103019 - SAPShortcut: Program parameters

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Component	BC-FES-GUI (Graphical User Interface)		

Please find the original document at https://launchpad.support.sap.com/#/notes/103019

Symptom

Information is missing about program parameters of the SAP GUI link (for the SAPshortcut).

Other Terms

Shortcut, password, link, command, command line, command parameter, case sensitive, case, lower case, upper case, mixed, parameter transaction, variant transaction

Reason and Prerequisites

This is in response to a user request.
At present, this affects SAP shortcut 45a and subsequent versions.
At the end of this note you can find another note for Release 40B.

Solution

You can log on to an R/3 system by calling SAPshortcut with parameters in an MS-DOS window in the following format:

- For GUI < 45B:
  start sapsh.exe ...

- For GUI >= 45B
  start sapshcut.exe ...

- For GUI >= 620
  sapgui.exe /SHORTCUT="..."

The ... are placeholders for parameters of the SAP shortcut. The quotation marks
" in the command
sapgui.exe /SHORTCUT="..."
are required.
All parameters can start with "-" or "/".
The parameter variants ' or ...' specified below (for example, or **-u=user ID**)
are the abbreviations of the parameters available as of the 46C GUI.

1. System-independent parameters
    that can only be entered individually for the SAP shortcut command.

    a) **-version**
    This displays the current version of the SAP shortcut.
    b) **-help**, **-?**
    The short help display for parameterization.
    c) **-register**
    This registers the SAP shortcut in the Windows registration database.

After the registration, Windows supports the following functions:

- Starting the shortcut by double-clicking the icon

- Logon/edit functions in the context menu of the icon

- New -> SAP shortcut in the context menu of the desktop
  As of the 45B GUI, you can simply perform registration by calling
  sapshcut.exe without parameters. Sapshortcut is usually registered
  automatically when the GUI is installed.

d) -edit c:\temp\myshortcut.sap
This starts the processing dialog of the SAP shortcut and writes the input data
to the file c:\temp\myshortcut.sap
when you press "Enter". You cannot log on using the SAPshortcut.

1. System-dependent parameters
    that must be entered combined together for the SAP shortcut command.
    If the specified parameter is incomplete and after calling the SAP shortcut
    command, the system issues a dialog with an English error message such as:
    Not all data for SAP GUI Shortcut is available:
    System ID is unknown.
    Enter the missing data.
    In this case, you supplement the missing parameters in the command line as
    requested.

    2.1 User ID
    a) **-user="user ID"** or **-u="user ID"**
    Specification of SAP user ID
    b) **-language=[DE|EN|...]** or **-l=[DE|EN|...]**
    Specification of the logon language in the SAP system
    c) **-pw="password"**
    Specification of password for automatic logon.
    If this parameter is specified and the remaining logon data also exists
    (target system, client),
    the SAP shortcut immediately starts the transaction in the target system.
    If this parameter is not specified, the system displays the logon dialog and
    requests the password.
    It is only then that the logon is started.
    As of 620 GUI Patch 59 and 640 Patch 15, the system supports passwords with
    upper and lower case letters in the SAPShortcut.

    2.2 SAP system ID
    a) **-system=SID** or **-sid=SID**
    Specification of SAP system ID, SID
    b) **-client=001** or **-clt=001**
    Specification of logon client
    c) **-sysname="SID [MyGroup1]"** or -desc="SID [MyGroup1]"
    Specification of target system using descriptive text in SAP Logon
    d) **-guiparm="sapserver 10"** or **-gui="sapserver 10"**
    Specification of target system using start parameters of SAPGUI.EXE
    -gui="/R/<sapsystemID>/G/<group>"
    specifies a logon using system name and logon group.
    -gui="[/H/<saprouter1[/S/saprouterservice1][...]
    /M/<messageserver>/S/<service>/G/<group>"
    specifies a load balancing logon by specifying the message server and the
    logon group.
    -gui="/R/<sapsystemID>/M/<messageserver>/G/<group>"
    specifies a load balancing logon by specifying the system name,
    the message server, and the logon group
    -gui="/R/<sapsystemID>/M/<messageserver>/G/<group> SNC_PARTNERNAME="<snc
    name>" SNC_QOP=<number>"
    specifies an SNC (Secure Network Connection) load balancing logon by
    specifying the SNC name, SNC option, system name,
    message server, and logon group

-gui="/R/<sapsystemID>/M/<messageserver>/G/<group> SNC_PARTNERNAME="<snc name>" SNC_QOP=<number>**/SUPPORTBIT_ON=NEED_STDDYNPRO"**
specifies an SNC (Secure Network Connection) load balancing logon with a user name and password by specifying the SNC name, SNC option, system name, message server, and logon group

***In general, you can insert all of the command parameters of sapgui.exe within the double quotation marks " ".
You find the syntax and examples of SAP GUI command parameters through the simple call
of sapgui.exe (without parameters) and the additional SAP GUI call parameters in SAP Notes 390832 and 1073779.

