

T	Description
CODES	
SM32	Maintain Table Parameter ID TAB
AL01	Alert Monitor
AL02	Database alert monitor
AL03	Operating system alert monitor
AL04	Monitor call distribution
AL05	Monitor current workload
AL06	Performance: Upload/Download
AL09	Data for database expertise
SAR3	Customizing Archiving
SAR4	Define Archiving Class
SAR5	Assign Archiving Class
SAR6	Archiving Time Generator
SARA	Archive management
SARL	Call of ArchiveLink Monitor
AL11	Display SAP Directories
AL13	Display Shared Memory (Expert mode)
AL15	Customize SAPOSCOL destination
AL16	Local Alert Monitor for Operat.Syst.
AL17	Remote Alert Monitor for Operat. Syst.
AL18	Local File System Monitor
AL19	Remote File System Monitor
AL20	EarlyWatch Data Collector List
AL21	ABAP Program analysis
AL22	Dependent objects display
BSVW	Linkage Status Update-Workflow Event
DB01	Analyze exclusive lock waits
DB02	Analyze tables and indexes
DB03	Parameter changes in database
DB11	Early Watch Profile Maintenance

DB12 Overview of Backup Logs
DB13 Database administration calendar
DB15 Data Archiving: Database Tables
DB17 DB System Check: Configuration
DB20 DB Cost-Based Optimizer: Tab. Stats
DB21 DB Cost-Based Optimizer: Config.
DB24 Database Operations Monitor
DB26 DB Profile:Monitor and Configuration
DB2J Manage JCL jobs for OS/390
DMIG Start Transaction for Data Migration
OAA3 Archive Link protocols
OAA4 ArchiveLink applic.maintenance
OAAD ArchiveLink Administration Documents
OS01 LAN check with ping
OS03 O/S Parameter changes
OS04 Local System Configuration
OS05 Remote System Cconfiguration
OS06 Local Operating System Activity
OY08 Development Class Overview
OY18 Table history
PFCG Activity Group
PFUD Authorization Profile comparison
RLOG Data migration logging
RZ01 Job Scheduling Monitor
RZ02 Network Graphics for SAP Instances
RZ03 Presentation, Control SAP Instances
RZ06 Alerts Thresholds Maintenance
RZ10 Maintenance of profile parameters
RZ11 Profile parameter maintenance
RZ20 CCMS Monitoring
RZ21 Customize CCMS Alert Monitor
SA38 ABAP/4 Reporting

SAD0 Address Management call
SAIN T Plug-in Installation
SALE Display ALE Customizing
SARP Reporting (Tree Structure): Execute
SB01 Business Navigator – Component View
SC38 Start Report Immediately
SCAT Computer Aided Test Tool
SCC0 Client Copy
SCC1 Client Copy – Special Selections
SCC2 Client transport
SCC3 Client Copy Log
SCC4 Client administration
SCC5 Client Delete
SCC6 Client Import
SCC8 Client Export
SCC9 Remote Client Copy
SCCL Local Client Copy
SCMP View / Table Comparison
SCPF Generate enterprise IMG
SCU0 Table Analyses And Comparison
SCU1 Table Comparison – Export to Tape
SCU2 Table Comparison Against Tape
SCU3 Table History
SCUG Central User Administration Structure Display
SCUM Central User Administration Field Selection
SDBE Explain an SQL Statement
SE01 Transport and Correction System
SE02 Environment Analyzer
SE06 Set up Workbench Organizer
SE07 Transport System Status Display
SE09 Workbench Organizer (Initial Screen)
SE10 Customizing Organizer

