Work Cycle user, then click one of the following buttons. For the corresponding task, see [Create a user](#).

 Locking or deleting users may result in unfinished workflows. For example, if the locked or deleted user is the only user assigned to the last workflow step, the workflow cannot finish. In this case, you must recall the workflow.

Button	Action	Description
	Create user	Create a new user.
	Change	Change the details of an existing user.
	Display	View the details an existing user.
	Lock user	Lock the user. If the user is logged on when you apply the lock, they can continue to work in the current session.

Button	Action	Description
	Unlock user	Unlock the user.
	Delete	Delete the user.
	Initialize password	Generate a new password for the user. The user must change this initial password when they log on. You can define this initial password in /COCKPIT/WI6. Use the WC_UMA_PASSWD_INIT program to initialize passwords for more than one user at the same time.
	Change password	Manually specify a new password for the user.
	Import user	Specify a file from which to import users. You specify the function module for performing the import in /COCKPIT/WI6.
	User groups and their members	Manage user groups in /COCKPIT/WUM1.
	Assign user processes	Assign users to workflow steps in /COCKPIT/WUM2.
	Assign authorization roles to users	Assign authorization roles in /EBY/ICWC_UM3. This button is only available if Kofax Process Director is installed. See the <i>Kofax Process Director Configuration Guide</i> for details.
	Activate SAP user types	Define the SAP user types that are valid for workflow processors.

User group management

/COCKPIT/WUM1

In this transaction, you can create and manage user groups. For the corresponding task, see [Create a user group](#).

Processor groups

Work group

The name of the user group.

Description group

A description for the user group.

Assigned processors

User type

The type of user. As well as SAP and Work Cycle users, you can include other user groups. You cannot include email addresses in user groups.

Workflow processor

The user name.

Manage SAP user types

/COCKPIT/WUM4

In this transaction, you can activate or deactivate the following supported SAP user types, as well as any customer-defined ones. For the corresponding task, see [Create a user group](#).

- Dialog
- System
- Communications Data
- Reference
- Service

For deactivating an SAP user type, select the Deactivate check box. Leaving the check box deselected enables the selected user type.

Define search help for workflow processor

/COCKPIT/WI5

In this transaction, you can specify which users are available in the SAP GUI search help when users assign processors to a workflow. By default, Work Cycle searches for all users of the specified user type. However, you can restrict which users are searched by:

1. Writing a function for the specific user search you wish to implement.
2. Specifying the User type for which this search will be used in the above table.

 This configuration only affects user search helps for Work Cycle in the SAP GUI. It does not affect user search helps in the Web Application.

User type

The type of user for which the search help function will be used.

- **I – Work Cycle user**
- **S – SAP user**
- **G – User group**

Search help name

The search help function to find users.

Define substitute profile

/COCKPIT/WI33

In this transaction, you can specify which substitute profile allows substitutes to process documents in workflow. Work Cycle also assigns this profile to new substitutes in the Web Application. For the corresponding task, see [Define a substitute profile](#).

Set notes

Use Work Cycle notes

/COCKPIT/WI8

In this transaction, you specify whether users can create notes in Work Cycle, and specify options for archiving and displaying notes.

Use notes

Enables users to create Work Cycle notes.

Document type Work Cycle notes

Specifies the document type to use for archiving Work Cycle notes. You define document types in transaction `OAC2`.

Archive as text document

Archives notes in TXT format.

Archive as PDF document

Archives notes in PDF format.

Form for creating PDFs

The form to use to create a PDF from Work Cycle notes. You must select a form here if you archive Work Cycle notes in PDF format.

If you use a PDF document type, you must specify a Smart Form in the **Form for creating PDFs** field. Work Cycle provides the `/COCKPIT/WC_NOTES_AND_WORKFLOW` sample form, but you can also use your own form.

Archive as HTML

Archives notes in HTML format.

Document type internal notes

Specifies the document type to use for archiving internal notes. You define document types in transaction `OAC2`.

Notes in list

Specifies whether users can display notes in the document list view.

Notes in detail

Specifies whether users can display notes in the document detail view. A separate tab with the notes appears in the document header.

