3.4. Adaptation of stored procedures

3.4.1. Enable the standard PMX stored procedure

The following sections describe the process of enabling the standard PMX stored procedure with Microsoft SQL (section 3.4.1.1) and SAP HANA (section 3.4.1.2).

3.4.1.1. With Microsoft SQL Server

After the configuration is done, you need to enable the (custom) stored procedures in the stored procedure of SAP named "SBO_TransactionNotification".

When applying the Produmex Add-on the first time to a database, you also need to adapt the stored procedure "SBO_SP_TransactionNotification".

1. Open SQL Server Management Studio and connect to your database server.

2. Expand the Databases folder and locate the database to which you want to apply the Produmex Add-on.

3. Open this database directory and open the "Programmability\Stored Procedures" subdirectory.

4. Locate the "dbo.PMX_SP_TransactionNotification" stored procedure, right-click it and select "Modify".

+	🔄 dboTmSp_UpgradePCH1RPC1StockSumforND				
+	dboTmSp_VariableUpdate_OUQR 3				
+	🛃 dboTmSp_VatSumCalc	dboTmSp_VatSumCalc 37			
+	dbo.PMX_SP_OECTransac	tionNotification 38			
+	dbo.PMX_SP_Transa	New Stored Procedure			
+	🛃 dbo.SBO_GetNextAu				
+	dbo.SBO_SP_PostTri	Modify 1			
+	dbo.SBO_SP_Transa	Execute Stored Procedure 2			
+	dbo.TmSp_adding_T	Script Stored Procedure as			
+	dbo.TmSp_AddSqlUs				
+	🛃 dbo.TmSp_ArcCreat	View Dependencies			
+	🛃 dbo.TmSp_ArcCreat	Delizion			
+	dbo.TmSp_ArcIVIDB	Policies P			
+	dbo.TmSp_ArcProces	Facets			
+	🛃 dbo.TmSp_ArcSaveA				
+	dbo.TmSp_B1CFLDe	Start PowerShell			
+	dbo.TmSp_B1CFLGe	Reports •			
+	dbo.TmSp_BOM_IsF				
+	dbo.TmSp_BOM_IsF	Rename			
+	dbo.TmSp_ChooseC	Poloto			
+	dbo.TmSp_ChooseIN				
+	🔄 dbo.TmSp_ConGrpLi	Refresh			
+	🔄 dbo.TmSp_ConvertG				
+	dbo.TmSp_CorrActR	Properties			
_					

5. Locate the "Produmex Logex Addon Code" at the end of this stored procedure (see illustration below)

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8113	
8114	Following code must be added to the stored procedure SBO_SP_TransactionNotification
8115	to execute the PMX stored procedure:
8116	
8117	***********************************
8118	Start executing Produmex Logex Addon code
8119	***********************************
8120	BEGIN TRY
8121	EXEC [dbo].[PMX_SP_TransactionNotification]
8122	@object_type,
8123	@transaction_type,
8124	@num_of_cols_in_key,
8125	@list_of_key_cols_tab_del,
8126	@list_of_cols_val_tab_del,
8127	@error = @error OUTPUT,
8128	@error_message = @error_message OUTPUT
8129	END TRY
8130	BEGIN CATCH
8131	SET @error = ERROR_NUMBER()
8132	SET @error_message = ERROR_MESSAGE()
8133	DECLARE @msg as NVARCHAR(255)
8134	SET @msg = SUBSTRING('PMX_SP: sql error ' + CAST(ERROR_NUMBER() AS NVARCHAR) + ' : ' + ERROR_MESSAGE()
8135	+ ISNULL(' line ' + CAST(ERROR_LINE() AS NVARCHAR), '') + ISNULL(' in ' + ERROR_PROCEDURE(), ''),1,255)
8136	EXEC xp_logevent 999999, @msg, ERROR
8137	END CATCH;
8138	***********************************
8139	End executing Produmex Logex Addon code
8140	L*********************************

6. Copy the "Produmex Logex Addon Code".

Last

Now paste the code into the "dbo.SBO_SP_TransactionNotification" stored procedure as follows.