SE11 Data Dictionary Maintenance
SE13 Technical Settings (Tables)
SE14 Convert Data Dictionary tables on Database Level
SE15 Repository Info System
SE16 Display Table Content
SE17 Generate Table Display
SE30 ABAP Objects Runtime Analysis
SE32 ABAP Text Element Maintenance
SE35 ABAP/4 Dialog Modules
SE36 Logical databases
SE37 ABAP Function Modules
SE38 ABAP Editor
SE39 Splitscreen Editor: Program Compare
SE40 MP: Standards Maint. and Translation
SE41 Menu Painter
SE51 Screen Painter
SE52 Parameterized screenpainter call
SE54 Generate table view
SE55 Internal table view maintenance call
SE56 internal call: display table view
SE57 internal delete table view call
SE62 Industry Utilities
SE63 Translation: Initial Screen
SE71 SAPscript form
SE72 SAPscript Styles
SE73 SAPscript font maintenance (revised)
SE74 SAPscript format conversion
SE75 SAPscript Settings
SE76 SAPscript: Form Translation
SE77 SAPscript Translation Styles
SE78 SAP script: Graphics administration

SE80 Object Navigator
SE81 Application Hierarchy
SE82 Application Hierarchy
SE84 R/3 Repository Information System
SE85 ABAP/4 Repository Information System
SE86 ABAP Repository Information System
SE88 Development Coordination Info System
SE92 New SysLog Msg Maintenance as of 46A
SE93 Maintain Transaction Codes
SE94 Customer enhancement simulation
SECR Audit Information System
SEPS SAP Electronic Parcel Service
SERP Reporting: Change Tree Structure
SF01 Client-Specific File Names
SFAW Field Selection Maintenance
SHDB Record Batch Input
SICK Installation Check
SINA SAPBPT: Maintain Standard Config.
SLG0 Application Log: ObjectMaintenance
SLIN ABAP: Extended Program Check
SM01 Lock Transactions
SM02 System Messages
SM04 User Overview
SM12 Display and Delete Locks
SM13 Display Update Records
SM14 Update Program Administration
SM23 System Log Analysis
SM29 Model Transfer for Tables
SM30 Call Up View Maintenance
SM31 Table maintenance
SM35 Batch Input Monitoring
SM36 Batch request

SM37 Background job overview
SM38 Queue Maintenance Transaction
SM39 Job analysis
SM49 Execute Logical Commands
SM50 Work Process Overview
SM51 List of SAP Servers
SM54 TXCOM maintenance
SM55 THOST maintenance
SM56 Number Range Buffer
SM58 Asynchronous RFC Error Log
SM59 RFC Destinations Display
SM63 Display/Maintain Operating Mode Sets
SM64 Release of an event
SM65 Background Processing Analysis Tool
SM66 System-wide Work Process Overview
SM67 Job scheduling
SM68 Job administration
SMGW Gateway Monitor
SMLG Maintain Logon Group
SMLI Language import utility
SMLT Language transport utility
SMX Display Own Jobs
SNRO Number Range Objects
SO02 SAPoffice: Outbox
SO03 SAPoffice: Private Folders
SO05 SAPoffice: Private Trash
SO06 SAPoffice: Substitutionon/off
SO07 SAPoffice: Resubmission
SO10 SAPscript: Standard Texts
SO12 User Master
SO13 Substitute
SO15 DistributionLists

SO17 Delete Shared Trash
SO18 Shared Trash
SO21 Maintain PC Work Directory
SO31 Reorganization (daily)
SO36 Create Automatic Forwarding
SO38 SAP office: Synchr. of Folder Auths.
SO40 SAPoffice: Cust. LayoutSet MAIL
SO41 SAPoffice: Cust. LayoutSet TELEFAX
SO70 Hypertext: Display/Maint. Structure
SO71 Test plan management
SO72 Maintain Hypertext Module
SO73 Import graphic into SAPfind
SO95 Pre generated Search Queries – Selec.
SOA0 ArchiveLink Workflow document types
SOBJ Attribute Maintenance Objects
SOPE Exclude Document Classes
SOTD SAP office: Maintain Object Types
SOY1 SAP office: Mass Maint. Users
SOY2 SAP office: Statistics data collect.
SOY5 SAP office: Inbox overview
SOYA SAPoffice: Change folder owner
SP00 Spool and Relate Area
SP02 Display output Requests
SP03 Spool: Load Formats
SP11 TemSe Contents
SP12 TemSe Administration
SPAD Spool Management
SPAM SAP Patch Manager (SPAM)
SPAU Display Modified DE Objects
SPCC Spool Consistency check
SPHA Telephony administration
SPIC Spool : Installation Check