Comment symbol for note title

The character to use to denote comments in the note's title. The note's title displays meta data, such as the subject or document creator. In the following example, `*` is the comment symbol.

```
*** 24 / 24 *****
* Note type       : Email for workflow start
* Subject        : Please approve
* Creator        : John SMITH (SAP User: SMITH)
* Date / Time    : 16.06.2011 / 15:01:14 (CET)
*****
```

Maintain Work Cycle note types

`/COCKPIT/WI10`

This transaction lists the default Work Cycle note types. You must not change these note types. However, you can add new note types for individual extensions, which must exist in the customer's own SAP area, that is, they must begin with `Z*` or `Y*`.

Schedule background processing

Schedule reminder emails

The **Schedule reminder mails** IMG activity provides a shortcut to SM36 to define a background job for the `/COCKPIT/DUE_DATE_CHECK` program.

Schedule archiving of other notes

The **Schedule archiving of other notes** IMG activity provides a shortcut to transaction SM36 to define a background job for the `/COCKPIT/ARCHIV_NOTE_LATE` program.

Amendments

Activate User Exits

`/COCKPIT/WI23`

In this transaction, you activate User Exits. For the corresponding task, see [Develop a User Exit](#).

User Exits

The Work Cycle User Exit template.

Function module

The name of the User Exit.

No standard

Specifies whether the User Exit replaces the standard functionality. If you select this check box, Work Cycle skips all standard code that follows the User Exit.

Implementation button

Button to view and edit the User Exit.

Deactivate

Deactivates the User Exit.

User Exits

Work Cycle comes with User Exit interfaces that you can use to customize the application to suit business requirements.

Function module templates for the User Exits are available in the `/COCKPIT/WC_EXIT_SAMPLE` function group. To guarantee a stable interface when creating User Exits, copy these function modules and then modify them.

The interface structures and the tables in the local interface of the User Exit function templates start with E, I, and C.

Prefix	Description
E	Data is exported only. Changes are possible.
I	Data is imported only. Changes are not incorporated.
C	Data can be changed. Changes are possible.

Develop a User Exit

The Work Cycle User Exit templates are in the `/COCKPIT/WC_EXIT_SAMPLE` function group.

To develop a User Exit, complete the following steps.

1. In the `SE37` transaction, copy the User Exit template to a new function module.

 Be sure to copy the function module to your own custom function group.

2. Develop your User Exit code.
3. Go to the `/COCKPIT/Wi23` transaction.
4. In change mode, add a new entry.
5. Select the **User Exit**.
6. Select your **Function Module**.
7. Optional. To replace the standard functionality with your User Exit coding, select the **No standard** check box.
8. Click **Save** .

[illegible]

User Exit 901 – Change Work Cycle message texts

Work Cycle calls User Exit 901 at the end of all functions that read a text module, such as an [email text templates](#), from the Work Cycle configuration.

The User Exit can change the text in any way, with the exception of [text variables](#), which Work Cycle replaces with the actual values before calling the User Exit.

Function module template

The function module template for User Exit 901 is `/COCKPIT/WC_USEX_TEXT_ADAPT`.

User Exit 902 – Determine all Work Cycle workflows for one processor

Work Cycle calls User Exit 902 at the end of the API function that determines the list of documents that are in workflow for a specific user.

Function module template

The function module template for User Exit 902 is `/COCKPIT/WC_USEX_DOCS_FOR_USER`.

User Exit 903 – Change Work Cycle notes and releases to be archived

Work Cycle calls User Exit 903 immediately before writing the workflow log to the archive.

If you select the **No standard** check box in [/COCKPIT/WI23](#), Work Cycle skips the standard print functionality that creates an archive document from the actual lines of text.

Function module template

The function module template for User Exit 903 is `/COCKPIT/WC_USEX_ARCHIVE_NOTES`.

User Exit 904 – Change subjects of Work Cycle messages

Work Cycle calls User Exit 904 during the process of email generation, before replacing text variables in the email subject.

The User Exit enables you to change the email subject.

Function module template

The function module template for User Exit 904 is /COCKPIT/WC_USEX_SUBJ_ADAPT.

User Exit 905 – Own reminder function in

User Exit 905 allows you to implement a specific due date check on a workflow step.

If you select the **No standard** check box in [/COCKPIT/WI23](#), Work Cycle skips the standard Send email functionality.

Function module template

The function module template for User Exit 905 is `/COCKPIT/WC_USEX_REMINDER`.

User Exit 906 – After starting/continuing a workflow and before saving

Work Cycle calls User Exit 906 after a workflow step starts, but before the workflow information changed by the start procedure is written to the database.

