

# PROCESS DIRECTOR

## Importing PROCESS DIRECTOR into SAP

Version: 7.3

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## Table of Contents

<b>Introduction .....</b>	<b>4</b>
Overview.....	4
The PROCESS DIRECTOR transports .....	4
Licensing.....	6
Web Application.....	6
Upgrading .....	6
<b>Import procedure .....</b>	<b>9</b>
1. Implementing prerequisite SAP Notes .....	9
2. Importing the transports .....	21
3. Reading the import log .....	26
4. Checking the namespace.....	26
5. After importing the transports.....	27
6. Installing licenses .....	28
<b>Importing and activating indexes for PD AP performance optimization.....</b>	<b>28</b>
Index types .....	29
Prerequisites.....	30
Deleting old indexes .....	31
Importing indexes into the development system .....	32
Activating indexes.....	32
Importing indexes into the test/QA and production systems.....	36
Space calculation .....	36
Authorizations.....	37
<b>Troubleshooting.....</b>	<b>38</b>
PROCESS DIRECTOR Accounts Payable .....	38
PROCESS DIRECTOR .....	39
<b>ReadSoft Support.....</b>	<b>41</b>

## Introduction

### Overview

This document explains how to import the PROCESS DIRECTOR transports into your SAP system. It contains important information about:

- [The PROCESS DIRECTOR transports](#): Which ones to use and the download location.
- [Tasks to perform when before upgrading from a previous version of PROCESS DIRECTOR/ INVOICE COCKPIT](#).
- [Tasks to perform before and after upgrading your SAP system](#).
- [Implementing prerequisite SAP Notes](#).
- [Importing the transport\(s\)](#).
- [Checking the necessary namespace\(s\)](#).
- [Required tasks after importing](#).
- [Troubleshooting information](#).
- [Who to contact for help](#).

### The PROCESS DIRECTOR transports

#### About

There are two PROCESS DIRECTOR transports:

Product	Transport	Description
PROCESS DIRECTOR Accounts Payable (formerly INVOICE COCKPIT Suite)	PD AP Transport	Contains the /COCKPIT/ namespace. Required for Accounts Payable.
PROCESS DIRECTOR	PD Transport	Contains the /EBY/ namespace. Required for all process types. For Accounts Payable, this transport is required <b>in addition</b> to the PD AP Transport.

#### Transports for different SAP versions

ReadSoft delivers SAP release version-dependent transports. Please confirm that you have received the relevant SAP transports for your SAP release.

**Note:** PROCESS DIRECTOR 7.3 does not support SAP version 4.6C.

## Contents

The transports contain the following processes and supplementary products:

Transport	Contents
PD AP Transport	PROCESS DIRECTOR Accounts Payable (formerly INVOICE COCKPIT) WORK CYCLE (SAP parts) (formerly WEB CYCLE) EDI COCKPIT ANALYZER WEB BOARD (SAP parts) MOBILE APPROVAL (SAP parts) INFO MAIL (SAP parts) REPORTER EXTRACTOR
PD Transport	Requisitions Order Confirmations Goods Receipts Payment Approvals Payment Advices Customer Orders Financial Postings Master Data: <ul style="list-style-type: none"> <li>• Customer</li> <li>• Vendor</li> <li>• Cost Center</li> <li>• Profit Center</li> <li>• GL Account</li> <li>• Asset</li> </ul> Asset Acquisition Asset Transfer Asset Retirement Electronic Bank Statements Generic Archiving

## Location

PROCESS DIRECTOR transports are available on the ReadSoft Lab – SAP Solutions SharePoint site (ReadSoft internal only). For Partners and Customers, please contact your local ReadSoft representative to place an order.

## Licensing

You must order a license from ReadSoft to activate PROCESS DIRECTOR. Each process type and supplementary product can only be used if a valid license is activated. The following ReadSoft guides explain how to install licenses:

- *PROCESS DIRECTOR 7.3 License Installation Guide*
- *PROCESS DIRECTOR 7.3 SAP Configuration Guide*
- *PROCESS DIRECTOR 7.3 Accounts Payable Configuration Guide*

## Web Application

When installing a new version of PROCESS DIRECTOR or a service pack, we strongly recommend that you also deploy the latest version of the Web Application with the latest patch.

**Note:** With PROCESS DIRECTOR 7.3 you must use the PROCESS DIRECTOR 7.3 Web Application. PROCESS DIRECTOR Accounts Payable 7.3 is an exception and does not require the 7.3 Web Application.

## Upgrading

This section lists the tasks that you need to perform when upgrading to PROCESS DIRECTOR from previous versions.

**Note:** PROCESS DIRECTOR and PROCESS DIRECTOR Accounts Payable can be upgraded independently of one another. Thus it is possible, for example, to remain with PROCESS DIRECTOR Accounts Payable 7.1 or 7.2, but upgrade other processes to 7.3, and vice versa. However, if you are using the PROCESS DIRECTOR Web Application (pdweb-app) instead of the WORK CYCLE Web Application (webcycle-app), we recommend upgrading to 7.3, independent of the PROCESS DIRECTOR Accounts Payable version.

## Upgrading PROCESS DIRECTOR Accounts Payable/INVOICE COCKPIT Suite

This section lists required tasks when upgrading from INVOICE COCKPIT Suite 3.2, PROCESS DIRECTOR Accounts Payable 7.1 or PROCESS DIRECTOR Accounts Payable 7.2. For information on prerequisite tasks for upgrading from earlier versions of INVOICE COCKPIT Suite, please contact [ReadSoft SAP Lab Support](#).

Perform these tasks **immediately after** importing the transports:

- In PROCESS DIRECTOR 7.2, the search help for Web Application (WUM) users was extended to enable searching by email address. In order that this search works for users created in versions of PROCESS DIRECTOR prior to 7.2, you must run the report /COCKPIT/XPRA\_V720\_SP0. This report is also required in order that the user-type independent search help on workflow start functions correctly.
- You must also implement EMEIC2203 and EMEIC2204, which resolve other issues with WUM users.
- You must implement EMEIC2547, which corrects an error that causes PROCESS DIRECTOR to ignore User Exit customizing after upgrading to version 7.3.

## Upgrading PROCESS DIRECTOR

This section lists required tasks when upgrading from a previous version of PROCESS DIRECTOR.

Perform these tasks **immediately after** importing the transports:

- The customization of processes changed slightly in PROCESS DIRECTOR 7.2, with the result that some customizations are obsolete and must be removed. If you use a version of PROCESS DIRECTOR prior to 7.2 and have customized PROCESS DIRECTOR processes, checks or determinations, you should run the consistency check program /EBY/PDB0\_CHECK\_CUST\_PROCESS. This program lists all obsolete customizing entries that must be removed.

The screenshot shows a window titled "PROCESS DIRECTOR - Check Customer Process Configuration". It contains a table with the following columns: Except..., Object, Env., Action, Event, Event type, Suborder, Event class, Deact., and Developer's or Consultant's comment. The table lists several entries, all marked as obsolete with a red 'X' icon in the 'Except...' column. The entries include:

Except...	Object	Env.	Action	Event	Event type	Suborder	Event class	Deact.	Developer's or Consultant's comment
X	S0		CHECKM	CHK_BSET_STATE	8	1	ZEBY/CL_DEMO_EVT_SUBSTATE_SET		
X	S0		CHECKM	DET	5	1000	/EBY/CL_PDSO_DET_SORG_INIT		*** GENERATED by determination configuration ***
X	S0		CHECKM	DET	5	1001	/EBY/CL_PDSO_DET_SORG_SP		*** GENERATED by determination configuration ***
X	S0		CHECKM	DET	5	2000	/EBY/CL_PDSO_DET_PLANT_INIT		*** GENERATED by determination configuration ***
X	S0		CHECKM	DET	5	2001	/EBY/CL_PDSO_DET_PLANT_MAT		*** GENERATED by determination configuration ***
X	S0		CHECKM	CHK	5	1	/EBY/CL_PDSO_EVT_CHK_CREATE		*** GENERATED by check configuration ***
X	S0		CHECKM	CHK	5	2	/EBY/CL_PDSO_EVT_CHK_TEXTS		*** GENERATED by check configuration ***
X	S0		CHECKM	CHK	5	3	/EBY/CL_PDSO_EVT_CHK_ITEMS		*** GENERATED by check configuration ***
X	S0		CHECKM	CHK	5	4	/EBY/CL_PDSO_EVT_CHK_HDRNETVAL		*** GENERATED by check configuration ***

Program /EBY/PDB0\_CHECK\_CUST\_PROCESS lists obsolete customizing entries

Remove the entries in the appropriate IMG configuration activity. For example, to remove obsolete determination entries, go to **Initial settings > Rules > Determinations** and delete the entries.

