

103019 - SAP shortcut: Program parameters

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Component	BC-FES-GUI (SAP GUI for Windows)		

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

Symptom

This SAP Note contains information about the program parameters of the SAP GUI link (SAP shortcut).

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

Additional information

Solution

You can log onto an SAP system by calling sapgui.exe with the parameter "/SHORTCUT" from a command line as follows:

```
sapgui.exe /SHORTCUT="..."
```

Note the following:

- The ... are placeholders for the parameters of the SAP shortcut.
- The quotation marks (") in the command sapgui.exe /SHORTCUT="..." are required.
- As a general rule, parameters whose values contain blank characters must be entered using " ".
- All parameters can start with "-" or "/".
- For some parameters, multiple notations are possible. In such cases, all of these notations are mentioned in the tables below.

Below, the notation <value> is always used. This means that the corresponding expression must be replaced with specific data (for example, for a file name). In addition, the character | occurs. This character separates values that can be used as alternatives to each other.

System-independent parameters

These parameters can be used only on their own, so not in combination with other parameters.

Parameter	Description
-version	Displays a dialog box with version information about SAP shortcut
-help / -?	Displays a brief help text about the parameterization of SAP

	shortcut
-register	Registers the SAP shortcut in the Windows registry After the registration, the following functions are supported: Starting a SAP shortcut by double-clicking the corresponding icon Logging on using a SAP shortcut/editing a SAP shortcut via the context menu of the corresponding icon Generating a new SAP shortcut by choosing "New -> SAP GUI Shortcut" in the context menu of the Windows desktop The registration of an SAP shortcut is executed during the SAP GUI installation and therefore does not need to be performed manually in normal circumstances. Alternatively, the registration can also be performed easily by calling sapshcut.exe without parameters.
-edit <SAP shortcut file>	Starts the processing dialog of the SAP shortcut. If the file <SAP shortcut file> does not exist, it is created. Otherwise, the existing SAP shortcut is edited and its properties are displayed. Once the editing dialog is closed with "OK", the input data is saved. However, no logon takes place.

System-dependent parameters

These parameters must be combined to enable the return of complete logon and connection information.

General comment: If the specified parameters are not complete, a dialog box with an error message is displayed following the call of the SAP shortcut command. In English, this is the following, for example: "Not all data for SAP GUI Shortcut is available: System ID is unknown. Enter the missing data."

In this case, you must add the missing parameter to the command line.

User data

Parameter name	Description
- language=<language> / -l=<language> Example: - language=DE	Language with which the logon to the SAP system is made Note that the language specified in an SAP shortcut can be used to log on only if the "Use SAP Logon language as default on logon screen" option has been activated. Otherwise, the language defined in the SAP shortcut is ignored. For more information, see SAP Note 1727111.
-user="<user ID>" / -u ="<user ID>"	ID of the SAP user used for the logon
-pw="<password>"	Password used for the automatic logon to the SAP system If this parameter is specified and the rest of the logon data is complete, too (target system, client, and so on), the SAP shortcut immediately starts the corresponding transaction/report/command in the target system. If this parameter is not specified (and if SSO is not used, either), the logon dialog appears and prompts you to enter a password. In this case, only now does the logon take place, and then the corresponding transaction/report/command is started. If the parameter -pw is not specified and an SSO logon does not take place, the SAP shortcut generally adds the Windows user ID to the corresponding field on the logon screen. This is useful if the Windows user ID and SAP system user ID are identical. If you do not want this behavior, you can set the following REG_DWORD registry value as of SAP GUI for Windows 7.50 Patch Level 10 and SAP GUI for Windows 7.60 Patch Level 0: HKEY_LOCAL_MACHINE\Software\SAP\SAPShortcut\Options\InitializeUserAsEmpty (32-bit operating system or 64-bit operating system with a 64-bit version of SAP GUI for Windows) HKEY_LOCAL_MACHINE\Software\WOW6432Node\SAP\SAPSho

