

Produmex WMS How-to Guides

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How to Migrate the SAP HANA Schema

- The following documentation is for Produmex WMS version 19.2 and later. If you use a previous version, click [here](#).
- The next steps have been tested on HANA 1.00.112.03 and 1.00.122.05.

There are some extra steps to perform in order to migrate a company database from MSSQL to HANA, when Produmex WMS is also running on that database.

1. Before executing the SAP migration tool, run the following query on the MSSQL database:

```
ALTER TABLE PMX_ADDON ADD CONSTRAINT PK_PMX_ADDON PRIMARY KEY CLUSTERED  
(DbUserName)
```

2. Install the correct HANA client version.
3. Run the SAP migration tool (migration.exe) from the SAP Patch Level installer.
4. If necessary, upgrade the company patch level on the target HANA server.
5. Log in once to the company using the SAP Business One client, set SAP license.
6. Install the Produmex Tools from ProdumexSuiteInstaller (HANA version)
7. Run the Produmex Hana Migration Tool, which you can find in the Produmex Tools folder. (c:\Program Files\Produmex\Produmex Tools\)

It does the following:

- Removes the primary key on PMX_ADDON that was created at step 1.
- Creates all SQL sequences for auto-incremented columns.

- 8. Restart the HANA database server, so it reinitializes the sequences.
- 9. Run the Produmex Tools Config and upgrade the database (ProdumexSuiteInstaller).
- 10. Modify the SBO_SP_TRANSACTIONNOTIFICATION procedure.
 - [3.4.1. Enable the standard PMX stored procedure](#) Topic: 3.4.1.2. With SAP HANA

Print Documents Automatically with Notification Listener

It is possible to automatize document printing with the help of the [SBO Notification Listener](#).

1. List of documents

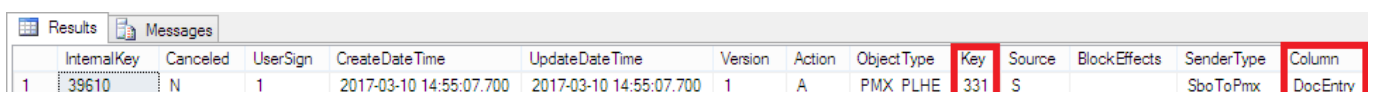
List of documents that can be printed automatically with the standard solution

Document type	Object type code	Default report	Supported transactions	PMX_NOTQ Column
pick list	PMX_PLHE	DefaultPickList.rpt	A U D L	DocEntry
sales order	17		A C U L	DocEntry
purchase order	22	DefaultPurchaseOrder.rpt	A C U L* **See: section 4	DocEntry

2. Set the report

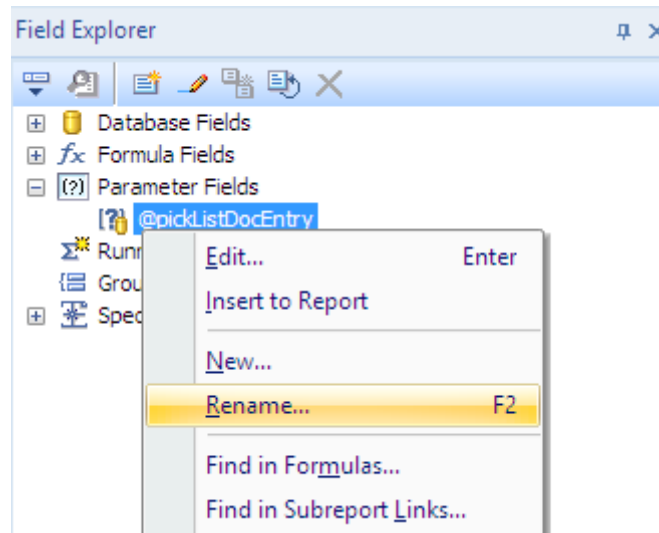
2.1. Customize the report

For reports, the Notification Listener will use the *Column* and *Key* values from the PMX_NOTQ table as the Crystal Report parameters. In order to print with the Notification Listener, change the input parameter of the report to the *Column* value.



