







Monitoring and Administration Tools for Application Server ABAP SP21 English

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Monitoring and Administration Tools for Application Server ABAP 10.3

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Use

The SAP system contains various tools for displaying detailed information about the system and for making administration changes.

Monitoring 10.3

The following tools are used mainly for monitoring, but you can also use them to make administration changes.

You can find the tools from the SAP menu by choosing **Administration > System Administration**, then under nodes **Administration** and **Monitor**.

You can also call the tools directly from transaction codes.

There are also test programs that you can use at operating system level to monitor the message server or the gateway.

Monitoring Tool (transaction)	Description
Consistency Checking (SICK)	You run the consistency check directly after the installation. This ascertains possible inconsistencies before the system is placed into productive operation.
Overview of SAP Application Servers (SM51)	You can see all the application server instances of the SAP system and monitor and change their states.
Monitoring and Administration of the SAP Message Server (SMMS)	The message server is the central location where information about the application servers is kept and where messages are exchanged between servers.
Monitoring AS ABAP Processes (SM50)	You can see the activity of work processes belonging to an instance, assess the utilization of work process, and manage the work processes.
Monitoring AS ABAP Users (SM04)	You can see which users are logged on the instance and which resources are being used. You can manage user sessions here.
Managing Lock Entries (SM12)	You can see which locks are active in the system and who is holding them.
Using the ICM Monitor (SMICM)	The Internet Communication Manager (ICM) processes Internet requests (client and server, HTTP(S), SMTP, etc.) You can monitor and administrate the ICM.
Using the SAP Gateway Monitor in the SAP System (SMGW)	With the gateway monitor, you can monitor and manage existing RFC connections.
Configuration of System Resources for aRFC, tRFC, qRFC (SARFC)	Here you can check the utilization of work processes by parallel RFCs, and change the configuration if there is a resource bottleneck.

Monitoring and Administration Tools for Application Server ABAP

[HTTP Logging](#)[Monitoring in the CCMS](#)[Configuration in the CCMS](#)> [Area Menu Maintenance](#)[Administration of the Number Range Buffer](#)> [Process SAP System Messages](#)> [Determining C Call Stack of Processes](#)> [Trace Functions](#)> [SAP NetWeaver System Logging \(SM21\)](#)

Monitoring in the CCMS	The Computing Center Management System (CCMS) provides a range of monitors for monitoring the SAP environments and its components.
Process Monitoring with PMI (Process Monitoring Infrastructure)	The monitoring of IT landscapes involves ascertaining the status of IT components and processes running across multiple components and displaying these statuses in a central system. If any errors arise, alerts should be issued.
Statistics	<p>This section contains information about statistics and an overview of system performance.</p> <p>The following tools are described:</p> <ul style="list-style-type: none"> ▪ Workload Monitor ▪ Global Workload Monitor ▪ Analyzing Individual ABAP Statistics Records ▪ Functional Trace
HTTP Logging	If your system processes HTTP requests using the ICM (for example, Web Dynpro ABAP applications), you can record these requests.

Configuration and Administration

The following tools are used mainly for the configuration and administration of Application Server ABAP.

Administration (transaction)	Description
Configuration in the CCMS	This section contains information about configuring AS ABAP using the Computing Center Management System (CCMS).
Area Menu Maintenance	You can edit area menus using a maintenance interface.
Administration of the Number Range Buffer (SM56)	You can get status information about this buffer and can configure it in line with your requirements.
Process SAP System Messages (SM02)	You can send all users that are logged on to the SAP system important notifications in the form of short messages.

Troubleshooting

You use these functions to identify and solve problems.

Function	Description
Trace Functions (ST01)	To track errors, you can configure and evaluate traces at various levels.
ABAP Dump Analysis (in the ABAP documentation)	You can display summaries of short dumps created when an ABAP program terminates abnormally.
System Log (SM21)	All warnings and errors that occur in the system are recorded in the system log.

- > [Overview of SAP Application Servers](#)
- > [Using SAP MMC Snapshots in the SAP System](#)
- > [Monitoring and Administration of the SAP Message Server](#)
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