SPRM Current Customizing
SPRO IMG Customizing
SQ01 SAP Query: Maintain queries
SQ02 SAP Query: Maintain funct. areas
SQ03 SAP Query: Maintain user groups
SQ07 SAP Query: Language comparison
SSAA System Administration Assistant
SSCA Appointment Diary: Administration
SSM1 Session Manager generation call
SSM5 Create Activity Group
ST02 Setups/Tune Buffers
ST03 Performance, SAP Statistics, Workload
ST04 Select activity of the databases
ST07 Application monitor
ST10 Table Call Statistics
ST11 Display Developer Traces
ST22 ABAP Runtime Error Analysis
ST22 ABAP/4 Runtime Error Analysis
ST62 Create industry short texts
STAT Local transaction statistics
STUN Performance Monitoring
STW1 Test Workbench: Test catalog
STW2 Test workbench: Test plan
STW3 Test workbench: Test package
STW4 Test Workbench: Edit test package
SU01 Maintain User
SU02 Maintain Authorization Profiles
SU03 Maintain Authorizations
SU11 Maintain Authorizations
SU12 Mass Changes to User Master Records
SU20 Maintain Authorization Fields
SU21 Maintain Authorization Objects

- SU22** Auth. object usage in transactions
- SU24** Disables Authorization Checks
- SU25** Imports SAP Check Indicators defaults
- SU26** Adjust Authorization checks
- SU30** Total checks in the area of auth.
- SU52** Maintain own user parameters
- SU53** Display check values
- SU54** List for Session Manager
- SU56** Analyze User Buffer
- SUMM** Global User Manager
- SUPC** Profiles for activity groups
- SUPF** Integrated User Maintenance
- SUPO** Maintain Organization Levels
- SWDC** Workflow Definition
- SXDA** Data Transfer Workbench

SAP Basis Daily Monitoring Tcodes

Proactive monitoring of the SAP systems, will help to understand issues in advance & helps us to take corrective actions and thus will lead to lesser downtime of the systems, improving profitability of the business organisation.

Monitoring can be focused on ABAP stack(including database checks), Java Stack and Oslevel checks.

[ABAP Stack Checks :](#)

SM50 : (Process Overview)

This transaction code will be useful to view the processes that are running currently in an sap instance. In this view you can check whether there are free workprocesses to execute the processes. If all the workprocesses are in running state and no work process is idle it means that wait times will increase for the processes that are waiting in the dispatcher queue leading to performance degradation. If you find that there are no free workprocesses for maximum times that you may consider, increasing the number of workprocesses.

[How to increase the number of work processes](#)

SM66 : (Global process overview)

This transaction code will be useful to view the processes that are running across all instances/application servers of a SAP system. Similar to SM50 checks can be done in this transaction as well.

SM51 : (Application servers status)

This transaction code will be useful to view all the hostnames and application servers status. If any application server is down, the same can be identified using status of the server column. We can also figure out different Message types (Dialog, Batch, Update, Upd2, Spool, ICM etc) configured for the respective servers.

SM12 : (Lock entry list)

This transaction code will be useful to view all the sap locks that are present in the system. As part of monitoring, we need to look for any old sap locks that are more than 1 day. If any such locks, we need to analyse the reason for that lock for such longer duration and take actions accordingly. A lock can be set for such a long duration due to a long running background job or a lock is not released due to an application error or a program terminated abruptly but lock not released etc.

