



PROCESS DIRECTOR 7.2

Importing PROCESS DIRECTOR into SAP

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Questions or comments about this document may be emailed to documentation@readsoft.com.

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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.

Product	Transport	Description
PROCESS DIRECTOR	This transport is available in two versions:	
	PD Transport with AP integration	Contains the /EBY/ namespace. Required for Accounts Payable if integration with PROCESS DIRECTOR and use of the new PROCESS DIRECTOR Web Application is required. Requires the PD AP transport.
	PD Transport without AP	Contains the /EBY/ namespace. Required for process types other than Accounts Payable (for example, Requisitions, Payment Advices, Master Data, and so on).

Which transport do I need?

For Accounts Payable:

- Accounts Payable always requires the *PD AP Transport* (with the /COCKPIT/ namespace). For existing customers who use AP only and want to upgrade to 7.2 in SAP, but continue to use the old (green) WORK CYCLE Web Application, this is the only transport required.
- For new customers, or existing customers who wish to use other process types in addition to AP, integrate AP in the PROCESS DIRECTOR framework (for example, use the PD Worklist), or use the new (blue) PROCESS DIRECTOR Web Application, the *PD Transport with AP integration* (with the /EBY/ namespace) is required in addition to the *PD AP transport*. Always import the *PD AP Transport* (/COCKPIT/) first, then the *PD Transport with AP integration* (/EBY/).

For other process types:

For customers who do not use AP, only the *PD Transport without AP* is required.

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.

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 without AP	Requisitions Order Confirmations Goods Receipts Payment Approvals Payment Advices Customer Orders Financial Postings Master Data: <ul style="list-style-type: none"> ▪ Customer ▪ Vendor ▪ Cost Center ▪ Profit Center ▪ GL Account ▪ Asset Asset acquisition Asset transfer Asset retirement Electronic Bank Statements
PD Transport with AP integration	Same as PD Transport without AP, but with additional integration components for Accounts Payable, and with the process type Accounts Payable Block and Cancelation. Requires the PD AP Transport.

Location

PROCESS DIRECTOR transports are available on the ReadSoft Lab – SAP Solutions SharePoint site (ReadSoft internal only). Currently, the 7.2 PD Transport with AP integration and 7.2 PD Transport without AP are only available on request from [ReadSoft SAP Lab Support](#).

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 7.2 License Installation Guide*
- *PROCESS DIRECTOR 7.2 SAP Configuration Guide*
- *PROCESS DIRECTOR 7.2 Accounts Payable Configuration Guide*

Upgrading

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

Note that 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, but upgrade other processes to 7.2, and vice versa. However, if you are using the new Web Application, we recommend upgrading to 7.2, independent of the PROCESS DIRECTOR Accounts Payable version.

Upgrading PROCESS DIRECTOR Accounts Payable/INVOICE COCKPIT Suite

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

In PROCESS DIRECTOR 7.2, the search help for Web Application (WUM) users has been extended to enable searching by email address. In order that this search works for users created in previous versions of PROCESS DIRECTOR, you must run the report

/COCKPIT/XPRA_V720_SP0. This report is also required in order that the new user-type independent search help on workflow start functions correctly.

You must also implement EMEIC2203 and EMEIC2204, which resolve other issues with WUM users.

Perform these tasks after importing the transports.

Upgrading PROCESS DIRECTOR

The customization of processes has changed slightly in PROCESS DIRECTOR 7.2, with the result that some customizations are obsolete and must be removed. If you have customized PROCESS DIRECTOR processes, checks or determinations, you should run the consistency check program /EBY/PDBO_CHECK_CUST_PROCESS. This program lists all obsolete customizing entries that must be removed.

PROCESS DIRECTOR - Check Customer Process Configuration																																																																																																														
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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.

Determination selection						
	Inte...	Envi...	Determination ID	Action	Action	Sub...
			/EBY/CL_PDSO_DET_SORG_INIT	CHECK	Check document	1
			/EBY/CL_PDSO_DET_PLANT_INIT	CHECK		2
			/EBY/CL_PDSO_DET_SORG_INIT	CHECKM	Check document(s)	1
			/EBY/CL_PDSO_DET_PLANT_INIT	CHECKM		2
			/EBY/CL_PDSO_DET_CONTACT_INIT	REFID	Initial processing	1

Upgrading SAP

Before upgrading SAP

For PROCESS DIRECTOR 7.2 and PROCESS DIRECTOR Accounts Payable 7.2, 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, on page 25, 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.