The screenshot shows a window titled "Determination selection". It contains a table with the following columns: Inte..., Envi..., Determination ID, Action, Action, Sub..., and Determination description. The table lists several entries, with one entry highlighted in yellow:

Inte...	Envi...	Determination ID	Action	Action	Sub...	Determination description
		/EBY/CL_PDSO_DET_SORG_INIT	CHECK	Check document	1	Sales Order sales organization determination
		/EBY/CL_PDSO_DET_PLANT_INIT	CHECK		2	Sales Order Plant determination
		/EBY/CL_PDSO_DET_SORG_INIT	CHECKM	Check document(s)	1	Sales Order sales organization determination
		/EBY/CL_PDSO_DET_PLANT_INIT	CHECKM		2	Sales Order Plant determination
		/EBY/CL_PDSO_DET_CONTACT_INIT	REFE?	Initial processing	1	Sales Order Contact determination

- With PROCESS DIRECTOR 7.2 Service Pack 3 and 7.3 Service Pack 1, the workflow start action was modified to allow bulk workflow start with manual assignment. If custom checks or actions have been configured for workflow start, these must be redefined on upgrading. In most cases, this involves replacing the action WCSTRT10CHECK\_DOC with WCSTART10CHECK\_DOC\_ and the WCSTART0CHECK\_OWNER action with WCSTART0CHECK\_OWNER\_. Refer to RSPDN3026 for more information and detailed instructions.

## Upgrading SAP

### Before upgrading SAP

For PROCESS DIRECTOR 7.3 and PROCESS DIRECTOR Accounts Payable 7.3, there are no prerequisite tasks that need to be performed in relation to an SAP system upgrade or Enhancement Pack (EhP) installation.

### After upgrading SAP

After upgrading an SAP installation, perform these tasks in order to ensure the continued smooth running of PROCESS DIRECTOR.

- Upgrade PROCESS DIRECTOR

ReadSoft strongly recommends upgrading to the latest version of PROCESS DIRECTOR after upgrading an SAP installation. Upgrading PROCESS DIRECTOR will ensure that all functionality will work properly in the new SAP environment. In particular, when you upgrade from a non-Unicode to a Unicode system, you must upgrade PROCESS DIRECTOR, otherwise customizing views cannot be displayed.

- Check license validity

If the SAP installation number and system ID remain the same after the upgrade, the PROCESS DIRECTOR licenses will work as before and no further action is required.

You need new licenses from ReadSoft when:

- The SAP installation number and/or system ID changes, or
- The SAP system has been upgraded from 4.6C or earlier.

- Review customer-specific customizations

All User Exits and BAdIs must be reviewed and tested to confirm they work correctly with the new version of SAP. Their compatibility with Unicode must also be checked. If upgrading to a new version of PROCESS DIRECTOR as well (recommended), this review should form part of the migration plan.

- Implement relevant SAP notes and ReadSoft hotfixes. Please review these chapters:

The [Implementing prerequisite SAP Notes](#) chapter, on page 9, contains details of relevant SAP notes. The [Troubleshooting](#) chapter contains fixes for various issues that may arise when installing PROCESS DIRECTOR.

## Import procedure

**Important:** Before importing the PROCESS DIRECTOR transport requests, ensure that the prerequisite SAP notes are implemented in your system. Also, check the Upgrading chapter for tasks that you may need to perform before importing.

### 1. Implementing prerequisite SAP Notes

- [Required notes](#) must be applied, otherwise the system may not run.
- [Recommended notes](#) are not necessary for the system to run, but fix certain minor bugs or enable feature enhancements.

#### Required SAP notes

[Required notes for all process types](#)

[Required notes for Accounts Payable](#)

[Required notes for Customer Orders](#)

[Required notes for Financial Postings](#)

[Required notes for Master Data Maintenance](#)

[Required notes for Requisitions](#)

#### All processes: Required notes

SAP Note #	Issue addressed	Comments	Affected SAP releases
<a href="#">930742</a>	The PROCESS DIRECTOR Worklist configuration transaction uses the new ABAP editor control element (AB4 control).		<b>SAP_BASIS 620-640</b> Fixed with SAPKB62060 SAPKB64018
<a href="#">1078450</a>	When using the HTML viewer, any CR/LF characters coming from a <textarea> are converted to simple hash signs.		Only <b>SAP_BASIS 620</b> Fixed with SAPKB62063

SAP Note #	Issue addressed	Comments	Affected SAP releases
1243840	In the dynamic selection screen of the PROCESS DIRECTOR Worklist, selection screen fields with conversion exit (for example, /EBY/PDBO_THDR- NUMBR with NUMC1) result in an error message regarding lower value greater if single value is used.	Only required if the selection screen is configured.	<b>SAP_BASIS 620-640 700-702 and 710-711</b> Fixed with SAPKB62066 SAPKB64023 SAPKB70018 SAPKB70103 SAPKB70204 SAPKB71007 SAPKB71101
167229	Short dump DYNPRO_READ_FAILED When you load or generate certain screens, terminations occur.	Adjust profile parameter ztta/dynpro_area	<b>All versions</b>
712177	Error when <b>Save</b> button is clicked to save a new document in the Web Application.  Error message: Data objects in a Unicode program are not convertible.  Short dump UC_OBJECTS_NOT_CONVERTIBLE - -> Termination occurred in the program "SAPLV56A" in "READ_TABLE_BUFFERED",		<b>Release 470</b>  Fixed with SAPKH47021
1539662	The FM ARCHIV_CONNECTION_INSERT terminates with a program error.  Without this note, the RFC transfer function module is likely to terminate during execution.		<b>Required in ECC 6.0 Systems</b> Fixed with SAPKB70026 SAPKB70110 SAPKB70209 SAPKB71013 SAPKB71108 SAPKB72006 SAPKB73004 SAPKB73102

SAP Note #	Issue addressed	Comments	Affected SAP releases
869218	<p>Import error " Program /EBY/CL_ICIV_DAO===== CP, Include /EBY/CL_USER_MANAGER===== ==CU: Syntax error in line 000150</p> <p>The type 'XUPWDSTATE' is unknown."</p>	Required for 4.6C customers with a low BASIS SP level.	<p><b>SAP_BASIS</b></p> <p>46C SAPKB46C52</p> <p>46D SAPKB46D43</p> <p>610 SAPKB61046</p> <p>620 SAPKB62058</p> <p>640 SAPKB64016</p> <p>700 SAPKB70006</p>

### Accounts Payable: Required notes

SAP Note #	Issue addressed	Comments	Affected SAP releases
1647756	<p>FB60 - Tax on "Basic data" tab page without specifying tax code.</p> <p>In transaction FB60, if the manual tax amount is specified on the "Basic data" tab page without a tax code being entered, the system does not display the amount when you branch to the tax tab page.</p> <p>This causes balance problems (balance is not equal to zero) and the document cannot be posted.</p>		<p><b>SAP_APPL 46C-606</b></p> <p>Fixed with</p> <p>SAPKH46C64</p> <p>SAPKH47037</p> <p>SAPKH50026</p> <p>SAPKH60021</p> <p>SAPKH60211</p> <p>SAPKH60310</p> <p>SAPKH60411</p> <p>SAPKH60507</p> <p>SAPKH60602</p>
1666591	<p>FB60/MIRO – Setting tax on the "Basic data" tab page to not 0.</p> <p>If you do not specify a posting amount for the vendor on the "Basic data" tab page, a tax amount that was entered (or, for example, the tax from the entry from the "Tax" tab page) is set to zero if there is only one tax code.</p> <p>However, the balance is not adjusted. The error does not occur for several tax codes in the expense items because the tax amount is hidden on the "Basic data" tab page.</p>		<p><b>SAP_APPL 46C-606</b></p> <p>Fixed with</p> <p>SAPKH46C64</p> <p>SAPKH47038</p> <p>SAPKH50027</p> <p>SAPKH60022</p> <p>SAPKH60211</p> <p>SAPKH60310</p> <p>SAPKH60411</p> <p>SAPKH60508</p> <p>SAPKH60602</p>

