InfoProvider Redesign Functions- Part 2: Remodeling

Applies to:

SAP NetWeaver BW. For more information, visit the EDW homepage

Summary

This document provides a detailed insight into Redesigning InfoProviders by the Process of Remodeling. The technique has been explained in detail and then implemented with utmost attention to explanation of every minute detail.

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Author Bio

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Overview of Remodeling

Use

You want to modify an InfoCube that data has already been loaded into. You use remodeling to change the structure of the object without losing data.

If you want to change an InfoCube that no data has been loaded into yet, you can change it in InfoCube maintenance.

You may want to change an InfoProvider that has already been filled with data for the following reasons:

●You want to replace an InfoObject in an InfoProvider with another, similar InfoObject. You have created an InfoObject yourself but want to replace it with a BI Content InfoObject.

●The structure of your company has changed. The changes to your organization make different compounding of InfoObjects necessary.

Prerequisites

As a precaution, make a backup of your data before you start remodeling.
In addition, ensure that:

●You have stopped any process chains that run periodically and affect the corresponding InfoProvider. Do not restart these process chains until remodeling is finished.

●There is enough tablespace available in the database.

●After remodeling, you have to check which BI objects that are connected to the InfoProvider (for example, transformation rules, MultiProviders) have been deactivated. You have to reactivate these objects manually.

The remodeling makes existing queries that are based on the InfoProvider invalid. You have to manually adjust these queries according to the remodeled InfoProvider. If, for example, you have deleted an InfoObject, you also have to delete it from the query.

Features

A remodeling rule is a collection of changes to your InfoCube that are executed simultaneously.
For InfoCubes, you have the following remodeling options:

For characteristics:

● Insert or replace characteristics with:

○ Constants

○ An attribute of an InfoObject within the same dimension

○ A value of another InfoObject within the same dimension

○ A customer exit (for user-specific code)

● Delete

For key figures:

● Insert:

- ○ Constant

- ○ A customer exit (for user-specific code)

- Replace with:

- ○ A customer exit (for user-specific code)

- Delete

You cannot replace or delete units. This avoids having key figures in the InfoCube without the corresponding unit.

Note: Remodeling InfoObjects or DataStore objects is not supported at present. This is planned for future releases however.
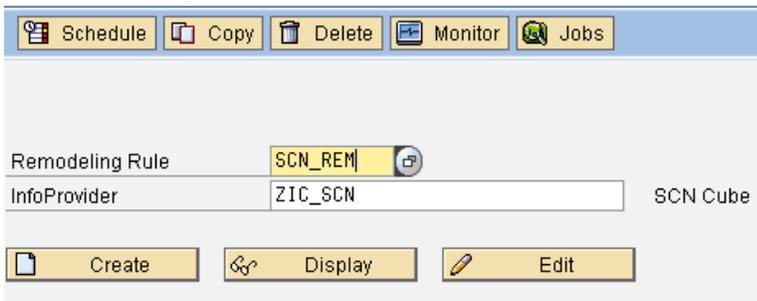
Illustrated Implementation of Remodeling Procedure