7. Locate the "dbo.SBO_SP_TransactionNotification" stored procedure, right-click it and selectModify.

🖽 📷 ado1m5p_variadieUpdate	_00QK						
🛨 📴 dboTmSp_VatSumCalc	🛃 dboTmSp_VatSumCalc						
🕀 📃 dbo.PMX_SP_OECTransacti	dbo.PMX_SP_OECTransactionNotification						
🛨 🔄 dbo.PMX_SP_TransactionNotification							
🛨 🛃 dbo.SBO_GetNextAutoKey							
🕀 🧾 dbo.SBO_SP_PostTransacti	onNotice						
🕀 🖬 dbo.SBO_SP_TransactionNr	tification						
🕀 🔄 dbo.TmSp_adding_To	New Stored Procedure						
🛨 🛃 dbo.TmSp_AddSqlUser	Modify						
	induity						
🕀 🛃 dbo.TmSp_ArcCreateI	Execute Stored Procedure						
🕀 🔄 dbo.TmSp_ArcIVIDBHe	Script Stored Procedure as						
	View Dependencies						
Image: Barrier Barrier International Inte							
🕀 🔄 dbo.TmSp_B1CFLDepl	Policies •						
	Excela						
🕀 🔄 dbo.TmSp_BOM_IsFat							
🕀 🔄 dbo.TmSp_BOM_IsFat	Start PowerShell						
🕀 📃 dbo.TmSp_ChooseCIN							
🕀 📃 dbo.TmSp_ChooseINV	Reports						
王 📴 dbo.TmSp_ConGrpLine							
🕀 📴 dbo.TmSp_ConvertGrp	Rename						
	Delete						
🕀 📃 dbo.TmSp_CorrActRep							
🕀 📃 dbo.TmSp_CorrActRep	Refresh						
🕀 📃 dbo.TmSp_CorrActRep	Properties						
🛨 📴 dbo.TmSp_CreateIVIR							
王 📴 dbo.TmSp_DAB002_Top5BP	FutureRemitByAgeDa						
🗉 🛃 dbo.TmSp_DAB002_Top5BPOverdue90PDayByA							

8. Paste the "Produmex Logex Addon Code" at the end of it. With a new installation you will see a marked area like "- ADD YOUR CODE HERE".

9. Uncomment the SP by clicking on the Uncomment button in SQL Management Studio.

×

SQLQu	50LQuery4.sql5_41 (sa (63))* SQLQuery3.sql5_41 (sa (61)) SQLQuery2.sql5_41 (sa (59))* SQLQuery1.sql5_41 (sa (55))					
1	9					
2	0 Return values					
2	1 declare @error int Result (0 for no error)					
2	2 declare @error_message nvarchar (200) Error string to be displayed					
2	3 select @error = 0					
2	4 select @error_message = N'OK'					
2	5					
2	б <u>р</u>					
2						
2						
2	9					
3	0Start executing Produmex Logex Addon code					
3	1**********************************					
3	2 BEGIN TRY					
3	EXEC [dbo].[PMX_SP_TransactionNotification]					
3	4 @object_type,					
3	5 @transaction_type,					
3	6 @num_of_cols_in_key,					
3	7 @list_of_key_cols_tab_del,					
3	<pre>8 @list_of_cols_val_tab_del,</pre>					
3	9 @error = @error OUTPUT,					
4	0 - Gerror_message = Gerror_message OUTPUT					
4	1 END TRY					
4	2 BEGIN CATCH					
4	3 SET @error = ERROR_NUMBER()					
4	4 SET @error_message = ERROR_MESSAGE()					
4	5 DECLARE @msg as NVARCHAR(255)					
4	6位 SET @msg = SUBSTRING('PMX_SP: sql error ' + CAST(ERROR_NUMBER() AS NVARCHAR) + ' : ' + ERROR_MESSAGE()					
4	<pre>7 + ISNULL(' line ' + CAST(ERROR_LINE() AS NVARCHAR), '') + ISNULL(' in ' + ERROR_PROCEDURE(), ''),1,255)</pre>					
4	8 EXEC xp_logevent 999999, @msg, ERROR					
4	9 END CAICH;					
5						
5	1End executing Produmex Logex Addon code					
5	2					
5	3 <mark>p</mark>]					
5						
5	5 Select the return values					
5	6 select Gerror, Gerror_message					
5	7					
5	s - end					
5	3					

