

How-to Guide
SAP NetWeaver 2004s



How To... **change the** **maximum** **dialog runtime** **of a process**

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SAP NetWeaver 2004s

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1 Scenario

The dialog work process runtime parameter is restricted to 600 seconds. This restriction will cancel a dialog work process after this run time has been reached. This takes effect on the online execution of a query or if a batch process runs in parallel. A parallel batch process is for example the parallel change run. Usually a extended maximum run time for the “dialog” batch process is required, yet for the query runtime not wanted. How to change the maximum runtime before executing the parallel change run and change it back after finishing this process is described in this paper.

2 Introduction

The parameter `rdisp/max_wprun_time` restricts the maximum runtime of a dialog work process. This parameter can be changed with an ABAP program. The ABAP program will be started as the first step in a process chain and changes the parameter from 600 to 3000. As the last step in a process chain the ABAP program is executed again and changes the parameter back to 600. The change of the parameter setting is effective without restarting the system.

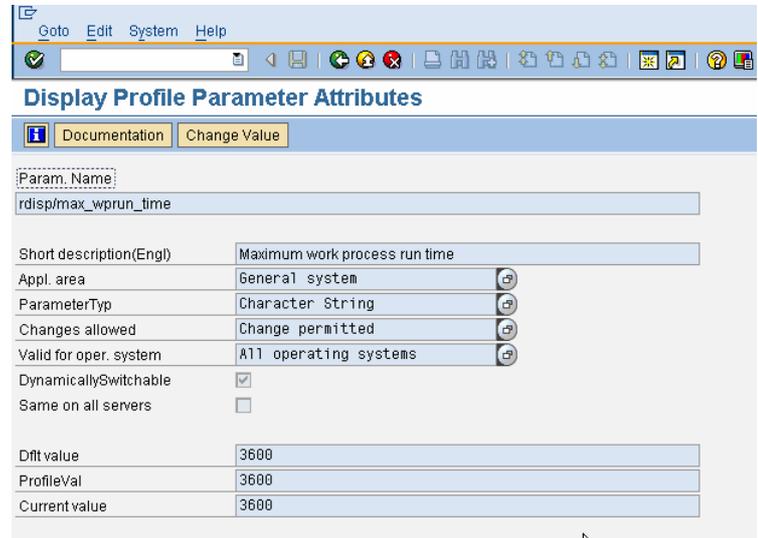
3 The Step By Step Solution

3.1 Check parameter attribute

1. The parameter `rdisp/max_wprun_time` should be set to “DynamicallySwitchable”. This is the prerequisite for this solution.

This parameter can be checked in transaction RZ11.

If the flag “Dynamically Switchable” is not switched on, switch it on and save the parameter. A restart of the system could be necessary after changing the parameter.



3.2 Implementing the ABAP Program and creating the variants

2. Implement the ABAP Program ZMAXRUNTIME_SWITCH.
The coding is attached in the [Appendix](#).

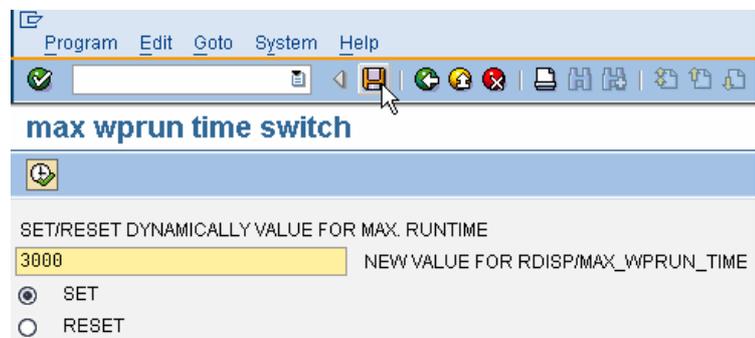


3. Start the program in transaction SE38 and save the variant "3000"

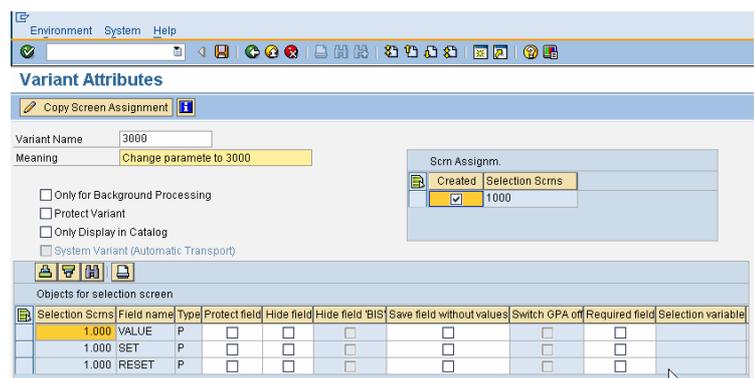
with the value 3000 for max runtime.