How to delete a sap lock?

ST22 : (ABAP Dumps)

This transaction code will be useful to view all the abap dumps that have occurred in the system on a given day. As part of daily monitoring, it is the responsibility of the basis administrator to analyse the dumps and take necessary actions to avoid issues.

Some of the examples of abap dumps are timeout issue, database space issue, spool overflow issue etc

SM21 : (System log)

This transaction is useful to view the log of the sap system for various operations. This log will be very useful to identify various issue in advance and to take necessary measures. System log is the place to check out for any timeout, network issues, database space issues, message server issues, spool overflow, locktable overflow etc issues.

Additional details :

SAP System log

SM13 : (Update Requests overview)

This transaction is useful to figure the status of update system. In case an update is inactive we can figure out the same from this transaction and necessary action can be taken and update can be activated again.

Update got deactivated. what is the reason for update deactivation? How to activate the update ?

SM14 transaction can be called internally from SM13. These both transactions are useful for update administration.

In SM13, you can select status (canceled, to be updated, v1 executed, v2 executed, all) and time interval during which you would like to view the status execute to check the overview of updates as per the status and time interval selected.

In case of canceled updates, analysis to be done whether to repeat update.

ST02 : (Tune summary)

This transaction will be used to monitor

- Buffer statistics like hitratio, swaps, db access details, size of buffer and free size of buffer etc
- Important statistics related to Roll area, Page area, Extended memory and heap memory
- Call statistics like select, insert, update and delete

As a basis administrator, it is our responsibility to ensure there is more hit ratio for the buffers and less swaps to ensure efficient performance of the sap system. In case you see there are more swaps and less hit ratios for most of the buffers, then tuning buffers to be carried out to ensure optimal performance.

DB12 (Backup logs) : This transaction is useful to check the details of

- last successful backup
- overview of database backups (Success / failure of backup with log details)
- Archiving directory status (Free space of oraarch)
- Overview of redolog files (Number of redologs that are not yet backed up)
- overview of redolog backups (Success / failure of backup with log details)

DB13 (DBA Planning calendar) :

This transaction will be useful to schedule various database backups & clean up jobs like (whole database backup offline/online, Full backup online/offline, incremental backup offline/online, redolog backup, update statistics, check db, cleanup logs, compress database, verify database, initialize tape and validate structure jobs).

In this transaction, you can also check the status of every job that was scheduled and can reschedule in case of failures.

DB14 (DBA operations log) :

This transaction will be useful to check the status of following :

- Database backup
- Redolog backup
- BRSPACE log (extend tablespace issues etc)
- BRCONNECT operations (Update optimiser statistics , database check etc)

As an sap basis administrator it is our responsibility to check and ensure backups and other cleanup jobs are successful everyday. Incase of failures, should figure out root cause and take actions like rescheduling and ensure these jobs are successful.

SM37 (Job status overview) :

This transaction will be useful to have an overview of jobs with different statuses. As part of daily monitoring, SAP basis administrator should use this transaction to findout canceled jobs and active jobs(for eg: long running - more than 24hrs etc).

Incase of canceled jobs, root cause for the failure to be figured out from the logs of the respective job and to be actioned by rescheduling etc.

Incase of long running jobs, we need to figure out the reason for long running and action them accordingly.

In SM37, using extended job selection option, we can even select the jobs based on start condition, steps (like abap program, external command or external program), period etc

How to identify long running jobs in sap ?

How to troubleshoot a background job running for long duration in sap?