	rtcut\Options\InitializeUserAsEmpty (64-bit operating system with a 32-bit version of SAP GUI for Windows) HKEY_CURRENT_USER\Software\SAP\SAPShortcut\Options\InitializeUserAsEmpty (user-specific) If this registry value is set to "1", the Windows user ID is not copied to the corresponding field on the logon screen; instead, the field remains empty. The read sequence of this registry value is HKEY_CURRENT_USER and then HKYE_LOCAL_MACHINE, which allows a user-specific setting. If this value does not exist, the Windows user ID is used. Warning: Do not use passwords when you call SAP GUI using a command line and do not save any passwords in SAP shortcut files. Doing so could make it much easier for an attacker who manages to gain access to a PC to obtain passwords.
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SAP system data/connection data/Secure Network Communication (SNC)

Parameter	Description
-system=<SID> / -sid=<SID>	Three-digit system ID of the SAP system in which the logon should take place
-client=<client> / -clt=<client>	Three-digit client of the SAP system in which the logon should take place
-sysname=<SID> "[<logon group>]" / -desc=<SID> "[<logon group>]" OR -sysname=<SID> "[<application server>]" / -desc=<SID> "[<application server>]" Example: -sysname=ERP [PUBLIC] or -sysname=ERP [server.domain]	Specification of target system via descriptive text in SAP Logon
-guiparm="<start parameter of sapgui.exe>" / -gui="<start parameter of sapgui.exe>"	Specification of target system via start parameter of sapgui.exe See the table below ("Start parameters for sapgui.exe") for further information about the possible parameters.
-snc_name="<SNC name>" Example: -snc_name="p:CN=ERP, O=Company, C=DE"	SNC name of the SAP system; required for the logon via Secure Network Communication (SNC) Note the following: This parameter must be used together with -snc_qop.
-snc_qop=<SNC quality of protection> Example: -snc_qop=9 A full SAP shortcut would look like the following, 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"	Activation of the logon via Secure Network Communication (SNC) Note the following: This parameter must be used together with -snc_name. If this parameter is not filled, SAP GUI for Windows informs the application server that the default value should be used.

Further information about the logon via Secure Network Communication (SNC)/single sign-on (SSO):

- To enable an SNC logon without SSO, /SUPPORTBIT_ON=NEED_STDDYNPRO must be inserted into the parameter -guiparm / -gui (see also the table "Start parameters for sapgui.exe").
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"

Note the following: This function requires the SAP Kernel patches/SAP_BASIS support packages from SAP Note [1561161](#).

- For support for iViews with SNC and SAP LogonTickets in SAP Enterprise Portal, see SAP Note [1881298](#).
- For more information about SNC and SSO, see SAP Note [138498](#).

Start parameters for sapgui.exe

Parameter combination	Description
<application server> <instance number> Example: "server.domain 01"	Logon on application server using its host name and the instance number (00 - 99)
/R/<SID>/G/<logon group> Example: "/R/ERP/G/PUBLIC"	Logon using the system ID and logon group
/M/<message server>/S/<message server port>/G/<logon group> Example: "/M/server.domain/S/1080/G/PUBLIC"	Logon with load distribution through the specification of the message server with the port and the logon group
/R/<SID>/M/<message server>/G/<logon group> Example: "/R/ERP/M/server.domain/G/PUBLIC"	Logon with load distribution through the specification of the system ID, message server, and logon group
"/R/<SID>/M/<message server>/G/<logon group>" SNC_PARTNERNAME="<SNC name>" SNC_QOP=<SNC quality of protection> Example: "/R/ERP/M/server.domain/G/PUBLIC" SNC_PARTNERNAME="p/secude:CN=ERP, O=Company, C=DE" SNC_QOP=9	Logon with SNC (Secure Network Communication) and load distribution through the specification of the SNC name, SNC options, system ID, message server, and logon group
/SUPPORTBIT_ON=NEED_STDDYNPRO Example: "/R/ERP/M/server.domain/G/PUBLIC /SUPPORTBIT_ON=NEED_STDDYNPRO" SNC_PARTNERNAME="p/secude:CN=ERP, O=Company, C=DE" SNC_QOP=9	Logon with SNC (Secure Network Communication) and load distribution through the specification of the SNC name, SNC options, system ID, message server, and logon group. The support bit "NEED_STDDYNPRO" forces the display of the logon screen. Note the following: In this case, quotation marks are absolutely vital for -gui / -guiparm. This function requires the SAP Kernel patches/SAP_BASIS support packages from SAP Note 1561161.
/H/<SAProuter 1>/S/<SAProuter port 1>...	These parameters can be placed before other commands to direct communication via a SAProuter. Multiple SAProuters can be connected in series, too.