I. 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

All processes

SAP Note #	Issue addressed	Prerequisites / Comments	Affected SAP releases
930742	The PROCESS DIRECTOR Worklist configuration transaction uses the new ABAP editor control element (AB4 control).		SAP BASIS 620-640 Fixed with SAPKB62060 SAPKB64018
1078450	When using the HTML viewer, any CR/LF characters coming from a <textarea> are converted to simple hash signs.		Only SAP BASIS 620 Fixed with SAPKB62063
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.	SAP BASIS 620-640 700-702 and 710-711 Fixed with SAPKB62066 SAPKB64023 SAPKB70018 SAPKB70103 SAPKB70204 SAPKB71007 SAPKB71101

SAP Note #	Issue addressed	Prerequisites / Comments	Affected SAP releases
167229	Short dump DYNPRO_READ_FAILED When you load or generate certain screens, terminations occur.	Adjust profile parameter ztta/dynpro_area	All versions
712177	Error when Save 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",		Release 470 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.		Required in ECC 6.0 Systems Fixed with SAPKB70026 SAPKB70110 SAPKB70209 SAPKB71013 SAPKB71108 SAPKB72006 SAPKB73004 SAPKB73102

Accounts Payable

SAP Note #	Issue addressed	Prerequisites / 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. This causes balance problems (balance is not equal to zero) and the document cannot be posted.</p>		SAP_APPL 46C-606 Fixed with SAPKH46C64 SAPKH47037 SAPKH50026 SAPKH60021 SAPKH60211 SAPKH60310 SAPKH60411 SAPKH60507 SAPKH60602
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.</p> <p>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>		SAP_APPL 46C-606 Fixed with SAPKH46C64 SAPKH47038 SAPKH50027 SAPKH60022 SAPKH60211 SAPKH60310 SAPKH60411 SAPKH60508 SAPKH60602

Requisitions

SAP Note #	Issue addressed	Prerequisites / Comments	Affected SAP releases
1160754	Update termination with K_OPEN_ITEM_POST when BAPI is called in simulation mode several times. Short dump K_OPEN_ITEM_POST.		SAP_APPL 470-604 Fixed with SAPKH47033 SAPKH50022 SAPKH60016 SAPKH60206 SAPKH60305 SAPKH60404
305785	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_COOI" raised.	Pre requisite is SAP-note 100409 And creation of requisition	All versions
891356	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.		SAP_APPL 470-600 Fixed with SAPKH47026 SAPKH50012 SAPKH60003
485557	BAPI_REQUSITION_CREATE: 'EXTENSIONIN' customer enhancements Structure BAPI_TE_REQUSITION_ITEM, which is used in PROCESS DIRECTOR, is not available in low support package level systems.	Required if Purchase Requisition Enhancement structures are needed in the project.	SAP_APPL 46C Fixed with SAPKH46C37
593366	BAdI in EnjoySAP of PO BAPIs in connection with SRM. A lot of table type definitions are missing, for example, BAPIMEPOITEM_TP.		SAP_APPL 46C-470 Fixed with SAPKH46C42 SAPKH47008

SAP Note #	Issue addressed	Prerequisites / Comments	Affected SAP releases
394058	<p>BAPI_REQUSITION 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_REQUSITION_DELETE, BAPI_REQUSITION_CREATE, BAPI_REQUSITION_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>	Only required if requisitions will be created in SAP. Not required if only purchase orders will be created in SAP.	All versions

Financial Postings

SAP Note #	Issue addressed	Prerequisites / Comments	Affected SAP releases
424374	PI 2001.I is required for FS-AM general ledger connection.		SAP_APPL 46C

