

How-to Guide SAP NetWeaver '04

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Applicable Releases: SAP NetWeaver '04 (Business Warehouse)



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1 Business Scenario

You want to incorporate functionality in a process chain that is not provided by the delivered process types. You can implement the needed functionality as an ABAP/4 program and do not need a customer defined process type. For customer defined process types please refer to the documentation of process chains.

This document describes the steps to incorporate an ABAP/4 program into a process chain. The used example of deleting and recreating an existing secondary index of an ODS object can be exchanged by any other example. The sample program does not claim to be complete or correct.

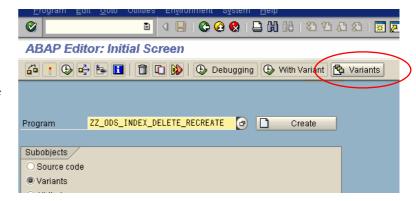
2 The Step By Step Solution

The required functionality is implemented as an ABAP/4 program. The program is incorporated in the process chain with the process type 'ABAP program' and the creation of a respective variant for the program (if needed for the population of selection parameters for the program). The screen shots are taken from a BW 3.0B, Support Package 13, system.

1. Create an ABAP program

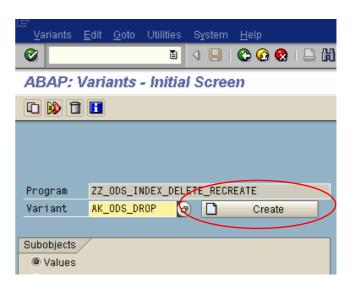
Use transaction SE38 to implement your ABAP/4 program. Please see the Appendix for a sample source code of the sample program.

If the program has selection parameters, you have to define a variant for the execution of the program.



2. Creation of a variant

- a). Provide a name for the variant, and populate the parameter fields with the desired values.
 - b). The attribute screen allows you to provide a description for the variant and to specify settings for the selection parameters of the program.



3. Definition of a process chain

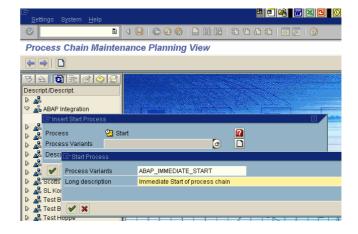
Press the respective icon in the Administrator Workbench () or use the transaction RSPC. Create a new process chain, and provide a title and a description.

NOTE: If you want to assign your process chain to a specific or new 'display grouping', you can do so by pressing the

4. Assignment of a variant to the start process

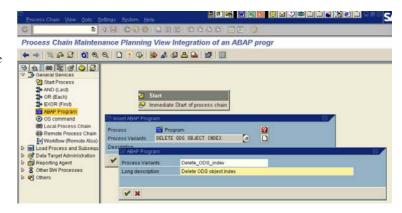
Every process chain needs a start process with a variant, which specifies the scheduling parameters of the process chain. Create either a new variant or reuse one of the already existing ones.





5. Inclusion of the ABAP/4 program

After you have created the variant for the start process, include the ABAP/4 program as the next process type. You have to create a new variant for the process type or re-use an existing one.



6. Specification of program settings

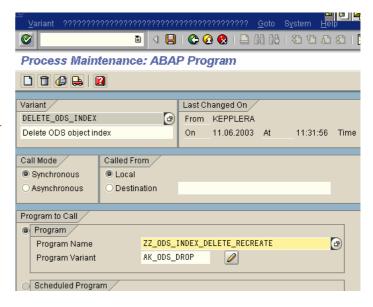
You specify the program to be run and the variant that the program should use (in case the program has selection parameters). The other settings are the same as for the background scheduling of any ABAP/4 program. For further information about those, please refer to the documentation of the ABAP/4 Workbench.

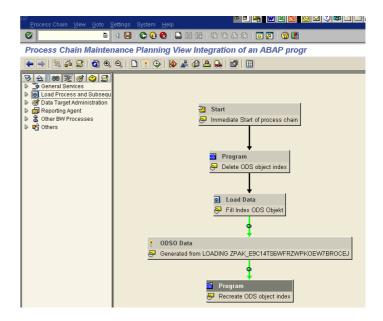
Note If you use the Call Mode 'Asynchronous', you have to the function module RSPC_ABAP_FINISH in your program to indicate the completion of your process.

7. Complete the process chain

Complete the process chain as needed. The sample process chain shows the following processes:

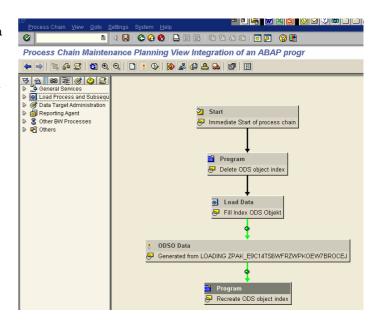
- i.) Delete ODS object indexes
- ii.) Load data into ODS object
- iii.) Activate data of ODS object
- iv.) Recreate ODS object indexes (only if the activation of the data was successful)





8. Activate and execute the process chain

In order to execute the process chain, you have to activate it , and afterwards schedule it . The scheduling triggers also an automatic activation of the process chain.



3 Appendix

Sample code for an ABAP/4 program to delete and recreate the indexes of an ODS object from the database. It does not delete the indexes from the ODS object maintenance.

```
*& Report ZZAK ODS INDEX DELETE
*&
*&-
*&
*&
REPORT ZZAK_ODS_INDEX_DELETE
PARAMETERS: P_ODS TYPE RSDODSOBJECT, "Name of the ODS Object
                    "Call mode of program
Case P_mode.
when 'D'.
* Delete index of ODS Object
 CALL FUNCTION 'RSSM PROCESS ODS DROP INDEXES'
  EXPORTING
   I ODS
            = P_ODS.
when 'C'.
* Recreate indexes of ODS Object
 CALL FUNCTION 'RSSM_PROCESS_ODS_CREA_INDEXES'
  EXPORTING
   I ODS
            = P_ODS.
endcase.
```

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