# 3.4. Adaptation of stored procedures

## 3.4.1. Enable the standard PMX stored procedure

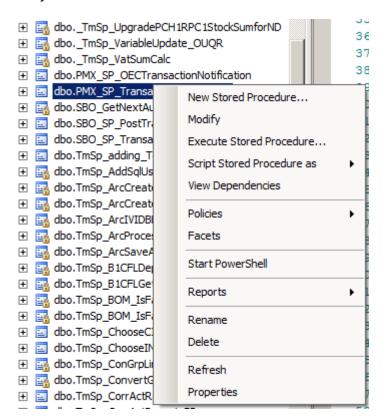
The following sections describe the process of enabling the standard PMX stored procedure with Microsoft SQL (section 3.4.1.1) and SAP HANA (section 3.4.1.2).

#### 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".

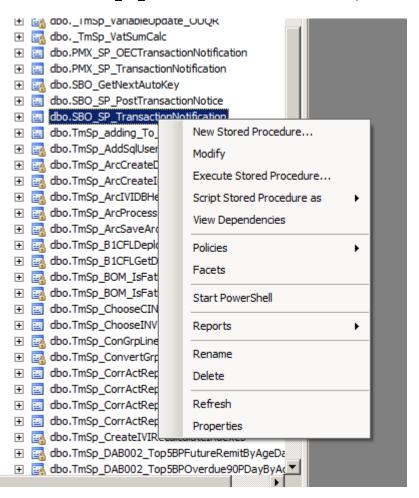
- 1. Open SQL Server Management Studio and connect to your database server.
- 2. Expand the Databases folder and locate the database to which you want to apply the Produmex Add-on.
- 3. Open this database directory and open the "Programmability\Stored Procedures" subdirectory.
- 4. Locate the "dbo.PMX\_SP\_TransactionNotification" stored procedure, right-click it and select "Modify".



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

```
8114 ----Following code must be added to the stored procedure SBO SP TransactionNotification
     ----to execute the PMX stored procedure:
8115
     ----Start executing Produmex Logex Addon code
8119
8120
     --BEGIN TRY
     -- EXEC [dbo].[PMX_SP_TransactionNotification]
8121
8122 -- @object type,
8123
     -- @transaction type,
8124
     -- @num of cols in key,
     -- @list_of_key_cols_tab_del,
     -- @list_of_cols_val_tab_del,
8126
     -- @error = @error OUTPUT,
8128
     -- @error_message = @error_message OUTPUT
     --END TRY
8129
     --BEGIN CATCH
8130
     -- SET @error = ERROR_NUMBER()
8131
8132
     -- SET @error_message = ERROR_MESSAGE()
8133 -- DECLARE @msg as NVARCHAR(255)
     -- SET @msg = SUBSTRING('PMX_SP: sql error ' + CAST(ERROR_NUMBER() AS NVARCHAR) + ' : ' + ERROR_MESSAGE()
8134
                  + ISNULL( 'line' + CAST(ERROR_LINE() AS NVARCHAR), '') + ISNULL( 'in ' + ERROR_PROCEDURE(), ''),1,255)
8135
8136 -- EXEC xp_logevent 999999, @msg, ERROR
8137
     --END CATCH;
8138
     ----End executing Produmex Logex Addon code
8139
8140
```

- 6. Copy the "Produmex Logex Addon Code". 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.



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".

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

3/9

```
declare @error int
                               -- Result (0 for no error)
     declare @error_message nvarchar (200)
     select @error = 0
     select @error_message = N'Ok'
     --Start executing Produmex Logex Addon code
  32 BEGIN TRY
        EXEC [dbo].[PMX_SP_TransactionNotification]
        @object_type,
@transaction_type,
        @num_of_cols_in_key,
@list_of_key_cols_tab_del,
        @list_of_cols_val_tab_del,
@error = @error OUTPUT,
        @error message = @error message OUTPUT
     END TRY
  42
     BEGIN CATCH
       SET @error message = ERROR MESSAGE()
       DECLARE @msg as NVARCHAR(255)
  EXEC xp_logevent 999999, @msg, ERROR
-END CATCH;
  51 -- End executing Produmex Logex Addon code
     -- Select the return values
     select Gerror, Gerror message
  59
```

10. Execute the SBO SP TransactionNotification stored procedure.

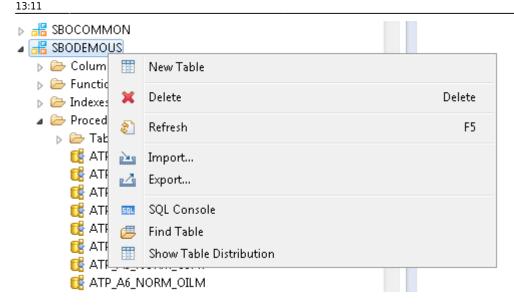
Continue with section 3.4.2. Enable a custom stored procedure.