Customer Orders

SAP Note #	Issue addressed	Prerequisites / Comments	Affected SAP releases
849063	Error DB 878 with multiple call of BAPI_CUSTMATINFO_GETLIST You are using material determination "by customer material no.". 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."	Only required if customer material info conditions are maintained.	SAP_APPL 46C-500 Fixed with SAPKH46C51 SAPKH47025 SAPKH50009
610463	Transfer of the field 'material entered' from CRM --> R/3 Field MAT_ENTRD not available in structure BAPISDITM		SAP_APPL 46C-470 Fixed with SAPKH6C44 SAPKH47010

Master data maintenance

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

SAP Note #	Issue addressed	Prerequisites / Comments	Affected SAP releases
I706458	Error message AA592 “Depreciation key has fewer depreciation types than previously valid key” during post/check.		SAP_APPL 600-616 And Note I491266 Fixed with SAPKH60024 SAPKH60214 SAPKH60312 SAPKH60413 SAPKH60510 SAPKH60607 SAPKH61602
I578624 I574641	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).		SAP_APPL 600-605 Fixed with SAPKH60020 SAPKH60210 SAPKH60309 SAPKH60410 SAPKH60505
I770717	After implementing OSS note I754448 (Incorrect bank data can be copied), bank data with partner type (BVTYP) is not correctly updated and there is no error message.	Required if OSS Note I754448 has been implemented.	SAP_APPL 600-616 Fixed with SAPKH60023 SAPKH60213 SAPKH60312 SAPKH60413 SAPKH60510 SAPKH60606 SAPKH61601

Recommended SAP notes

Accounts Payable

SAP Note #	Issue addressed	Prerequisites / Comments	Affected SAP releases
591415	Error message M8 607 when posting MM invoice with planned delivery costs.		SAPAPPL 46C-470 Fixed with SAPKH46C43 SAPKH47008

SAP Note #	Issue addressed	Prerequisites / Comments	Affected SAP releases
I650443	Use of Perform or Post function creates short dump with error CALL_TRANSACTION_USING_NESTED		Check Kernel version according to the list in SAP note

Requisitions

SAP Note #	Issue addressed	Prerequisites / Comments	Affected SAP releases
I008717	OCI catalog: Checkout in SAPGUI Only partial data is transferred back to PROCESS DIRECTOR from the OCI catalog.	This fix is only needed if using an OCI catalog.	SAP_BASIS 620-700 Fixed with SAPKB62062 SAPKB64020 SAPKB70011
I355577	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		SAP_APPL 604 Fixed with SAPKH60404
I108045	Performance improvement for archiving object MM_EBAN		SAP_APPL 470-603 Fixed with SAPKH47030 SAPKH50019 SAPKH60012 SAPKH60202 SAPKH60301

Customer Orders

SAP Note #	Issue addressed	Prerequisites / Comments	Affected SAP releases
581577	<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 in 4.6C < SAPKH46C50 or 4.7 < SAPKH47007</p>		SAP_APPL 46C-470 Fixed with SAPKH46C50 SAPKH47007
699533	No message from BAPI SALESDOCUMENT_CREATE if the credit limit is exhausted	Required if EA-RETAIL is used	EA-RETAIL 110 and 200 Fixed with SAPKGPRAI7 SAPKGPRB06

Master data maintenance

SAP Note #	Issue addressed	Prerequisites / Comments	Affected SAP releases
845004	<p>Language support when editing cost centers with BAPIs.</p> <p>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.</p>		SAP_APPL 46C-500 Fixed with SAPKH46C51 SAPKH47025 SAPKH50009
702974	Various problems in asset master maintenance.		SAP_APPL 46C-500 Fixed with SAPKH46C49 SAPKH47023 SAPKH50006

SAP Note #	Issue addressed	Prerequisites / Comments	Affected SAP releases
1633458	<p>Users cannot be created or edited successfully as an error is encountered.</p> <p>Function module 'ADDR_SELECT_ADRCT_SINGLE' does not exist in 4.6c.</p>	Recommended for customers on 4.6c who are using vendor master data maintenance.	SAP BASIS 46C Fixed with SAPKB46C63

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.

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. This section uses 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

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_2*.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 Importing and activating indexes for instructions.
3	READSOFT_PROCESS_DIRECTOR_Namespace_EBY.zip This transport creates the /EBY/ namespace. Make sure that the namespace is activated after importing.
4	READSOFT_PROCESS DIRECTOR 7.2 *.zip This transport provides components for the integration of Accounts Payable in PROCESS DIRECTOR, as well as other process types.