For an overview of the syntax and examples of sapgui.exe command parameters, you can call sapgui.exe without parameters, too. For additional information, see SAP Notes [390832](#) and [1073779](#).

Start transaction/start report/start command

Parameter	Description
-type=<Transaction Report SystemCommand> / -t=<Transaction Report SystemCommand>	specifies the function type to be started. Transaction:

	Starts the function as a transaction; default value Report: Starts the function as a report SystemCommand: Starts the function as a system command
-command="<command>" / -cmd="<command>" For example: -command=se38 (to start ABAP Editor in combination with -type=Transaction) -command=rsdemo02 (to start the report rsdemo02 via %SUB in combination with -type=Report) -command=/H (to start the ABAP Debugger in combination with -type=SystemCommand)	transfers the transaction code/report name/system command when starting the relevant function. Note the following: An SAP Kernel patch (see SAP Note 1627252) is required so that the command can exceed a length of 256 characters. With this patch, the length is limited to 2048 characters.

Structure of the parameter "-command" / "-cmd"

- Transactions
 - With dynpro field parameter:
This command starts a transaction (BH33), passes two input data values (HWTX3-SPRSL=D and HWHD3-NUMM=49143), and skips the first screen (*):
-command="*BH33 HWTX3-SPRSL=D; HWHD3-NUMM=49143;"
 - HWTX3-SPRSL and HWHD3-NUMM in this example are the field labels of the fields on the initial screen of transaction BH33. They can be determined by the call of the help for the dynpro field. To do this, place the cursor on the field in question, press F1, then call up the technical info and read the label in the dynpro field input field in the "Field Description for Batch Input" group.
 - The character * in front of the transaction code BH33 means that the initial screen of the transaction is skipped when the transaction is started. This assumes that all of the required entry fields on the initial screen are filled with the necessary values using the parameters.

You can check the validity of the command string in " " by typing /n followed by this string into the OK code field of a SAP GUI window (so, in this example, /n*BH33 HWTX3-SPRSL=D; HWHD3-NUMM=49143;) and pressing ENTER. If the call via the OK code field does not work, it cannot work in a SAP shortcut scenario, either.

For a parameter transaction like F-01, which calls a native transaction (FBM1) with default values for one or more dynpro fields, or a variant transaction like YVA03, which is created by means of transaction SHD0 for the native transaction such as VA03 with a transaction variant, the default values cannot be copied to the corresponding fields during a transaction call with parameters via the OK code like the following:

```
/n*F-01 BKPF-BUKRS=1000;
```

or

```
/n*YVA03 VBAK-VBELN=1234;
```

You must use the following OK codes instead:

```
/n*FBM1 BKPF-BUKRS=1000;
```

or

```
/n*VA03 VBAK-VBELN=1234;
```

This means that such parameter transactions and variant transactions cannot be supplied correctly with default values via an SAP shortcut, either. Always use the native transaction, for example:

```
-command="*FBM1 BKPF-BUKRS=1000;"
```

instead of

```
-command="*F-01 BKPF-BUKRS=1000;"
```

To determine whether the transaction is a parameter transaction like F-01 or a variant transaction, call transaction SM31, enter the table name TSTC, and choose the "Display" button. Then specify the transaction code and choose the "Display" button.