#### **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".

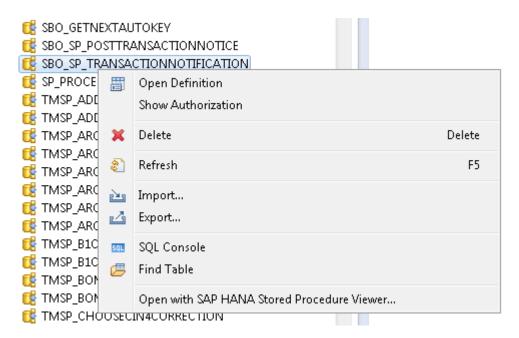
When applying the Produmex Add-on the first time to a database you will also need to adapt the stored procedure "SBO\_SP\_TRANSACTIONNOTIFICATION"

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

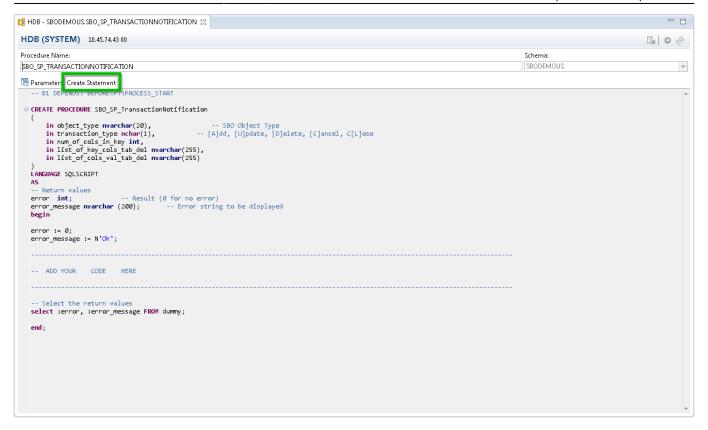


Keep this SQL console open during the whole process.

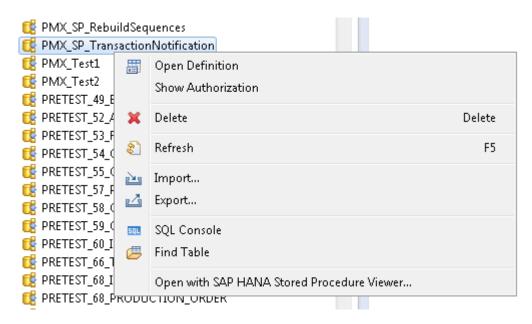
- 4. Expand the schema directory and open the "Procedures" subdirectory.
- 5. Locate the "SBO\_SP\_TRANSACTIONNOTIFICATION" stored procedure, right-click it and select "Open Definition".



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".



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

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.

```
dbo._imsp_UpdateUoubleName
dbo._imsp_UpdateSubLineNumOILMAndOIVL
dbo._imsp_UpdateSubLineNumOINM
dbo._imsp_UpdateSubLineNumOINM
dbo._imsp_UpgradeDocLineNuminOINMforWKO
                                                                                                                                                                                                                ---Following code must be added to the stored procedure SBO SP TransactionNotification
 ----to execute the PMX stored procedure
  ----Start executing Produmex Logex Addon code for OEC
                                                                                                                                                                                                     --IF @error = 0
--BEGIN
do., TmSp, VariableUp, ValsumCal, do., TmSp, ValsumCal, do., TmSp, do., TmSp, do., St., College, do., SSP, GetWetAut (do., tmSp, AddSqUas (do., tmSp, ArcCreate (do., tmSp, ArcCre
                                                                                                                                                                                                       -- BEGIN TRY
                                                                                                                                                                                                                                          EXEC [dbo].[PMX_SP_OECTransactionNotification]
@object_type,
          dbo.PMX_SP_OECTrapeac
                                                                                         New Stored Procedure...
                                                                                                                                                                                                                                           @transaction type
                                                                                                                                                                                                                                         grransaction_type,
Gnum of cols in key,
Glist_of_key_cols_tab_del,
Glist_of_cols_val_tab_del,
Gerror = Gerror OUTFUT,
Gerror_message = Gerror_message OUTFUT
                                                                                        Script Stored Procedure as
                                                                                         View Dependencies
                                                                                        Policies
                                                                                                                                                                                                     -- END TRY
                                                                                                                                                                                                                       END TRY

BEGIN CATCH

SELECT @error = ERROR_NUMBER(), @error_message = ERROR_MESSAGE()

SET @msg = SUBSTRING('PRY_SP_OEC: sql error ' + CAST(ERROR_NUMBER() AS NVARCHAR) + ' : ' + ERROR_MESSAGE()

+ ISNULL( 'line ' + CAST(ERROR_LINE() AS NVARCHAR), '' ) + ISNULL( 'in ' + ERROR_PROCEDURE(), '' ),1,255)

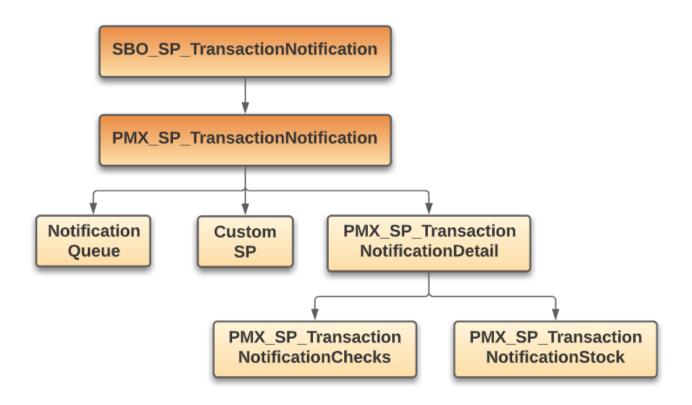
EXEC xp_logevent 999999, @msg, ERROR
                                                                                        Facets
   dbo.TmSp_B1CFLDep
dbo.TmSp_B1CFLDep
dbo.TmSp_B1CFLDep
dbo.TmSp_BOM_IsFa
dbo.TmSp_BOM_IsFa
dbo.TmSp_ChooseCII
dbo.TmSp_ChooseCII
dbo.TmSp_ConGrpLin
dbo.TmSp_ConGrpLin
                                                                                        Rename
                                                                                        Delete
 dbo.TmSp_ConvertGr
dbo.TmSp_CorrActRe
          dbo.TmSp_CorrActRe
```

- **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



2018/01/17 15:54 · csuhaa

# 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.

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

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