

PERFORMANCE ANALYTICS

Installation and Configuration Guide

Version: 7.4

Written by: Product Knowledge, R&D

Date: November 2017



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Overview

Continuous process performance improvement is a hallmark for the sustainable success of any organization, but it is both challenging and expensive without access to real information that is delivered in a format that easily enables analysis. SAP Business Warehouse (BW) is the tool of choice for many organizations, and Kofax's BW solution, PERFORMANCE ANALYTICS, makes it easier, faster and less expensive to report on and improve the accounts payable and sales order processes.

For customers using SAP NetWeaver Business Warehouse, Kofax offers a suite of flexible components and reports integrated into SAP and BW to intelligently analyze, evaluate and report on business performance. Customers can use these data warehouses and accelerator components to gather, analyze and report on the information acquired during the capture and approval processes, using their BW solutions.

Kofax's PERFORMANCE ANALYTICS solution is tightly integrated with PROCESS DIRECTOR Accounts Payable (formerly known as the INVOICE COCKPIT Suite) and Sales Orders and comes complete with ready-to-go reports, data models, extractors and transformations, to significantly reduce implementation time and costs. The solution is extensible, web-enabled and provides an integrated view of corporate data.

About this guide

This guide explains how to install and configure PERFORMANCE ANALYTICS. It assumes that you are already familiar with SAP NetWeaver Business Warehouse and PROCESS DIRECTOR Accounts Payable (PD AP) or PROCESS DIRECTOR Sales Orders (PD SO).

Note: The Sales Order (SO) and Generic PROCESS DIRECTOR (PD) reports are not part of the current delivery. They will be provided in an additional transport at a later date.

Please note that this guide is available only in English.

See the other following PERFORMANCE ANALYTICS guides:

- *PERFORMANCE ANALYTICS User Guide*
Describes all the standard reports shipped with PERFORMANCE ANALYTICS.
- *PERFORMANCE ANALYTICS Technical Documentation*
A list of all the Extractors, InfoObjects, DataStore Objects, InfoCubes and other information relevant to understanding the workings of PERFORMANCE ANALYTICS.
- *PERFORMANCE ANALYTICS – How to load data using process chains*
Describes how to load data using process chains. To avoid problems during data load, the meta chains must be triggered in a specific order.
- *PERFORMANCE ANALYTICS – Data Flow and Process Chains*
Describes all the data flows and process chains.

For more information about PROCESS DIRECTOR Accounts Payable, see the following guides:

- *PROCESS DIRECTOR Accounts Payable Configuration Guide*
- *PROCESS DIRECTOR Accounts Payable User Guide*
- *PROCESS DIRECTOR Configuration Guide*
- *PROCESS DIRECTOR User Guide*

This guide contains the following main chapters:

- [About PERFORMANCE ANALYTICS](#)
Provides an overview of PERFORMANCE ANALYTICS, as well as information about the data extraction and aggregation processes.
- [Installing a license](#)
Describes how licensing works and how to obtain and install a license.
- [Installing PERFORMANCE ANALYTICS in SAP ERP/ECC](#)
Explains how to install PERFORMANCE ANALYTICS, in both ERP and BW. It also lists the system requirements.
- [Install PERFORMANCE ANALYTICS in SAP BW](#)
Explains how to install PERFORMANCE ANALYTICS in SAP BW. It also lists the system requirements.
- [/EBY/CONFIG transaction](#)
Describes the general configuration of the /EBY/CONFIG transaction, as well as the configuration for Accounts Payable and PROCESS DIRECTOR.
- [Installing the INVOICES plug-in](#)
Describes how to install the INVOICES plug-ins that are used to extract data from the INVOICES database and export it to PERFORMANCE ANALYTICS.
- [Appendix A: INVOICES plug-ins settings](#)
Lists all the settings in the two plug-in INI files.
- [Appendix B: Data extractors](#)
Lists all those fields in PROCESS DIRECTOR and in the INVOICES database that are extracted for use in PERFORMANCE ANALYTICS.
- [Appendix C: Installation checklists](#)
Provides checklists for ERP, BW, and OCR.
- [Appendix D: Additional information](#)
Provides details about the filters that are used for the extraction, transformation, and loading of the PROCESS DIRECTOR object types.

About PERFORMANCE ANALYTICS

Overview

Kofax PERFORMANCE ANALYTICS provides detailed reporting for Sales Orders and the Accounts Payable automation process (handling of incoming invoices), covering the entire process from scanning to posting.

Incoming invoices are scanned using Kofax's OCR solution, INVOICES, and then transferred to Kofax PROCESS DIRECTOR, where exception handling and posting to SAP take place. Data is extracted from both INVOICES and PROCESS DIRECTOR Accounts Payable, aggregated, and then made available in PERFORMANCE ANALYTICS.

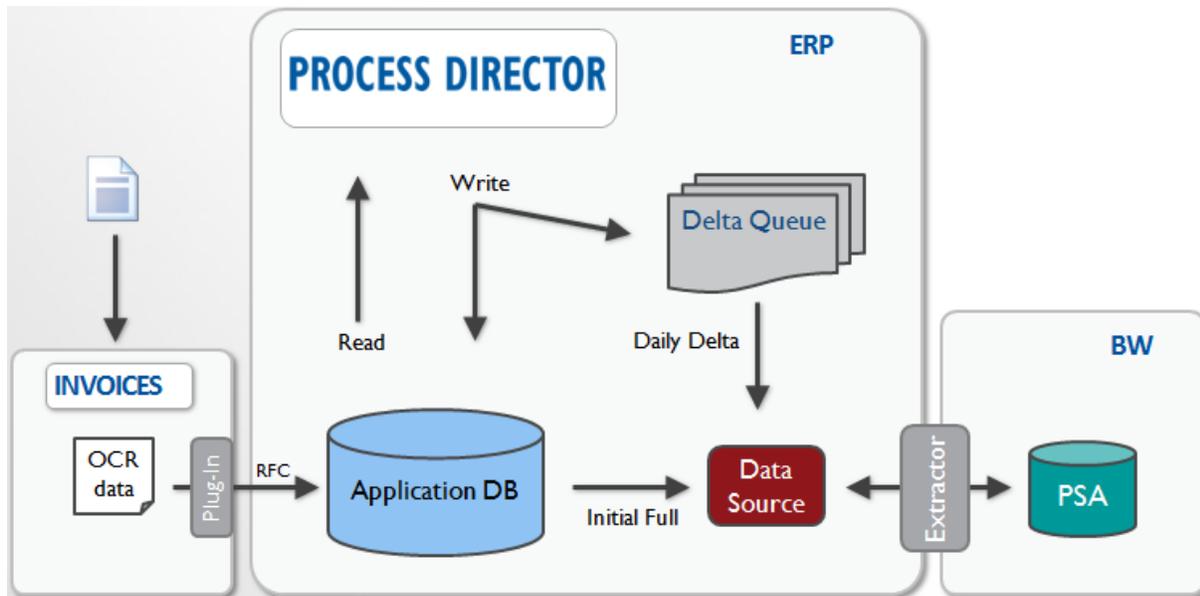
PERFORMANCE ANALYTICS provides:

- Extractors for the ERP system
- Process Chains for automated ETL (Extraction, Transformation, Loading)
- InfoProviders (InfoCubes, DataStore Objects, InfoObjects bearing characteristics)
- InfoObjects
- Standard reports
- DataSources (transactional, texts, hierarchies)
- Transformations

Note: PERFORMANCE ANALYTICS is available in the following languages:

- English
- German
- Dutch
- French
- Spanish

Architecture



Data extractors

PERFORMANCE ANALYTICS provides data extractors for transactional data, master data attributes and master data texts.

Delta extraction from the SAP delta queue is provided for all transactional data. Early initialization is possible. Textual master data is extracted only in full mode.

See [Appendix B](#) for information on the available extractors.

Process chains

PERFORMANCE ANALYTICS provides process chains for the loading of master data, transactional data and texts. See *PERFORMANCE ANALYTICS Technical Documentation*, *PERFORMANCE ANALYTICS – How to load data using process chains* and *PERFORMANCE ANALYTICS – Data Flow and Process Chains* for information on the available process chains.

The table below shows all the transformations that load from additional sources by SQL statements. The loads of the additional sources must be done before these transformations can be executed.

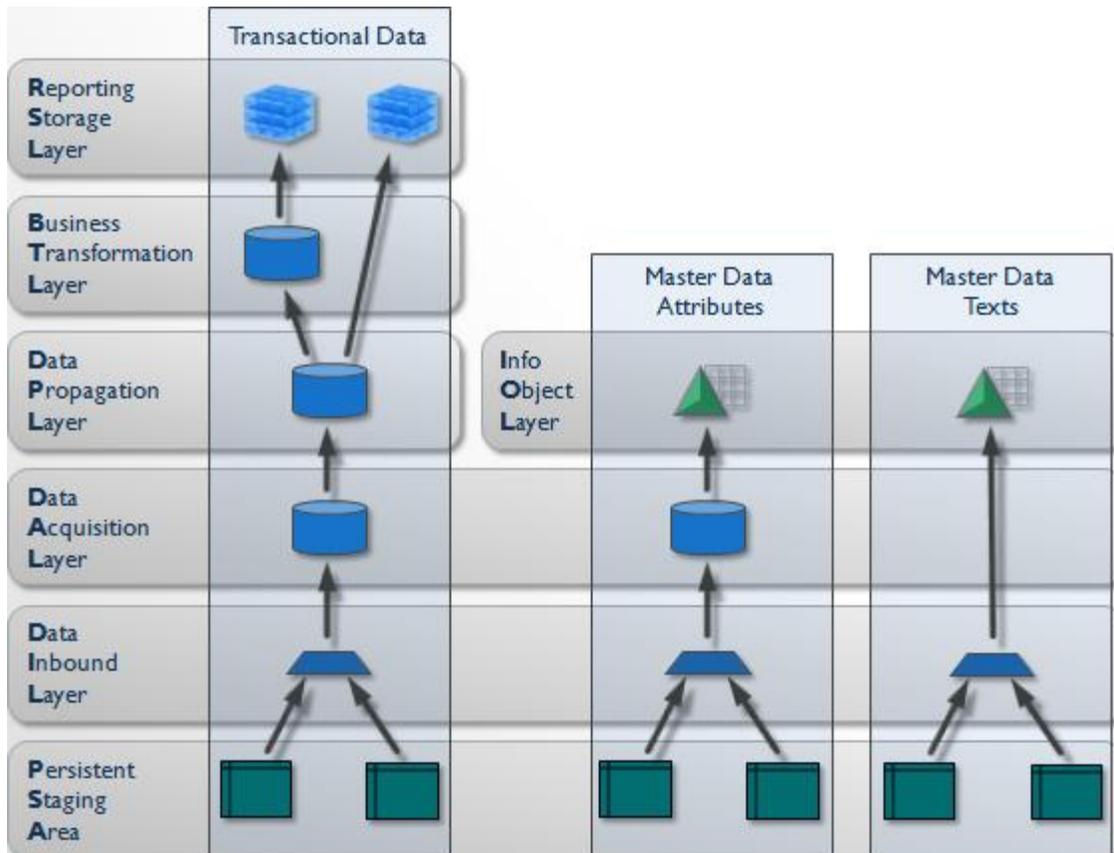
Transformation					
Source		Target		Additional Source (data selected by SQL in the transformation)	
Type	Technical Name	Type	Technical Name	Type	Technical Name
DSO	/EBY/APHEAP	DSO	/EBY/APPAYB	ATTR	/EBY/APUNDOC
DSO	/EBY/APHEAP	DSO	/EBY/APTIMB	ATTR	/EBY/APUNDOC
DSO	/EBY/APWOHP	DSO	/EBY/APWCTB	DSO	/EBY/APWORP
				ATTR	/EBY/WCSTATUS
DSO	/EBY/APHEAA	DSO	/EBY/APHEAP	DSO	/EBY/APITEP
				DSO	/EBY/APWOHP
				DSO	/EBY/APACCP
DSO	/EBY/APHEAA	ATTR	/EBY/APUNDOC	DSO	/EBY/APMSGP
DSO	/EBY/APWOHA	ATTR	/EBY/APUNDOC	DSO	/EBY/APHEAP
				ATTR	/EBY/APWORKFL
				ATTR	/EBY/APACCIT
DSO	/EBY/APITEP	DSO	/EBY/APSPOB	DSO	0SRAC_D4
				DSO	0SRPO_D1
				DSO	0BBP_PO_ID
				DSO	/EBY/APS RVP
DSO	/EBY/APOCRSP	DSO	/EBY/APOFEVB	ATTR	/EBY/OCR PSTDO
DSO	/EBY/APOCRPP	TRCS	/EBY/APEVENBIS	ATTR	/EBY/OCR PSTDO

Transformation					
Source		Target		Additional Source (data selected by SQL in the transformation)	
Type	Technical Name	Type	Technical Name	Type	Technical Name
DSO	/EBY/PDMSGA	DSO	/EBY/PDMSGP	ATTR	/EBY/PDUNDOC
DSO	/EBY/PDHEAP	DSO	/EBY/SOHEAS	DSO	/EBY/SOHEAP
DSO	/EBY/WCPROA	DSO	/EBY/WCPROP	ATTR	/EBY/PDUNDOC
				ATTR	/EBY/WCUNDOC
				ATTR	/EBY/WCSTPDOC
DSO	/EBY/WCACTP	DSO	/EBY/WCACTS	ATTR	/EBY/PDUNDOC
				ATTR	/EBY/WCUNDOC
				ATTR	/EBY/WCSTPDOC

Example: The load of /EBY/APUNDOC has to be finished before the transformation from /EBY/APHEAP to /EBY/APPAYB can be run.