- **Note:** If additional components are used (for example, Business Solution Package, Data Import, Dynamic Discount), 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>READSOFT_INVOICE_COCKPIT_Delete_Indexes_*.zip This transport deletes old indexes. This can also be done manually. See Importing and activating indexes for more information.</p> <p>Note: This is not necessary if it has already been done.</p>	
2	<p>READSOFT_PROCESS_DIRECTOR_AP_7_2*.zip This is the main transport for Accounts Payable.</p>	
3	<p>READSOFT_INVOICE_COCKPIT_Create_Indexes_*.zip This transport creates the indexes required for PROCESS DIRECTOR Accounts Payable. Indexes must be activated after import. See Importing and activating indexes for instructions.</p> <p>Note: This is not necessary if it has already been done.</p>	
4	<p>READSOFT_PROCESS_DIRECTOR_Namespace_EBY.zip This transport creates the /EBY/ namespace. For existing customers, this transport is optional and is only required if you want to integrate Accounts Payable in PROCESS DIRECTOR and use the new Web Application. Make sure that the namespace is activated after importing.</p>	X
5	<p>READSOFT PROCESS DIRECTOR 7.2 *.zip This transport provides components for the integration of Accounts Payable in PROCESS DIRECTOR. For existing customers, this transport is optional and is only required if you want to integrate Accounts Payable in PROCESS DIRECTOR and use the new Web Application.</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 version 4.6C, a separate PROCESS DIRECTOR transport is available. 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	READSOFT_PROCESS_DIRECTOR_Namespace_EBY_.zip
2	READSOFT_PROCESS DIRECTOR 7.2*.zip This is the main transport.

Languages

The languages listed in the document *PROCESS DIRECTOR 7.2 Product availability and GUI Languages* are delivered with PROCESS DIRECTOR 7.2.

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.

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

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

5. After importing the transports

After importing the transports, perform the following tasks:

- For SAP version 4.7 and higher: execute the SAP load generator (transaction SGEN)
- For SAP version 4.6C: Set the `abap/buffersize` parameter in transaction RZ11.

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.

Display Profile Parameter Attributes

 Documentation

Param. Name	abap/buffersize
Short description(Engl)	Program Buffer Size
Appl. area	ABAP <input type="checkbox"/>
ParameterTyp	Integer value <input type="checkbox"/>
Changes allowed	Change permitted <input type="checkbox"/>
Valid for oper. system	All operating systems <input type="checkbox"/>
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 7.2 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
S01	Company code (COMP_CODE)	Inactive	Optional. Can be activated if the project uses more than one company code in PROCESS DIRECTOR Accounts Payable.
S02	Currency (CURRENCY)	Inactive	Optional. Can be activated if the project uses more than one currency code in PROCESS DIRECTOR Accounts Payable.
S03	Vendor (VENDOR_NO)	Inactive	Mandatory. Must be activated.
S04	Document date (DOC_DATE)	Inactive	Mandatory. Must be activated.
S05	Purchasing Document Number (PO_NUMBER)	Inactive	Mandatory. Must be activated.
S06	Document number of an invoice document (SAP_DOC_NO)	Inactive	Mandatory. Must be activated.
S07	Reference document number (REF_DOC_NO)	Inactive	Mandatory. Must be activated.
S08	Agent (CR_USER)	Inactive	Optional/mandatory. Optional: Can be activated if the project uses Agent 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.
S09	Transfer date (CR_TIMESTAMP)	Inactive	Mandatory. Must be activated.
S10	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.
- 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
BEL	Via the SAP document number
DOC	Index of the document numbers
KRE	Via vendors
PAY	Index of the clearing document
PO	Via the PO number
TST	Via the time of creation
USR	Index of users
Any Z?? or Y??	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	
DR4K901724	READSOFT	INVOICE COCKPIT Delete Legacy Indexes R/3 4.0B
D45K900706	READSOFT	INVOICE COCKPIT Delete Legacy Indexes R/3 4.5B
DRBK900480	READSOFT	INVOICE COCKPIT Delete Legacy Indexes R/3 4.6B
TRIK905539	READSOFT	INVOICE COCKPIT Delete Legacy Indexes R/3 4.6C
D47K940757	READSOFT	INVOICE COCKPIT Delete Legacy Indexes R/3 4.70
DR5K901424	READSOFT	INVOICE COCKPIT Delete Legacy Indexes ERP 2004
DR6K901389	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
TRIK905542	READSOFT	INVOICE COCKPIT Create Indexes R/3 4.6C
D47K940758	READSOFT	INVOICE COCKPIT Create Indexes R/3 4.70

