

NOTE JULY 2008

SAP® profile parameters

The system parameters are stored in text files on the operating system level in the global profile directory. Changes to profile parameters may not be done in the text file directly, but only through a corresponding transaction within SAP® [e.g. **RZ10**], otherwise the change history will not be complete.

Therefore and because of the risk of potential file violations the access to these files needs to be restricted accordingly.

With the help of system parameters the system configuration is set up for the runtime environment and various services e.g. The corresponding directory path can be identified with the help of the profile parameter *DIR_PROFILE*, where the different profile files are stored.

UNIX systems:

/usr/sap/<SID>/SYS/profile

Windows NT:

\\<SAPGLOBALHOST>\sapmnt\<SID>\sys\profile\

[where as <SID> represents the SAP system name and <SAPGLOBALHOST> represents the name of the NT machine where the files are physically stored]

NOTE: Please be aware that the system parameters are case sensitive.

A SAP® system has three different types of profiles:

DEAFULT.PFL – default profile
START_<instance> - start profile
<SID>_instance – instance profile

The general import and maintenance is done via transaction **RZ10**.

For the display of the transaction a corresponding application authorization on S_RZL_ADM with activity 03 is required.

The maintenance authorization [ACTVT 01] needs to be strictly restricted to members of the basis team only.

The sequence of profiles

The startup process is controlled by the start profile that is read by the start program [*sapstart*]. Here the services [e.g. message, dialog, batch, gateway, enqueue] are listed that are supposed to be started for the corresponding instance. Therefore every instance has its own start profile.

An instance basically defines a group of resources such as memory and processes in a logical unit within CCMS, and is also often described as “server” or “application server”. A SAP® system can consist of one or more instances. Several instances can be installed at one application server.

During start up, the system checks the parameter settings in the instance profile.

In case the parameter is not contained there, the system searches the default profile.

If no corresponding entry can be found, the parameter will not be considered at all.

The default profile contains the parameter settings that are supposed to be valid for all application servers. The profile is unique and the name **DEFAULT.PFL** is obligatory.

Aside from the generally required instance parameters [e.g. memory control] the instance profile completes the configuration set up as technical adjustment.

SAP® provides approx 1.300 system parameters. These parameters are grouped by categories.

The category *login* e.g. contains the relevant login parameters as for example the parameter: *login/password_expiration_time* [category/rest_of_parameter_name].

The parameter name starts with the name of category.

An overview of the system parameters and their attributes can be gained with the help of the table **TPFYPROPTY** [transaction **SE16N** e.g.].

Quite a few parameters are configured based on the Boolean logic, where the 0 represents the NO and every value greater than 0 represents the YES.

Some of the parameters can be changed dynamically, others require a restart to become effective after change.

SAP® provides detailed documentation for most of the parameters.

Call transaction **RZ11** end enter the name of the parameter you want to get displayed.

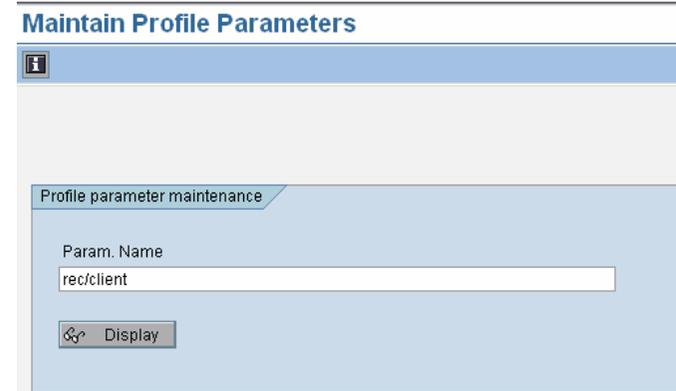


Exhibit: RZ11

By pushing the button **Documentation** on the parameter display view, you get the description displayed.