- With the additional parameters DYNP_OKCODE=... and DYNP_CURSOR=...: The parameters DYNP_OKCODE=... and DYNP_CURSOR=... described in SAP Note [651600](#) can be used as additional parameters. On the basis of the example above, this would look like the following:

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

 In this example, the OK code LTEX displays 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 an SAP shortcut. If it is not possible, it cannot work in an SAP shortcut, either, since an SAP shortcut calls the same command internally.

- Reports

The call basically looks like the following:

```
-command="<name of report>" -type=Report
```

In addition, you can specify a variant of the report:

```
-command="<name of report> <name of variant>" -type=Report
```

If the ABAP report RSPARAM has the variant TEST, the example would look like the following:

```
-command="RSPARAM TEST" -type=Report
```

Please note the following:

- To enable the execution of the report, the SAP user with which SAP shortcut is executed must be authorized to use transaction SUB%.
- In reports, no dynpro field parameters or additional parameters can be specified like for transactions.
- The initial screen of a report variant cannot be skipped.

- System commands

- ```
-command="/H" -type=SystemCommand
```

 activates the debugger
- ```
-command="?STAT" -type=SystemCommand
```

 displays the status.

Dynpro field parameters and additional parameters can be specified just like for transactions (see above).

Additional parameters

Parameter	Description
-title="<title>" / -tit="<title>" Example: - title="ABAP Editor in System ERP"	This specifies the title of the function to be started, which appears in the logon dialog, for example.
-trace=<trace level> / - trc=<trace level> Example: -trace=3	This is for the diagnosis of the SAP shortcut program (possible values are 0-3).
-workdir="<working directory>" / - wd="<working directory>"	This setting is obsolete and has no effect. The trace files are always written to the standard SAP GUI working directory. For information on how to change the standard SAP GUI working directory, see SAP Note 519852.
-maxgui / -max	The SAP GUI window in which the SAP shortcut command is executed is displayed maximized.
-reuse=<0 1>	This parameter defines whether an existing connection to an SAP system is reused (-reuse=1) or not (-reuse=0). Note the following: Reuse takes place only if the connection data of SAP shortcut (system ID, client, user, and logon language) exactly matches that of an existing connection. If a session of the reused connection displays the initial screen (so transaction SESSION_MANAGER ("SAP Easy Access") or S000), this session is reused. Otherwise, a new session is started for the existing connection. The "Default" setting for the language of an SAP shortcut (in the SAP shortcut file -language=" ") cannot be combined with - reuse=1. Before logging on to the SAP system, SAP GUI must decide whether the language of the SAP shortcut corresponds to the language of an existing window or not. However, since the default language is defined by the SAP system and is only known after logging on, reuse is not possible in this case.

Software Components

Software Component	Release
BC-FES-GUI	7.50 - 7.50
BC-FES-GUI	7.60 - 7.60

Support Package Patches

Software Component Version	Support Package	Patch Level
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SAP GUI FOR WINDOWS 7.50 CORE	SP010	000010
SAP GUI FOR WINDOWS 7.60 CORE	SP001	000001

This document refers to

SAP Note/KBA	Title
99966	
99054	
885493	
651600	Starting applications with desktop shortcuts
519852	Working directory of SAP GUI for Windows
425507	Sapshorcut: create trace files
390832	Additional parameters for SAP GUI call
322146	
211301	
190212	
1859442	
1727111	Language preassignment on SAP LOGON logon screen
1650890	
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
2670806	How to open SAPGUI window in the maximum size from SAP Logon

2630575	How to create a shortcut file (.sap) for SAP GUI for JAVA
2888460	Improved handling of SAPshortcut program parameters defined in SM59
2863505	SAPShortcut: Remove enhanced check for empty values of parameters ("") due to compatibility requirements
1879927	SAPShortcut: SNC connection with SAP Logon Ticket for iView
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
1627252	GUI shortcuts: Parameters truncated after 200 characters
138498	Single Sign-On Solutions
1479347	SAP shortcut: Case sensitive program parameters
651600	Starting applications with desktop shortcuts

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