If you select the **No standard** check box in [/COCKPIT/WI23](#), Work Cycle skips the standard database update.

Function module template

The function module template for User Exit 906 is `/COCKPIT/WC_USEX_AFTER_START`.

User Exit 907 – Own logic after workflow reminder

User Exit 907 allows you to implement customer-specific logic for workflow reminder email. You can define rules to control message dispatch.

Function module template

The function module template for User Exit 907 is `/COCKPIT/WC_USEX_AFTER_REMIND`.

User Exit 908 – Own logic for email at workflow start

Work Cycle calls User Exit 908 before sending the workflow email after a workflow step starts.

If you select the **No standard** check box in [/COCKPIT/WI23](#), Work Cycle skips the standard **Send email** functionality.

Function module template

The function module template for User Exit 908 is `/COCKPIT/WC_USEX_START_MAIL`.

User Exit 909 – Define further or different substitutions

Work Cycle calls User Exit 909 at the beginning of the function that determines the substitution definitions of a workflow processor.

If you select the **No standard** check box in [/COCKPIT/WI23](#), Work Cycle skips the standard substitution determination procedure.

Function module template

The function module template for User Exit 909 is `/COCKPIT/WC_USEX_SUBST_GET`.

User Exit 910 – Own logic for determining user type and email

Work Cycle calls User Exit 910 at the beginning of the function that determines the user type from a user ID, or the user type and the user ID from an email address.

If you select the **No standard** check box in [/COCKPIT/WI23](#), Work Cycle skips the standard procedure for user type determination.

Function module template

The function module template for User Exit 910 is `/COCKPIT/WC_USEX_USRTYPE_GET`.

User Exit 911 – Define further or other substitutes

Work Cycle calls User Exit 911 at the beginning of the function that determines the substitutes of a workflow processor.

If you select the **No standard** check box in [/COCKPIT/WI23](#), Work Cycle skips the standard procedure for substitute determination.

Function module template

The function module template for User Exit 911 is `/COCKPIT/WC_USEX_SUBTE_GET`.

User Exit 912 – Own or additional logic when sending an email

Work Cycle calls User Exit 912 at the beginning of the function that sends emails during workflow processing.

If you select the **No standard** check box in [/COCKPIT/WI23](#), Work Cycle skips the standard procedure for sending emails.

Function module template

The function module template for User Exit 912 is `/COCKPIT/WC_USEX_SEND_MAIL`.

User Exit 913 – When finishing a workflow (release/reject)

Work Cycle calls User Exit 913 after a workflow finishes, that is, when users approve or reject the document and it no longer has the In workflow status.

Function module template

The function module template for User Exit 913 is `/COCKPIT/WC_USEX_FINISHED`.

User Exit 914 – Adjust call of SAP API for sending emails

User Exit 914 allows you to adjust almost every parameter of the email, such as the subject and sender.

Function module template

The function module template for User Exit 914 is `/COCKPIT/WC_USEX_API_MAIL`.

User Exit 915 – Adjust/Replace general account assignment block check

User Exit 915 provides an interface to disable or adjust the General Account Assignment Block check (COBL check).

This User Exit's main purpose is to disable the COBL check under certain circumstances, such as when users send posted and unposted documents to the same workflow, but the COBL check should only apply for unposted documents. You can also use this User Exit to adjust the COBL check and the messages that the check creates.

Function module template

The function module template for User Exit 915 is `/COCKPIT/WC_USEX_CHECK_COBL`.

User Exit 916 – Adjust/Replace account assignment block check for vendor Ps

User Exit 916 provides an interface to disable or adjust the Accounts Payable Coding Block check (COBL_INT check).

This User Exit's main purpose is to disable the COBL_INT check under certain circumstances, or to modify the data before the check runs.

If you select the **No standard** check box in [/COCKPIT/WI23](#), the User Exit replaces the standard check. If you clear the No standard check box, Work Cycle calls the User Exit first, and then the standard check.

Function module template

The function module template for User Exit 916 is `/COCKPIT/WC_USEX_CHECK_APCOBL`.

User Exit 917 – Data check in the Web Application

User Exit 917 provides an interface to disable, modify or replace the standard data checks that Work Cycle performs when a user saves a document in the Web Application.

If you select the **No standard** check box in [/COCKPIT/WI23](#), the User Exit replaces the standard checks. If you clear the No standard check box, Work Cycle calls the standard check first, and then the User Exit.