Data aggregation

The diagram below depicts how data is aggregated for reporting (technical description and business logic).



Info Providers and Info Objects

The lowest aggregation level of each cube is the document level. All queries are built on Multiproviders.

Time-slicing

Time-slicing is a time-dependent view of the data. Timeslices are created for the easy selection and comparison of past business dates. Time-sliced data is stored in the Data Propagation Layer.

By using one or more time filters on every query, PERFORMANCE ANALYTICS always selects the version of the data that was valid at the time specified or for that specific time interval. This prevents the selection of multiple versions of the same document. If a document did not exist at that designated time, it will not be visible in the report. This means that every query displays only the data that was in the system at the chosen time or time frame.

Reporting tools

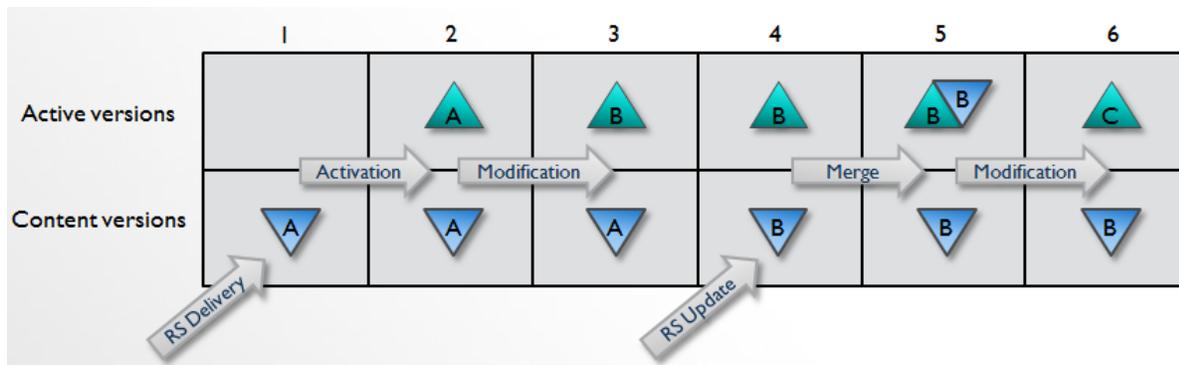
- PERFORMANCE ANALYTICS uses the BEx Analyzer and the report monitor (Transaction code, RSRT) for reporting.
- BEx Query Designer 7.0 is used for the development of queries.
- Web Templates and Web Application Designer (WAD) are currently not used to design reports.
- For Portal and Web queries, the Java stack is required for developing or executing reports.

Queries

Standard reports

PERFORMANCE ANALYTICS provide more than 40 standard reports that you can use right out of the box or as templates for developing your own reports. These reports are described in the *PERFORMANCE ANALYTICS User Guide*.

Content delivery



Content is delivered for the easy merging of customized changes and Kofax updates.

The Kofax ABAP code contains Enhancement Spots for easy customizing. These are protected against Kofax updates.

Kofax's content release does not directly use SAP BI content objects. The content objects used are always a copy of the SAP content objects. Only technical and time-related SAP InfoObjects, such as ODATE, are used.

INVOICES plug-in

Kofax provides a plug-in for INVOICES, to extract data from its database and transfer it via RFC to PROCESS DIRECTOR tables inside SAP. This plug-in is available on Kofax Marketplace.

Repository size

The amount of data stored in SAP BW depends on:

- The number of documents
- The number of workflows configured, and how many steps are contained in each one
- Whether data from INVOICES is extracted or not

You can also see the sizing guidelines from SAP: <https://service.sap.com/performance> (logon required).

Installing a license

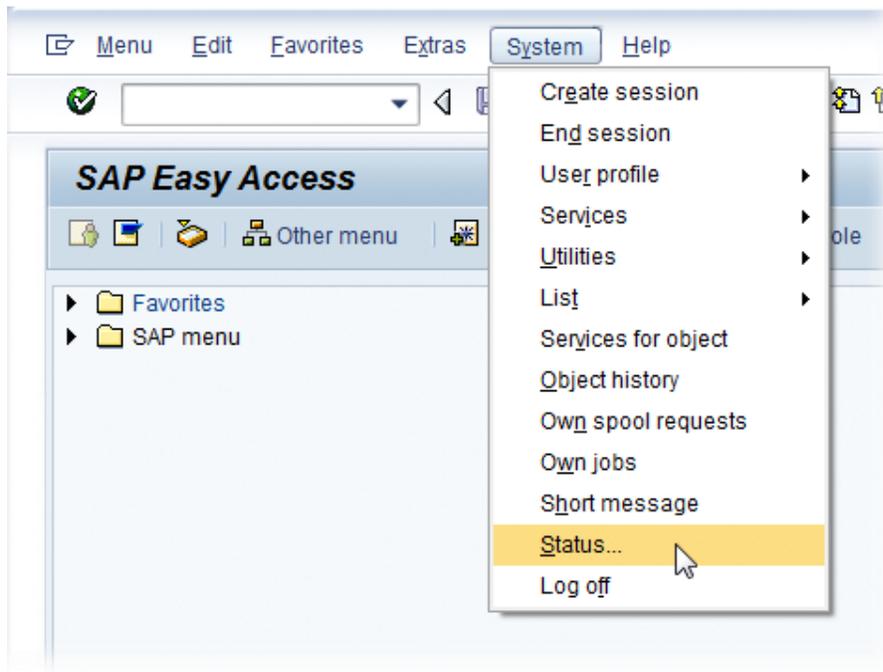
Overview

You need to install a license for PERFORMANCE ANALYTICS in ERP. The license is only an activation license and contains no document counter. The license checks only whether a valid license exists for PROCESS DIRECTOR Accounts Payable (during the transfer of the document into PROCESS DIRECTOR) or not. If no license exists for PROCESS DIRECTOR Accounts Payable, or it has expired, PERFORMANCE ANALYTICS will cease working too.

There is no license check inside BW. Even if the PERFORMANCE ANALYTICS license is no longer valid, the data that has already been transferred to BW can continue to be viewed.

Obtaining a license

To order your license(s), you need your SAP Installation number and your SAP System ID. This information is found by choosing **System** > **Status** from the menu bar.



You need:

- SAP System data > Installation number
- Database data > Name
- **Usage data > Client** (required only if your license is intended to be restricted to this client)

Usage data	
Client	<input type="text"/>
User	<input type="text"/>
Language	<input type="text"/>
Previous logon	<input type="text"/>
Logon	<input type="text"/>
System time	<input type="text"/>

SAP data	
Repository data	
Transaction	<input type="text"/>
Program (screen)	<input type="text"/>
Screen number	<input type="text"/>
Program (GUI)	<input type="text"/>
GUI status	<input type="text"/>
SAP System data	
Component version	<input type="text"/>
Installation number	<input type="text"/>
License expiry date	<input type="text"/>

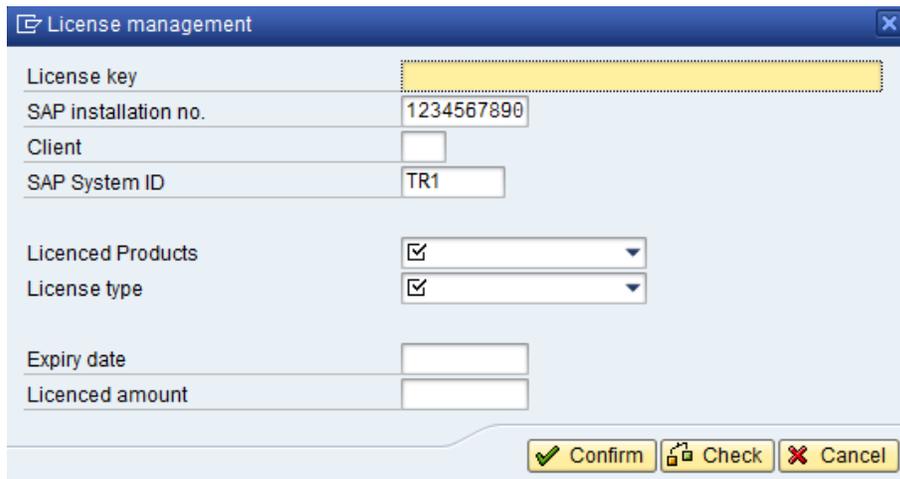
Host data	
Operating system	<input type="text"/>
Machine type	<input type="text"/>
Server name	<input type="text"/>
Platform ID	<input type="text"/>

Database data	
System	<input type="text"/>
Release	<input type="text"/>
Name	<input type="text"/>
Host	<input type="text"/>
Owner	<input type="text"/>

After placing your order, you will receive the license (in a .TXT file) from Kofax.

Installing a license

1. Go to [/COCKPIT/C46](#).
2. Create a new license entry.
3. Enter your license information from the license file you received from Kofax.



Note: Your license file may not include a **Client** number or **Expiry date**. If no **Client** is specified, the license is valid for all clients.

4. Click **Check** to ensure that you have entered all the relevant information.
5. Click **Confirm** to complete the license installation.

Installing PERFORMANCE ANALYTICS in SAP ERP/ECC

Overview

This chapter explains how to install PERFORMANCE ANALYTICS. The installation consists of the following steps:

1. Ensuring your SAP system meets the [system requirements](#).
2. [Configuring the namespaces](#).
3. [Importing the transport](#).
4. [Installing the data extractors in the ERP system](#).
5. [Setting up the SAP PO integration in the ERP system](#).

Content is delivered in content packages. These are delivered separately from PROCESS DIRECTOR (although, of course, a first installation can include these packages).

Note: If the extraction of the OCR statistics data has been planned, you must also [install the plug-in for INVOICES](#) after you have installed PERFORMANCE ANALYTICS.

Minimum system requirements

Kofax

PERFORMANCE ANALYTICS for Accounts Payable:

- PROCESS DIRECTOR 7.1 Accounts Payable, or INVOICE COCKPIT Suite 3.2 or later

For Accounts Payable Invoices Statistics:

- INVOICES 5-5 or later (Kofax DOCUMENTS is not supported)
- Kofax INVOICE COCKPIT Connector 3.1 or later

PERFORMANCE ANALYTICS for PROCESS DIRECTOR:

- PROCESS DIRECTOR 7.3 or later

SAP (ERP/ECC)

- BEx Version 7.x (based on 7.20); Support Package 2, Patch 1
The following software components have to be at least of version, SAP NetWeaver 7.0 EHP 2 SP 17:
- SAP_BW
- PI_BASIS
- ST-PI

Configuring the namespaces

Note: Configuring the **Namespace role** as anything else other than **C – Recipient** will lead to having to delete every single object in both the **/EBY/** and **/B507/ Namespaces** to correct the entry.

You must create two namespaces on both the ERP and BW systems:

- **/EBY/** – The namespace for PROCESS DIRECTOR. If PROCESS DIRECTOR is already installed, this namespace will already exist. In that case, you need to create only the **/B507/** namespace (below).
- **/B507/** – The namespace for PERFORMANCE ANALYTICS generated objects.

Note: It is recommended that you create and configure these namespaces by importing [a separate transport by Kofax](#).

1. Start the SAP transaction, SE03.
2. In the **Administration** folder, click **Display/Change Namespaces** and then the **Execute** button. In change mode, click **New entries**.

3. Create the namespace(s) with the following data:

Namespace	/EBY/
Namespace role	C - Recipient
Correction license	05790374410114137903
Short text	PROCESS DIRECTOR by Kofax
Owner	Kofax

Namespace	/B507/
Namespace role	C - Recipient
Correction license	23178636483082621615
Short text	BW generation namespace for /EBY/
Owner	Kofax

4. While still in the SE03 transaction, click **Set System Change Option** and then the **Execute** button.
 5. Select **Modifiable** for both the namespaces.