Request	User	Short description
DR5K901425	READSOFT	INVOICE COCKPIT Create Indexes ERP 2004
DR6K901390	READSOFT	INVOICE COCKPIT Create Indexes ERP 6.0

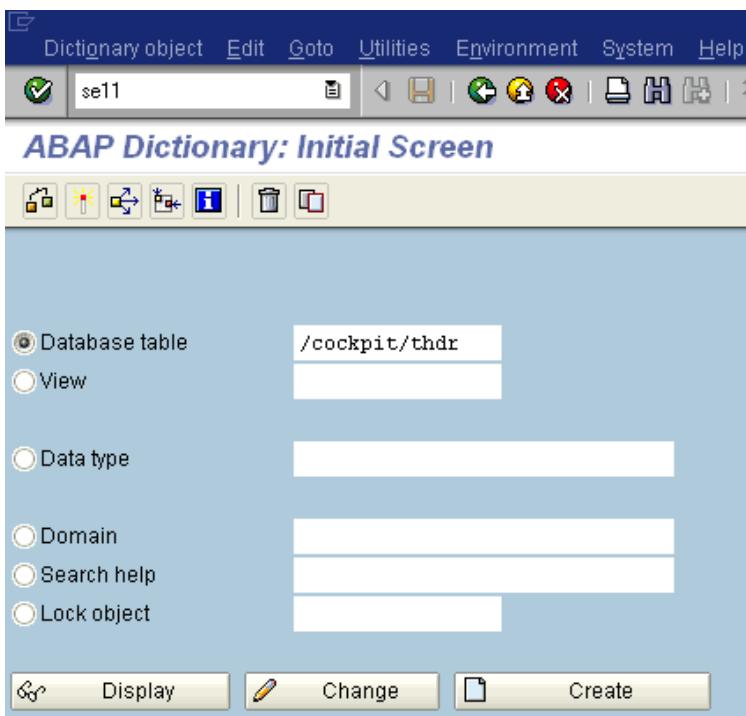
Activating indexes

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.

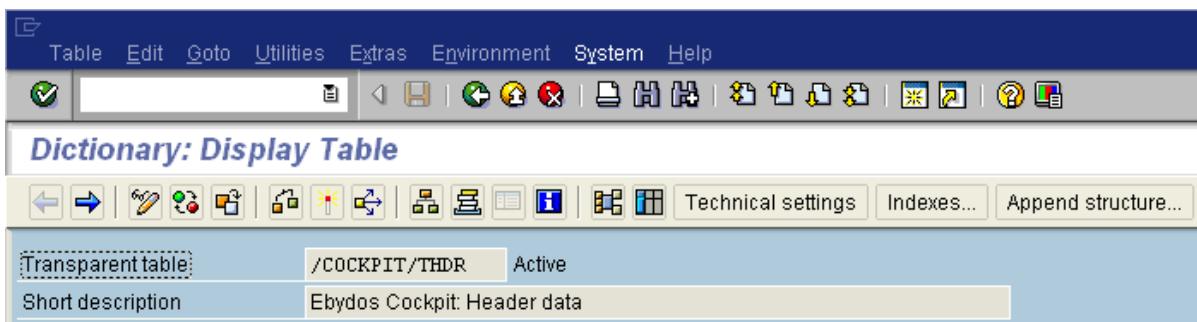
- If you migrate from old indexes to new indexes, this step can create a huge amount of database load. The installed PROCESS DIRECTOR Accounts Payable already contains data, so the database not only has to create the new indexes, but also calculate the index entries for the existing entries in the COCKPIT/THDR 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** **Indexes...**.