SAP Note #	Issue addressed	Comments	Affected SAP releases
1881279	<p>MM item proposal returns the wrong quantity if the purchase order numbers are not sorted in ascending order.</p>	<p>Only required if SAP Note <a href="#">1821383</a> "MIRO/MIGO: wrong values proposed for amount and quantity" has been implemented.</p>	<p><b>SAP_APPL 470-616</b>            470 SAPKH47040            500 SAPKH50029            600 SAPKH60024            602 SAPKH60214            603 SAPKH60313            604 SAPKH60414            605 SAPKH60511            617 SAPKH61702            606 SAPKH60609            616 SAPKH61604</p>
1605537	<p>No BI data for SAPLKACB 0002</p> <p>You have activated General Ledger Accounting (new) and, in the current company code, document splitting. In this case, Note 1137272 provides a coding block on the tax screen SAPMF05A 0312 to enable you to enter split-relevant fields. A batch input session for transaction FB01, in which these fields are not filled, hangs with message 00 344 "No batch input data for screen SAPLKACB 0002".</p>	<p>Only required if SAP Note <a href="#">1137272</a> has been implemented.</p>	<p><b>SAP_APPL 500-606</b>            500 SAPKH50026            600 SAPKH60020            602 SAPKH60210            603 SAPKH60309            604 SAPKH60410            605 SAPKH60506            606 SAPKH60601</p>
1327973	<p>FB01/Argentina: BSEG-BUPLA not ready for input.</p>	<p>For Argentina only.            Required for the Business Place field.</p>	<p><b>SAP_APPL 470-604</b>            470 SAPKH47032            500 SAPKH50021            600 SAPKH60016            602 SAPKH 60206            603 SAPKH 60305            604 SAPKH 60404</p>

### Customer Orders: Required notes

SAP Note #	Issue addressed	Comments	Affected SAP releases
<a href="#">849063</a>	<p>Error DB 878 with multiple call of BAPI_CUSTMATINFO_GETLIST</p> <p>You are using material determination "by customer material no."</p> <p>If you call the BAPI_CUSTMATINFO_GETLIST BAPI several times within a roll area, you receive the error message DB 878 "Error while processing logical database KIV."</p>	<p>Only required if customer material info conditions are maintained.</p>	<p><b>SAP_APPL 46C-500</b></p> <p>Fixed with</p> <p>SAPKH46C51</p> <p>SAPKH47025</p> <p>SAPKH50009</p>
<a href="#">610463</a>	<p>Transfer of the field 'material entered' from CRM --&gt; R/3</p> <p>Field MAT_ENTRD not available in structure BAPISDITM</p>		<p><b>SAP_APPL 46C-470</b></p> <p>Fixed with</p> <p>SAPKH6C44</p> <p>SAPKH47010</p>
<a href="#">1761277</a>	<p>Missing profitability segments since EPH5 or SAP Note <a href="#">12877794</a>.</p> <p>During sales order creation check several short dumps are generated at the same time:</p> <p>CALL_FUNCTION_NOT_REMOTE SAPLKED1_WRITE_CE4_IDEA MESSAGE_TYPE_X SAPMSSY0 MESSAGE_TYPE_X RK2AIDEA_POST</p> <p><b>Caution:</b> You have to perform this manual post-implementation step manually and separately in each system after you have imported the Note to implement.</p> <p>Immediately after you implement the source code corrections, execute the functionmodule RKE_GENERATE_UPD for the operating concern that you use.</p>	<p>Only required if these short dumps are generated.</p>	<p><b>SAP_APPL 605-616</b></p> <p>Fixed with</p> <p>SAPKH60510</p> <p>SAPKH60512</p> <p>SAPKH60607</p> <p>SAPKH60611</p> <p>SAPKH61602</p> <p>SAPKH61606</p> <p>SAP_FIN 617-700</p> <p>Fixed with</p> <p>SAPK-61704INSAPFIN</p> <p>SAPK-70001INSAPFIN</p>

### Financial Postings: Required notes

SAP Note #	Issue addressed	Comments	Affected SAP releases
<a href="#">424374</a>	PI 2001.1 is required for FS-AM general ledger connection.		<b>SAP_APPL 46C</b>
<a href="#">1605537</a>	<p>No BI data for SAPLKACB 0002</p> <p>You have activated General Ledger Accounting (new) and, in the current company code, document splitting. In this case, Note 1137272 provides a coding block on the tax screen SAPMF05A 0312 to enable you to enter split-relevant fields. A batch input session for transaction FB01, in which these fields are not filled, hangs with message 00 344 "No batch input data for screen SAPLKACB 0002".</p>	Only require if SAP Note <a href="#">1137272</a> has been implemented.	<b>SAP_APPL 500-606</b> 500 SAPKH50026 600 SAPKH60020 602 SAPKH60210 603 SAPKH60309 604 SAPKH60410 605 SAPKH60506 606 SAPKH60601

### Master data maintenance: Required notes

SAP Note #	Issue addressed	Comments	Affected SAP releases
<a href="#">735076</a>	When asset master data is deleted in PROCESS DIRECTOR, the asset is not deleted, but no error message is displayed.		<b>SAP_APPL 46C-470</b> Fixed with SAPKH6C48 SAPKH47021
<a href="#">1537561</a>	When asset master data is deleted in PROCESS DIRECTOR, the asset is not deleted, but no error message is displayed.		<b>SAP_APPL 604-605</b> And Note <a href="#">1455659</a> Fixed with SAPKH60409 SAPKH60504

SAP Note #	Issue addressed	Comments	Affected SAP releases
<a href="#">1706458</a>	Error message AA592 "Depreciation key has fewer depreciation types than previously valid key" during post/check.		<b>SAP_APPL 600-616</b> And Note <a href="#">1491266</a> Fixed with SAPKH60024 SAPKH60214 SAPKH60312 SAPKH60413 SAPKH60510 SAPKH60607 SAPKH61602
<a href="#">1578624</a> <a href="#">1574641</a>	In ECC 6.00, during profit center deletion there is an error message "Profit centers are used in new General Ledger Accounting" (FAGL_LEDGER_CUST155).		<b>SAP_APPL 600-605</b> Fixed with SAPKH60020 SAPKH60210 SAPKH60309 SAPKH60410 SAPKH60505
<a href="#">1770717</a>	After implementing OSS note 1754448 (Incorrect bank data can be copied), bank data with partner type (BVTYP) is not correctly updated and there is no error message.	Only required if SAP Note <a href="#">1754448</a> has been implemented.	<b>SAP_APPL 600-616</b> Fixed with SAPKH60023 SAPKH60213 SAPKH60312 SAPKH60413 SAPKH60510 SAPKH60606 SAPKH61601

Requisitions: Required notes

SAP Note #	Issue addressed	Comments	Affected SAP releases
<a href="#">1160754</a>	Update termination with K_OPEN_ITEM_POST when BAPI is called in simulation mode several times.  Short dump K_OPEN_ITEM_POST.		<b>SAP_APPL 470-604</b>  Fixed with SAPKH47033 SAPKH50022 SAPKH60016 SAPKH60206 SAPKH60305 SAPKH60404
<a href="#">305785</a>	Recheck an already checked 'OK' document in display mode.  Error: Update termination module K_OPEN_ITEM_POST.  Short dump RAISE_EXCEPTION --> Exception condition "TEMP_REFBN_COOL" raised.	Only required if SAP Note <a href="#">100409</a> has been implemented.	<b>All versions</b>
<a href="#">891356</a>	Change mode: A change to an already checked OK document (for example, remove doc type) leads to a short dump RAISE_EXCEPTION -> Exception condition "FAILURE" raised in CL_HANDLE_MANAGER_MM METHOD get.		<b>SAP_APPL 470-600</b>  Fixed with SAPKH47026 SAPKH50012 SAPKH60003
<a href="#">485557</a>	BAPI_REQUISITION_CREATE: 'EXTENSIONIN' customer enhancements  Structure BAPI_TE_REQUISITION_ITEM, which is used in PROCESS DIRECTOR, is not available in low support package level systems.	Only required if Purchase Requisition Enhancement structures are needed in the project.	<b>SAP_APPL 46C</b>  Fixed with SAPKH46C37
<a href="#">593366</a>	BAAdI in EnjoySAP of PO BAPIs in connection with SRM.  A lot of table type definitions are missing, for example, BAPIMEPOITEM_TP.		<b>SAP_APPL 46C-470</b>  Fixed with SAPKH46C42 SAPKH47008

SAP Note #	Issue addressed	Comments	Affected SAP releases
<a href="#">394058</a>	<p>BAPI_REQUISITION and Commit Work.</p> <p>According to the general design guidelines, a Commit Work must not be triggered in the BAPI itself. However, this is not the case for BAPI_REQUISITION_DELETE, BAPI_REQUISITION_CREATE, BAPI_REQUISITION_CHANGE and other purchase requisition BAPIs.</p> <p>For upward compatibility reasons, this design error cannot be corrected. Therefore, we provide a consulting note containing a correction that you can use in specific cases.</p>	<p>Only required if requisitions will be created in SAP. Not required if only purchase orders will be created in SAP.</p>	<p><b>All versions</b></p>
<a href="#">856741</a>	<p>OCI catalog popup support in SAP GUI.</p> <p>Link in HTML Viewer displays 'HTTP 500 Internal Server Error'.</p>	<p>Only required if using OCI catalogs.</p>	<p><b>SAP_BASIS 620-700</b></p> <p>Fixed with</p> <p>SAPKB62055</p> <p>SAPKB64014</p> <p>SAPKB70004</p>

## Recommended SAP notes

[Recommended notes for all process types](#)