Note: Configuring the **Namespace role** as anything else other than **C – Recipient** will lead to having to delete every single object in both the **/EBY/** and **/B507/ Namespaces** to correct the entry.

Later, in the BW system, you must connect these two namespaces by using the RSNSPACE transaction (see [General configuration steps](#)).

Importing the transports

Transport files

The transport files you need depend on:

- Whether you are running PROCESS DIRECTOR Accounts Payable (PD AP) or its predecessor, the INVOICE COCKPIT Suite (ICS).
- The content you want to have reports for:
 - PROCESS DIRECTOR Accounts Payable
 - PROCESS DIRECTOR Accounts Payable with OCR
 - PROCESS DIRECTOR Sales Orders

Note: You can download the transport files from Kofax's internal SharePoint site, the SAP Projects email address (projects-sap@kofax.com) or with the help of your local Kofax contact. Each transport folder comes with an attached text file, which has the respective transport numbers and their import order. Please ensure that you read through these files as they also contain information regarding the installation itself.

Note: The Sales Order (SO) and Generic PROCESS DIRECTOR (PD) reports are not part of the current delivery. They will be provided in an additional transport at a later date.

The following table lists the EMEICs and Kofax PD Notes (RSPDNs) that have to be implemented.

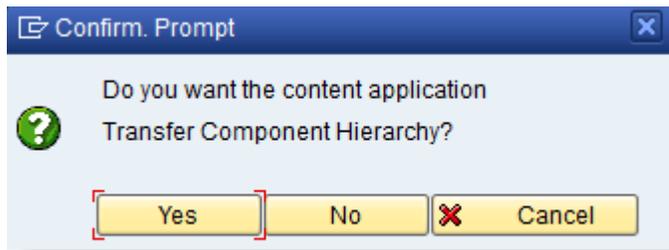
RSPDN 6938	Required for PD 7.1, without any SP.
EMEIC2102	PERFORMANCE ANALYTICS activation license. Text file available with PD AP 7.2, PD AP 7.1 SP2, ICS 3.2 SP4.
EMEIC2021	Delta queue functionality. Text file available with PD AP 7.2, PD AP 7.1 SP2, ICS 3.2 SP4.
RSPDN 3453	Required until PD 7.3 SP1 and PD 7.2 SP3; required only if OCR is used.
RSPDN 7690	Required for PD 7.2 SP0; required only if OCR is used.

Installation in the ERP SYSTEM

Installing extractors

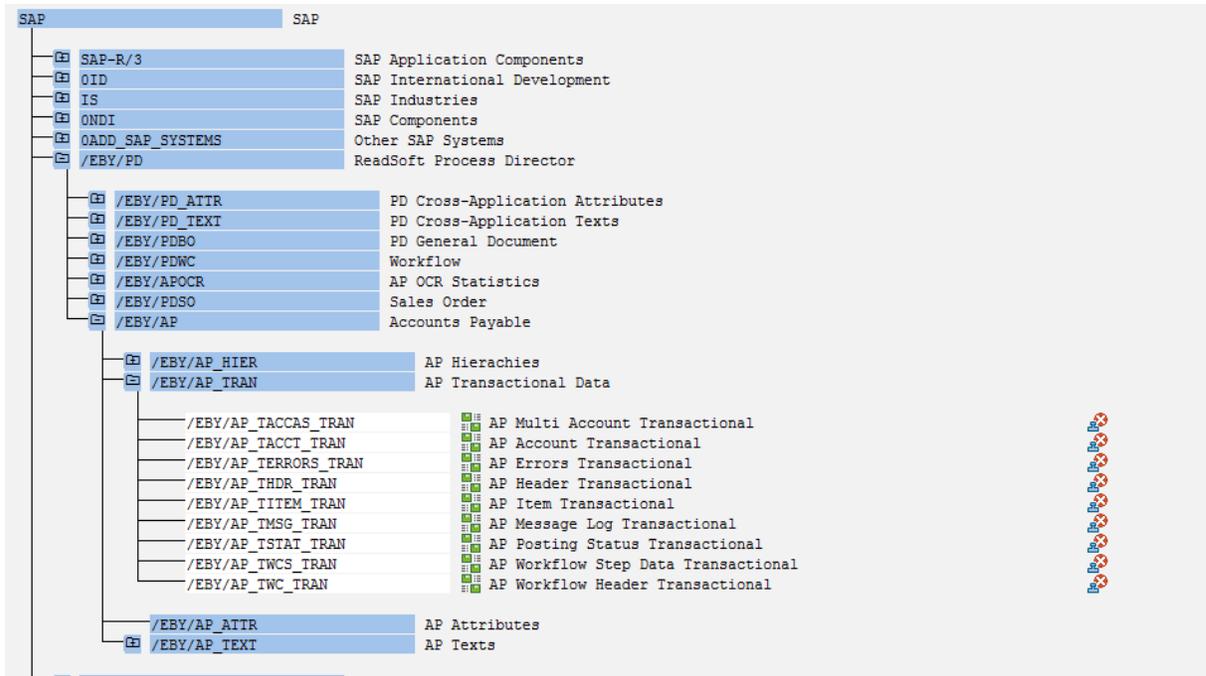
1. In your SAP ERP system, go to SE19.
2. Activate the /EBY/BW_RLB_EXTRACT Badl.
3. Go to RSA9.

A popup is displayed.



4. Click **Yes**. This activates the Kofax application component hierarchy.
5. Go to RSA5.

6. Check the application component hierarchy. The /EBY/PD node, together with its subnodes and data sources, must exist. It must be the same as the list of data sources in [Appendix B: Data extractors](#).



7. Activate all the /EBY/PD data sources.
 1. HERE you must create an Active version of the data sources from the Content version provided by Kofax.
 2. You can select either single entries or sub-nodes (position the cursor on the node and click **Select Sub-tree**) and click the **Transfer DataSources** button.
 3. After activating the DataSources, you can check the extraction process in RSA3.
8. If the ReadSoft_PA_AP_OCR_ERP_Extractors transport request has been imported, it implies that the OCR statistics data will be extracted. In such cases, the [mapping of the OCR statistics data](#) within PROCESS DIRECTOR must be checked.

Setting up SAP PO integration in ERP

SAP standard activation

PO integration leverages the standard SAP extractors for the PO data. In turn, PERFORMANCE ANALYTICS expects the following extractors to be active and running in the ERP system:

- 2LIS_02_HDR
- 2LIS_02_ITM
- 2LIS_02_ACC
- 2LIS_02_SRV

For extractors 1-3, the LBWE and OLI3BW transactions can be used if they are not active yet. For additional information, please see the standard SAP documentation.

For 2LIS_02_SRV, the following SAP Notes must be applied:

- 1606666: To make the extractor accessible
- 2003744: To add the capability to map the SES line information to the PD AP line information

Please see the *PERFORMANCE ANALYTICS 7.4 User Guide* for more information about the technical and functional restrictions for the SAP PO integration report.

Installing PERFORMANCE ANALYTICS in SAP BW

Minimum system requirements

- SAP NetWeaver BI 7.0 SP Level 15
- Component Version SAP NetWeaver 2004s
- BEx Version 7.x (based on 7.20); Support Package 2, Patch 1

Note: An installation on lower support packages can succeed, but has not been tested by Kofax. Also, PERFORMANCE ANALYTICS makes use of 7.x technology and is not downward compatible with 3.x versions of BW.

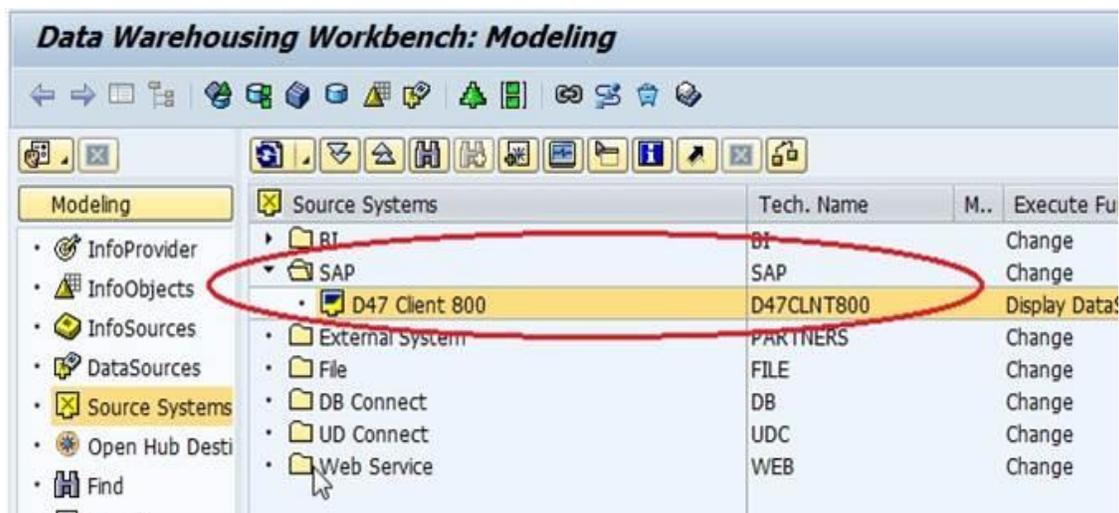
Note: PERFORMANCE ANALYTICS has been functionally tested on BW 7.4 SP 10.

Connecting BW to ERP

The following step-by-step guide describes how to create a new connection to a source system. Usually, this will already be set up.

Note: Please check if these actions are really necessary.

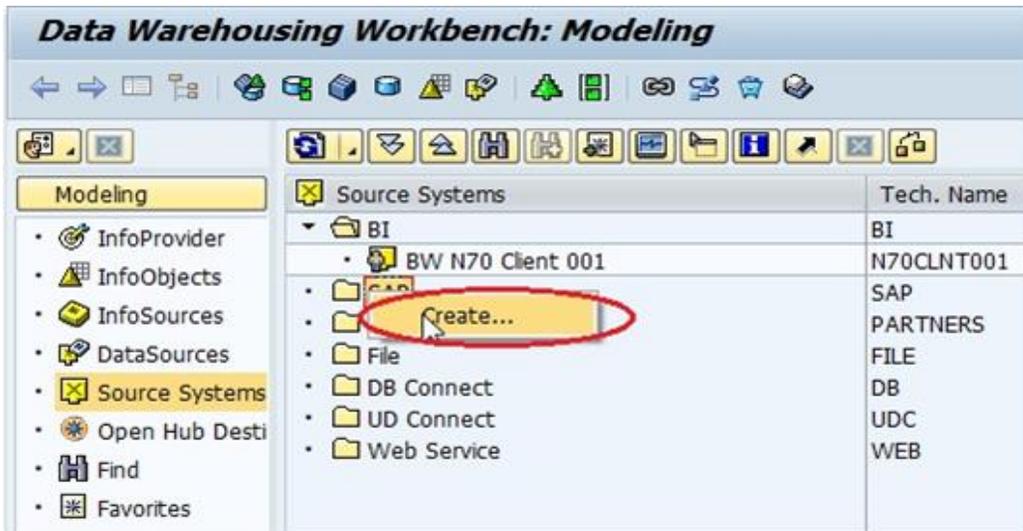
1. Call the RSA13 transaction and check the existing connection.



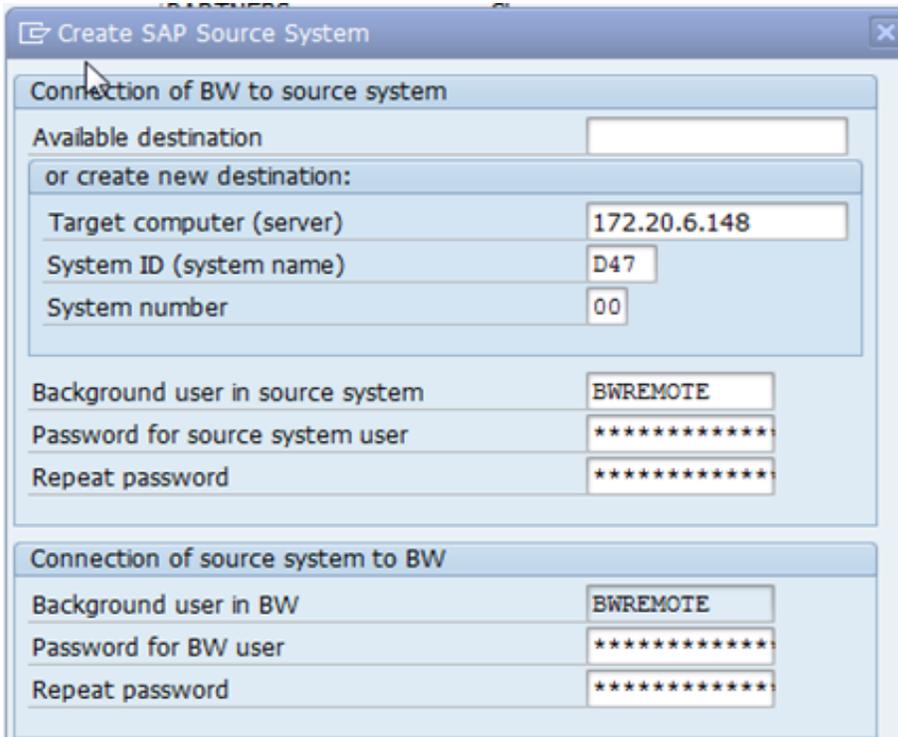
2. Create a new connection, if none exists.