3. Specification of SAP start transactions/reports/commands

3.1 **-type=[Transaction|Report|SystemCommand]** or **-t=[Transaction|...]**

specifies the function type to be started.

The following types are supported at present:

a) Transaction
starts the function as a transaction, default value.
b) Report
starts the function as a report.
c) SystemCommand
starts the function as a system command.

3.2 **-command="se38"** or **-cmd="se38"**

transfers the transaction code/report name/system command when starting the relevant function.

As of SAP GUI 620 Patch 59 and 640 Patch 16, the string length of this parameter can be > 256 and < 2048
(see SAP Note 1627252 about the required kernel patch).

For example:

a) Transactions***

- Without parameter:

    Starting the ABAP editor:

    -command="se38"

- With Dynpro field parameter:

    The next command starts the SAP Note transaction with the SAP Note data as a parameter (language and SAP Note number):

    -command="*BH33 HWTX3-SPRSL=D; HWHD3-NUMM=49143;"

    HWTX3-SPRSL and HWHD3-NUMM are the field labels for batch input of the two required fields on the initial screen of transaction BH33, and they can be determined by calling the screen field help:

Place the cursor in the field "Number", for example. Choose F1 -> call the technical information -> field description for batch input, dynpro fields HWTX3-SPRSL.
The character * in front of transaction code BH33 means that the initial screen of the transaction is skipped when the transaction is started
as long as all of the required entry fields on the initial screen are filled with parameters.

Check the validity of the command string within **" "** by entering /n into the OK code field of an SAP GUI window
followed by this string, for example:
/n***BH33 HWTX3-SPRSL=D; HWHD3-NUMM=49143;**
Then press "Enter".

If this does not work using the direct OK code call, it cannot work in the case of shortcuts either.
*** For a parameter transaction such as F-01, which calls a native transaction (FBM1) with default values for one or more
dynpro fields, or for a variant transaction such as YVA03, which was created by means of transaction SHD0 for the native transaction
such as VA03, the default values CANNOT be written to the corresponding fields
when the transaction is called with parameters by entering the following into the command field:
/n*F-01 BKPF-BUKRS=1000;
or
/n*YVA03 VBAK-VBELN=1234;
Instead you must enter the following
into the command line:
/n*FBM1 BKPF-BUKRS=1000;
or
/n*VA03 VBAK-VBELN=1234;
This means that such parameter transactions and variant transactions are also not able to be supplied correctly
with default values by means of an SAP shortcut. You should always enter the native transaction such as
-command="*FBM1 BKPF-BUKRS=1000;"
instead of
-command="*F-01 BKPF-BUKRS=1000;"
To determine whether the transaction is a parameter transaction such as F-01 or a variant transaction, call
transaction SM31, enter the table name TSTC, and choose "Display". You then enter
the transaction code and select the pushbutton with the glasses icon to display the information.

- With additional parameters DYNP_OKCODE=... and DYNP_CURSOR=...:
  The parameters DYNP_OKCODE=... and DYNP_CURSOR=... described in SAP Note 651600 can also be used as additional parameters.
  For example, the next command shows the long text of SAP Note 12 directly:

  -command="*BH33 HWTX3-SPRSL=D; HWHD3-NUMM=12; DYNP_OKCODE=LTEX"

  This is because the dynpro OK code LTEX is executed to display the long text.

- In general, the following applies:
  If it is possible to execute a command that was manually entered in the OK code field, it also works with SAPShortcut. Otherwise, it cannot work in SAPShortcut either because SAPShortcut internally calls the command as if this command was manually specified by the user in the OK code field.

b) Reports

-command="grbusg_3"-type=Report
The variant of the report can (as of 4.6D GUI) be specified as follows:
-command="report variant"
Example: **-command="RSPARAM TEST"**
if the ABAP report RSPARAM has the variant TEST.
To be able to execute the report, the SAP shortcut user must be authorized to use transaction
SUB%.

Note: For reports, no Dynpro field or additional parameters can be transferred as in the transaction.
The initial screen of a report variant cannot be skipped.

c) System commands

-command="/H"-type=SystemCommand
activates the debugger
-command="?STAT"-type=SystemCommand
displays the status.
Dynpro field or additional parameters can also be transferred as in the transaction. The following is an example:
-command="/n*BH33 HWTX3-SPRSL=D; HWHD3-NUMM=12; DYNP_OKCODE=LTEX"

3.3 **-title="Any Title for the function"** or **-tit="My Test"**

specifies the title of the function to be started (this appears in the logon dialog for example).