[Recommended notes for Accounts Payable](#)

[Recommended notes for Asset Management](#)

[Recommended notes for Customer Orders](#)

[Recommended notes for Financial Postings](#)

[Recommended notes for Master Data Maintenance](#)

[Recommended notes for Requisitions](#)

All processes: Recommended notes

SAP Note #	Issue addressed	Comments	Affected SAP releases
1451769 1560955	Required to enable file descriptions for attachments (only available from ECC600).	Both notes must be implemented and in transaction OAG1 the <b>Save File Attribute</b> flag must be set.	<b>SAP_BASIS 700-731</b>  Fixed with SAPKB70028 SAPKB70113 SAPKB70213 SAPKB73009 SAPKB73106 SAP_BASIS 700-702  Fixed with SAPKB70024 SAPKB70109 SAPKB70208

Accounts Payable: Recommended notes

SAP Note #	Issue addressed	Comments	Affected SAP releases
591415	Error message M8 607 when posting MM invoice with planned delivery costs.		<b>SAPAPPL 46C-470</b>  Fixed with SAPKH46C43 SAPKH47008
1650443	Use of <b>Perform</b> or <b>Post</b> function creates short dump with error CALL_TRANSACTION_USING_NESTED		Check Kernel version according to the list in SAP note

Asset Management: Recommended notes

SAP Note #	Issue addressed	Comments	Affected SAP releases
1569937	Error message no. B1537 during posting/checking:  BAPIACAM1X_MAX_DE-WAERS initial v., currency amount & in & was transferred without a currency.		<b>SAP_APPL 600-605</b>  Fixed with SAPKGPFD20 SAPK-60309INEAFINSRV SAPK-60410INEAFINSRV SAPK-60505INEAFINSRV

Customer Orders: Recommended notes

SAP Note #	Issue addressed	Comments	Affected SAP releases
<a href="#">581577</a>	<p>Additional tables for SD_SALESDOCUMENT_XX function modules</p> <p>No header status, no partners and no texts are returned from BAPI SALESDOCUMENT_CREATE 4.7 &lt; SAPKH47007</p>		<p><b>SAP_APPL 470</b></p> <p>Fixed with SAPKH47007</p>
<a href="#">699533</a>	<p>No message from BAPI SALESDOCUMENT_CREATE if the credit limit is exhausted</p>	<p>Only required if EA-RETAIL is used</p>	<p><b>EA-RETAIL 110 and 200</b></p> <p>Fixed with SAPKGPR17 SAPKGPRB06</p>

Financial Postings: Recommended notes

SAP Note #	Issue addressed	Comments	Affected SAP releases
<a href="#">849676</a>	<p>FB05, FB01: Window size is changed</p> <p>When you postprocess an account statement (Transaction FEBA) the FB01 or FB05 posting transactions are called. When you do this, the program may downsize the window size.</p> <p>As a result, you may have to scroll up or down to display some of the posting dates.</p> <p>The same symptom may also occur in other transactions (for example IDOC), if these call the posting transaction using the FI interface (program SAPLFIPI).</p> <p>The error does not occur when you call the posting Transactions FB01 or FB05.</p>		<p><b>SAP_APPL 46B-500</b></p> <p>Fixed with SAPKH46B59 SAPKH46C51 SAPKH47025 SAPKH50009</p>

SAP Note #	Issue addressed	Comments	Affected SAP releases
	You want the window size to be variable.		
<a href="#">1486149</a>	Short dump during FI/FIC reversal due to missing function module "GM_DOCUMENT_REVERSE".	Prerequisite is Note <a href="#">1608790</a>	<b>SAP_APPL 500-606</b> 600 SAPKH60019 602 SAPKH60208 603 SAPKH60307 604 SAPKH60408 605 SAPKH60502

### Master data maintenance: Recommended notes

SAP Note #	Issue addressed	Comments	Affected SAP releases
<a href="#">845004</a>	Language support when editing cost centers with BAPIs.  When you use BAPIs to edit cost center texts and cost center group texts, no support is available that enables you to limit the texts to be edited in a particular language. You can edit the descriptions in the logon language only.		<b>SAP_APPL 46C-500</b> Fixed with SAPKH46C51 SAPKH47025 SAPKH50009
<a href="#">702974</a>	Various problems in asset master maintenance.		<b>SAP_APPL 46C-500</b> Fixed with SAPKH46C49 SAPKH47023 SAPKH50006

### Requisitions: Recommended notes

SAP Note #	Issue addressed	Comments	Affected SAP releases
<a href="#">1008717</a>	OCI catalog: Checkout in SAPGUI  Only partial data is transferred back to PROCESS DIRECTOR from the OCI catalog.	Only required if using an OCI catalog.	<b>SAP_BASIS 620-700</b> Fixed with SAPKB62062 SAPKB64020 SAPKB70011

SAP Note #	Issue addressed	Comments	Affected SAP releases
<a href="#">1355577</a>	BAPI_PO_CREATE1: Runtime problems when calling RTTS  Performance problems occur when you call BAPI_PO_CREATE1 and/or BAPI_PO_CHANGE.  ECC 600 Ehp4		<b>SAP_APPL 604</b>  Fixed with SAPKH60404
<a href="#">1108045</a>	Performance improvement for archiving object MM_EBAN		<b>SAP_APPL 470-603</b>  Fixed with SAPKH47030 SAPKH50019 SAPKH60012 SAPKH60202 SAPKH60301

## 2. Importing the transports

**Note:** Before importing, make sure you have implemented the [prerequisite SAP Notes](#) and checked the [Upgrading](#) chapter for tasks that you may need to perform before importing.

**Warning:** Import the transports one at a time. If a return code greater than 4 is returned after importing a transport, do not import any further transport requests! Contact [ReadSoft Support](#) for assistance and provide details of the return code.

The import can be done into any client.

**Note:** In systems with Enhancement Pack 5 and later, you may get the error message “*n of n requests do not match the component version of the target system*” when trying to import the PROCESS DIRECTOR transports, and the import cannot be carried out. If this happens, activate the **Ignore Invalid Component Version** import option. See SAP Note [1742547](#) for more information.

**Import Transport Request**

Transport Request:  DTZRS\_BASIS\_CHECK\_BEFORE\_RELEA

Target System:  QA PD(AP) 7.4 - ERP 6.0 EhP5

Target Client:  Targ.Client=Source Client

Options:

- Leave Transport Request in Queue for Later Import
- Import Transport Request Again
- Overwrite Originals
- Overwrite Objects in Unconfirmed Repairs
- Ignore Non-Permitted Transport Type
- Ignore Non-Permitted Table Class
- Ignore Predecessor Relations
- Ignore Invalid Component Version

To import the transports:

1. Extract the ZIP file in the SAP transport folder (. . . \TRANS\).
2. The transport files are already in the correct COFILES and DATA subfolders.  
If it is not possible to extract the transport files directly into the SAP transport folders (for example, because there is no direct access to the file system on the SAP application server), you have to use a binary method to transfer the files (for example, FTP). See OSS note 2050.
3. Start SAP transaction STMS (or use the command line using the TP program).
4. Open the import queue of the SAP system.
5. Go to **Extras > Other requests > Add**.
6. Add the required transport requests one by one to the import queue in the order listed below.

**Warning:** Import the transports one at a time. If a return code greater than 4 is returned after importing a transport, do not import any further transport requests! Contact [ReadSoft Support](#) for assistance and provide details of the return code.

If you get other import errors, see the [Reading the import log](#) and [Troubleshooting](#) sections.

**Note:** ReadSoft delivers SAP release version-dependent transports. The following sections use generic file names where applicable, for example, *READSOFT\_INVOICE\_COCKPIT\_Create\_Indexes\_\*.zip*, whereby the \* represents the SAP version. Import the relevant transport for your SAP release; for example, for SAP version ERP 2005 / ECC 6.0, import the transport *READSOFT\_INVOICE\_COCKPIT\_Create\_Indexes\_ERP\_6\_0\_.zip*; for R/3 4.7, import *READSOFT\_INVOICE\_COCKPIT\_Create\_Indexes\_R\_3\_4\_70\_.zip*.

## Service Packs

Please note that when importing service packs you only need to import the most recent service pack. Later service packs always include previous service packs. So, for example, if you want to upgrade to Service Pack 3, you do not need to import Service Packs 1 and 2 first, as these are included in Service Pack 3.

Service packs do not, however, include the main transport. You must always import the main transport before importing a service pack.

## PROCESS DIRECTOR Accounts Payable

### New installation

**Warning:** Import the transports one at a time. If a return code greater than 4 is returned after importing a transport, do not import any further transport requests! Contact [ReadSoft Support](#) for assistance and provide details of the return code.