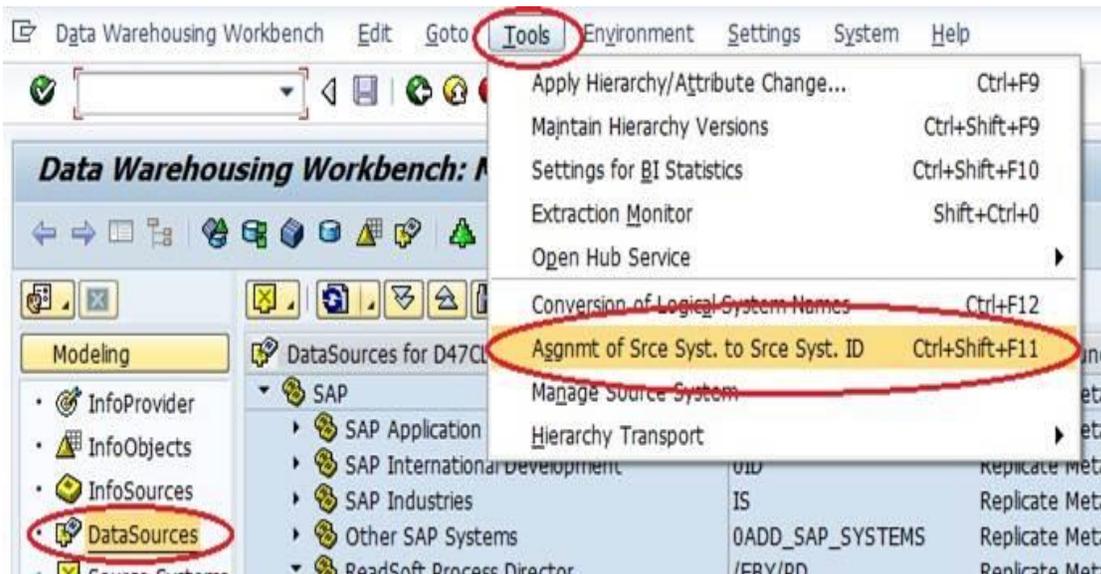
3. Right-click the **SAP** folder to create a new R3 connection.



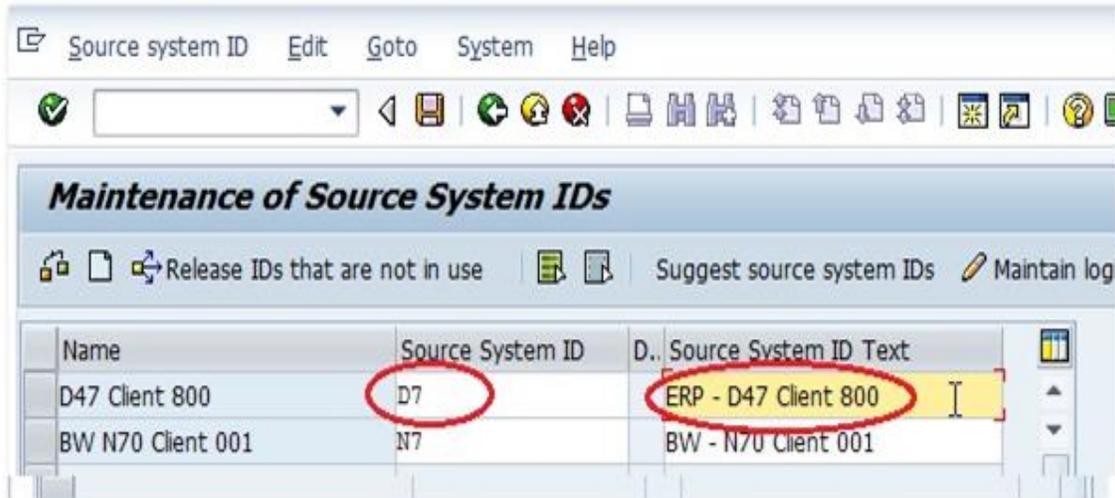
- Provide the required data to create the new connection and save the settings.



- Call the RSA1 transaction, select **DataSources** and choose Tools -> Asgmt of Srce Syst. to Srce Syst. ID.



6. Select the source system, and then provide the source system ID and text for the ERP system.



7. If you want to install the BW content for it, add the source system in the RSORBCT transaction.

Connecting the /EBY/ and /B507/ namespaces

Objects in the /EBY/ namespace have to generate their local data dictionary elements in the /B507/ namespace associated with Kofax. After creating the namespaces, change to the RSNSPACE transaction and create an entry in the *BW Partner Namespaces* table:

Field	Description
Namespace	/EBY/
Gen NS	/B507/
BW appl.	BW
Active	X

Maintain BW Namespaces

BW Default Namespaces

Namespace	Gen NS	BW appl.	Syst.Type	Active	Long desc
	/BIC/		CUS	X	Namespa
0	/BI0/	BW	SAP	X	Namespa
1	/BI0/	BW	SAP	X	Namespa
2	/BIC/	BW	GEN	X	Namespa
3	/BIC/	BW	GEN	X	Namespa



BW Partner Namespaces

Namespace	Gen NS	BW appl.	System type	Active	Long description
/BI1/	/BI2/	BW	PAR	X	BI Namespace
/BWTEST01/	/B71/	BW	PAR	X	BI Namespace
/EBY/	/B507/	BW	PAR	X	Process Direct
/ILM/	/1IL/	BW	PAR	X	





Note: Do not associate the /EBY/ namespace with any other namespace. This is possible, but rolling back the generated DDIC objects is very time consuming and requires high-level administration authorizations.

Activating query variables

Purpose

Query variables like `EBY_REPORTING_DATE` are used to adjust a query output on runtime. For example, `EBY_REPORTING_DATE` is used for PA time slicing. Based on the input date, only the data that is valid on that specified date is taken into account.

How to activate

Query variables are controlled through a standard SAP user exit. To activate the variables, add the following `INCLUDE` to the standard SAP include, `ZXRSRU01`.

```
INCLUDE /EBY/RS_PA_QUERY_VARIABLES IF FOUND.
```

Configuring currency conversion

Purpose

When dealing with international companies, invoices usually come in different currencies like EUR, USD or GBP. In queries, amounts are displayed along with their currencies. As BW cannot aggregate amounts of different currencies properly, it will display only a * to indicate that the aggregation could not be done. To prevent this, you can convert everything into a common currency and the aggregation will then be done properly.

How to configure

In the `RSCUR` transaction, create a definition. In the detail screen of the definition, you can choose which currency to use as the basis of the conversion and which as the target. You can either set it as fixed, based on document currency (only for source), or dynamically. You can also configure the exchange rate and time reference. Time reference is the date on which the exchange rate is selected.

Final workflow status

Purpose

Every workflow could go through a diversity of statuses before being finished. In some queries, a finished workflow needs to be handled differently than an ongoing one. For this, PERFORMANCE ANALYTICS should know which status implies that the workflow is done, so that that status is not changed anymore. The *Final Workflow Status* flag tells PERFORMANCE ANALYTICS which statuses those are.

How to configure

After loading the master data to the workflow, the status info object maintains this master data.

Characteristic /EBY/WCSTATUS - Maintain Master Data: Selection

Source system ID to 

Workflow Status to 

Language Key

Final WC status to 

Maximum no. of hits

Display Technical Data Records

Start Dialog to Delete

In the maintenance table, set the flag for every status that is considered *final*.

Characteristic /EBY/WCSTATUS - maintain master data: List						
SrcSys...	Workflow S	L	Final WC s	Short Description	Medium Description	Long Description
Q7						
Q7	1	EN		Sent	Sent	Sent
Q7	2	EN		Being processed	Being processed	Being processed
Q7	3	EN		Overdue	Overdue	Overdue
Q7	4	EN	X	Released	Released	Released
Q7	5	EN	X	Declined	Declined	Declined
Q7	6	EN	X	Recalled	Recalled	Recalled
Q7	7	EN		Noted	Noted	Noted
Q7	8	EN		Forwarded	Forwarded	Forwarded
Q7	9	EN		Sent for information	Sent for information purposes	Sent for information purposes
Q7	10	EN		Substitution	Substitution	Substitution
Q7	11	EN		Query	Query	Query
Q7	12	EN		Replied	Replied	Replied
Q7	13	EN		Partially accepted	Partially accepted	Partially accepted
Q7	41	EN		(Run time only) Web	(Run time only) Web App: Release, prior	(Run time only) Web App: Release, prior to user assignment
Q7	42	EN		(Run time only) Sent	(Run time only) Sent for query	(Run time only) Sent for query
Q7	43	EN		(Run time only) Quer	(Run time only) Query answered	(Run time only) Query answered
S4	1	EN		Sent	Sent	Sent
S4	2	EN		Being processed	Being processed	Being processed
S4	3	EN		Overdue	Overdue	Overdue
S4	4	EN	X	Released	Released	Released
S4	5	EN	X	Declined	Declined	Declined
S4	6	EN	X	Recalled	Recalled	Recalled
S4	7	EN		Noted	Noted	Noted
S4	8	EN		Forwarded	Forwarded	Forwarded
S4	9	EN		Sent for information	Sent for information purposes	Sent for information purposes
S4	10	EN		Substitution	Substitution	Substitution
S4	11	EN		Query	Query	Query
S4	12	EN		Replied	Replied	Replied
S4	13	EN		Partially accepted	Partially accepted	Partially accepted
S4	41	EN		(Run time only) Web	(Run time only) Web App: Release, prior	(Run time only) Web App: Release, prior to user assignment
S4	42	EN		(Run time only) Sent	(Run time only) Sent for query	(Run time only) Sent for query
S4	43	EN		(Run time only) Quer	(Run time only) Query answered	(Run time only) Query answered

Statuses that are always final are *Declined*, *Recalled* and *Released*, but other new statuses could also be added in PD AP.

Dependency on PD AP

Within PD AP, statuses are highly customizable. Using user exits, the meaning of a status can be completely changed. When configuring the final status in a customer system, always check to see if any changes have been made to the existing statuses or any new statuses have been created, and if yes, whether or not they have any influence on this configuration.

Setting up SAP PO integration in BW

To set up PO integration within PERFORMANCE ANALYTICS for ACCOUNTS PAYABLE, it is first required to activate the required standard SAP content.

The following standard SAP objects are required to be active at the time of content activation:

Data Sources:

2LIS_02_ACC
2LIS_02_ITM
2LIS_02_HDR
2LIS_02_SRV

Data Storage Objects:

0SRAC_D4
0SRPO_D1

Others

All Transformations, Info Packages and DTPs from the Data Sources to the DSOs have to be also available.

As soon as the state of these objects has been confirmed, the AP PO content of PERFORMANCE ANALYTICS can be activated. After the installation, the connection between the SAP Service Data Source and the PA content must be created. For this, it is required to first create a transformation from `RSDS_2LIS_02_SRV` up to `TRCS/EBY/APSRVI` (no configuration required), and a DTP from `2LIS_02_SRV` to `/EBY/APSRVP` (again, no configuration required). Lastly, the Info Package for the Data Source and the newly created DTP should be added to the `/EBY/APSESP_PSA_DPL` PA Process Chain.

Important

As SAP has removed the planned services extractor from the logistic extractor transaction with ECC6 EHP3 and not added it anywhere else, it has to be created with the help of the mentioned [SAP Notes](#) in the [Installing PA in ERP](#) section. This will create only an active version of this Data Source in the BW system; not a shadow version. In addition, content development with this Data Source will no longer be possible.

/EBY/CONFIG transaction

General configuration (cross-application)

Determining the fiscal year variant

Some transformations (for example, /EBY/APHEAA to /EBY/APUNDOC) compute fiscal time objects like fiscal year and fiscal period from the posting date. For this computation, the fiscal variant is needed.

The fiscal variant can be:

- Set to a constant
- Determined from the company code

If the company code is used to determine the fiscal variant, the /EBY/BUKRS field has to be in the result package of the transformation and the master data for the 0COMP_CODE Info Object has to be loaded.