To carry out the Repartitioning procedure, Right click on your InfoCube and in the context menu, navigate through Additional Functions → Remodeling.
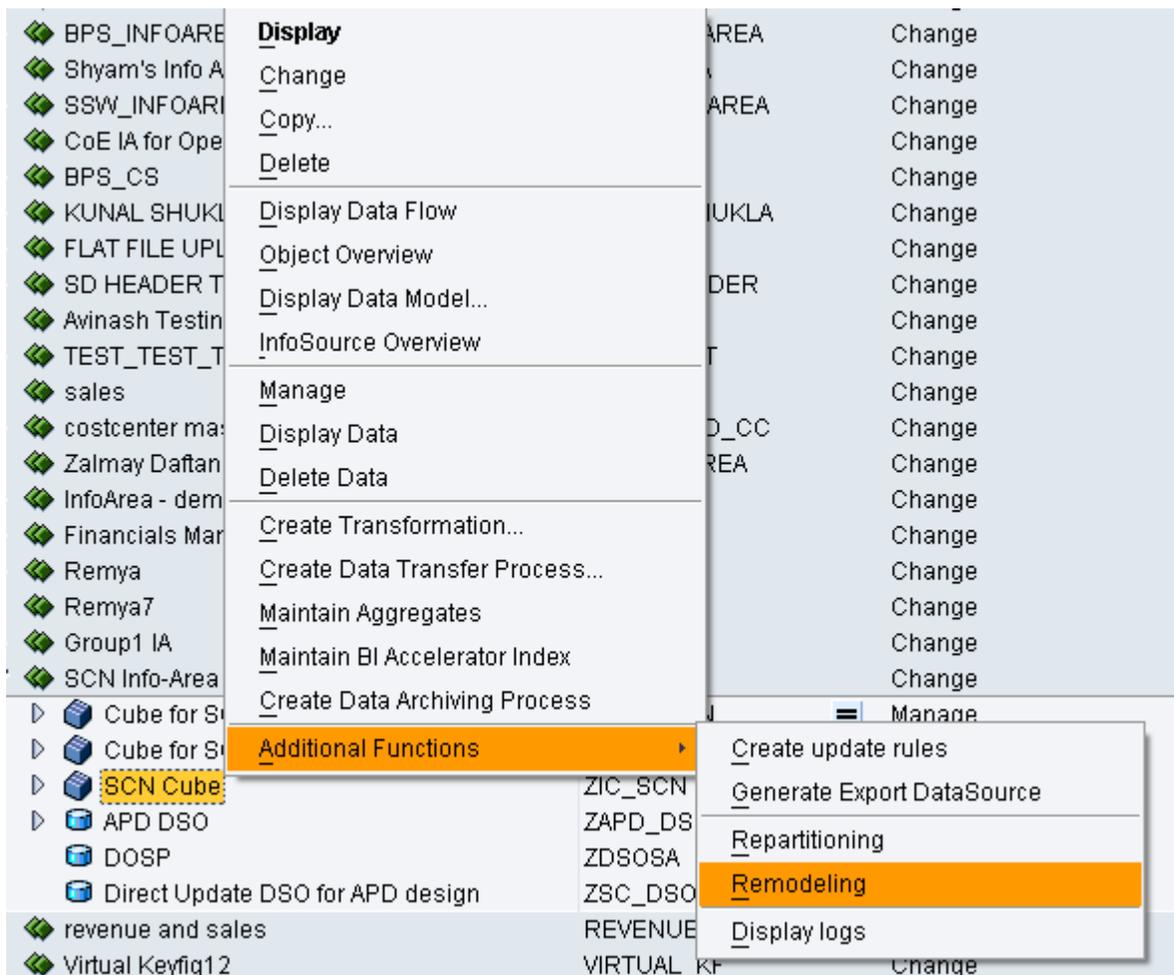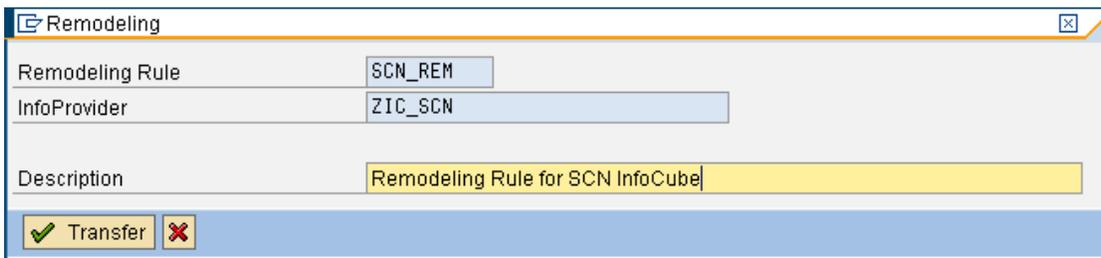
You will get the following window after clicking on Repartitioning. Enter a remodeling rule name and press Create to create a new rule.
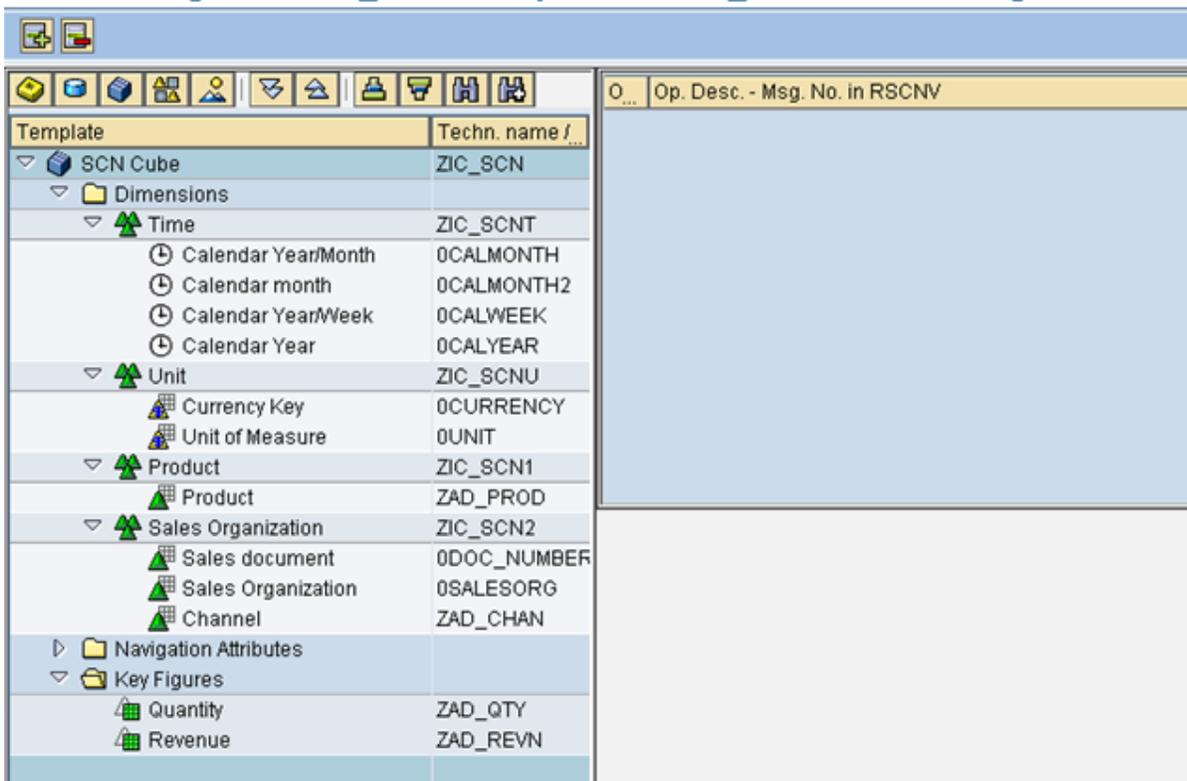