10. Execute the SBO_SP_TransactionNotification stored procedure.

Continue with section 3.4.2. Enable a custom stored procedure.

3.4.1.2. With SAP HANA

After the configuration is done you need to enable the (custom) stored procedures in the stored procedure of SAP named "SBO_TRANSACTIONNOTIFICATION".

When applying the Produmex Add-on the first time to a database you will also need to adapt the stored procedure "SBO_SP_TRANSACTIONNOTIFICATION"

1. Open the SAP HANA Studio and connect to your SAP HANA server.

2. Expand the "Catalog" folder and locate the schema to which you want to apply the Produmex Addon.

3. Right-click on this schema and select "SQL Console" to open a new SQL console.

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dia angle sbocomm Dia angle sbodemol	ON IS		
b 🗁 Colum		New Table	
Function	×	Delete	Delete
⊿ 🗁 Proced ⊳ 🗁 Tab	8	Refresh	F5
📑 ATF	2	Import	
ATΓ 🔂 ΔΤΓ		Export	
он о	SQL	SQL Console	
📑 ATI	ø	Find Table	
TΓ 🔂 🔂		Show Table Distribution	
C ATP	_A6_N	IORM_OILM	

Keep this SQL console open during the whole process.

4. Expand the schema directory and open the "Procedures" subdirectory.

5. Locate the "SBO_SP_TRANSACTIONNOTIFICATION" stored procedure, right-click it and select "Open Definition".

[SBO_SP_PO	🕵 SBO_SP_POSTTRANSACTIONNOTICE				
🕵 SBO_SP_TRANSACTIONNOTIFICATION					
🕵 SP_PROCE		Open Definition			
📑 TMSP_ADC		Show Authorization			
🞼 TMSP_ADC					
🔀 TMSP_ARC	×	Delete	Delete		
📑 TMSP_ARC					
🞼 TMSP_ARC	\$	Refresh	FS		
📑 TMSP_ARC	e ka	Import			
📑 🛃 TMSP_ARC		- Funct			
🞼 TMSP_ARC		Export			
📑 TMSP_B1C	SQL	SQL Console			
📑 TMSP_B1C	æ	Find Table			
🕵 TMSP_BON					
🕵 TMSP_BON		Open with SAP HANA Stored Procedure Viewer			

6. Open its content by opening the *Create Statement* tab:



7. Copy the content into the SQL console.

8. Locate the "PMX_SP_TransactionNotification" stored procedure, right-click it and select "Open Definition".

📑 PMX_SP_R	ebuildSeq	uences		
📑 PMX_SP_Tr	X_SP_TransactionNotification			
PMX_Test1 PMX_Test2 PRETEST 4	9 E	Open Definition Show Authorization		
	2_4 🗙	Delete	Delete	
PRETEST_5	3_F 4_(≷	Refresh	F5	
Image: PRETEST_5 Image: PRETEST_5 Image: PRETEST_5	5_(7_F 8_(Import Export		
<pre>PRETEST_5 PRETEST_6 PRETEST_6 PRETEST_6</pre>)_(💷)_I 🖉	SQL Console Find Table		
PRETEST_6	8_I 8_Ркоро	Open with SAP HANA Stored Procedure Viewer		

9. Open its content by opening the *Create Statement* tab, and locate the "Produmex Logex Addon Code" at the end of this stored procedure (see illustration below).