InternalKey	Canceled	UserSign	CreateDateTime	UpdateDateTime	Version	Action	ObjectType	Key	Source	BlockEffects	SenderType	Column
1	39610	N	1	2017-03-10 14:55:07.700	2017-03-10 14:55:07.700	1	A	PMX_PLHE	331	S	SboToPmx	DocEntry

Open the default report in Crystal Reports. Go to Field Explorer and expand the Parameter Fields. Rename the parameter to 'DocEntry' (Column value).



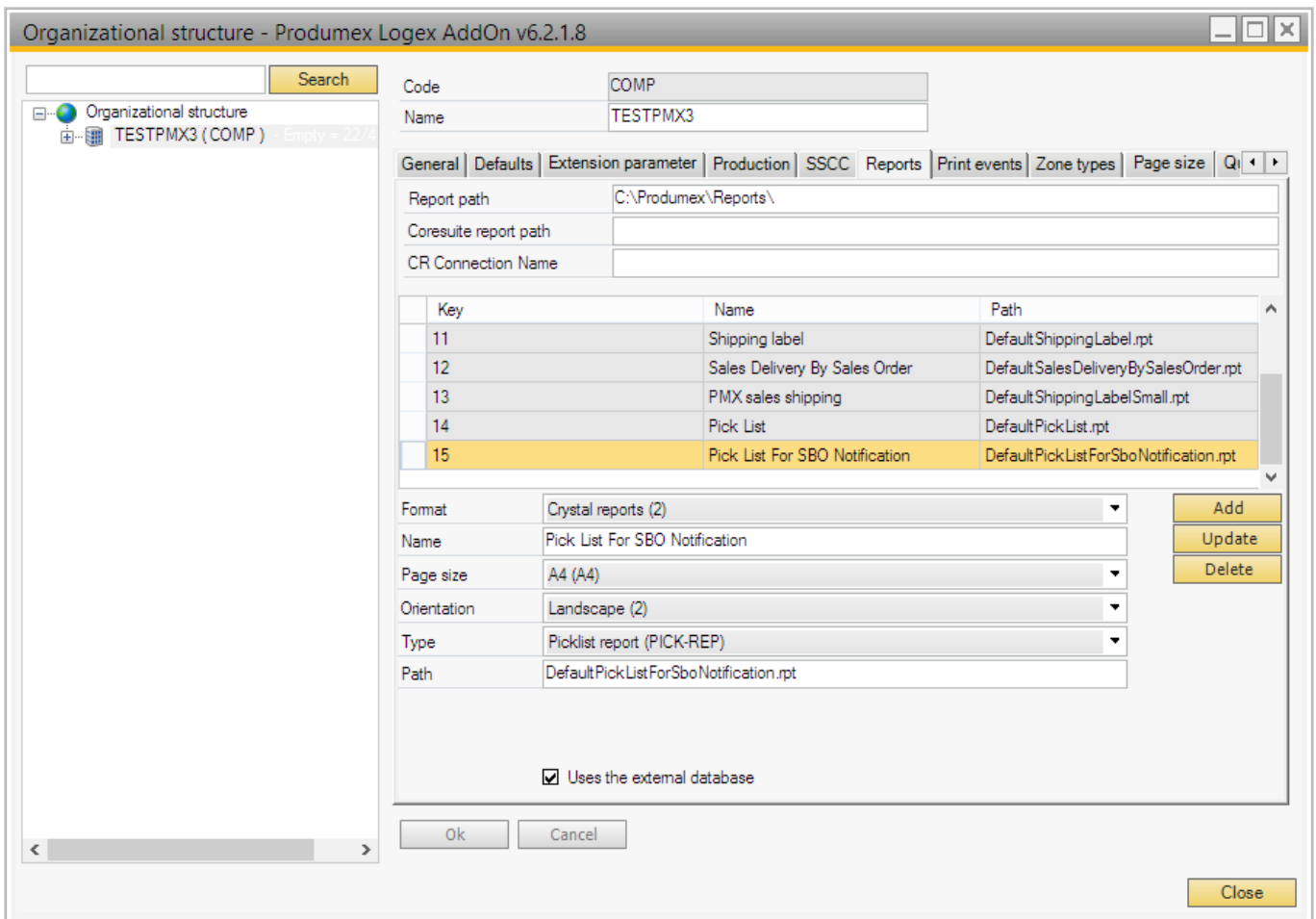
In the example we set the Notification Listener to print newly created pick lists automatically. The *Column* value in the PMX_NOTQ table is 'DocEntry' therefore in Crystal Reports we rename the standard '@pickListDocEntry' to 'DocEntry'.