After clicking on Create you will get the following pop-up window where in you have to enter a description for the rule you wish to create (as shown below).

After entering the description, press the Transfer button.

You will see the following screen.

As you can see, the left pane shows the structure of the InfoCube in consideration.

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To add a new remodeling rule, Click on the Green Plus sign on the Top-Left corner of your screen (Also circled in Red below). It is called the Add Operation to List button.

Remodeling Rule SCN_REM - Infoprovider ZIC_SCN : Remodeling Rule for S

Template	Techn. name /
SCN Cube	ZIC_SCN
Dimensions	
Time	ZIC_SCNT
Calendar Year/Month	0CALMONTH
Calendar month	0CALMONTH2
Calendar Year/Week	0CALWEEK
Calendar Year	0CALYEAR
Unit	ZIC_SCNU
Currency Key	0CURRENCY
Unit of Measure	0UNIT
Product	ZIC_SCN1
Product	ZAD_PROD
Sales Organization	ZIC_SCN2
Sales document	0DOC_NUMBER
Sales Organization	0SALESORG
Channel	ZAD_CHAN
Navigation Attributes	
Key Figures	
Quantity	ZAD_QTY
Revenue	ZAD_REVN

O... | Op. Desc. - Msg. No. in RSCNV

You will get the following pop-up where you can add the remodeling rules.

Remodeling Rule SCN_REM - Infoprovider ZIC_SCN : Remodeling Rule for S

Choose from the following operations

◉ Add characteristic   ○ Add key figure
○ Delete characteristic   ○ Delete key figure
○ Replace characteristic   ○ Replace key figure

Add characteristic
To Dimension

Using
◉ Constant
○ Attribute
  Of characteristic

○ 1:1 Mapping With characteristic
○ Customer Exit

✓ Transfer   ✗   Clear

Business Requirement

The requirement is as follows:

- To delete the Time Characteristic 0CALWEEK from the time dimension as the data has always been delivered with only one time characteristic 0CALMONTH.