The first variant changes the maximum run time parameter setting to 3000.

Do not execute the program!

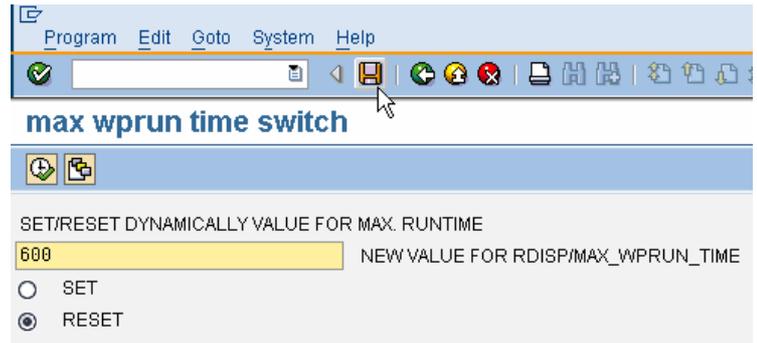


4. Save variant 3000 (Change parameter setting to 3000)

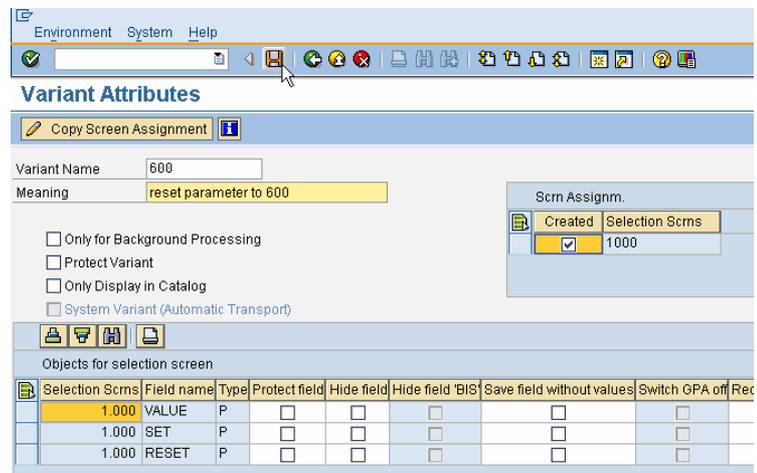


5. Start the report ZMAXRUNTIME_SWITCH again and save the variant "600" with the value 600 for max runtime

The second variant changes/resets the maximal run time parameter setting back to 600.



6. Save the variant 600 (reset parameter setting back to 600)

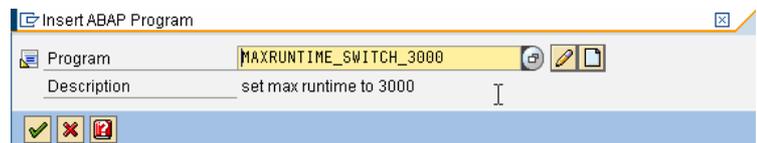


3.3 Add the ABAP Program to a process chain

7. Create a process chain with the name "change max runtime"

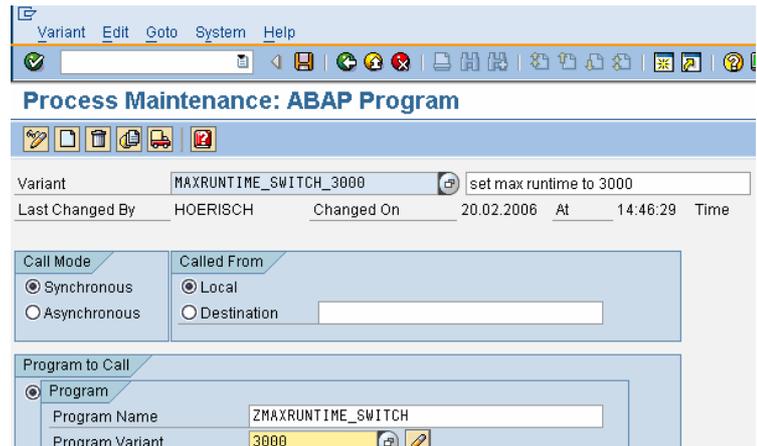


8. Add process type "ABAP Program" and create a variant for the process type ("MAXRUNTIME_SWITCH_3000" in the screen shot).

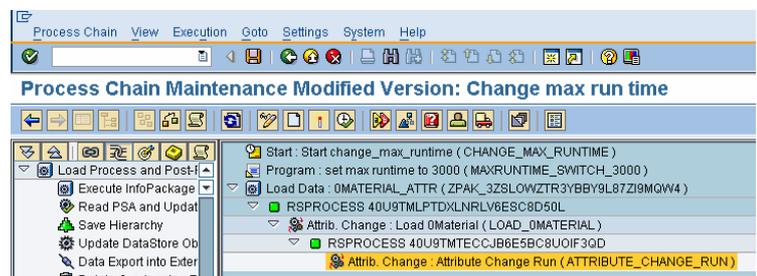


- Enter the created ABAP Program and the variant "3000".