Function module template

The function module template for User Exit 917 is `/COCKPIT/WC_USEX_DATA_CHECK`.

User Exit 918 – File upload via the Web Application

Work Cycle calls User Exit 918 when a user uploads an attachment from the document detail view in the Web Application.

You can use the User Exit to perform actions on the attachment data, such as evaluating the data to update the document.

- If you select the **No standard** check box in [/COCKPIT/WI23](#), Work Cycle cancels the upload.
- If you clear the **No standard** check box, Work Cycle archives the uploaded attachment and connects it to the document.

For more information on archiving, see [Archive document types for document upload in the Web Application](#).

Function module template

The function module template for User Exit 918 is `/COCKPIT/WC_USEX_FILE_UPLOAD`.

User Exit 919 – Calculate workflow validity period (due date)

User Exit 919 provides an interface to calculate the validity period (due date) of a workflow step.

The purpose of the validity date is to check it against the configuration of the workflow in order to declare a workflow step overdue or not.

The User Exit is called before the standard calculations are done, so it can either modify the values used for calculation or it can do the calculation completely. In the latter case you must check the **No standard** flag to skip the standard processing.

Function module template

The function module template for User Exit 919 is `/COCKPIT/WC_USEX_GET_DUE_DATE`.

User Exit 920 – Amend work item creation for SAP Business Workflow

If you integrate Work Cycle with SAP Business Workflow, starting a workflow in Work Cycle creates a work item in the SAP Business Workplace.

You can use User Exit 920 to modify the data used to create this work item. If you select the **No standard** check box in [/COCKPIT/WI23](#), Work Cycle skips the standard procedure for creating the work item.

Function module template

The function module template for User Exit 920 is `/COCKPIT/WC_USEX_WORKITEM`.

User Exit 921 – Adapt what data the Web Application gets

User Exit 921 is called after the complete document data is read upon a "data get" call from the Web Application.

All document data is available and you can modify it in any way. The User Exit call is the last statement in the "data get" RFC. Therefore, ensure that the messages table is properly filled. And do not raise an exception.

Function module template

The function module template for User Exit 921 is `/COCKPIT/WC_USEX_RFC_DATA_GET`.

User Exit 922 – Read the overview data in Work Cycle

Work Cycle calls User Exit 922 at the beginning of the RFC that the Web Application calls to get the list of documents for the currently logged on user.

If document GUIDs are passed here, only the documents matching the GUID exactly appear in the list. If the No standard flag is set, the User Exit replaces this standard call. If the flag is not set, the User Exit can be used to modify some changeable parameters.

Function module template

The function module template for User Exit 922 is `/COCKPIT/WC_USEX_GET_MULTI`.

User Exit 923 – User check during logon to the Web Application

You can use User Exit 923 to authenticate a user.

Work Cycle calls User Exit 923 in the following cases.

- When a user logs in to the Web Application with a user ID and password
The user ID is passed as `IC_USER_EMAIL`, the password as `IC_PASSWORD`, and the [security policy](#) as the `SECPOL` changing parameter.
If you select the **No standard** check box in [/COCKPIT/WI23](#), the User Exit replaces the standard authentication. In this case, the User Exit must verify the existence of the user and the correctness of the password, and also determine the user ID, user type and user language.
- When a user changes the password in the Web Application
In this case, the user ID and type are already known, so they are passed instead of `IC_USER_EMAIL`. `IC_NEWPASSWORD` is filled with the new password specified by the user.

If you are using the Kofax Process Director (blue) Web Application, you must also activate the User logon BAdI implementation `/EBY/ICWC_USER_LOGON`. For information on this BAdI, see the *Kofax Process Director Advanced Configuration Guide*.

Function module template

The function module template for User Exit 923 is `/COCKPIT/WC_USEX_RFC_USER_CHK`.

User Exit 924 – Set substitutes for the workflow

Work Cycle calls User Exit 924 when a user creates, changes or deletes a substitution setting in the Web Application.

A substitution setting consists of User ID, User Type, From data, To data, and a flag to indicate whether the substitution type is passive or active. If you select the **No standard** check box in [/COCKPIT/WI23](#), Work Cycle skips the standard processing for setting substitutes.

Function module template

The function module template for User Exit 924 is `/COCKPIT/WC_USEX_WEB_SUB_SET`.