- The Sales Organization dimension must be complemented with 0COMP_CODE (Company Code). The 0COMP_CODE characteristic must be initialized 0SALESORG characteristic (Sales Organization)

- To delete the key figure Revenue as it is no longer relevant for reporting in this cube.

We will implement these requirements one by one.

Deleting Characteristics

In the pop-up that opened in the last step, select the Delete Characteristic Radio Button and enter the technical name of the Characteristic name you wish to delete (0CALWEEK in this case)
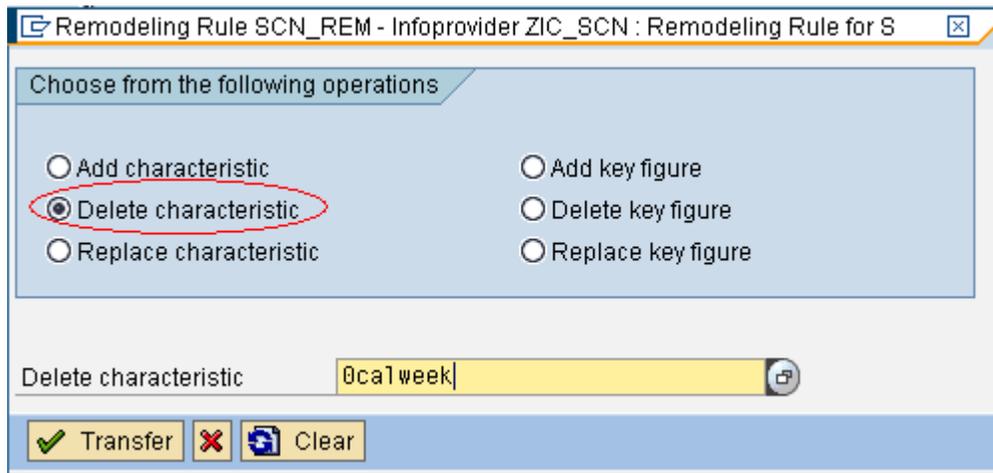
Confirm by pressing the Transfer button.

You will be redirected back to the previous screen where you can see the new rule that has been added in the right pane (As circled in red below).
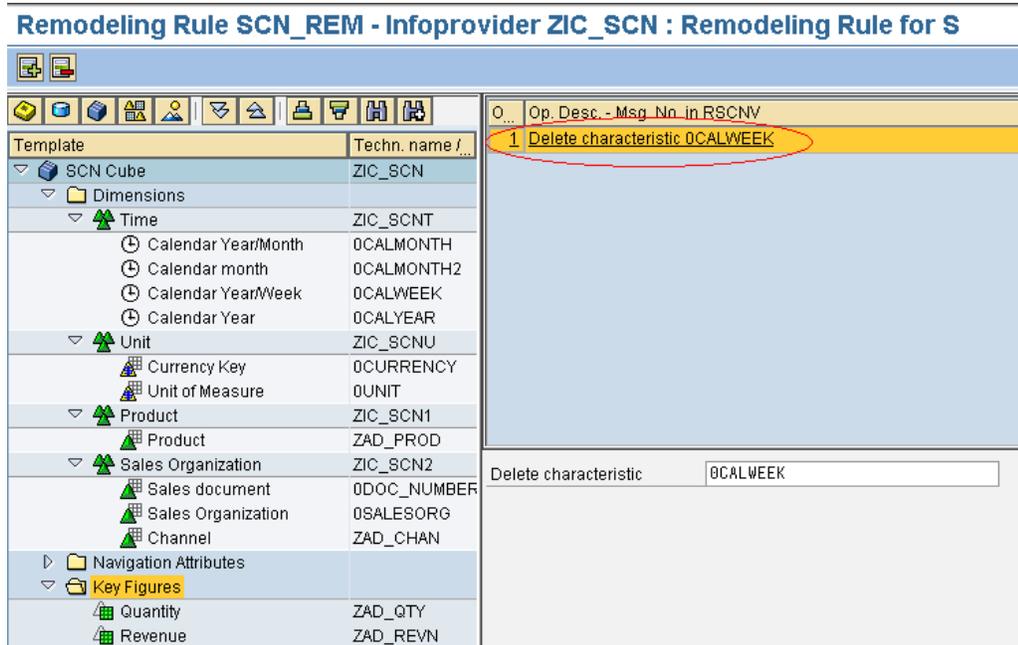
Adding Characteristic

Click on the Add Operation to List button to bring up the Remodeling Rule definition Pop-Up.