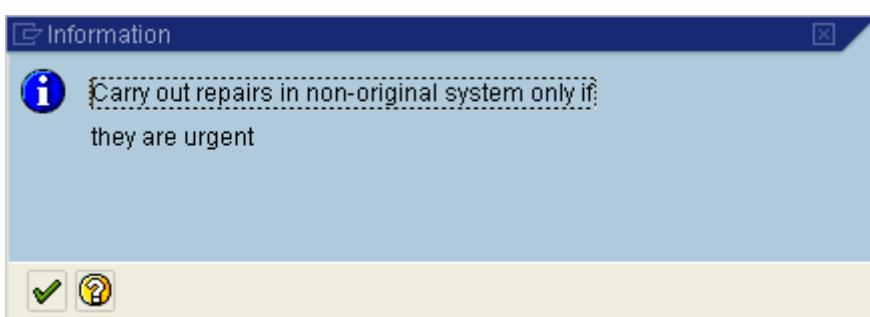
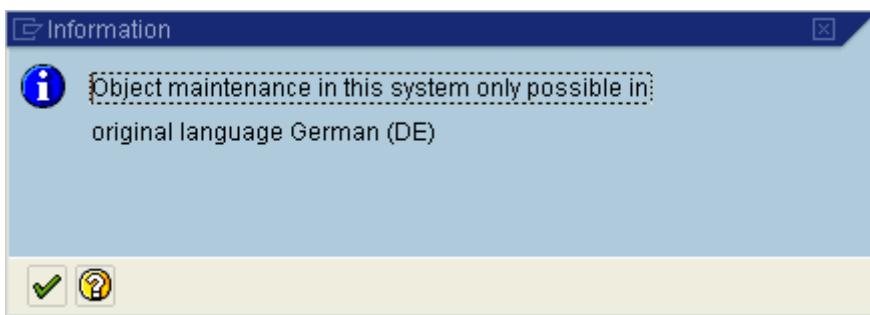
5. Double-click an index to activate it.

Indexes for Table /COCKPIT/THDR

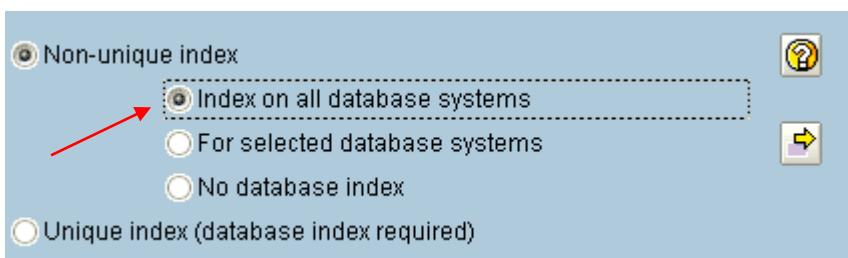
Name	Unique	Short description	Status
P01	<input type="checkbox"/>	Only PAYMENT_CONTROL (AUGBL)	Active
S01	<input type="checkbox"/>	Company code (COMP_CODE)	Active
S02	<input type="checkbox"/>	Currency (CURRENCY)	Active
S03	<input type="checkbox"/>	Vendor (VENDOR_NO)	Active
S04	<input type="checkbox"/>	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