Save it as a new report. Make sure that you save it to the folder that is defined for the reports on the 'Reports' tab of the organizational structure.

In the example we save the report as 'DefaultPickListForSBONotification.rpt'.

2.2. Define the report in the organizational structure

In order to use the pick list in other flows properly, create a separate entry for this report on the 'Reports' tab of the organizational structure.



3. Configure the Notification Listener

Open the config file of the Notification Listener. Uncomment the following transaction line:

```
<action senderType="SboToPmx" objectType="PMX_PLHE" transactionType="A"
logic="Produmex.Sbo.Logex.SboNotification.Actions.PrintReport,
Produmex.Sbo.Logex.SboNotification.Actions">
<parameter name="ReportPath" value="DefaultPickListForSboNotification.rpt"/>
<parameter name="PrinterDevice" value="Printer02"/>
</action>
```

Adjust the following values in the transaction line:

- objectType: add the code of the object type. See the list of the document types for the corresponding object type value.
- transactionType: specify the transaction type. Possible values:
 - 'A'=add
 - 'U'=update
 - 'L'=close
 - 'D'=delete
 - 'C'=cancel
 - '*'=all

Please note: Not every transaction type works for an object. Please see the table that contains the supported transaction types for each object

- Printer: Add the printer code from the organizational structure as the value of the "PrinterDevice" parameter.
- Report path: Add the custom report as the value of the "ReportPath" parameter.

In our example we set the Notification Listener to automatically print newly generated pick lists. Therefore the object type is "PMX_PLHE" and the transaction type is 'A'. The code of the printer is 'Printer02' and the report name is 'DefaultPickListForSboNotification.rpt'.

Please note that when a pick list is created, its status is 'Not Ready'. When creating a similar setting than in the example, be aware that the Notification Listener will print the pick list in the non-ready state.

When the Notification Listener is running the report is automatically printed after the transaction.

4. Automatically print report for closed purchase orders on goods receipt

There is a special transaction line in the config file of the Notification Listener to print the purchase orders after a goods receipt.

Create a new report as described above.

In the configuration file of the Notification Listener, find and uncomment the following transaction line:

```
<action senderType="SboToPmx" objectType="20" transactionType="*"
logic="Produmex.Sbo.Logex.SboNotification.Actions.PrintReportForClosedP00nGR
, Produmex.Sbo.Logex.SboNotification.Actions">
<parameter name="ReportPath" value="DefaultGoodsReceiptLabel.rpt"/>
<parameter name="PrinterDevice" value="RPT"/>
</action>
```

Adjust the printer and the report path as described above.

How to configure handheld devices to keep configuration after a cold boot

Overview

Handheld devices have different rebooting options based on their operating system:

Windows CE

- warm boot:
 - clears program memory

- keeps storage memory
- cold boot:
 - clears both program and storage memory
 - keeps flash memory and memory card
 - returns formats, preferences and other settings to factory default

Windows Embedded Handheld

- warm boot:
 - clears program memory
 - keeps storage memory
- cold boot:
 - clears program and storage memory
 - keeps persistent memory
 - on Motorola devices resets the Real-Time-Clock
- clean boot:
 - clears program, storage and persistent memory
 - keeps flash memory and memory card
 - returns formats, preferences and other settings to factory default

On devices that have Windows CE as an operating system, it is advised to install and configure Produmex applications in a way that they will resist after a cold boot. The installation and configuration method is device-dependent.

1. Motorola/Symbol device

On Motorola devices, all memory is volatile except the /APPLICATION and /PLATFORM folders (flash memory). The /APPLICATION folder is used to store application programs.