First select Add Characteristic operation (Circled in red in the image below).

Enter the technical name, 0COMP_CODE, of the characteristic to be added as well as the dimension you wasn't to assign the new characteristic in the corresponding input fields.

Now, in the Attribute radio-Button to specify the use of the 0COMP_CODE attribute of characteristic 0SALESORG (Sales Organization) as circled below in Red.

Click on Transfer after filling in the required fields.

You will see that the rule has been added as shown below.

Deleting Key Figure

Click on the Add Operation to List button to bring up the Remodeling Rule definition Pop-Up.

First select Delete Key Figure operation (Circled in red in the image below).

The procedure of deleting key figures is similar to that of removing Characteristics.

Enter the technical name of the key figure to be deleted in the input field and confirm your entries by clicking on the Transfer button.

The new rule will be added as shown below.

Saving, Scheduling and Monitoring the Remodeling Rule

Lastly, you must save your remodeling rule by pressing the save button (Circled in red in the image below).

Once you have saved the rule, press the Schedule button (Circled in red in the image below), to execute the remodeling process.
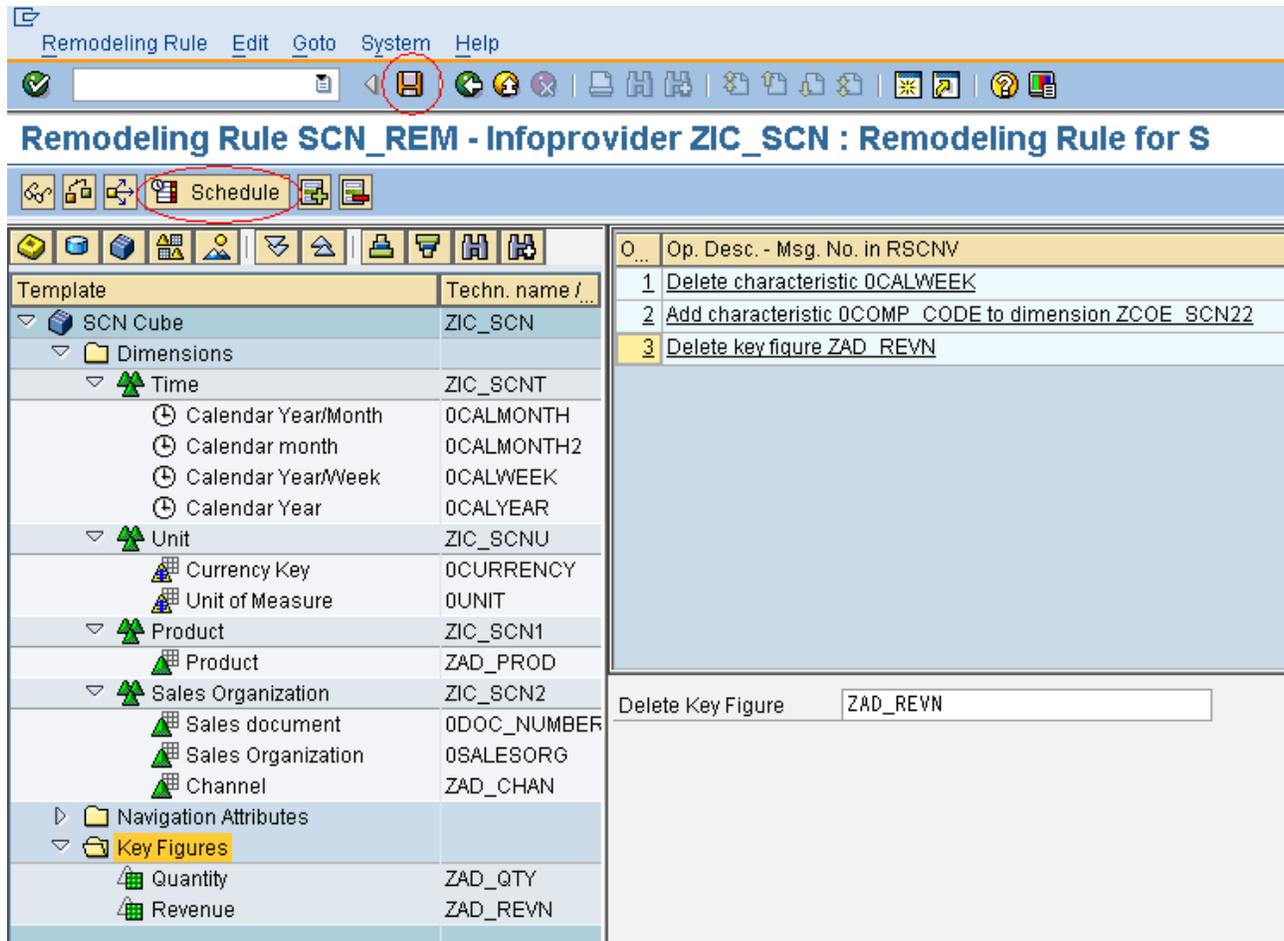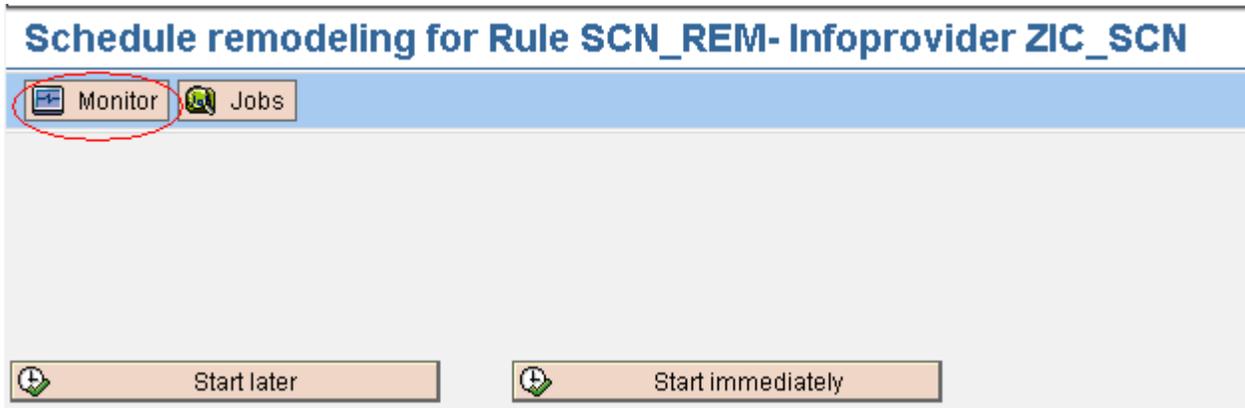