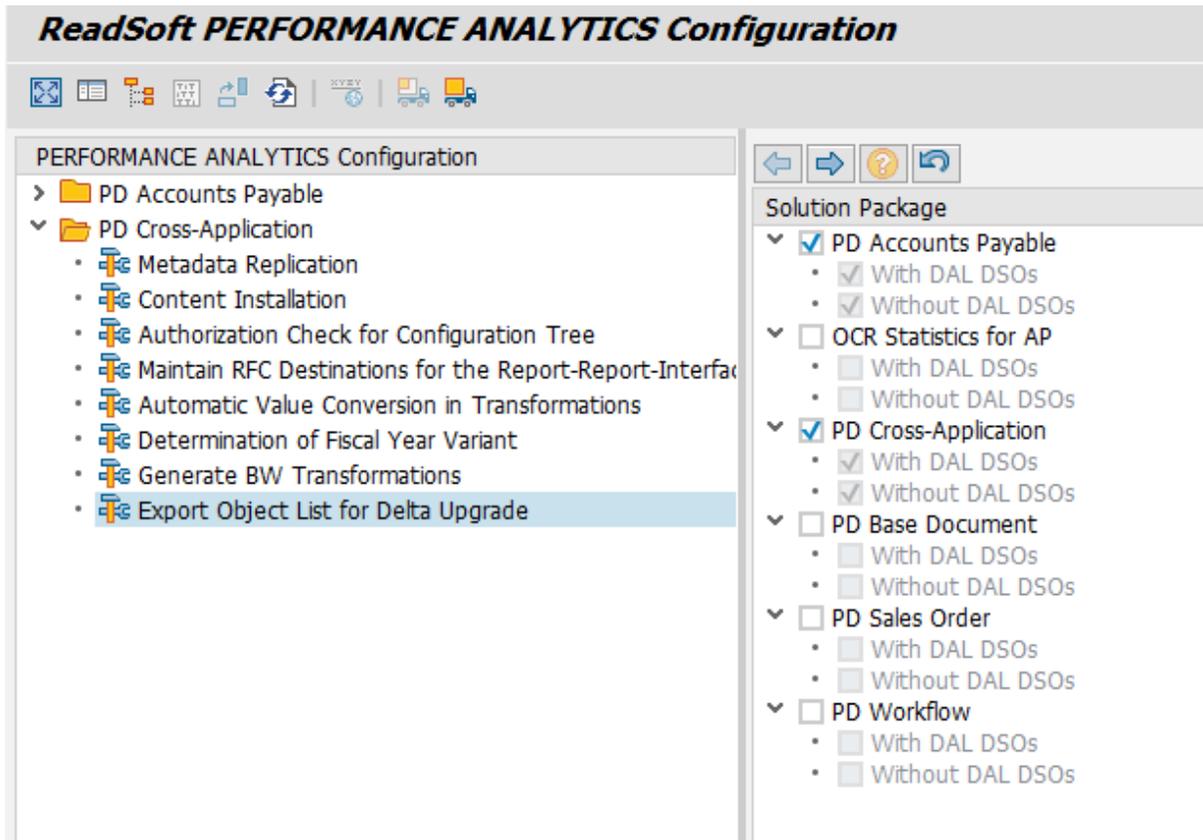
Exporting the object list for delta upgrade

Purpose

This exports a list of all the existing PD PA objects that can be attached to the upgrade request. In turn, the customer will receive an upgrade transport that changes only those objects that are outdated and the release notes that cover only those changes that are relevant to the customer.

Usage

Select the packages that should be upgraded. On the next page, select where to save the list. The number at the bottom displays how many objects you currently have in the system for your selection. All those objects will be written into the file. After exporting, send the file to your project manager, who should then forward it to the lab as an upgrade request.



Important

Do not change the file that was exported. Any change might cause this process to fail.

Checking the authorization for the configuration tree

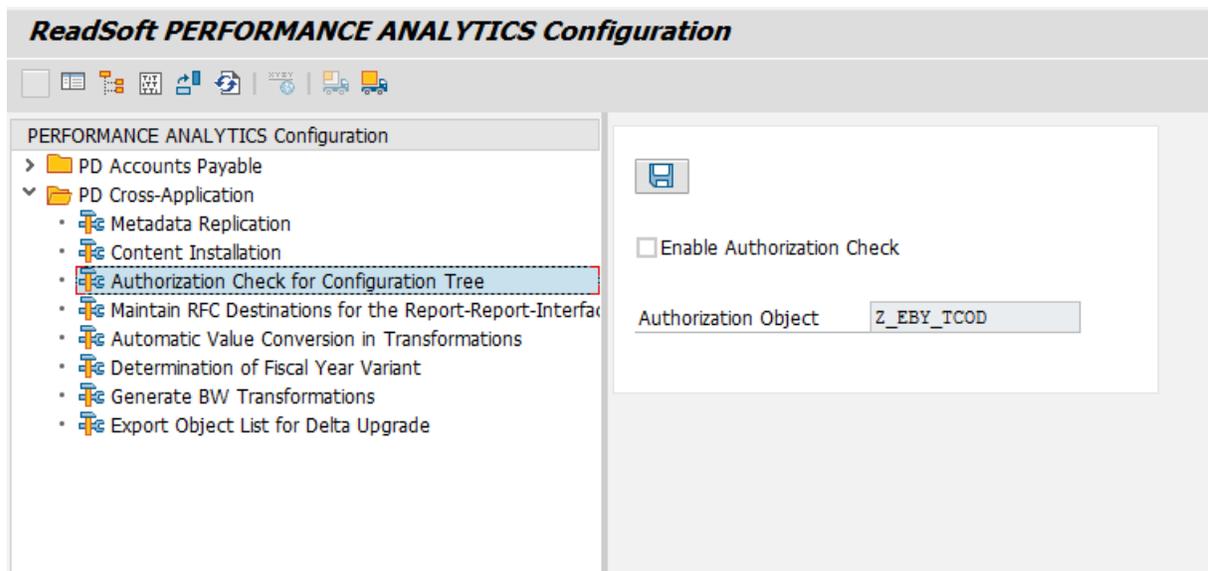
The authorization check was implemented to restrict access to the PD PA configuration tree. Three steps are necessary to enable this feature.

1. Create the authorization object in the BW System (TCODE SU21).

The following field names are required when creating the authorization object:

- TCD for transaction code
- CLASSNAME for class name
- ACTVT for activity. Only the activity 16 (Execute) is required for this field name.

2. Add the authorization object to the USER ROLE and maintain the authorization data (TCODE PFCG).
 - Activity = 16 (Execute)
 - Transaction Code = /EBY/CONFIG (Access to PD PA /EBY/CONFIG TCODE)
 - Classname = /EBY/CL_AP_SYSCONFIG_PROXY (Access to PD Accounts Payable configuration)
 - Classname= /EBY/CL_ALL_SYSCONFIG_PROXY (Access to PD PA Cross-Application configuration)
3. Enable or disable the authorization check in BW after Step 1 and Step 2.
 1. Call /EBY/CONFIG TCODE.
 2. Open the **PD Cross-Application** folder.
 3. Select the **Authorization Check for Configuration Tree** option.



4. Use the **Enable Authorization Check** check box to enable or disable the authorization check.
5. Enter or select the **Authorization Object**.
6. Save your settings.

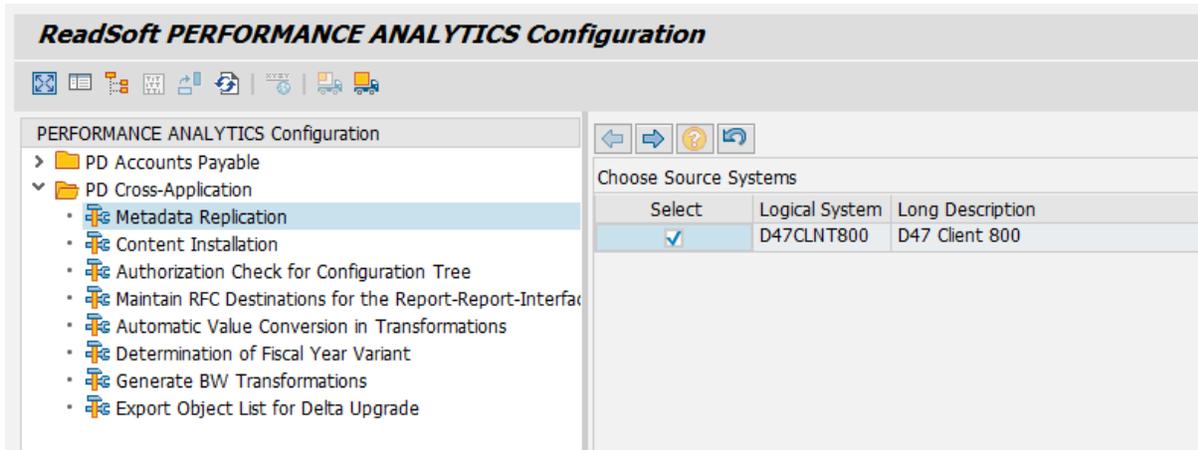
Replicating Kofax DataSources

The replication of data source metadata from source systems is necessary to extract any data. In the SAP standard, if a node has not been replicated earlier, it is not possible to select that specific metadata node for replication. Thus, the standard forces the replication of all metadata, which can result in a high load on the involved systems.

To remedy this issue, PA comes with a functionality that enables the metadata replication of only the required components.

Usage

This functionality can be accessed in /EBY/CONFIG → **PD Cross-Application** → **Metadata Replication**.



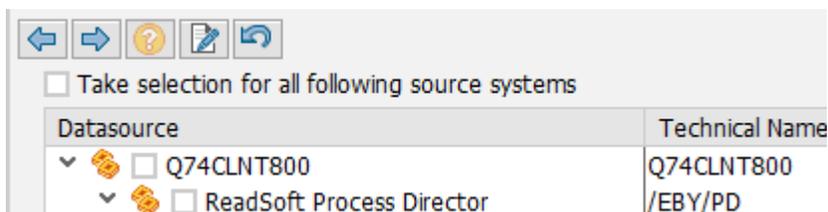
The replication is a multistep process.

1. Choose one or multiple source systems.
2. For each source system, select the application components and data sources you want to replicate.
3. Decide if you want to:
 - Activate the replicated data sources afterwards too.
 - Write the data sources on a package in order to transport them later on.
 - Run the replication as a background job.

General Restrictions

This section is intended to help understand the intent of the function.

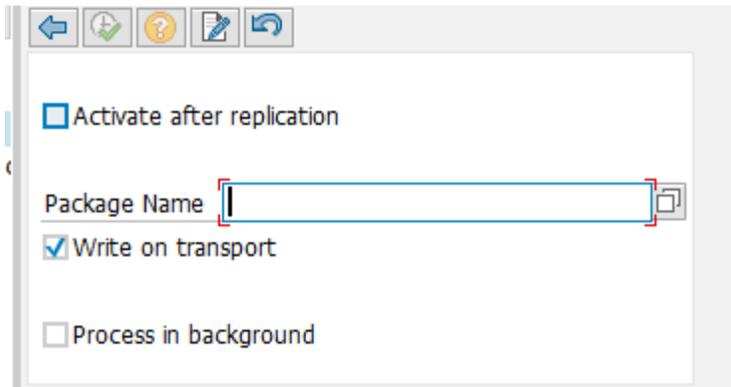
- The replication exclusively works for Kofax PD PA DataSources and is not intended to handle more.
- You cannot create a transport without defining a package or activating the data sources.
- If you select the **Take selection for all following source systems** check box in the **Datasource** selection screen, only DataSources and Application Components with the same technical name will be selected. There is no auto selection of all the child nodes.



- Selection takeover only works for successive selections; not for previous selections.

Good to know

- On the final screen, if you have an invalid selection (for example, a selected transport, but not activated), the **Execute** button will be disabled until the issue is resolved.



- If you select a background job, you will not get any success or failure message.
- The source system picker (first screen) works only if you have configured the source system, including the RFC connection.
- This function is optional. You can still use the standard SAP replication and activation.

Cleaning up deprecated content

This scans the system for old PD PA objects that are no longer in use in the current version. The deletion can also be simulated (except for database deletions).

This should be checked after every upgrade.

Installing the content

Selecting the solution packages

The BW objects of the selected solution packages will be marked for activation. At least one major package (for example, PD Accounts Payable) has to be selected. To install a complete data flow, one of the sub-packages must be selected. Depending on this choice, the BW data flow will be installed with DAL DSOs or just DAL InfoSources. Installing both options in parallel is also possible.