ST04 (Database alert logs and performance) :

This transaction will be useful for (oracle) database administration. In this screen, goto Alerts and drill down further. Click on "Database Check" to find out any errors or warnings related to database like MISSING_STATISTICS, STATS_TOO_OLD, LAST_BACKUP_FAILED, LAST_ARCHIVE_FAILED etc. After going through the error or warning in details take necessary corrective actions based on the error like running update stats again, re-triggering backup etc

Under Alerts, you can view Alert monitor which will summarize status of the database under different heads like

- Space Management
- Performance
- Backup/restore
- SAP Consistency
- Health

Drill down on each of these to find out potential problems. These are color coded for ease of administrator (Red for errors, yellow for Warnings and Green for OK status)

For Eg: If PSAPSR3 tablespace is >90%, you can see Space management in red color. Then it is the responsibility of Basis administrator to take necessary actions on the same.

SP01 (Check Spool status) :

This transaction is useful to find out the status of spool request and output request. In SP01 transaction, you can list the spool requests or output requests between a given interval.

In the list generated, you can check out the status of spool requests and findout any errors by drilling down further.

For eg: if so many spools are in waiting status, find out whether output device is available or not.

If many spool are in error status, figure out if there is any network issue and take necessary actions.

What are the different Spool statuses and their significance?

If customers complain that they are not able print anything from SAP, check out whether there is any spool overflow.

What is spool overflow? How to troubleshoot spool overflow issue?

SXI Cache : This Tcode is specific to XI or PI system. This Tcode is used to find out whether cache refresh is happening or not. In case if cache refresh is happening successfully, it will indicate the same in green color. Otherwise it will be in red indicating a problem with cache refresh.

If there is a problem with cache refresh then basis administrator has to troubleshoot the same.

SLDCHECK : This Tcode will be useful to figure out whether connection to the SLD system from the system on which you are testing is fine or not. In case the connection is fine, all checks will appear in green. In case of any issues, it will appear in red or yellow and then basis administrator has to troubleshoot it and make sure SLDCHECK is working fine.

Ensuring SLDCHECK is working fine is important to keep all systems in the landscape in sync.

SXI MONITOR : This TCode is specific to XI or PI system. This transaction will be useful to figure out any errors or warnings in the processing of XI or PI messages. In case of any issues, this needs to be informed to functional team and should be troubleshooted accordingly with the functional team inputs.

DBO1 : This transaction code is useful to find out the database locks that are present in the SAP system.

As part of daily monitoring, SAP Basis administrator has to figure out if there are any long pending locks more than 1 day etc and analyse reasons for the same. Sometimes if programs/jobs got terminated abruptly without removing the database locks set, this will lead to performance issues as other programs which needs that lock cannot set etc and they have to wait indefinitely as these locks won't get released automatically. In case of any long pending locks, Basis administrators should contact DBA team if any and figure out the reason for these locks and action accordingly

Jack Stack Checks : Please refer below links to understand Daily Java monitoring of SAP Landscape:

[SAP Java monitoring check list 1](#)

[SAP Java monitoring check list 2](#)

To monitor live Cache system, please refer below link :

[Live Cache Monitoring in SAP](#)

Please find below table which summarizes daily monitoring tasks that are to be performed by the SAP Basis Administrator :

Sno	Task
	ABAP Stack Checks
1	Check process overview(SM50)
2	Check overall system process overview(SM66)
3	Check application servers status(SM51)
4	Check for any pending locks (SM12)
5	Check for Dumps in the system(ST22)
6	Check System log for any errors(SM21)
7	Check for any hanged updates or update status(SM13)
8	Check for excessive swapping (ST02)
9	Check for critical job status like backup,updatestats,checkdb etc(DB13)
10	Check for longrunning/failed jobs status(SM37)
11	Check database alertlogs and performance(ST04)
12	Check spool job status (SP01)
13	Check cache status (sxi_cache) for PI System
14	Check SLD functionality(SLDCHECK)
15	Check SXI_MONITOR for PI system
16	Check for Database locks(DB01)
	Java Stack Checks
1	Check java portal accessibility using link
2	Check server0 log for java system for critical errors
3	Check accessibility of management console
4	Check server node status
5	Check default trace for critical java errors
6	Check java reports for memoryconsumption/swapping

Os level checks