You will get the following screen as soon as you press the Schedule button. Press the Start Immediately Button (Circled in red below) to Start the Remodeling job.
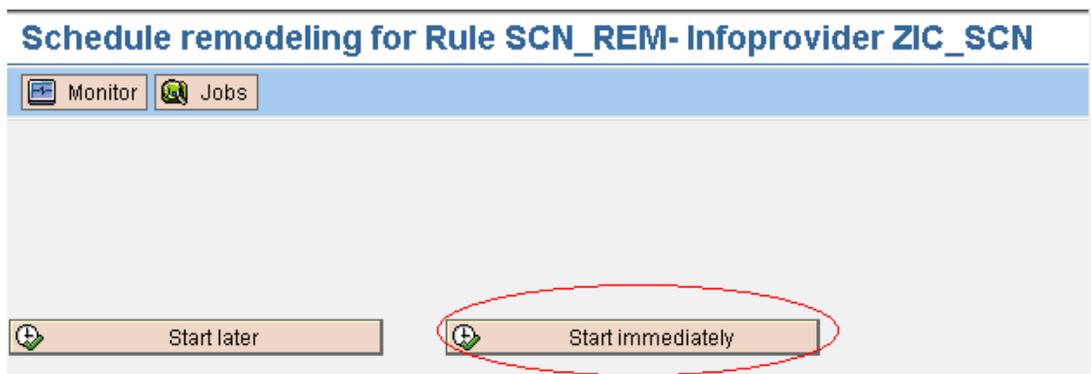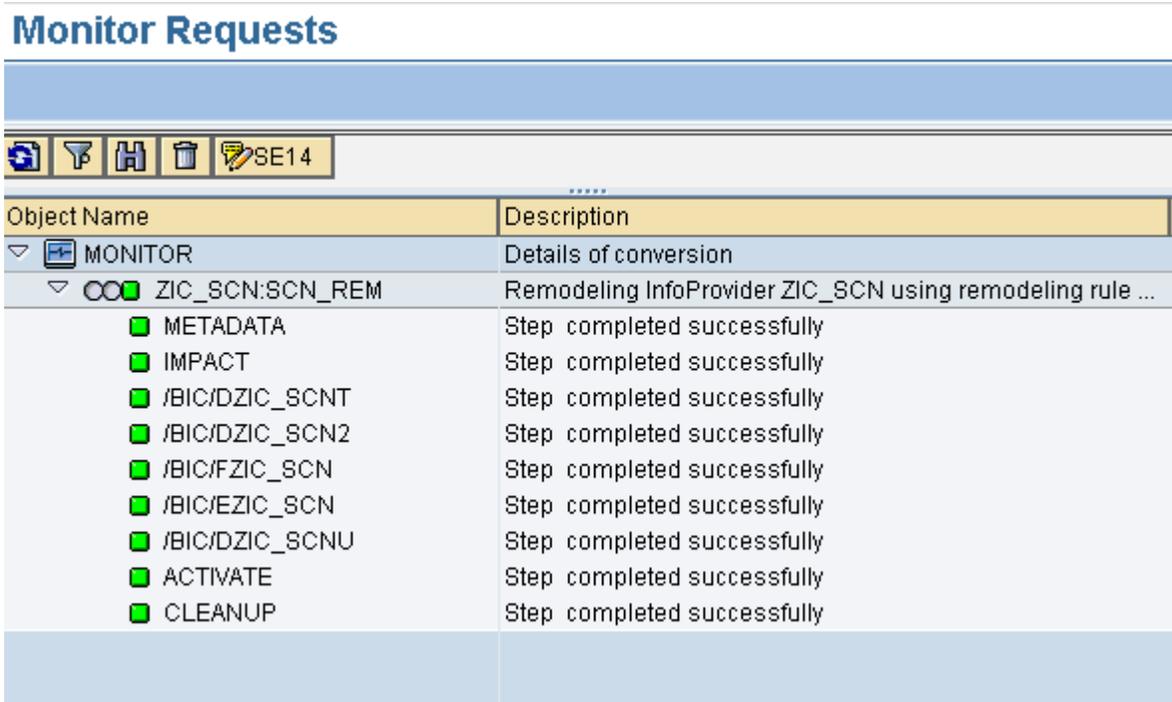
A monitor is available for the remodeling function.