Selecting the source systems

Any content depending on the source systems will be installed for the selected systems. This includes the following object types:

- Data sources
- InfoPackages
- Transformations
- DTPs
- Process chains

The source systems available for selection are taken from the general content activation configuration. It can be found in RSORBCT (**Edit -> Source System Assignment**).

Generating BW Transformations

Purpose

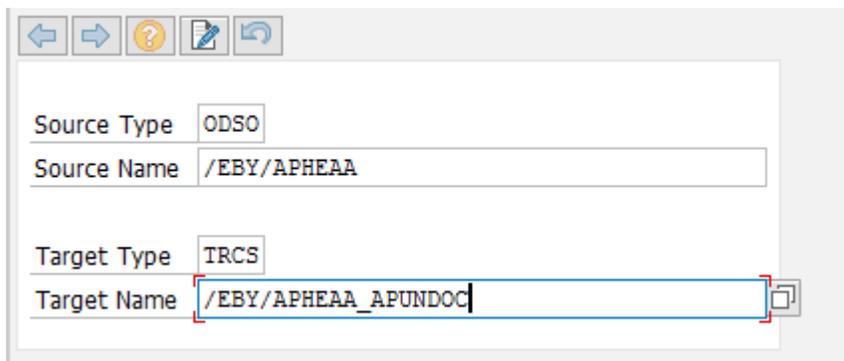
This automatically generates everything for a new transformation or regenerates specifically requested parts of an already existing transformation. This generator should be used whenever possible, instead of manually creating the transformation.

Restrictions

This generator can be used only when generating in a namespace with creation rights. This is for a customer both the Z- and Y- namespaces, as well as any namespace that the customer owns.

Note: A customer cannot create transformations in the /EBY/ namespace or in the standard SAP namespace.

Input fields: First screen



The screenshot shows a web-based form with a toolbar at the top containing navigation icons (back, forward, help, edit, refresh). The form has four input fields:

- Source Type: ODSO
- Source Name: /EBY/APHEAA
- Target Type: TRCS
- Target Name: /EBY/APHEAA_APUNDOC

The Target Name field is highlighted with a red border.

- **Source Type:** Object type of the source object that the data is coming from when ETL is started
- **Source Name:** Name of the source object
- **Target Type:** Object type of the target object that the data is sent to when ETL is finished
- **Target Name:** Name of the target object

Input field: Second screen

The screenshot shows a configuration window with the following elements:

- Source:** ODSO /EBY/APHEAA
- Target:** TRCS /EBY/APHEAA_APUNDOC
- Class name:** /EBY/CL_TRFN_APHEAA_APHEAA_APU (Default)
- Source structure:**
 - Generate structure: /EBY/APHEAA_TS
 - Generate append: ZAPHEAA_TSA (Default)
- Target structure:**
 - Generate structure: /EBY/APHEAA_APUNDOC_TS
 - Generate append: ZAPHEAA_APUNDOC_TSA (Default)
- Transformation class:**
 - Generate class
 - Keep existing code
 - Generate enhancement spots
- BW transformation:**
 - Generate BW transformation
 - Keep existing start routine
 - Keep existing end routine
- Development Package:**

- **Generate structure:** Select this check box to generate the structure listed in the display field next to it (both source and target alike).
- **Generate append:** Generate the append structure listed in the display field next to it. This should be used when a customer wants to enhance the /EBY/ namespace structure. The append structure is automatically appended to the defined source/target structure.
- **Generate class:** Generate the class where the transformation's expert routine logic can be implemented.
- **Keep existing code:** Do not delete any code that has already been created.
- **Generate enhancements spots:** Generate the four enhancement spots that can be used to alter the default logic of the expert routine.

- **Generate BW transformation:** Generate the transformation base object with both start and end routines. If the class was generated, it automatically includes the class call.
- **Keep existing start routine** and **Keep existing end routine:** Do not delete any code that has already been created.
- **Development Package:** Determine to which package the generated objects should be assigned.

Display fields: Second screen

The display fields are solely for information purposes. They are not supposed to be changed.

Maintaining RFC destinations for the Report-Report-Interface

Some queries provide a jump to the selected documents in PROCESS DIRECTOR. It is recommended that you create a dedicated RFC connection in SM59. This connection should use a special RFC user in the ERP, with read-only authorization.

- Source system: The ID of the ERP system.
- User Name: The RFC destinations can be configured per user. Using the **ALL** option sets the connection as default for all the users.
- RFC destination: The ID of the RFC destination from the SM59 transaction.

Automatic Value Conversion in Transformations

Value conversions can be switched on to check the validity of extracted data. Invalid values are transformed into a valid form. The following standard checks are applied:

- Lower to upper case conversion, if the corresponding InfoObject is not set to upper case.
- Character strings are checked against the character set defined in the RSKC transaction. Invalid characters are replaced by the character set in the **Replacement Character** field.
- Numeric fields are checked for non-numeric values. If any are found, the field content is set to zero.
- Unit and country code fields are checked for validity. Invalid values are deleted.

All conversions can be logged and later used to correct the data in the ERP system.

Automatic creation of the RS process chain hierarchy

PERFORMANCE ANALYTICS is delivered with process chains that are organized by solution package, layer and functional level. To make the navigation in the chain overview easier, PA offers the functionality to automatically create a chain hierarchy, depending on the installed PA content.

Note: This functionality is available from SAP BW 7.1 onwards.

The hierarchy is set up in the following manner:

- Kofax PROCESS DIRECTOR (root node)
 - Solution Package (for example, PD Accounts Payable)
 - Chain Type (meta or source -> target layer)

Configuration for Accounts Payable

Payment terms synchronization in the header data source

Setting this parameter for a source system forces the header extractor to read the payment terms from the respective SAP document and transfer them to BW.

By default, this option is set to ensure that the queries on payment terms display the current data.

Caution: The BAdI implementations for the following function modules are called in the source system during the extraction:

- /COCKPIT/PAYMENT_DATA_CALC
- /COCKPIT/PAYMENT_TERMS_GET

Configuration for the GUID filter during the initial load

When this option is set, all the DataSources will extract data only for those invoice documents that have also been extracted by the /EBY/AP_THDR_TRAN header DataSource. If there is a filter set in the InfoPackage of the header DataSource, this filter will also be applied to all the other DataSources.

This option is effective only during the initial load, and the /EBY/AP_THDR_TRAN DataSource has to be initialized before all the other DataSources. The /EBY/APALL_PSA_DELTA_INIT process chain can be triggered to ensure the correct order of the initial load.

Maintaining automation users

The automation users from PD AP and INVOICES should be set in this table. This is necessary for several queries to work properly.

The following values are available for the **User** system field:

- APR: PD AP automatic posting
- INV: INVOICES verification user
- OPS: PD AP automatic workflow determination

Configuration for PROCESS DIRECTOR

PD Object Type Filter

This configuration sets the PD Object Types that are extracted from the connected source systems. It acts as a filter in the ERP source systems during extraction, and in the Data Transfer Processes in BW.

See also [Filters during ETL on PD object types](#).

Configuration for the GUID filter during the initial load

When this option is set, all the DataSources will extract data only for those PD documents that have also been extracted by the /EBY/PDBO_THDR_TRAN header DataSource. If there is a filter set in the InfoPackage of the header DataSource, this filter will also be applied to all the other DataSources.

This option is effective only during the initial load, and the /EBY/PDBO_THDR_TRAN DataSource has to be initialized before all the other DataSources.

See also [Filters during ETL on PD object types](#).

Installing the INVOICES plug-in

Overview

If you want to include data from INVOICES in PERFORMANCE ANALYTICS, you must install the Statistic collector for Performance Analytics plug-in in your INVOICES installation.

Note: The data from INVOICES is first sent to PROCESS DIRECTOR, and then passed on to PERFORMANCE ANALYTICS.

Note: This is not the same plug-in that collects data and passes it to Kofax REPORTER.

Note: INVOICES data is collected only from the date on which the plug-in is installed.

You must perform the following steps:

1. Ensure that your INVOICES installation meets [the system requirements](#).
2. [Install the Statistic collector plug-in](#).
3. If you are installing the plug-in for the first time, [perform some post-installation tasks](#).

System requirements

- INVOICES 5-5 or later (Kofax DOCUMENTS is not yet supported)
- NET Framework 3.5 SP1
- Kofax INVOICE COCKPIT Connector 3.1 or later or Kofax Service Bus (RSB) 2-4 HF20 or later
- SAP GUI installed on INVOICES Transfer workstations
- Microsoft SQL Server 2005 or later, or Oracle 10g or 11g
- PROCESS DIRECTOR 7.1 and additional RSPDNs (see the [table](#) that describes the transports, EMEICs and Kofax PD Notes (RSPDNs) that have to be implemented)

Installation file

- Setup-InvStat2PA.msi

Installing the Statistic collector plug-in

Running the installer

You have to install the plug-in on all INVOICES Scan, Interpret, Verify and Transfer workstations, and optionally, on Manager workstations. The plug-in has no functionality in the Manager module; you should install it only if you want to see the license information in Manager. After installing the plug-in, when you start one of those modules for the first time, you should be logged in as a user who has the right to create database tables.

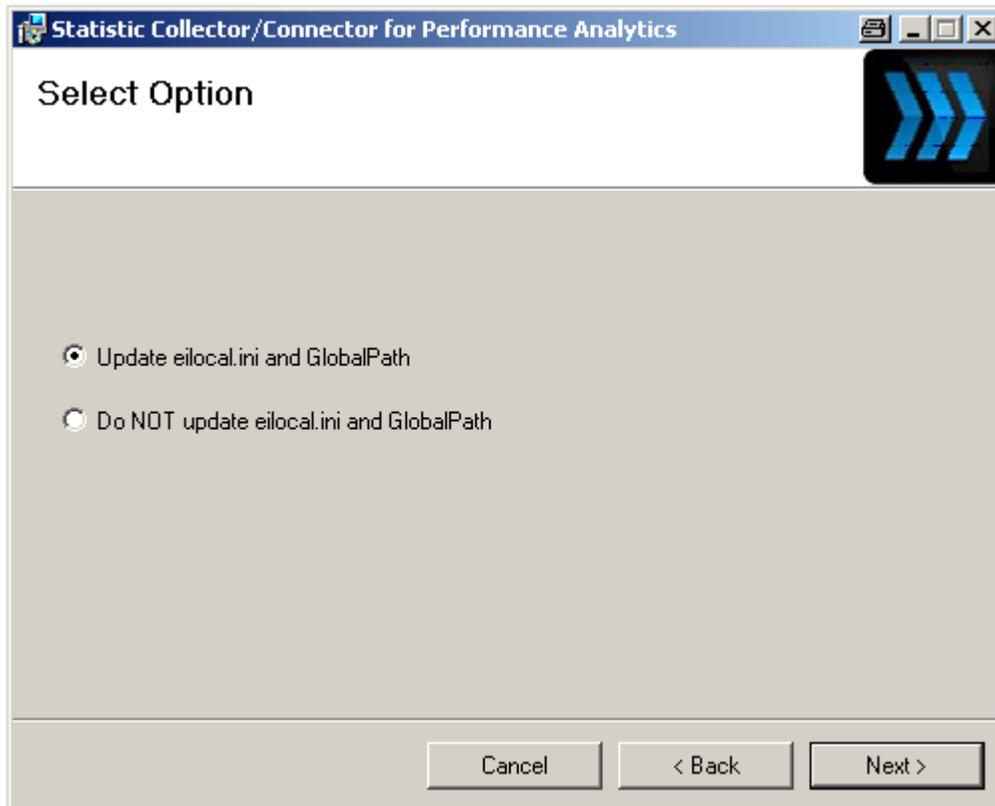
- Back-up the INVOICES `eilocal.ini` file.

Depending on your Operating System version, it is located in the `C:\Winnt`, `C:\Windows` or `C:\Users\Public\ReadSoft\INVOICES\` folder.

- Run `Setup_InvStat2PA.msi`. Follow the steps in the install wizard.

Note: On the second screen of the install wizard, the **Update `eilocal.ini` and `GlobalPath`** option is selected by default. Select the **Do NOT update `eilocal.ini` and `GlobalPath`** option only if you do not have access to the network drive where `GlobalPath` resides.

The setup installs some files to `GlobalPath` and automatically updates `eilocal.ini`. In most cases, `eilocal.ini` and `GlobalPath` are located on a network share. The user needs to have access to at least one of the shared paths. If not, the files will need to be manually updated/copied.