Choose

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



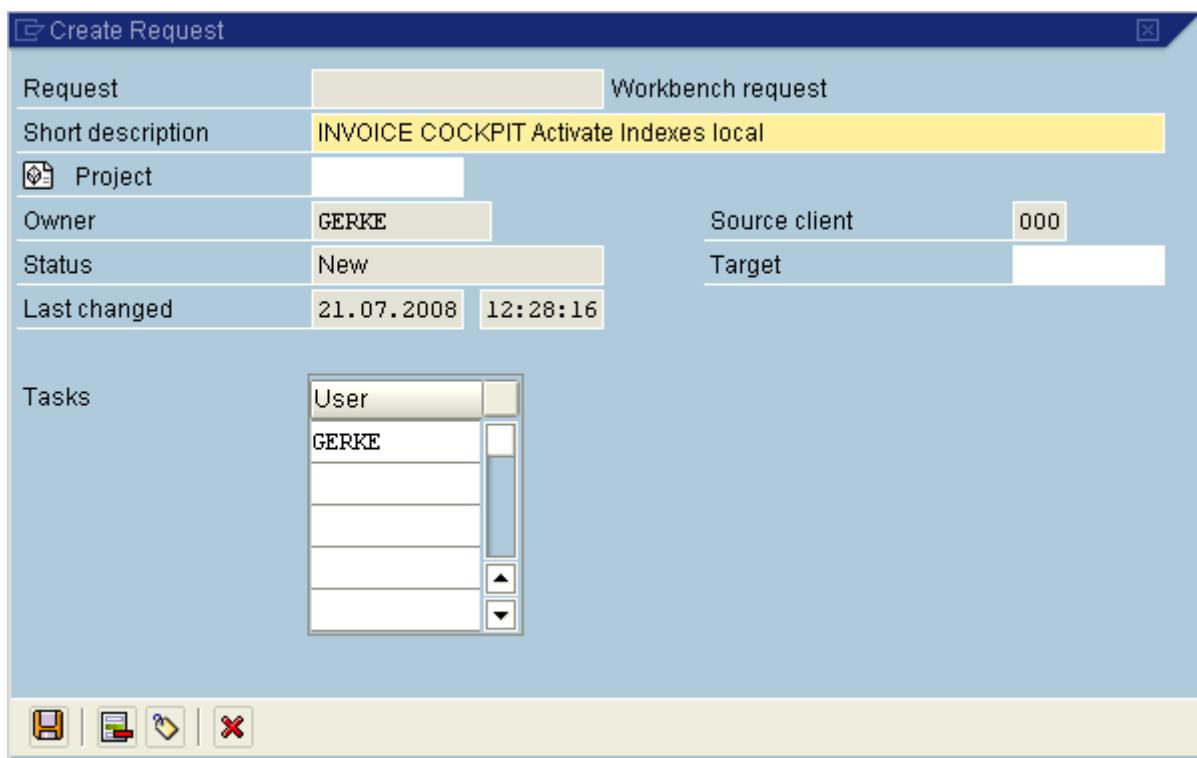
7. Under **Non-unique index**, select **Index on all database systems**.



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



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



10. 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

- 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

Name	Short description	Length
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) * (row count of table, /COCKPIT/THDR) = 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=TABLE OBJNAME=/COCKPIT/THDR P_GROUP= ACTVT=03
S_DEVELOP	DEVCLASS=/COCKPIT/PROCESS OBJTYPE=TABLE OBJNAME=/COCKPIT/THDR P_GROUP= ACTVT=02
S_DEVELOP	DEVCLASS=/COCKPIT/PROCESS OBJTYPE=INDEX OBJNAME=/COCKPIT/THDR P_GROUP= ACTVT=02
S_DEVELOP	DEVCLASS= OBJTYPE=INDEX OBJNAME=/COCKPIT/THDR P_GROUP= ACTVT=07
S_DEVELOP	DEVCLASS=/COCKPIT/PROCESS OBJTYPE=INDEX 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:

1. 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.
2. 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.

3. If you get the import error:

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

Perform the following steps:

- a) Delete the /COCKPIT/SAPLSTATS function group. Alternatively, import the ReadSoft_INVOICE_COCKPIT_allV_R3_allV_DELETE_DevClass_COCKPIT_STATS_D 47K942150.zip transport, which performs this task.
 - b) Import the PROCESS DIRECTOR AP transport again.
4. 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.

5. If you get an import error stating that the /COCKPIT/CCOMPSCS-CLIENT table does not exist, you must delete the table and the /COCKPIT/VCOMPSCS 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.
6. 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

1. If you encounter the following problems:
 - a) Images cannot be opened in docking mode in the SAP GUI
 - b) 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.

2. 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 which can't be activated, the PD AP Transport wasn't imported.