User Exit 925 – Set substitutes for SAP users

Work Cycle calls User Exit 925 when an SAP user creates, changes or deletes a substitution setting in Work Cycle in the SAP GUI.

If you select the **No standard** check box in [/COCKPIT/WI23](#), Work Cycle skips the standard procedure for setting substitutes.

Function module template

The function module template for User Exit 925 is `/COCKPIT/WC_USEX_SAP_SUB_SET`.

User Exit 926 – Adapt search help determination for check tables

Work Cycle calls User Exit 926 when the Web Application calls a check table based value search.

The User Exit can override the search help configuration settings to influence the search behavior.

Function module template

The function module template for User Exit 926 is `/COCKPIT/WC_USEX_SHLP_BYTABLE`.

User Exit 927 – After saving the logon timestamp

Work Cycle calls User Exit 927 after saving the logon date and time for a Web Application user.

Function module template

The function module template for User Exit 927 is `/COCKPIT/WC_USEX_LOGON_SET`.

User Exit 928 – CPD data get

Work Cycle calls User Exit 928 at the end of the RFC that the Web Application calls to get the data of a one-time vendor.

You can use this User Exit to modify the [one-time vendor](#) data.

Function module template

The function module template for User Exit 928 is `/COCKPIT/WC_USEX_CPD_GET`.

User Exit 929 – CPD data set

Work Cycle calls User Exit 929 at the beginning of the RFC that the Web Application calls when users save one-time vendor data.

You can use this User Exit to modify and save the [one-time vendor](#) data.

Function module template

The function module template for User Exit 929 is `/COCKPIT/WC_USEX_CPD_SET`.

User Exit 930 – Reset Work Cycle user password

Work Cycle calls User Exit 930 at the beginning of the RFC that the Web Application calls when users reset their password.

You must select the **No standard** check box in `/COCKPIT/WI23` for this User Exit, as the standard processing does not use the values that the User Exit returns.

Function module template

The function module template for User Exit 930 is `/COCKPIT/WC_USEX_USER_PW_RESET`.

User Exit 931 – Get user data

Function module template

The function module template for User Exit 931 is `/COCKPIT/WC_USEX_USER_GET`.

User Exit 932 – Get user data

Work Cycle calls User Exit 932 before a user forwards a document or sends it to another processor using the Web Application, and uses the search help to select a processor.

The User Exit changes the display format of the names that the search returns, from **Last name, First name** to **First name, Last name**.

When you [create new users](#) in `/COCKPIT/WUM`, only the **Complete name** field exists, and Work Cycle does not enforce a format specification. This means that the format in the Web Application may differ from the format in the SAP GUI. You can use this User Exit to present all users' names in the same way.

 To have names display in the same way without using this User Exit, type names in `/COCKPIT/WUM2` in the format **Last name, First name**.

Function module template

The function module template for User Exit 932 is `/COCKPIT/WC_USEX_USER_GET2`.

User Exit 933 – Get approved documents

User Exit 933 enables a user to view another user's approved and rejected documents. This is helpful if the user has more than one user account in SAP.

The User Exit is called when the user clicks the **Workflow > Display releases (History)** menu item. If the User Exit is activated, Work Cycle displays all documents of the currently logged-in user and all documents of any other users configured in the User Exit or a user mapping table.

Function module template

The function module template for User Exit 933 is `/COCKPIT/WC_USEX_APPROVED_GET`.

User Exit 934 – Manipulate Work Cycle flow definition

User Exit 934 allows you to dynamically add a parallel step to a workflow.

Function module template

The function module template for User Exit 934 is `/COCKPIT/WC_USEX_GET_FLOW`.

User Exit 935 – Note check

Function module template

The function module template for User Exit 935 is `/COCKPIT/WC_USEX_NOTE_CHECK`.

User Exit 936 – List of possible substitutes

User Exit 936 allows you to limit the list of users that users can select when assigning substitutes.

Function module template

The function module template for User Exit 936 is `/COCKPIT/WC_USEX_SUBS_LIST`.

User Exit 938 – Reduce list of documents before WF recall

User Exit 938 allows you to limit the documents that users can be recall from workflow.

Function module template

The function module template for User Exit 938 is `/COCKPIT/WC_USEX_BEFORE_RECALL`.