Import order	Transport
1	READSOFT_PROCESS_DIRECTOR_AP_7_3*.zip This is the main transport for Accounts Payable.
2	READSOFT_INVOICE_COCKPIT_Create_Indexes_*.zip This transport creates the indexes required for PROCESS DIRECTOR Accounts Payable. Indexes must be activated after import. See <a href="#">Importing and activating indexes</a> for instructions.
3	READSOFT_PROCESS_DIRECTOR_AP_7.3_SP2_R_3_4.6C_4.7_5.0_6.0_UC_S47K906380.zip This is the Service Pack 2 transport for Accounts Payable.
4	READSOFT_PROCESS_DIRECTOR_Namespace_EBY.zip This transport creates the /EBY/ namespace. <a href="#">Make sure that the namespace is activated</a> after importing.
5	READSOFT_PROCESS DIRECTOR 7.3 * .zip This transport provides components for the integration of Accounts Payable in PROCESS DIRECTOR and use of the PROCESS DIRECTOR Web Application, as well as other process types.

**Note:** If additional components are used (for example, Business Solution Package, Data Import), these should be imported after all other transports.

## Upgrade

Check the [Upgrading](#) chapter first for tasks that you may need to perform before or after importing.

**Warning:** Import the transports one at a time. If a return code greater than 4 is returned after importing a transport, do not import any further transport requests! Contact [ReadSoft Support](#) for assistance and provide details of the return code.

Import order	Transport	Optional
1	<p><i>READSOFT_INVOICE_COCKPIT_Delete_Legacy_Indexes_*.zip</i></p> <p>This transport deletes old indexes. This can also be done manually. See <a href="#">Importing and activating indexes</a> for more information.</p> <p><b>Note:</b> This is not necessary if it has already been done.</p>	
2	<p><i>READSOFT_PROCESS_DIRECTOR_AP_7_3*.zip</i></p> <p>This is the main transport for Accounts Payable.</p>	
3	<p><i>READSOFT_INVOICE_COCKPIT_Create_Indexes_*.zip</i></p> <p>This transport creates the indexes required for PROCESS DIRECTOR Accounts Payable. Indexes must be activated after import. See <a href="#">Importing and activating indexes</a> for instructions.</p> <p><b>Note:</b> This is not necessary if it has already been done.</p>	
4	<p><i>READSOFT_PROCESS_DIRECTOR_AP_7.3_SP2_R_3_4.6C_4.7_5.0_6.0_UC_S47K906380.zip</i></p> <p>This is the Service Pack 2 transport for Accounts Payable.</p>	
5	<p><i>READSOFT_PROCESS_DIRECTOR_Namespace_EBY.zip</i></p> <p>This transport creates the /EBY/ namespace.</p> <p><a href="#">Make sure that the namespace is activated</a> after importing.</p>	X
6	<p><i>READSOFT_PROCESS_DIRECTOR_7.3_*.zip</i></p> <p>This transport provides components for the integration of Accounts Payable in PROCESS DIRECTOR and use of the PROCESS DIRECTOR Web Application, as well as other process types.</p>	X

## PROCESS DIRECTOR

### New installation or upgrade

Check the [Upgrading](#) chapter first for tasks that you may need to perform before or after importing.

**Important:** For SAP versions 4.7 and ECC5, the SAP Support Package levels SAPKB62059, SAPKB62060 or SAPKB64018 are required (see SAP Note [930742](#)). Importing PROCESS DIRECTOR in a 4.7/ECC5 system with a lower SP level will result in an import error.

**Warning:** Import the transports one at a time. If a return code greater than 4 is returned after importing a transport, do not import any further transport requests! Contact [ReadSoft Support](#) for assistance and provide details of the return code.

Import order	Transport
1	<i>READSOFT_PROCESS_DIRECTOR_AP_7_3*.zip</i> This is the main transport for Accounts Payable. This transport is required even if you do not use PROCESS DIRECTOR Accounts Payable. If you already have a version of PROCESS DIRECTOR Accounts Payable or INVOICE COCKPIT Suite installed, you can skip this transport.
2	<i>READSOFT_PROCESS_DIRECTOR_AP_7.3_SP2_R_3_4.6C_4.7_5.0_6.0_UC_S47K906380.zip</i> This is the Service Pack 2 transport for Accounts Payable. If you already have a version of PROCESS DIRECTOR Accounts Payable or INVOICE COCKPIT Suite installed, you can skip this transport.
3	<i>READSOFT_PROCESS_DIRECTOR_Namespace_EBY_.zip</i>
4	<i>READSOFT_PROCESS DIRECTOR 7.3*.zip</i> This is the main transport for PROCESS DIRECTOR.
5	<i>READSOFT_PROCESS_DIRECTOR_7.3_SP2_R_3_4.7_5.0_6.0_UC_S47K906387.zip</i> This is the Service Pack 2 transport for PROCESS DIRECTOR.

### Languages

The languages listed in the document *PROCESS DIRECTOR 7.3 Product availability and GUI Languages* are delivered with PROCESS DIRECTOR 7.3.

If a language is required that is not available in the standard delivery, please contact ReadSoft Support.

### 3. Reading the import log

A warning will be issued (return code 4) during the import. This is caused by using a namespace (/EBY/ or /COCKPIT/). This warning can be ignored.

**Important:** If you get a return code greater than 4, do not import any further transport requests! Contact [ReadSoft Support](#) for assistance and provide details of the return code.

**Note:** Even if errors or aborts occur during the import, this has no adverse effect on your SAP system!

See the [Troubleshooting](#) section for other information on other import errors.

### 4. Checking the namespace

The namespace should have already been created and activated, but we recommend that you check these settings.

1. Start SAP transaction SE03.
2. In the **Administration** folder, double-click **Display/Change Namespaces** and then the **Execute** button.
3. The namespace(s) should be defined as follows:

**Note:** The /COCKPIT/ namespace is only required for Accounts Payable.

<b>Namespace</b>	/COCKPIT/
<b>Namespace role</b>	C - Recipient
<b>Correction license</b>	13375972671823267744
<b>Short text</b>	PROCESS DIRECTOR - ReadSoft AG - Germany, Frankfurt/M
<b>Owner</b>	ReadSoft AG

<b>Namespace</b>	/EBY/
<b>Namespace role</b>	C - Recipient
<b>Correction license</b>	05790374410114137903
<b>Short text</b>	PROCESS DIRECTOR - ReadSoft AG - Germany, Frankfurt/M
<b>Owner</b>	ReadSoft AG

## 5. After importing the transports

After importing the transports, execute the SAP load generator (transaction SGEN)

### Executing the load generator

1. Go to SGEN.
2. Select **Generate the objects of a transport request** and click **Continue**.
3. Select the PROCESS DIRECTOR transport request.
4. Click the **Execute** button .

### Setting the buffer size

1. Go to RZ11.
2. Enter the parameter **abap/buffersize** and click **Display**.
3. We recommend a value of 400000 or higher. Ask the SAP system administrator to increase the value, if necessary. This requires a restart of the SAP system.

<b>Display Profile Parameter Attributes</b>	
 Documentation	
Param. Name	
abap/buffersize	
Short description(Engl)	Program Buffer Size
Appl. area	ABAP 
ParameterTyp	Integer value 
Changes allowed	Change permitted 
Valid for oper. system	All operating systems 
Minimum	0
Maximum	0
DynamicallySwitchable	<input type="checkbox"/>
Same on all servers	<input type="checkbox"/>
Dflt value	300000
ProfileVal	400000
Current value	400000

## 6. Installing licenses

Install the received licenses, which have been supplied as text files:

- For Accounts Payable and its [supplementary products](#) in transaction /COCKPIT/C46.
- For other PROCESS DIRECTOR [processes](#) in transaction /EBY/PD\_LICENSES.

See the *PROCESS DIRECTOR 7.3 License Installation Guide* for detailed information.

## Importing and activating indexes for PD AP performance optimization

This chapter describes how to import and activate indexes to optimize the performance of PROCESS DIRECTOR Accounts Payable.

PROCESS DIRECTOR Accounts Payable contains indexes to support the current selection screen, scheduled reports and other developments. Activation of indexes is project specific. This saves database space because indexes are activated only when they will be used in a PROCESS DIRECTOR Accounts Payable installation.

If you have a version of INVOICE COCKPIT that uses old indexes (that is, a version prior to version 2.4.2 SP76), you should migrate to the new indexes.

Installation and activation of indexes requires the following steps. Make sure that the [prerequisites](#) are fulfilled before performing these steps.

1. Only for existing installations that still use old indexes: [delete the old indexes](#).
2. [Import the new indexes into the development system](#).
3. [Activate the indexes in the development system](#). The indexes must be explicitly activated so that they take effect.
4. [Import the indexes into the test/QA system and production system](#).

**Note:** Importing and activating indexes only has to be done once. There is no need to perform this task again after an upgrade.

## Index types

There are three types of indexes available for performance optimization.