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

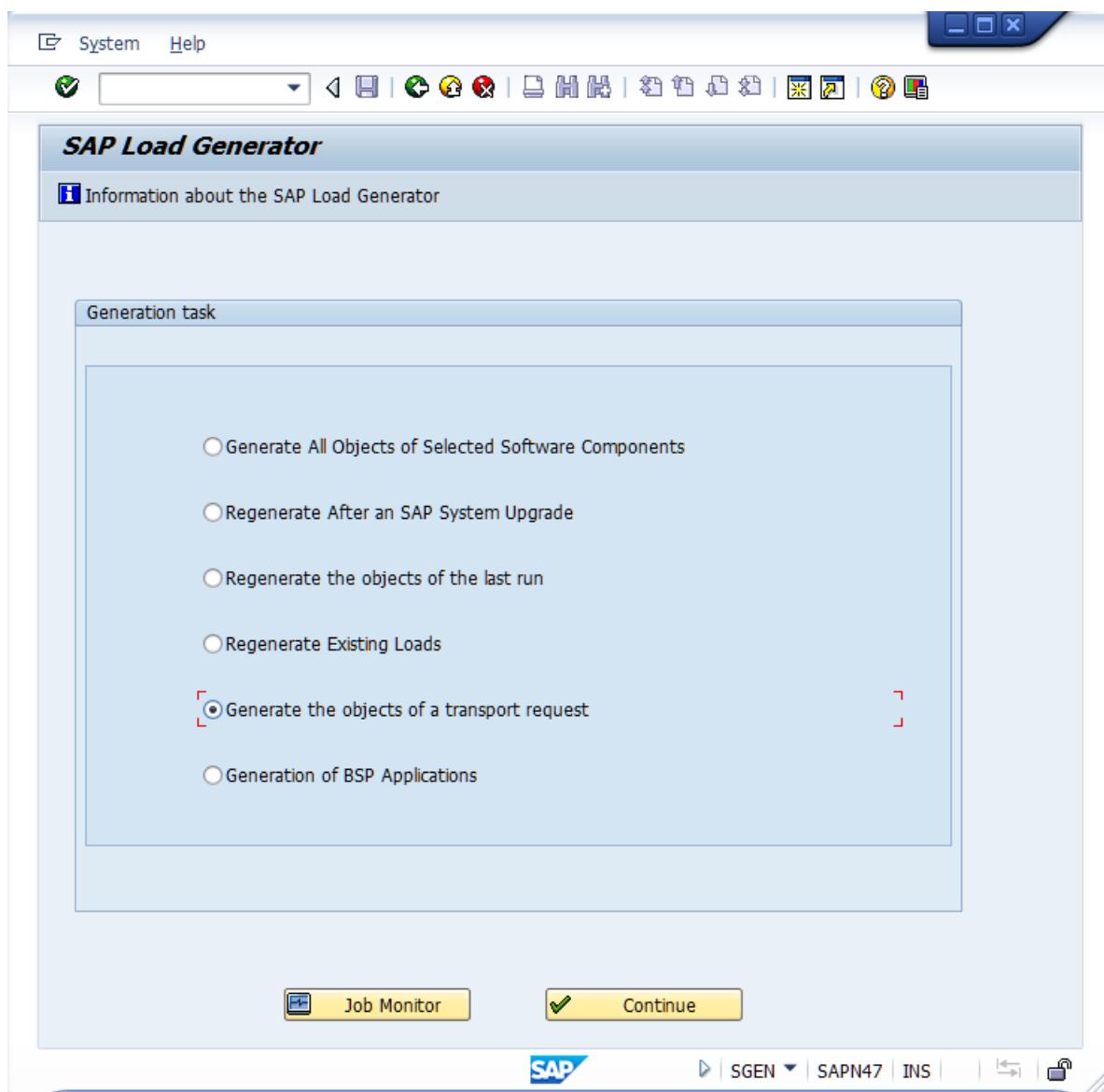
Short dumps

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:

Asia	support-my@readsoft.com
Australia	support-au@readsoft.com
Benelux	support-nl@readsoft.com
Brazil	support-br@readsoft.com
Chile	support-cl@readsoft.com
Denmark	support-dk@readsoft.com
Finland	support-fi@readsoft.com
France	support-fr@readsoft.com
Germany	support-de@readsoft.com
Latin America	support-cl@readsoft.com
Norway	support-no@readsoft.com
Spain & Portugal	support-es@readsoft.com
Sweden	support-se@readsoft.com
United Kingdom	support-uk@readsoft.com
United States	support-us@readsoft.com
Partner Support	support.partner@readsoft.com