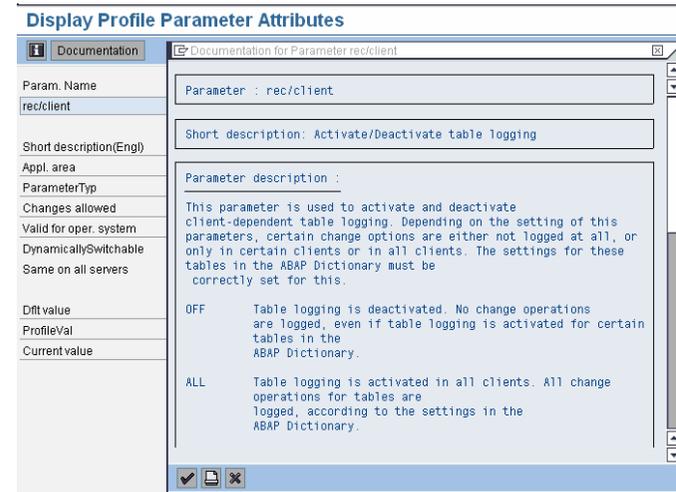


Exhibit: Detail view

Short overview of most common categories:

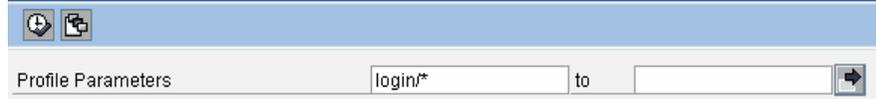
apap	configuration of APAP/4® environment
auth	configuration of authorization environment
db	configuration of database environment
DIR	determination of directory path structure for installation
em	configuration of extended memory
enqueue	configuration of enqueue processing
exe	SAP® program names
FN	determination of file names [protected against customer change]
FT	determination of file specification [protected against customer change]
gw	configuration of gateway environment
icm	configuration of internet communication manager environment
j2ee	configuration of J2EE engine
login	configuration of login security
ms	configuration of message server
rdisp	configuration of dispatching environment
rsau	configuration of audit
rspo	configuration of spool environment
rslg	configuration of SysLog
rstr	configuration of system tracing
wdisp	configuration of web dispatching

The following reports and transactions allow the display of parameters as well:

1. RSPFPAR

Call transaction **RSPFPAR** or **SE38** and enter **RSPFPAR** as program name.

Display Profile Parameter



You can search per exact name, category or with the help of wildcats.

Parameter Name	Name	System Default Value
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In the column **Name** the customer specified entries will be displayed. If the column is empty, the system default value will be taken.

SAP® already provides the following transactions with corresponding parameter pre-selection:

RSPFPAR	Display profile parameter
RSPFPAR_AUTH	Authorization All
RSPFPAR_CALLSYSTEM	Call System
RSPFPAR_GATEWAY	SAP Gateway
RSPFPAR_LOGIN	Logon Rules
RSPFPAR_PROFGEN	Profile Generator
RSPFPAR_RFC	Remote Function Call
RSPFPAR_SAPSTAR	Hardcoded SAP*
RSPFPAR_SNC	SNC
RSPFPAR_SPOOL	Spool Parameters

RSPFPAR_STATISTICS	Workload Statistics
RSPFPAR_SYSLOG	Syslog Parameters
RSPFPAR_TABLEREC	Table Recording
RSPFPAR_TABLESTAT	Table Access Statistics

2. Report RSPARAM

Another report for the parameter display is the report **RSPARAM** via transaction **SE38** e.g..

Parameter Name	User-Defined Value	System Default Value
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The same logic as described above applies here also.
If no user-defined value is set, the system default value is valid.

Note: The unsubstituted value shows the set up before the substituted values were replaced.

Per double-click onto a parameter name you can also branch to the parameter documentation in both reports. Select the  in the overview window.

In transaction **AL11** the SAP® directories can be reviewed and accessed via continuous double-clicks [from parameter to file to file content].