### Type 1

Indexes for optimizing performance with the /COCKPIT/1, /COCKPIT/2, /COCKPIT/WL1, /COCKPIT/WL2 and /COCKPIT/WL3 transactions.

Name	Short description	Status	Mandatory/optional
<b>S01</b>	Company code (COMP_CODE)	Inactive	Optional. Can be activated if the project uses more than one company code in PROCESS DIRECTOR Accounts Payable.
<b>S02</b>	Currency (CURRENCY)	Inactive	Optional. Can be activated if the project uses more than one currency code in PROCESS DIRECTOR Accounts Payable.
<b>S03</b>	Vendor (VENDOR_NO)	Inactive	Mandatory. Must be activated.
<b>S04</b>	Document date (DOC_DATE)	Inactive	Mandatory. Must be activated.
<b>S05</b>	Purchasing Document Number (PO_NUMBER)	Inactive	Mandatory. Must be activated.
<b>S06</b>	Document number of an invoice document (SAP_DOC_NO)	Inactive	Mandatory. Must be activated.
<b>S07</b>	Reference document number (REF_DOC_NO)	Inactive	Mandatory. Must be activated.
<b>S08</b>	Agent (CR_USER)	Inactive	Optional/mandatory. Optional: Can be activated if the project uses <b>Agent</b> to assign PROCESS DIRECTOR Accounts Payable documents to special uses. Mandatory: If a project uses the COCKPIT/WL1, /COCKPIT/WL2 and /COCKPIT/WL3 transactions, this index must be activated.
<b>S09</b>	Transfer date (CR_TIMESTAMP)	Inactive	Mandatory. Must be activated.
<b>S10</b>	Cockpit document number (DOCNO)	Inactive	Mandatory. Must be activated.

Name	Short description	Status	Mandatory/optional
S11	Cockpit document type (CP_DOC_TYPE)	Inactive	Optional. Can be activated if the project uses more than one PROCESS DIRECTOR Accounts Payable document type.

## Type 2

Indexes for optimizing performance with the /COCKPIT/PAYMENT\_CONTROL report.

Name	Short description	Status	Mandatory/optional
P01	Only PAYMENT_CONTROL (AUGBL)	Inactive	Mandatory for payment control report. Must be activated if the project uses the COCKPIT/PAYMENT_CONTROL scheduled report to update the payment information in PROCESS DIRECTOR Accounts Payable.

## Type 3

Indexes for optimizing performance with project-specific requirements. These indexes will be locally created as a part of the normal project activity.

Name	Short description	Status
Z??	Xxx	Inactive
Y??	Xxx	Inactive

## Prerequisites

- The /COCKPIT/ namespace must be configured as described in the chapter [Creating/checking the namespace](#).
- The /COCKPIT/ namespace must be set to Modifiable as described in the chapter [Creating/checking the namespace](#).
- The Workbench/Transport organizer must be given authorization. See the [Authorizations](#) section for information on the required authorizations.

**Note:** All the steps in this chapter must be performed by the responsible Database Administrator. When migrating to new indexes, some steps can create a huge amount of database load, which can slow down the system. Those steps should be done during a period that does not have a normal production load.

## Deleting old indexes

This step is only required for installations that use old indexes.

Existing indexes can be manually deleted in transaction SE11, or can be automatically deleted by importing a transport request provided by ReadSoft support.

The deletion of indexes can free a lot of space on the database. Old indexes normally use as much space as the table entries in /COCKPIT/THDR.

Indexes must be deleted in all the systems (development, test/QA, production).

Delete the following indexes from the /COCKPIT/THDR table in SE11.

Name	Short description
<b>BEL</b>	Via the SAP document number
<b>DOC</b>	Index of the document numbers
<b>KRE</b>	Via vendors
<b>PAY</b>	Index of the clearing document
<b>PO</b>	Via the PO number
<b>TST</b>	Via the time of creation
<b>USR</b>	Index of users
<b>Any Z?? or Y??</b>	Any custom indexes

Alternatively, import one of the following transports into your system. Select the appropriate transport for your SAP version. When upgrading PROCESS DIRECTOR Accounts Payable, this transport should be imported before all other transports (except the /EBY/ namespace transport). See [Importing the transports](#) for more information.

Request	User	
<b>DR4K901724</b>	READSOFT	INVOICE COCKPIT Delete Legacy Indexes R/3 4.0B
<b>D45K900706</b>	READSOFT	INVOICE COCKPIT Delete Legacy Indexes R/3 4.5B
<b>DRBK900480</b>	READSOFT	INVOICE COCKPIT Delete Legacy Indexes R/3 4.6B
<b>TR1K905539</b>	READSOFT	INVOICE COCKPIT Delete Legacy Indexes R/3 4.6C
<b>D47K940757</b>	READSOFT	INVOICE COCKPIT Delete Legacy Indexes R/3 4.70
<b>DR5K901424</b>	READSOFT	INVOICE COCKPIT Delete Legacy Indexes ERP 2004
<b>DR6K901389</b>	READSOFT	INVOICE COCKPIT Delete Legacy Indexes ERP 6.0

## Importing indexes into the development system

The transport requests in the table below contain a set of necessary indexes for the /COCKPIT/THDR table. Import the appropriate transport request for your SAP version into the development system.

Request	User	Short description
DR4K901725	READSOFT	INVOICE COCKPIT Create Indexes R/3 4.0B
D45K900707	READSOFT	INVOICE COCKPIT Create Indexes R/3 4.5B
DRBK900481	READSOFT	INVOICE COCKPIT Create Indexes R/3 4.6B
TR1K905542	READSOFT	INVOICE COCKPIT Create Indexes R/3 4.6C
D47K940758	READSOFT	INVOICE COCKPIT Create Indexes R/3 4.70
DR5K901425	READSOFT	INVOICE COCKPIT Create Indexes ERP 2004
DR6K901390	READSOFT	INVOICE COCKPIT Create Indexes ERP 6.0

## Activating indexes

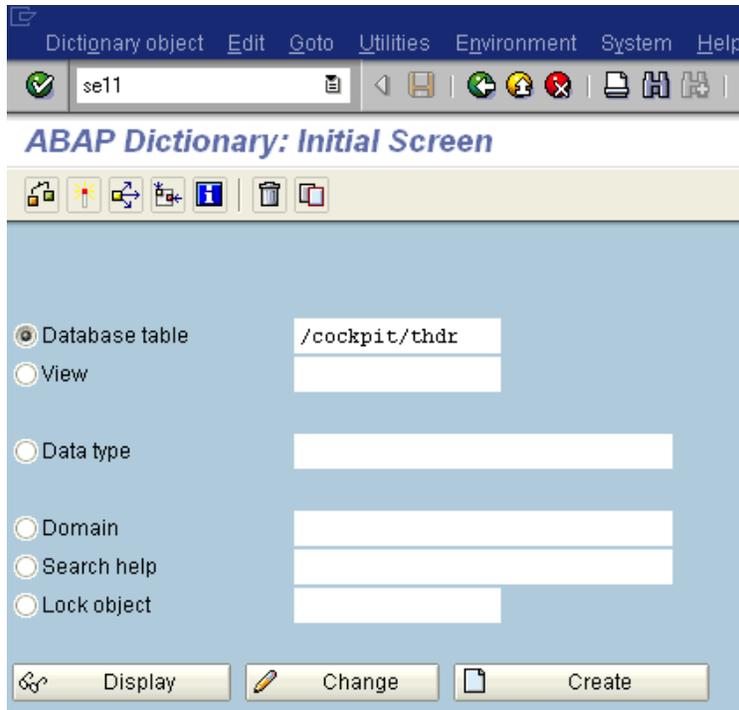
Index activation must be done in the development system, imported into a test/QA system, and then into a production system. The activation of indexes is a repair, so this will create a local transport request. Local transport requests need to be released after all the indexes have been activated. You need to create a **Transport of Copies** and include the local transport requests to import the indexes into successor systems.

**Important:** If you migrate from old indexes to new indexes, this step can create a huge amount of database load. The installed PROCESS DIRECTOR Accounts Payable already contains data, so the database not only has to create the new indexes, but also calculate the index entries for the existing entries in the COCKPIT/THDR table. All the steps in this chapter need to be performed by the responsible Database Administrator.