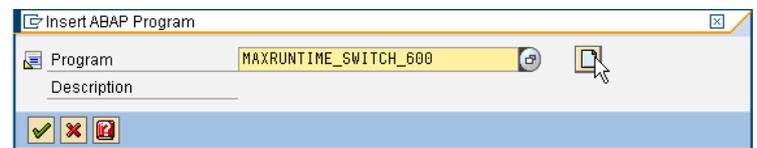
Save the process type variant.



- Add the process type "Attribute Change Run"



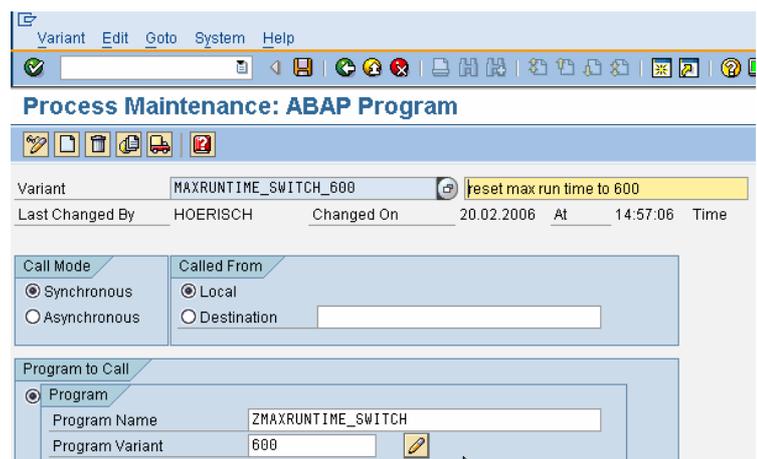
- Add process type "ABAP Program" and create a variant for the process type ("MAXRUNTIME_SWITCH_600" in the screen shot).



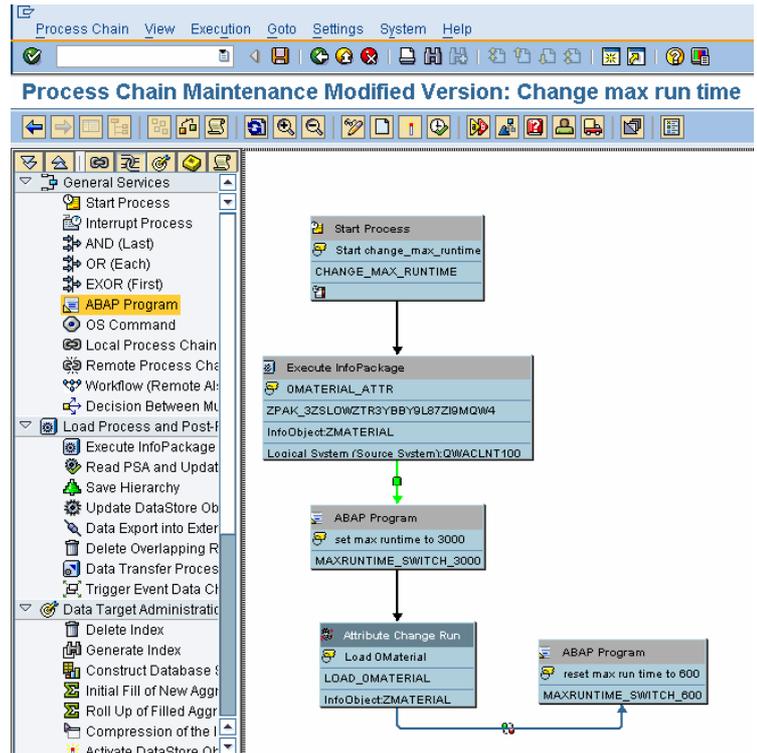
- Enter the created ABAP Program and the variant "3000".

Save the process type variant.