1.1. Produmex WMS

To keep the configurations after a cold boot, store the following files in the /APPLICATION folder:

- RDP file: Setup the remote desktop connection as described in: [Remote desktop connection](#). Make sure that you save it in in the \APPLICATION folder.
- .reg file: The registration file that contains specific registry settings. See: *Details of the .reg file*
- [Default.xml](#) file: This file is for the scanner setup. It contains scanner settings such as DataWedge setup and intercharacter delay setting
- TSC.CPY: This file contains the commands to copy the .rdp and the default.xml file after a cold boot. See: *Details of the .cpy file*

Download the example files from the [FTP](#). \\In order to keep the Wi-Fi settings, configure it as described in [Setup the Wi-Fi connection](#), then export it to the /APPLICATIONS folder. This way it also will be automatically reimported after a cold boot.

Details of the .reg file

After a cold boot the Motorola system will check for .reg files in the /APPLICATION folder and will place these files back automatically. See the example file here: [Power-Desk-Vol-RDP.reg](#)

To restore the power usage setup insert the following to the .reg file:

```
REGEDIT4

[HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\Power\Timeouts]
"BattSuspendTimeout"=dword:00000000
"AC SuspendTimeout"=dword:00000000
"AC ResumingSuspendTimeout"=dword:0000000F
"BattResumingSuspendTimeout"=dword:0000000F
"ChangeEvent"="PowerManager/ReloadActivityTimeouts"
"ACUserIdle"=dword:00000000
"BattUserIdle"=dword:00000000
"BatteryPoll"=dword:000007D0
```

Optional settings:

1. Background image

To restore the background picture insert the following:

```
[HKEY_CURRENT_USER\ControlPanel\Desktop]
"Wallpaper"="\\APPLICATION\DestopPicture.PNG"
"tile"=dword:00000000
```

Adjust the image name (in the example: *DestopPicture.PNG*). Supported formats: PNG or JPG.

2. Mute touch sound

To mute the sound on touch insert the following:

```
[HKEY_CURRENT_USER\ControlPanel\Volume]
"Screen"=dword:00010000
"Key"=dword:00010000
"Mute"=dword:00000007
"Volume"=dword:99999999
```

This setting will mute only the sound when touching the scanner. All other sounds (eg. when scanning, or in the case of an error) will still work.

3. Set default RDP user

To set the default RDP user for the device insert the following:

```
[HKEY_CURRENT_USER\Software\Microsoft\Terminal Server Client\UsernameHint]
"RDP_SERVER_IP"="DOMAIN\WINDOWS_USER"
```

Adjust the domain name (in the example: *DOMAIN*) and the user name (in the example: *WINDOWS_USER*) according to your specifics.

Details of the .CPY file

On a cold boot the system will look for .cpy files in the /APPLICATION folder then initiate them. The .cpy files will copy files from a non-volatile source to a destination. See the example files: [TSC.CPY](#), [TSC.CPY.1](#)

In the .cpy file the source file and path and the destination file and path will be separated by '>'.

- To place the RDP file on the desktop for easy access add:

```
\Application\PDMX.rdp > \Windows\Desktop\PDMX.rdp
```

- To place the scanner settings in the correct location add:

```
\Application\Default.xml > \Windows\DataWedge\Config\Profiles\Default.xml
```

1.2. Produmex Scan

To keep the configurations after a cold boot, create an install folder in the non-volatile /APPLICATION folder. The install folder should contain the following files:

- the application loader that can be found in the /WINDOWS folder on the device
 - on OEM devices, the file name is: wcelcmd.exe
 - on non-OEM devices, the file name is: wceload.exe
- .cab file (For example the Produmex Scan install cab file)

The /APPLICATION folder also should contain:

- .reg file (for the application loader)
- .reg file (for the configurations)

Details of the .reg file - for the application loader

The .reg file runs the .cab file(s) on cold boot only.

```
[HKEY_CURRENT_USER]
"Name"="\Application\INSTALL FOLDER NAME \wcelcmd.exe"
"Command"="/delete 0 \Application\INSTALL FOLDER NAME\EXAMPLE.cab"
"Continue"=dword:1
"ColdBootOnly"=dword:1
```

- /delete 0: this parameter determines that the .cab file will not be deleted after the installation
- ColdBootOnly: this parameter determines that no changes will be made in the case of a warm boot

Adjust the .cab file name and path in the 'Command' parameter.