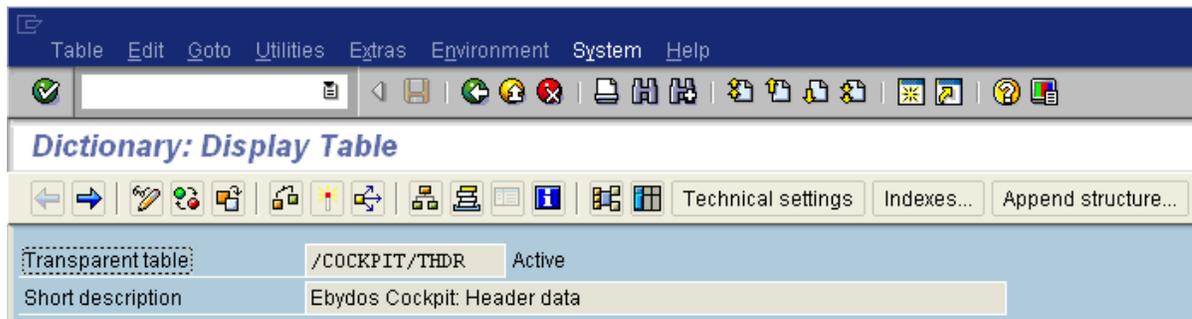
This is a step-by-step description of how to activate an index in the /COCKPIT/THDR table.

1. Open the SE11 transaction.
2. Set the **Database table** to /COCKPIT/THDR.

3. Click **Display** .



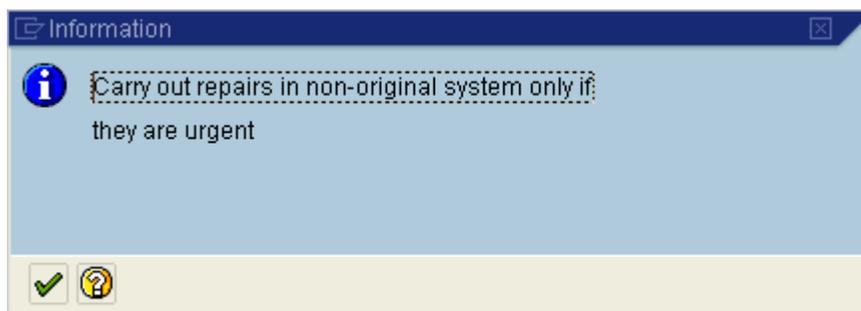
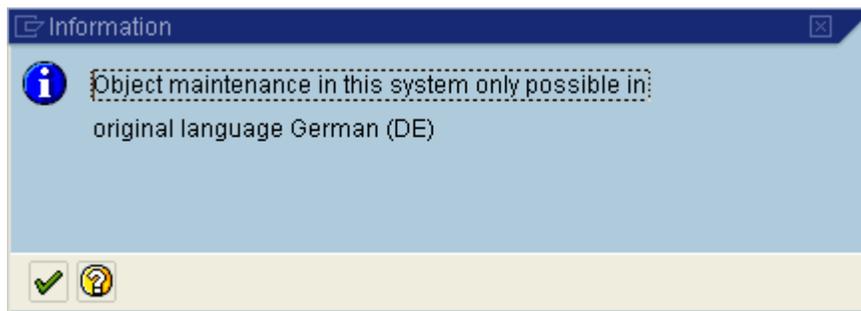
4. Click **Indexes** .



- Double-click an index to activate it.

Name	Unique	Short description	Status
P01	<input checked="" type="checkbox"/>	Only PAYMENT_CONTROL (AUGBL)	Active
S01	<input type="checkbox"/>	Company code (COMP_CODE)	Active
S02	<input type="checkbox"/>	Currency (CURRENCY)	Active
S03	<input type="checkbox"/>	Vendor (VENDOR_NO)	Active
S04	<input type="checkbox"/>	Document date (DOC_DATE)	Active
S05	<input type="checkbox"/>	Purchasing Document Number (PO_NUMBER)	Active
S06	<input type="checkbox"/>	Document number of an invoice document (SAP_DOC_NO)	Active
S07	<input type="checkbox"/>	Reference document number (REF_DOC_NO)	Active
S08	<input type="checkbox"/>	Agent (CR_USER)	Active

- Click the **Display/Change** button , and then click the **Continue (Enter)** button  for each of the **Information** pop-up messages.



- Under **Non-unique index**, select **Index on all database systems**.

Non-unique index ?  
 Index on all database systems ➔  
 For selected database systems  
 No database index  
 Unique index (database index required)

- Save the changes and create/choose a Workbench request.

Prompt for local Workbench request  
 Table index: /COCKPIT/THDR P01  
 Request:   
  Own requests

- The Workbench request cannot have an entry set in the **Target** field.

Create Request  
 Request: Workbench request  
 Short description: INVOICE COCKPIT Activate Indexes local  
 Project:   
 Owner: GERKE Source client: 000  
 Status: New Target:   
 Last changed: 21.07.2008 12:28:16  
 Tasks:
 

User	<input type="text"/>
GERKE	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>

- Save the changes. If there are already a lot of documents in PROCESS DIRECTOR Accounts Payable, this step can take several minutes or even hours.

The index will be active after Step 10 has been completed and changes have been saved.

## Importing indexes into the test/QA and production systems

**Note:** If you migrate from old indexes to new indexes, this step can create a huge amount of database load. The installed PROCESS DIRECTOR Accounts Payable already contains data, so the database not only has to create new indexes, but also calculate the index entries for the existing entries in the COCKPIT/THDR table. All the steps in this chapter need to be performed by a responsible Database Administrator.

There are two transport requests:

- TR1K905245 INVOICE COCKPIT Delete Legacy Indexes (only required for installations that use old indexes)
- TSTK123456 Transport of Copies from the development system with activated indexes (Replace TSTK123456 with the correct transport request number.)

Both transports must be imported to the test/QA and production systems. The old **DOC** index and the new **S10** index use the same fields. Be careful with the transport order. The **DOC** index needs to be deleted before the **S10** index is created.

The database statistics should be refreshed with the DB20 transaction or via database tools after the import.

## Space calculation

The table below contains the length of each delivered index.

Name	Short description	Length
P01	Only PAYMENT_CONTROL (AUGBL)	53
S01	Company code (COMP_CODE)	68
S02	Currency (CURRENCY)	69
S03	Vendor (VENDOR_NO)	53
S04	Document date (DOC_DATE)	51
S05	Purchasing Document Number (PO_NUMBER)	53
S06	Document number of an invoice document (SAP_DOC_NO)	53
S07	Reference document number (REF_DOC_NO)	59
S08	Agent (CR_USER)	80
S09	Transfer date (CR_TIMESTAMP)	64
S10	Cockpit document number (DOCNO)	57
S11	Cockpit document type (CP_DOC_TYPE)	66

$(i1 + i2 + .. + in) * (\text{row count of table, /COCKPIT/THDR}) = \text{required space to store indexes}$

The DDIC size of the /COCKPIT/THDR table is 872. Most fields are from type, VARCHAR2, and some fields are normally empty. The real size of a /COCKPIT/THDR entry on the database is ~527. Mandatory indexes total to 390. Old indexes (BEL, DOC, KRE, PAY, PO, TST and USR) total to 477.

These figures are only a clue to calculate the required space of indexes. The calculation must be balanced with the transaction, DB02 > Detailed analysis and real measurement of the used space on the database.

*Example:*

Table /COCKPIT/THDR has 10,000 entries.

Table size on database: ~ 10000 \* 527 = 5270000

Index size on database: ~ 10000 \* 390 = 3900000

Total size on database: ~ 5270000 + 3900000 = 9170000

Old size on database: ~ 10000 \* (527 + 477) = 10040000

## Authorizations

The following authorizations are required to activate indexes.

Object	Values
S_TCODE	TCD=SE11
S_TCODE	TCD=SE11_OLD
S_DEVELOP	ACTVT=03 DEVCLASS= OBJNAME= OBJTYPE= P_GROUP=
S_DEVELOP	DEVCLASS=/COCKPIT/PROCESS OBJTYPE=TABL OBJNAME=/COCKPIT/THDR P_GROUP= ACTVT=03
S_DEVELOP	DEVCLASS=/COCKPIT/PROCESS OBJTYPE=TABL OBJNAME=/COCKPIT/THDR P_GROUP= ACTVT=02
S_DEVELOP	DEVCLASS=/COCKPIT/PROCESS OBJTYPE=INDX OBJNAME=/COCKPIT/THDR P_GROUP= ACTVT=02

Object	Values
S_DEVELOP	DEVCLASS= OBJTYPE=INDX OBJNAME=/COCKPIT/THDR P_GROUP= ACTVT=07
S_DEVELOP	DEVCLASS=/COCKPIT/PROCESS OBJTYPE=INDX OBJNAME=/COCKPIT/THDR P_GROUP= ACTVT=41

## Troubleshooting

### PROCESS DIRECTOR Accounts Payable

#### Import errors

During the import you may get an import error. The following instructions should help you to solve the problem:

- If you get an import error regarding the /COCKPIT/CMAILS table, manually delete the /COCKPIT/VMAILS view in your SAP system and import the transport again. ReadSoft has no hot fix transport for this.
- If you get an import error regarding a duplicate of the CP\_DOC\_TYPE field in the /COCKPIT/SWB\_IF table you must delete the field manually. You must then activate the /COCKPIT/SWC\_IF structure again. Then import the transport again using override options.
- If you get the import error:

```
"Program /COCKPIT/SAPLSTATS, include /COCKPIT/LSTATS CON_STRUC_WEBCYCLE is declared"
```

Perform the following steps:

1. Delete the /COCKPIT/SAPLSTATS function group. Alternatively, import the *ReadSoft\_INVOICE\_COCKPIT\_allV\_R3\_allV\_DELETE\_DevClass\_COCKPIT\_STATS\_D47K942150.zip* transport, which performs this task.
  2. Import the PROCESS DIRECTOR AP transport again..
- If you have installed the old ICS 3.2 transports, you can download a hot fix transport on the download site:  
*READSOFT\_Invoice\_Cockpit\_Suite\_3.2\_R\_3\_4\_70-6\_0\_EMEICs\_1646\_1651\_1652\_D47K942645.zip*
    - SAP R3 4.7 – D47K942537
    - ERP 2004 – DR5K901766
    - ERP 2005 – DR6K903108

This transport is for all three systems and contains EMEICs 1646, 1651 and 1652. This hot fix transport is an exception and can be used only in combination with the above transports.