This process type should always be included in the process chain to guarantee the reset the parameter setting to the original value



13. Save and activate the process chain



4 Appendix

ABAP Coding of the ABAP ZMAXRUNTIME_SWITCH:

```
*&-----*
*& Report  ZMAXRUNTIME_SWITCH
*&
*&-----*
*&
*&
*&-----*

REPORT  ZMAXRUNTIME_SWITCH.

TYPES: gt_char30(30)  TYPE c.
tables:
tpfyvalue,
rsadmin.

DATA: g_s_rsadmin      TYPE rsadmin,
      g_object        TYPE rsadmin-object,
      g_value         TYPE rsadmin-value,
      g_subrc         TYPE i,
      old_value(100),
      i_parameter     like TPFET-PARNAME,
      i_value         like TPFET-PVALUE.

constants:
parameter LIKE TPFET-PARNAME value 'rdisp/max_wprun_time'.

SELECTION-SCREEN BEGIN OF LINE.
SELECTION-SCREEN COMMENT 1(60) t_header.
SELECTION-SCREEN END OF LINE.

SELECTION-SCREEN BEGIN OF LINE.
PARAMETERS: value      TYPE gt_char30.
SELECTION-SCREEN COMMENT 33(40) t_value.
SELECTION-SCREEN END OF LINE.

SELECTION-SCREEN BEGIN OF LINE.
PARAMETERS: set RADIOBUTTON GROUP rad1 DEFAULT 'X'.
SELECTION-SCREEN COMMENT 5(40) t_set.
SELECTION-SCREEN END OF LINE.

SELECTION-SCREEN BEGIN OF LINE.
PARAMETERS: reset RADIOBUTTON GROUP rad1.
SELECTION-SCREEN COMMENT 5(40) t_reset.
SELECTION-SCREEN END OF LINE.

*-----*
INITIALIZATION.

      t_header = 'SET/RESET DYNAMICALLY VALUE FOR MAX. RUNTIME'(010).
      t_value  = 'NEW VALUE FOR RDISP/MAX_WPRUN_TIME'.
      t_set    = 'SET'.
      t_reset  = 'RESET'.

*-----*
AT SELECTION-SCREEN.
```

```

*-----
START-OF-SELECTION.

IF set = 'X'.
  CHECK NOT value IS INITIAL.

  CALL 'C_SAPGPARAM' ID 'NAME' FIELD parameter
                    ID 'VALUE' FIELD old_value.

  IF SY-SUBRC <> 0.
    RAISE NOT_FOUND.
  ENDIF.
* Check for entry in RSADMIN
  SELECT SINGLE object value into g_s_rsadmin FROM rsadmin
    WHERE object = parameter.
  g_subrc = sy-subrc.

* Assign original profile value to interface parameters.
  g_s_rsadmin-object = parameter.
  g_s_rsadmin-value = old_value.

* save old profile value in rsadmin
  if g_subrc <> 0.
    INSERT INTO rsadmin VALUES g_s_rsadmin.
    if sy-subrc <> 0.
      message 'INSERT failed because of existing record.' type 'A'.
    endif.
  else.
    UPDATE rsadmin set VALUE = g_s_rsadmin-value
      where object = g_s_rsadmin-object.
    if sy-subrc <> 0.
      WRITE: / 'UPDATE failed because there is no record with'(030).
      WRITE: / 'OBJECT =', g_object.
    endif.
  endif.
  i_parameter = g_s_rsadmin-object.
  i_value = value.

  CALL FUNCTION 'TH_CHANGE_PARAMETER'
    EXPORTING
      PARAMETER_NAME      = i_parameter
      PARAMETER_VALUE     = i_value
* CHECK_PARAMETER      = 1
* EXCEPTIONS
* NOT_AUTHORIZED      = 1
* NOT_IN_SAME_SYSTEM  = 2
* NOT_CHANGEABLE      = 3
* NOT_FOUND           = 4
* INVALID_VALUE       = 5
* SHMPRF_ERROR        = 6
* UNKNOWN_OPCODE      = 7
* LENGTH_EXCEEDED     = 8
* OTHERS              = 9

  IF SY-SUBRC <> 0.
* MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
*   WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
  ENDIF.
  else.
* read original value from RSADMIN

  SELECT SINGLE object value into g_s_rsadmin FROM rsadmin
    WHERE object = parameter.
  if sy-subrc <> 0.

endif.

```

```

* VALUE should be changed -> cannot be initial
  i_parameter = g_s_rsadmin-object.
  i_value = g_s_rsadmin-value.

  CALL FUNCTION 'TH_CHANGE_PARAMETER'
    EXPORTING
      PARAMETER_NAME          = i_parameter
      PARAMETER_VALUE         = i_value
*   CHECK_PARAMETER          = 1
*   EXCEPTIONS
*   NOT_AUTHORIZED          = 1
*   NOT_IN_SAME_SYSTEM      = 2
*   NOT_CHANGEABLE         = 3
*   NOT_FOUND               = 4
*   INVALID_VALUE           = 5
*   SHMPRF_ERROR            = 6
*   UNKNOWN_OPCODE          = 7
*   LENGTH_EXCEEDED        = 8
*   OTHERS                   = 9
.
  IF SY-SUBRC <> 0.
*   MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
*     WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
  ENDIF.
endif.
message 'Process finished' type 'I'.

```

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