Checking eilocal.ini

The installer creates a new entry in the [Plugins::eixxxx] section of Eilocal.ini. (where xxxx is the name of the INVOICES module). You must check the entries in the Transfer section. It should look similar to this:

```
;*****
;*      Transfer      *
;*****
[Plugins::eitran]
Plugin1=Common
Plugin2=JobScheduler
Plugin3=InvStat2PA
Plugin4=Eicc

[eitran::InvStat2PA]
Name=Statistic Collector for Performance Analytics
Type=COM
SupportIDispatch=TRUE
```

You must check that the Eicc plug-in entry is the last one in the list. If not, move it. In the example above, it is Plugin4.

Installing the license

You have to order a license file from Kofax Marketplace and copy it to GlobalPath. The license file is connected to a customer through a domain name. This domain is the network domain that the customer runs the solution on, and you can find it under the **Computer name, domain, and workgroup settings** section when you right-click **My Computer** and select **Properties**. Therefore, when checking a component out from Marketplace, you need to choose the customer and enter the domain name.

Configuring InvStat2PA.INI

You must make certain edits to this file (which is located in GlobalPath):

Specifying which invoice profiles to transfer data from

In the **ACTIVATE_PROFILES** section, add all the INVOICES profiles that should be passed to PERFORMANCE ANALYTICS.

For example:

```
[ACTIVATE_PROFILES]
Profile1=1
Profile2=1
```

Here, the statistics from the documents processed using the **Profile1** and **Profile2** INVOICES profiles are sent to PERFORMANCE ANALYTICS.

Specifying the license file

In the **[MISC]** section, specify the path and name of the license file. GlobalPath is set by the setup program, but if you use a different path or file name, you need to enter those here. Do not change the license feature name.

```
[MISC]
LicenseFile =           <GlobalPath>\License.LIC
LicenseFeatureName =   PRA
```

Specifying the external GUID

Every invoice sent to PERFORMANCE ANALYTICS must have an external GUID.

Using InvStat2PA.INI with the INVOICE COCKPIT Connector

When using the INVOICE COCKPIT Connector, the external GUID should be the same variable as in the INVOICE COCKPIT Connector `Eicc.ini` file.

In the **[MISC]** section, make sure that the variable name for the ExternalGUID is the same as the ExternalGUID parameter used in the `Eicc.ini` file.

```
[MISC]
;variable name for external GUID (needed by RFC_DATA_RECEIVE and CockpitConnector)
ExternalGUID=           GUID
StartCounter_InvoiceLevel= 0
StartCounter_HeaderLevel= 0
StartCounter_LineLevel=  0
```

Using InvStat2PA.INI with the Kofax Service Bus

When using the RSB to transfer invoices to PD AP, the INVOICES GUID should be used as the external GUID.

In the **[MISC]** section, the variable name for the external GUID can be chosen freely, as long as it is mapped to EXTERNAL_GUID in the OCR data mappings in SAP.

```
[MISC]
CheckIfStatisticsAlreadySent= 1
UseINVOICESGuid= 1
ExternalGUID= _GUID
```

Note: The `CheckIfStatisticsAlreadySent` setting ensures that the same statistics are not sent several times (which would otherwise be the case when using the RSB).

Specifying the SAP system to connect to

For each invoice profile specified, you must specify the SAP system to connect to (the one where PROCESS DIRECTOR is installed).

Using InvStat2PA.INI with the INVOICE COCKPIT Connector

1. Create a new [R3::ProfileName] entry, where *ProfileName* is the name of the activated invoice profile.

The default InvStat2PA.INI file contains the [R3::ProfileName1] section that you can copy/modify.

2. For the **ini** parameter, specify the path to `Eicc.ini`.
3. For the **section** parameter, specify the section in which the SAP logon credentials are saved.

Examples:

```
[R3::PROFILE1]
ini=X:\GlobalPath\eicc.ini
section=R3::P00

[R3::PROFILE2]
ini=<GLOBALPATH>\eicc.ini
section=R3::P01
```

Using InvStat2PA.INI with the Kofax Service Bus

1. Create a new [R3::ProfileName] entry, where *ProfileName* is the name of the activated invoice profile.

The default InvStat2PA.INI file contains the [R3::ProfileName1] section that you can copy/modify.

2. The **ini** parameter should be left empty.
3. For the **section** parameter, specify the section in which the SAP logon credentials are saved.
4. The SAP logon credentials should be entered directly in the InvStat2PA.INI file. Create the section specified in the `Section` setting and enter the logon settings there. The following logon settings are available:

```
EncryptLogonInfo=XXX
```

Note: To encrypt the user and password, the `EncryptLogonInfo` setting should be set to 1.

```
User=XXX
Password=XXX
Client=XXX
Language=XXX
Saprouter=XXX
Applicationserver=XXX
Systemnumber=XXX
Messageserver=XXX
Systemid=XXX
Groupname=XXX
```

Example:

```
[R3::PROFILE1]
Ini=
Section=TestSection
[TestSection]
EncryptLogonInfo=1
User=Test
Password=Testpw
Client=800
Language=EN
Applicationserver=ab.cd.ef.gh
Systemnumber=0
Groupname=SPACE
```

Specifying the RFC parameters

For each invoice profile that you specified above, you must specify certain parameters for the RFC connection to the SAP system (the one where PROCESS DIRECTOR/PROCESS DIRECTOR Accounts Payable is installed):

1. For each invoice profile, create a new [RFC::ProfileName] entry, where *ProfileName* is the name of the invoice profile.

The default InvStat2PA.INI file contains the [RFC::ProfileName1] section that you can copy.

2. Do not change any of the parameters or their values in this section. The default values are sufficient for a connection.

Example (all default values, except the section name):

```
[RFC::PROFILE1]
;RFC name
FunctionName = /EBY/PDBO_RFC_DATA_RECEIVE

;Constants for RFC-parameters ic_obj, ic_env and ic_mapid
IC_OBJ=          OCR
IC_ENV=          03
IC_MAPID=        OCRSTAT

;Node Types
NodeType_InvoiceInfo=          HEADER
NodeType_HeaderFields=        MAIN
NodeType_LineItemFields= LINE

;Node Parents
InvoiceInfo_Parent=
HeaderFields_Parent=          HEADER
LineItemFields_Parent=        HEADER

;1: Submit header data with LINENUMBER = 0
;0: Submit header data without LINNUMBER parameter
;-1: Submit header data with empty LINENUMBER parameter
;any other value is interpreted as 0
```

```
HeaderDataWithLineNumber=      0
TreatWarningAsError=          0
InvoiceStatusOnError=         ValidationError
```

Other settings

Once you have installed the plug-in for INVOICES, there are a number of options that you can configure, related to:

- Logging
- Database connection
- Other settings

However, changing these settings is *optional*. You should have already made all the necessary configuration entries in these files, during the installation.

For details on each setting, see [Appendix A: INVOICES plug-in settings](#).

Mapping external data in PD

If the `ReadSoft_PA_AP_OCR_ERP_Extractors` transport request has been imported, it implies that the OCR statistics data will be extracted. In such cases, the mapping of the OCR statistics data within PROCESS DIRECTOR must be checked.

It is assumed that the `_GUID` field name is configured in the `EICC.ini` as `EXTERNAL_GUID`, as described in [Specifying the external GUID](#).

1. Go to transaction, `/N/EBY/PDBOC`.
2. Select the **OCR Data** object type.
3. Select the **Expert Configuration** check box.
4. Advance to the next screen by pressing **F8**.
5. Navigate to **Initial Settings -> Mapping**.
6. Execute the **Map external data to PD documents** node.
7. Check if the mapping exists for **Origin INVOICES** and **Mapping ID OCRSTAT**. In case the mapping does not exist, proceed to the [Upload the PD Mapping](#) section.
8. Check if the `_GUID` field name is mapped to the `EXTERNAL_GUID` external field name. The `EXTERNAL_GUID` field is used in PD as a foreign key to the INVOICES document.

Display View "Map external data to PD documents": Overview

Project ID:
 Object type: Mapping conversion functions

Map external data to PD documents									
Origin	Mapping ID	Node ID	Parent	Logical level	Field Name	Sub...	G...	External field name	
03 ReadSoft INVOICE	OCRSTAT	HEADER		HEADER	EXTERNAL_GUID		0	_GUID	
03 ReadSoft INVOI...	OCRSTAT	HEADER		HEADER	ITRPCOMPUTER		0	ITRPCOMPUTER	

Uploading the PD mapping

The configuration file contains the OCR mapping and is also shipped with the PA transport. It can be uploaded with the `/EBY/PDBO_CONFIG_DUMP` ABAP report in SE38. Select the **Upload from *.xml** option, and set a transport request and the path to the file before execution.

PD config download/upload utility

Task to perform

Download to *.xml

Upload from *.xml

Compare

Set of tables:

Download xml file

To file:

Of document type:

From project:

Include system tables

Upload xml file (customizing tables only)

Request/Task:

From file:

To project:

Remove before upload

Checking the OCR tables for data

There are two ways to check that the plugin is providing data to PD:

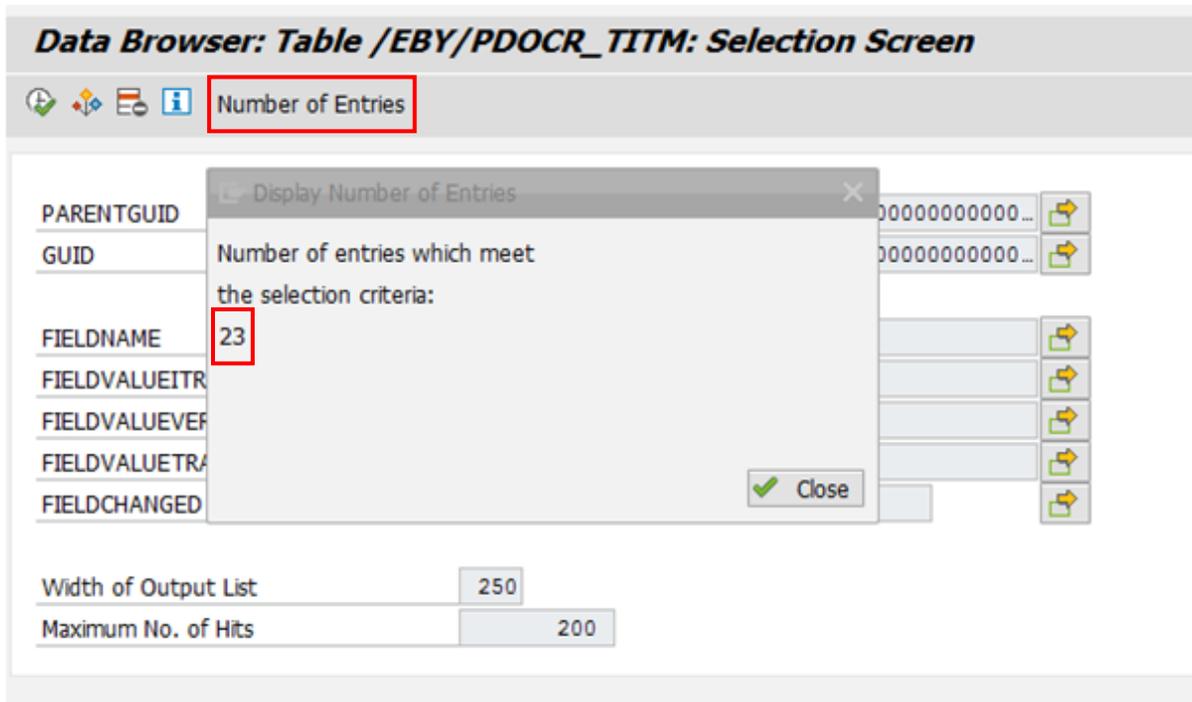
- Run either the BW-Extractor for the OCR DataSources or the RSA3 simulation in ECC.
- Check if the OCR tables have records in them.

The downside of the first option is that PERFORMANCE ANALYTICS has to be installed at least in the ECC system where the OCR data is stored. This is not always the case, as sometimes, the plugin is installed months before PA so that it can already start gathering statistics data. In such cases, the only way to confirm if everything is working is by using the second option.

This is done using the SE16 transaction. Open the following three tables:

- `/EBY/PDOCR_THDR`
- `/EBY/PDOCR_TITM`
- `/EBY/PDOCR_TSUB`

In each of these tables, click **Number of Entries**.



As soon as the setup of the plugin has been completed and the first invoice has been processed, the number displayed in the **Display Number of Entries** popup must be greater than 0.

Important: INVOICES does not have any history for its statistics. Only the documents that are scanned after installing this plugin will be transferred into these tables.

Loading the data

After the installation in ERP and BW, the data can be loaded from ERP:

- Kofax provides process chains to support the data load.

Please see the *PERFORMANCE ANALYTICS 7.4 - How to load data using process chains* and *PERFORMANCE ANALYTICS 7.4 - Data Flow and Process Chains* documents for further information.

Upgrading

Kofax will provide instructions when you receive a new release.