To call the monitor, click on the Monitor button in the scheduling selection screen (Also circled in Red below).

You will be directed to the following screen

The Green requests confirm the successful remodeling of the cube.

Now to confirm that the changes are made, check the InfoCube structure by going to RSA1 Transaction.

InfoCube	Techn. name / value	Fu...	O...	Data ...	L
▽ 📦 SCN Cube	ZIC_SCN				
▽ 🖳 Object Information					
📄 Version	◇ In Process	❖			
📄 Save	⊕ Saved				
📄 Revised Version	= Active Version				
📄 Object Status	📦 Active, executable				
▷ 🗐 Settings					
▽ 📁 Dimensions					
▷ 🔺 Data Package	ZIC_SCNP				
▽ 🔺 Time	ZIC_SCNT				
🕐 Calendar Year/Mont	0CALMONTH			NUMC	06
🕐 Calendar month	0CALMONTH2			NUMC	02
🕐 Calendar Year	0CALYEAR			NUMC	04
▽ 🔺 Unit	ZIC_SCNU				
🔳 Unit of Measure	0UNIT			UNIT	03
▽ 🔺 Product	ZIC_SCN1				
🔺 Product	ZAD_PROD			CHAR	10
▽ 🔺 Sales Organization	ZIC_SCN2				
🔺 Channel	ZAD_CHAN			CHAR	05
🔺 Sales document	0DOC_NUMBER			CHAR	10
🔺 Sales Organization	0SALESORG			CHAR	04
🔺 Company code	0COMP_CODE			CHAR	04
▷ 📁 Navigation Attributes					
▽ 📂 Key Figures					
📊 Quantity	ZAD_QTY			QUAN	09

We can see that all the specified requirements have been met.

The remodeling has been successful.

Related Content

http://help.sap.com/saphelp_nw70/helpdata/en/58/85e5414f070640e10000000a1550b0/content.htm

http://forums.sdn.sap.com/thread.jspa?threadID=1934434

http://forums.sdn.sap.com/thread.jspa?threadID=1462867

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