4. The following parameters are available as of GUI Release 4.6B:
a) To diagnose the SAP shortcut program:
-trace=3
or
-trc=3

5. To set the working directory:
-workdir="C:\temp"
or
-wd="C:\temp"

In SAP GUI 620 patch < 56 and SAP GUI 640 patch < 12:
This setting determines the trace directory where you want to write the SAPShortcut and other SAP GUI trace files.
For a later SAP GUI version:
This setting no longer has any effect. The trace files are always written to SAPWorkdir. You can change the standard SAPWorkdir (see Note 519852) so that you can change the trace directory.

6. To set the SAP GUI window size:
a) **-maxgui**
or
-max
Sets the registry entry 'Maximize' in
HKEY_CURRENT_USER\Software\SAP\SAPGUI Front\SAP Frontend Server\Window
to 1 so that the GUI is started in a maximum window after logging on (through Sapshortcut or Saplogon).
This parameter is available from GUI 46B 4620.1.0.1433 (frontend version). It can be used on its own or with other
system-dependent parameters (see below).

7. The following parameter is available as of 640 GUI Patch 13:

a) To set whether or not an existing connection should be reused:
-reuse=1
(reuse, default setting)
-reuse=0
(do not reuse)

The reuse is only carried out if the specified
system ID (parameter **-system=SID**),
client (parameter **-client=###**),
user (parameter **-user=...**),
and logon language (parameter **-language=??**)

match those of an existing connection. If a session from the existing connection
has the initial screen,
that is, transaction SESSION_MANAGER ("SAP Easy Access") or S000, the session is
reused.
Otherwise, a new session is started for the existing connection.

8. Parameters for SNC logon:

a) To support SNC logons with SSO:
-snc_name="p:CN=SID, O=SAP-AG, C=DE" (SNC name)
-snc_qop=9 (activates SNC logon)
For example:
sapgui.exe /SHORTCUT="-gui="/R/XXX/G/PUBLIC" -SID=XXX -client=800 -user=User
-l=EN -snc_name="p:CN=XXX, O=SAP-AG, C=DE" -snc_qop=9"

b) To support SNC logons without SSO:
In addition to the parameters in 8.a),
the following string
/SUPPORTBIT_ON=NEED_STDDYNPRO (enables SNC logon without SSO but with user and
password)
must be inserted into the parameter **-gui="..."**.

The following is an example:

sapgui.exe /SHORTCUT="-gui="/R/XXX/G/PUBLIC /SUPPORTBIT_ON=NEED_STDDYNPRO"
-SID=XXX -client=800 -user=User -l=EN -snc_name="p:CN=XXX, O=SAP-AG, C=DE"
-snc_qop=9"

XXX corresponds to the system ID.

For information on the back end version prerequisite, see SAP Note 1561161.

c) For iView support with SNC and a logon ticket in SAP NetWeaver Enterprise
Portal:
See SAP Note 1881298.

For more information about SNC and SSO (Single Sign On), please see SAP Note
138498.

Note on SAPGui Release 40b
With this release, the SAP shortcut was delivered for the first time. The above
listed parameter is contained in these, except for the transfer of the password.
If you need the transfer with password, you can transfer the SAP shortcut from
Release 45a to Release 40b in exceptional cases. To do this, you must copy the
files "sapsmlib.dll" and "sapsh.exe" from the SAPGui directory of Release 45a
into the SAPGui directory Release 40b. The parameter -pw should function the
next time you start the program.

Software Components

Software Component	Release
BC-FES-GUI	620 - 640

This document refers to

SAP Note/KBA	Title
99054	SAPshortcut - Collective note
885493	SAPShortcut: Login with SNC opens invisible SAPGUI window
651600	Starting applications with desktop shortcuts
425507	Sapshorcut: create trace files
390832	Additional parameters for SAP GUI call
1650890	SAPShortcut: command with OKcode > 255 characters failed
1627252	GUI shortcuts: Parameters truncated after 200 characters
1479347	SAP shortcut: Case sensitive program parameters
138498	Single Sign-On Solutions
1073779	setting the Frontend Up-/Download Codepage

This document is referenced by

SAP Note/KBA	Title
138498	Single Sign-On Solutions
2352608	SAP Shortcut: parsing prefix "sapgui.shortcut.file:" for command line
2299369	Transaction required for report RDDPROTT
390832	Additional parameters for SAP GUI call
1073779	setting the Frontend Up-/Download Codepage
425507	Sapshorcut: create trace files
1650890	SAPShortcut: command with OKcode > 255 characters failed
1627252	GUI shortcuts: Parameters truncated after 200 characters
1479347	SAP shortcut: Case sensitive program parameters
99054	SAPshortcut - Collective note
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651600	Starting applications with desktop shortcuts

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