Appendix A: INVOICES plug-in settings

Overview

This section describes the settings for the [InvStat2PA](#) plug-in.

InvStat2PA

The settings for the InvStat2PA plug-in are contained in the `InvStat2PA.INI` file, which is located in `GlobalPath`.

Setting	Description
[ACTIVATE_PROFILES]	
ProfileName	The names of the invoice profiles in INVOICES for which data is sent to PERFORMANCE ANALYTICS. Each invoice profile name is the key, followed by 1 to activate it. For example: Profile1=1 Profile2=1
[DATABASE_SETTINGS]	
EncryptConnectionString	1 – The connection string is encrypted the next time a module is started. 0 – The connection string is not encrypted. Not recommended if the string contains the database password.
ConnectionString	The connection string for connecting to the InvStat2PA database. If the INVOICES database is used to save this data, use INVOICES as the value.
CommandTimeout	Timeout (in seconds) when executing SQL statements. 0 disables this functionality.
[LOG_SETTINGS]	
Log level	Sets the level of the messages to be recorded in the log file. 0 – Logging disabled 1 – Errors only 2 – Errors, Warnings (DEFAULT) 3 – Errors, Warnings, Info
WriteErrorsToEventLog WriteWarningsToEventLog WriteInfosToEventLog	Log messages can also be written to the Windows Event Log. 0 – Log messages are only written to the log files (DEFAULT). 1 – Log messages are written to the log files and to the Windows Event Log.

Setting	Description
EventLogAppName	The name specified here is displayed as the Source in the Windows Event Log.
EventLogName	By default, Windows writes messages to the Application log. If EventLogName is filled, a new log is created in the Windows Event Log.
[MISC]	
LicenseFile	The name and location of the license file. The license file is obtained from Kofax.
LicenseFeatureName	The name of the plug-in. Each license for this plug-in will have the feature name, PRA. You only need to change this if the feature name changes.
ExternalGUID	Every invoice sent to PERFORMANCE ANALYTICS must have an external GUID. This should be the same variable as in the INVOICE COCKPITConnector <code>Eicc.ini</code> file.
StartCounter	Tells the plug-in whether to start counting the submitted lines with zero or one (or any other value). Currently, PERFORMANCE ANALYTICS expects the counting to start with one. This parameter should not be changed.
CheckIfStatisticsAlreadySent	Keeps track if the statistics for the invoice have already been sent to PA. This must be set to 1 when using <code>InvStat2PA.INI</code> with the RSB.
UseINVOICESGuid	Uses the INVOICES guid as the external guid. This must be set to 1 when using <code>InvStat2PA.INI</code> with the RSB.
[R3::ProfileName]	
ini	<p>The path to the <code>Eicc.ini</code> file, which contains the logon credentials to the SAP system where PROCESS DIRECTOR/PROCESS DIRECTOR Accounts Payable is installed. For example:</p> <pre>ini=\\server01\Users\Public\ReadSoft\INVOICE S\eicc.ini</pre> <p>Note: When using the RSB, the <code>ini</code> parameter should be left empty.</p>
section	<p>The section in the <code>Eicc.ini</code> file that contains the SAP logon credentials. For example:</p> <pre>section=R3::P00</pre> <p>Note: When using the RSB, this setting is used to point out the section in the <code>InvStat2PA.INI</code> file that contains the SAP logon credentials. If left empty, the logon credentials should be entered directly in the <code>[R3::ProfileName]</code> section.</p>

Setting	Description
Logon settings in the InvStat2PA. INI file when using the RSB	
EncryptLogonInfo	To encrypt the user and password, <code>EncryptLogonInfo</code> should be set to 1.
user	The SAP user name (RFC user) used for the R/3 connection.
password	The user password in the SAP R/3 system.
client	The R/3 client number.
language	The logon language (ISO code).
saprouter	Insert the SAP router string before the <code>Applicationserver</code> or <code>Messageserver</code> parameter. Note: This is an optional setting; use with caution.
applicationserver	The IP address or domain name of the SAP R/3 application server.
systemnumber	The system number of the SAP R/3 system.
messageserver	The IP address or domain name of an SAP R/3 message server.
systemid	The systemID (for example, TR1) of the SAP R/3 system.
groupname	The group name for load balancing.
[RFC::ProfileName]	
FunctionName	The function module used to transfer the data to PERFORMANCE ANALYTICS. By default, this is set to <code>/EBY/PDBO_RFC_DATA_RECEIVE</code> and should not be changed.
Constants for RFC parameters	Do not modify.
Node Types	Do not modify.
Node Parents	Do not modify.
HeaderDataWithLineNumber	Do not modify.
TreatWarningAsError	1 – Warnings from <code>/EBY/PDBO_RFC_DATA_RECEIVE</code> are interpreted as errors. 0 – Warnings from <code>/EBY/PDBO_RFC_DATA_RECEIVE</code> are ignored.

Setting	Description
InvoiceStatusOnError	The status to which to change the document in INVOICES if /EBY/PDBO_RFC_DATA_RECEIVE returns at least one error. In such cases, the document is not transferred. Any InvoiceStatus is valid (for example: ValidationError, Rejected, Approved, etc.).

Appendix B: Data extractors

This section provides a list of the different data extractors and source tables.

Note: All the data fields in these tables are extracted from PROCESS DIRECTOR Accounts Payable and INVOICES and passed to PERFORMANCE ANALYTICS.

AP Header data

Extractor description	AP Header Transactional
Extractor name	/EBY/AP_THDR_TRAN
Source tables	/COCKPIT/THDR /COCKPIT/THDRV

AP Workflow header data

Extractor description	AP Workflow Header Transactional
Extractor name	/EBY/AP_TWC_TRAN
Source tables	/COCKPIT/TWC /COCKPIT/TWCV

AP Workflow steps data

Extractor description	AP Workflow Step Data Transactional
Extractor name	/EBY/AP_TWCS_TRAN
Source tables	/COCKPIT/TWCS /COCKPIT/TWCSV

AP Posting status data

Extractor description	AP Posting Status Transactional
Extractor name	/EBY/AP_TSTAT_TRAN
Source table	/COCKPIT/TSTAT

AP Accounting data

Extractor description	AP Account Transactional
Extractor name	/EBY/AP_TACCT_TRAN
Source tables	/COCKPIT/TACCT /COCKPIT/TACCTV

AP Item data

Extractor description	AP Item Transactional
Extractor name	/EBY/AP_TITEM_TRAN
Source tables	/COCKPIT/TITEM /COCKPIT/TITEMV

AP Message log data

Extractor description	AP Message Log Transactional
Extractor name	/EBY/AP_TMSG_TRAN
Source table	/COCKPIT/TMSG

AP Error data

Extractor description	AP Errors Transactional
Extractor name	/EBY/AP_TERRORS_TRAN
Source table	/COCKPIT/TERRORS

Document OCR statistics

Extractor description	AP OCR Statistics Document Transactional
Extractor name	/EBY/AP_PDOCR_DOCU_TRAN
Source table	/EBY/PDOCR_THDR

Header OCR statistics

Extractor description	AP OCR Statistics Header Transactional
Extractor name	/EBY/AP_PDOCR_THDR_TRAN
Source table	/EBY/PDOCR_TITM

Item OCR statistics

Extractor description	AP OCR Statistics Item Transactional
Extractor name	/EBY/AP_PDOCR_TITM_TRAN
Source table	/EBY/PDOCR_TSUB

PD Basic header data

Extractor description	PD BO Header Information
Extractor name	/EBY/PDBO_THDR_TRAN
Source table	/EBY/PDBO_THDR

PD Message log data

Extractor description	PD General Message Log
Extractor name	/EBY/PDBO_TMSG_TRAN
Source table	/EBY/PDBO_TMSG

PD Workflow header data

Extractor description	PD WC Header Information
Extractor name	/EBY/PDWC_THDR_TRAN
Source table	/EBY/PDWC_THDR

PD Workflow step data

Extractor description	PD WC Step Information
Extractor name	/EBY/PDWC_TSTP_TRAN
Source table	/EBY/PDWC_TSTP

PD Workflow processor data

Extractor description	PD WC User Information
Extractor name	/EBY/PDWC_TPRO_TRAN
Source table	/EBY/PDWC_TPRO

PD Workflow activity data

Extractor description	PD WC Activity Information
Extractor name	/EBY/PDWC_TACT_TRAN
Source table	/EBY/PDWC_TACT

PD SO Header data

Extractor description	PD SO Header Information
Extractor name	/EBY/PDSO_THDR_TRAN
Source table	/EBY/PDSO_THDR

PD SO Item data

Extractor description	PD SO Item Information
Extractor name	/EBY/PDS0_TITM_TRAN
Source table	/EBY/PDS0_TITM

Appendix C: Installation checklists

ERP checklist

No.	Description	Completed
1	Configure the /EBY/ and /B507/ namespaces.	<input type="checkbox"/>
2	Set the /EBY/ and /B507/ namespaces to modifiable.	<input type="checkbox"/>
3	Import the PA transport for ERP.	<input type="checkbox"/>
4	[Optional] Import the OCR transport for ERP.	<input type="checkbox"/>
5	Implement all the required EMEICs and RSPDNs.	<input type="checkbox"/>
6	Activate the BAdI, /EBY/BW_EXTRACTION; RSA9.	<input type="checkbox"/>
7	Transfer the Kofax component hierarchy from the business content.	<input type="checkbox"/>
8	Activate the DataSources in ERP; RSA5.	<input type="checkbox"/>
9	Check the /EBY/PD component hierarchy with sub-nodes and data sources.	<input type="checkbox"/>
10	Check the extraction; RSA3.	<input type="checkbox"/>

BW checklist

No.	Description	Completed
1	Configure the /EBY/ and /B507/ namespaces.	<input type="checkbox"/>
2	Connect the /EBY/ and /B507/ namespaces.	<input type="checkbox"/>
3	Check the connection from BW to ERP, or create a new one.	<input type="checkbox"/>
4	Configure the source system ID and text for the ERP system.	<input type="checkbox"/>
5	Check the source system selection.	<input type="checkbox"/>
6	Import the PA transports for BW.	<input type="checkbox"/>
7	Install the Kofax content; /EBY/CONFIG -> Installing the content.	<input type="checkbox"/>
8	Install the objects for the Report-Report interface.	<input type="checkbox"/>
9	Configure the RFC connection for query navigation to ERP.	<input type="checkbox"/>
10	Include the Kofax Query variable in the ZXRSRU01 customer include.	<input type="checkbox"/>
11	Set the local currency.	<input type="checkbox"/>
12	Check that the RS_CHAIN event exists; SM64.	<input type="checkbox"/>
14	Define the final workflow status.	<input type="checkbox"/>
15	Configure PERFORMANCE ANALYTICS.	<input type="checkbox"/>

OCR checklist

No.	Description	Completed
1	Install the InvStat2PA plug-in.	<input type="checkbox"/>
2	Check the EILocal.INI file entry.	<input type="checkbox"/>
3	Install the license.	<input type="checkbox"/>
4	Specify which invoice profiles to transfer data from.	<input type="checkbox"/>
5	Specify the path and name of the license file.	<input type="checkbox"/>
6	Specify the external GUID.	<input type="checkbox"/>
7	Specify the SAP system to connect to.	<input type="checkbox"/>
9	Check the mapping for the OCR data in ERP.	<input type="checkbox"/>
10	Check that the OCR tables are filled in.	<input type="checkbox"/>

Appendix D: Additional Information

Filters during ETL on PD object types

Filter on the header GUID

The configuration for this filter is done in `/EBY/CONFIG`. When switched on, the PD BO header data source has to be initialized before any other PD transactional data source. All PD BO transactional data sources will then use the filters set for the header data source.

This is realized in the extractor classes by calling an instance of `/EBY/CL_BWPDBO_HEADER_FILTER`, which returns the filter values set for the header extractor. In the select statement, the PD BO header table is then inner joined using the filter values in the where-statement.

Filters in Texts and Attribute extractors

Texts and Attribute extractor classes can use the iterator provided by `/EBY/CL_BWPD_OBJ_FILTER`. This iterator holds all the PD object types configured in BW for extraction. The configured object types are read from the `/EBY/BWPDBOOBJFL` DB table, which is held in sync with the BW configuration done in `/EBY/CONFIG`.

Filter in BW data flow

The `EBY_PDOBJ_FILTER` query variable can be used when a filter on PD object types is needed in DTPs or InfoPackages. This will read the configured object types from `/EBY/CONFIG` and apply them to the corresponding field in the source dataset. This is used in the standard delta InfoPackage for the PD BO header extractor.

Appendix F: Change Log

Date	Section	Description
17.07.2015	All	Updated to PERFORMANCE ANALYTICS 7.4