Details of the .reg file - for the configurations

After installing and configuring the applications, export the registry. From the Registry menu choose the 'Export Registry File' option. Save the file to the /APPLICATION folder.

The following values store the configurations for Produmex Scan:

Example:

```
[HKEY_CURRENT_USER]
"Database"="DATABASE NAME"
"ServerUrl"="SERVER_URL"
```

```
"Language"="English"  
"NoBuiltInButtons"="N"  
"TesterMode"="N"  
"DemoMode"="N"  
"CustomizationAssits"="N"  
"WinLayout"="Normal"  
"HID"="HID"  
"RegPersisted"=dword:00000001
```

2. M3 Mobile

On M3 Mobile Devices use the MS-Backup function to restore configurations and registries after a cold boot. In order to use the MS-Backup you must have copy of the flash disk files provided with the OS.

2.1. Preparation

Open the power properties and set the configurations as below to prevent the device going to sleep mode:



MS-Backup Usage:
Launch MS-Backup by either

- My Device > Flash Disk > xPIMS > MS-Backup.exe
- Start > Programs > Utility > MS-Backup



From MS-Backup, select whether you want to backup all data or personal information management (PIMS) data. Then select the 'Name' and the 'Location' and press 'Backup Start' to back up the data. To restore the data, go to the 'Restore' tab and select appropriate data then press 'Restore Start'.



2.2 Auto Restore After Cold Boot

Automatically restoring data after cold boot requires a little configuration in M3.ini. In addition, backup data must be saved as 'ExBackup' as shown in the above figures.

Set folder options to view hidden files: Open 'Folder Options' by My Device > View > Option and uncheck all options.



Open M3.ini file with Microsoft WordPad. Launch WordPad and open the M3.ini from \Flash

Disk\StartUp.



From the M3.ini file, set the 'Install' and 'Reset' value of [RESTORE] to '1' as shown in the following figure.

```
[KEYPAD_LED]
Install=0

//Automatic restore after Hardware reset with a help of MS-Backup.exe.
//ExeFile: Program Path
//Reset: 0-> reset after restore, 1-> no reset after restore
//Type: 0-> restore all data, 1-> restore only PIMS data
[RESTORE]
Install=1
ExeFile=\FlashDisk\xPIMS\MS-Backup.exe
Type=0
Reset=1
```

After cold boot, the device will automatically restore the backup data (ExBackup) and perform a warm boot after a successful restoration.

Preprint pallet labels

It is possible to pre-print logistic labels so they can be used later when creating stocks.

Because in this case the SSCC's do not exist in the system when they are printed, it requires a special procedure in order to create the labels and to avoid SSCC duplications.

1. Add the stored procedure

Before adding the stored procedure, go to the '[SSCC tab](#)' of the Organizational Structure and check the 'Current SSCC' number.

Add the '[PMX_SP_GoodsReceiptLabel_Mass](#)' stored procedure to the PMX_<database_name> database. Modify the start SSCC by entering the current SSCC number plus one as the value for the `set @currentSSCCInt` parameter.

The added SSCC number will be the first SSCC number to be printed.

EXAMPLE: In the example the Current SSCC number was 10, therefore we added 11 as the start SSCC number.



2. Crystal Reports

Open the '[GoodsReceiptLabel_MASS](#)' report in Crystal Reports.

Set the datasource location of the report to the 'PMX_SP_GoodsReceiptLabel_Mass' stored procedure.



Print the labels from Crystal Reports. On the 'Enter values' form add the number of the logistic labels to print to the @count field and click on the 'Ok' button.



3. Modify the current SSCC number

As the pre-printed SSCC's do not exist in the system, the current SSCC number did not change. In order to avoid SSCC duplication, increase the current SSCC number with the number of the printed SSCC's on the PMX_SSCC table.

EXAMPLE: We printed 10 labels therefore we increased the value in the Current SSCC column by 10. Because the original value was 10, we set 20 as the new value.



<COMPANY NAME> INVENTORY

(00)000000000000000116



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