- If you get an import error stating that the /COCKPIT/CCOMPES-CLIENT table does not exist, you must delete the table and the /COCKPIT/VCOMPES view and import PROCESS DIRECTOR again. (A hotfix transport for this does not exist.) Before you do this though, make a note of the data entries and re-enter them after the upgrade was successful.
- Import error regarding indexes:

```
Indexes AN and ZID for table /COCKPIT/TANWCT  
General message: Indexes X and Z* for table /COCKPIT/* have identical  
fields
```

The example error message above means there are customer-specific indexes which are the same as those used by ReadSoft.

Solution: Delete the customer-specific indexes and then import the PROCESS DIRECTOR transport.

## Other problems

- If you encounter the following problems:
  - Images cannot be opened in docking mode in the SAP GUI
  - Images cannot be opened in the Web Application

Change the settings in the /COCKPIT/C21 transaction to **Y- first archive (image data), then Web server (URL)**.

These problems may arise because this configuration table is now different from the version of PD AP/INVOICE COCKPIT you are upgrading from.

- If you get a license error (license not valid) after upgrading to PROCESS DIRECTOR Accounts Payable, delete the entries in /COCKPIT/C46 and re-enter them.

## PROCESS DIRECTOR

### Import errors

If the log display shows errors about objects that cannot be activated, the PD AP Transport was not imported.

Solution: [Import the PD AP Transport](#).

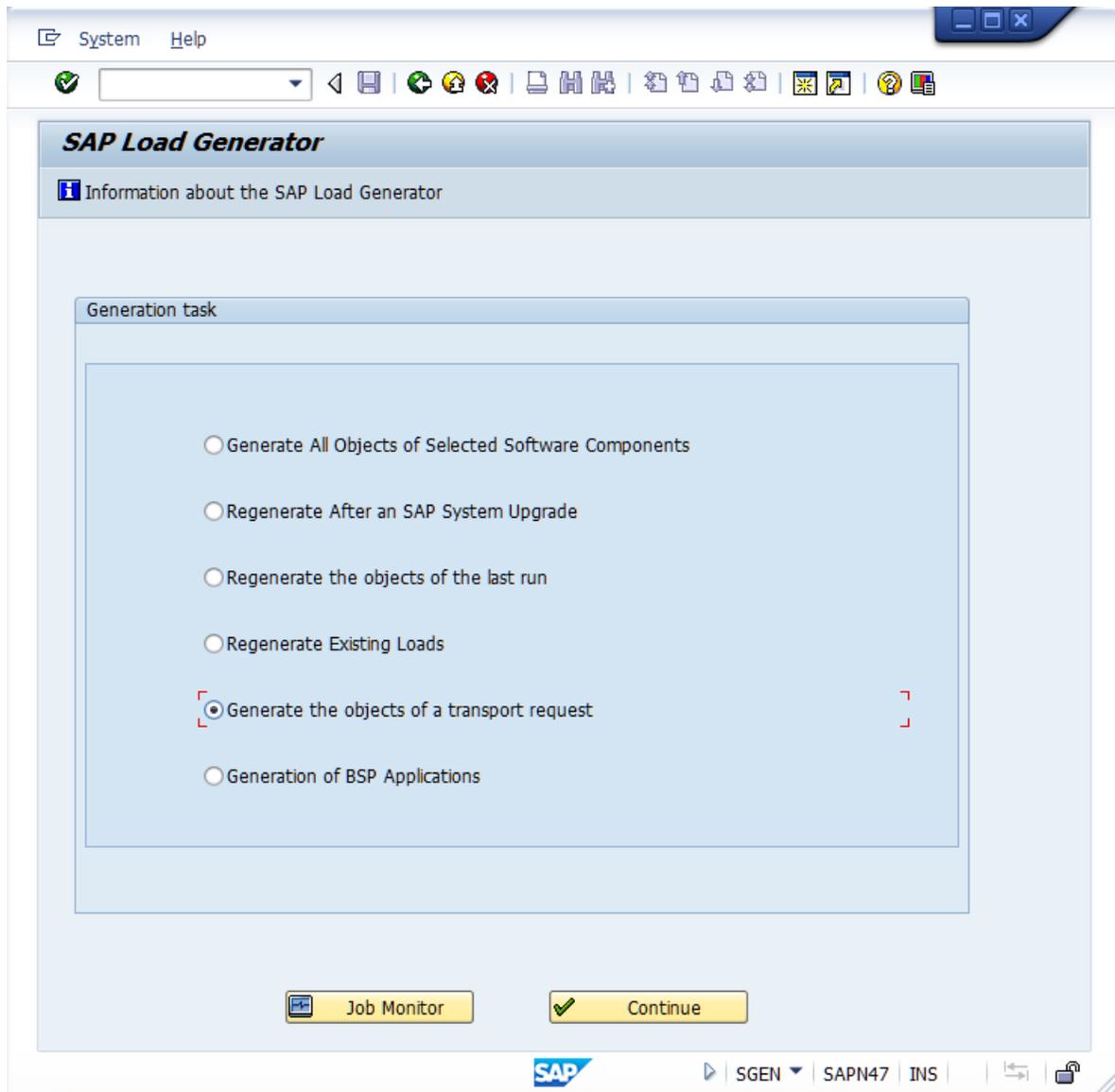
### Short dumps

Short dump LOAD\_PROGRAM\_LOSS occurs during document transfer, check, post, or other action.

Solution: Increase the `abap/buffersize` parameter in transaction RZ11, Recommended value: 400000 or higher.

Short dump object modified during runtime.

Call the SGEN transaction and generate all objects of the PD main transport.



## Other problems

Poor performance in PROCESS DIRECTOR.

Solution: Check the Tune Summary in transaction ST02 with the SAP System Administrator.

## ReadSoft Support

If you have problems with importing PROCESS DIRECTOR, please contact ReadSoft:

<b>Asia</b>	<a href="mailto:support-my@readsoft.com">support-my@readsoft.com</a>
<b>Australia</b>	<a href="mailto:support-au@readsoft.com">support-au@readsoft.com</a>
<b>Benelux</b>	<a href="mailto:support-nl@readsoft.com">support-nl@readsoft.com</a>
<b>Brazil</b>	<a href="mailto:support-br@readsoft.com">support-br@readsoft.com</a>
<b>Chile</b>	<a href="mailto:support-cl@readsoft.com">support-cl@readsoft.com</a>
<b>Denmark</b>	<a href="mailto:support-dk@readsoft.com">support-dk@readsoft.com</a>
<b>Finland</b>	<a href="mailto:support-fi@readsoft.com">support-fi@readsoft.com</a>
<b>France</b>	<a href="mailto:support-fr@readsoft.com">support-fr@readsoft.com</a>
<b>Germany</b>	<a href="mailto:support-de@readsoft.com">support-de@readsoft.com</a>
<b>Latin America</b>	<a href="mailto:support-cl@readsoft.com">support-cl@readsoft.com</a>
<b>Norway</b>	<a href="mailto:support-no@readsoft.com">support-no@readsoft.com</a>
<b>Spain &amp; Portugal</b>	<a href="mailto:support-es@readsoft.com">support-es@readsoft.com</a>
<b>Sweden</b>	<a href="mailto:support-se@readsoft.com">support-se@readsoft.com</a>
<b>United Kingdom</b>	<a href="mailto:support-uk@readsoft.com">support-uk@readsoft.com</a>
<b>United States</b>	<a href="mailto:support-us@readsoft.com">support-us@readsoft.com</a>
<b>Partner Support</b>	<a href="mailto:support.partner@readsoft.com">support.partner@readsoft.com</a>