×

10. Copy the "Produmex Logex Addon Code".

11. This code should now be pasted into the SQL console, where you have already pasted the content of the "SBO_SP_TRANSACTIONNOTIFICATION" stored procedure. Paste the "Produmex Logex Addon

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Code" at the end of it. With a new installation you will see a marked area like "- ADD YOUR CODE HERE".

12. Uncomment the copied code by removing the leading '-' from each line.

```
13. Add the following line on the top of your SQL console:
DROP PROCEDURE SB0_SP_TransactionNotification;
```

The SQL console should look like this:

×

14. Execute the code in your SQL console to modify the SBO_SP_TRANSACTIONNOTIFICATION procedure.

2018/01/17 15:54 · csuhaa

3.4.2. Enable a custom stored procedure

Every custom stored procedure related to Produmex WMS should be called from the PMX_TransactionNotification stored procedure as this stored procedure is executed from all Produmex WMS flows and processes when creating or modifying a document.

The SBO_SP_TransactionNotification is only called when creating or modifying a standard SAP document.

1. Open the custom stored procedure.

In this example: PMX_SP_OECTransactionNotification.



- **2.** Select the commented text and copy it to the clipboard (Ctrl+C).
- **3.** Open the PMX_SP_TransactionNotification for modification.
- **4.** Paste the text to the PMX_SP_TransactionNotification (Ctrl+V) and uncomment it.

Note: If you have an older custom stored procedure, the header of the commented text may say that you should add it to the SBO_SP_TransactionNotification, but it should be added to the PMX_SP_TransactionNotification in this case as well.

5. Alter the PMX_SP_TransactionNotification with this modification.

Stored procedure call hierarchy



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3.4.3. Enable the Notification Listener stored procedure

After configuring the SB1 Notification Listener, the stored procedures must be enabled in the "PMX_TransactionNotification" SAP stored procedure as follows.

Note: If the SB1 Notification Listener is not installed, continue with section 3.5. Register the Produmex add-on.

With Microsoft SQL Server

1. Open the SQL Server Management Studio and connect to your database server.

2. Expand the *Databases* folder and locate the company database to which you want to apply the Produmex Add-on.

3. Open this database directory and open the Programmability / Stored Procedures subdirectory.

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4. Locate the dbo.PMX_SP_TransactionNotificationQueue stored procedure, right-click it and select *Modify*.

×

5. Locate the *Produmex SboNotification Queue Code* at the end of this stored procedure (see illustration below).

×

6. Copy the *Produmex SboNotification Queue Code*.

This code should now be pasted in the "dbo.PMX_SP_TransactionNotification" stored procedure in the **Company database** as follows.

7. Locate the "dbo.PMX_SP_TransactionNotification" stored procedure, right-click it and select Modify.

×

8. Paste the "Produmex SboNotification Queue Code" at the end of it, right after the code you have copied for the Produmex Addon stored procedure (see 3.3.1. Enable the standard PMX stored procedure).

×

9. Uncomment the SP by clicking the Uncomment button in SQL Management Studio. The result should look like this:

×

10. Execute the PMX_SP_TransactionNotification stored procedure.

With SAP HANA

1. Open the SAP HANA Studio and connect to your SAP HANA server.

2. Locate the PMX_SP_TransactionNotificationQueue stored procedure, right-click it and select Open Definition.

×

3. Open its content by opening the Create Statement tab.

4. Locate and copy the Produmex SboNotification Queue Code at the end of this stored procedure. This code should now be pasted in the PMX_SP_TransactionNotification stored procedure.

5. Locate the PMX_SP_TransactionNotification stored procedure, right-click it and select Open Definition.

×

6. Open its content by opening the Create Statement tab.

7. Paste the Produmex SboNotification Queue Code at the end of it.

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8. Uncomment the copied code by removing the leading '-' from each line.

9. Execute the code.

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