User Exit 939 – Manipulate values for email aliases

User Exit 939 allows you to use custom email text variables in workflow emails. Work Cycle replaces text variables with the relevant text when it sends the email. See [Email templates](#) for more information.

Provide the URL for Process Director AP Work Cycle for SAP Fiori in this User Exit, if you are using it together with the Web Application.

Function module template

The function module template for User Exit 939 is `/COCKPIT/WC_USEX_REPLACE_ALIAS`.

User Exit 940 – Internet user's data processing before saving

After you create, modify or display a new Internet user in [/COCKPIT/WUM](#), User Exit 940 allows you to check if a corresponding SAP user exists. In case the SAP user exists, a workflow processor can be created, modified or displayed. If not, an error message and a request to create an SAP user are displayed or sent.

Function module template

The function module template for User Exit 940 is `/COCKPIT/WC_USEX_B4_WUM_SAVE`.

LDAP User Exit 1 – Assign LDAP attribute to Work Cycle user field

Function module template

The function module template for LDAP User Exit 1 is `/COCKPIT/WC_USEX_LDAPSIMPLEMAP`.

Search help User Exit – Search help for a field in the Web Application

Work Cycle calls the Search help User Exit when users search for a value in the Web Application.

The User Exit can override the search help configuration settings to influence the search behavior.

Function module template

The function module template for Search help User Exit is `/COCKPIT/WC_USEX_SHLP`.

Step User Exit 1 – Check step conditions

Step User Exit 1 allows you to control whether a workflow step should start (by raising the `NOT_VALID` exception).

In the workflow step settings in [/COCKPIT/WI3](#), you must select the User Exit in the **Check if the step can be started** field.

Function module template

The function module template for Step User Exit 1 is `/COCKPIT/WC_USEX_CONDITIONS`.

Step User Exit 2 – Determine processor of step

Step User Exit 2 allows you to determine the recipients of a workflow step.

Work Cycle transfers the recipients to the `ET_RECEIVER` table. In the workflow step settings in [/COCKPIT/WI3](#), you must select the User Exit in the **Define possible processors and parallel steps** field.

You can also use this User Exit to assign line items and accounting items to workflow processors. Use the `ET_ITM_RCVR` structure for this purpose.

Work Cycle calls the `/COCKPIT/WC_SET_GLOBALS_SET` function module before this User Exit, so you can use global workflow data by calling `/COCKPIT/WC_GET_GLOBALS`. For example, you can determine the recipient of a step from the approver of the previous step.

Function module template

The function module template for Step User Exit 2 is `/COCKPIT/WC_USEX_RECEIVERS`.

Step User Exit 3 – After an action is performed

Work Cycle calls Step User Exit 3 all process-related actions, such as saving or approving, from within the SAP GUI or the Web Application.

You should raise the `ERROR_OCCURED` exception if there is an interruption to the process.

In the workflow step settings in [/COCKPIT/WI3](#), you must select the User Exit in the **Logic after the step action has been performed** field.

Function module template

The function module template for Step User Exit 3 is `/COCKPIT/WC_USEX_CHECK_ACTION`.

Step User Exit 4 – After full release

Work Cycle calls Step User Exit 4 when users approve a workflow step.

You can use it to perform some post processing. Simply raising an exception here will not change the fact that the step is approved.

In the workflow step settings in [/COCKPIT/WI3](#), you must select the User Exit in the **Logic after the step has been released** field.

Function module template

The function module template for Step User Exit 4 is `/COCKPIT/WC_USEX_AFTER_EXEC`.

Step User Exit 5 – Check the recipient of the step

Step User Exit 5 checks the recipients of a workflow step.

In the workflow step settings in [/COCKPIT/WI3](#), you must select the User Exit in the **Check recipients of the step** field.

Function module template

The function module template for Step User Exit 5 is `/COCKPIT/WC_USEX_USER_CHECK`.

Other tasks

Copy a form to another client

You import forms as separate transports. You must import them into client 000 and then copy them to the target client.

1. Log on to the client to which you want to copy the form.
2. Go to the `SE71` transaction.
3. On the **Utilities** menu, click **Copy from Client**.
4. Type the **Form name**, **Source client** and **Target form**.
5. Click the **Execute**  button.

Support for other languages

Work Cycle is available in many languages.

To allow users to create workflow notes in Russian and Polish, you must install the following SAP notes.

- SAP note 322998 for Russian
- SAP note 141343 for Polish