

z/OS SYSTEMS MANAGEMENT SUITE.



The z/OS System Management Suite

provides a comfortable and easy way to customize your z/OS systems. It dramatically reduces maintenance time while offering powerful extensions to system functionality. Its great flexibility enables you to satisfy customers' requests on an individual basis.

The z/OS System Management Suite consists of:

- System Enhancements (SEM/Base), including:
 - System Command Facility (SEM/SysCmd)
 - Cross System Services (SEM/XSys)
- System Exits (SEM/Exits)
- SNA Session Security Management (SEM/SNASec)
- Autodiscovery (SEM/AutoDisc)
- Change Monitor (SEM/ChangeMon)

Benefits

- Full dynamic system extensions
- Non-disruptive adjustment of parameters instead of code changes
- Enforcement of standards
- Comprehensive set of functions
- Security & operation control
- Easy to use
- Extended programming services

System Enhancements (SEM/Base)

The System Enhancements package – SEM/Base – is the kernel of the z/OS System Management Suite. It provides a variety of services and tools which are used in all packages of the suite and other products, too.

SEM/Base offers a comfortable way to subtly protect system commands and dynamic APF authorization. It works with all major z/OS security products. To diagnose security problems, trace your security calls with SEM.

Programming services allow you to define and retrieve variables to flexibly customize any application. Filter services can be used for REXX and HLL's to check application-specific arguments based on external definitions. Use caching services to accelerate your application and use diagnosis aids to improve application stability.

System Command Facility (SEM/SysCmd)

SEM/SysCmd provides various interfaces to issue MVS system- and subsystem-commands on any MVS system within a network via SNA or TCP/IP:

- Command routing to any MVS system within the network
- Return of command-related messages
- Bundling of commands via command members
- Display the screen image of MVS consoles
- Batch, program, REXX and ISPF interface

Cross System Services (SEM/XSys)

SEM/XSys allows executing a REXX procedure on a remote system without changes to the original REXX procedure.

System Exits (SEM/Exits)

Most z/OS installations need to customize their systems far more than IBM standard features support. On the one hand, data center specific exit routines or system modifications offer a wide range of

individual functions, but on the other hand, they tie up precious resources to development and maintenance.

Eliminating development pain and modification risk, SEM/Exits provides a comfortable and easy way to customize your z/OS systems. It dramatically reduces maintenance time while offering a powerful extension to system functionality. Changes in SEM/Exits parameters can be activated without disruption, i.e. no IPL is needed.

SEM/Exits enables you to establish standards for critical resources like region size, Data Space size, Hyperspace size and more. You may declare these standards to be common, related to user pools or just to be valid for an individual user. Depending on your current workload, different definitions can be active for any set of users at self-defined time periods.

SNA Session Security Management (SEM/SNASec)

To ensure full security within a VTAM driven SNA network, a VTAM extension, called session management exit (SME) is strongly recommended. The session management exit is called by VTAM for various functions to allow the implementation of installation specific rules for session management and session security.

SEM/SNASec combines the proven stability of a universal session management exit coding with the high flexibility of the SEM filter technique to allow individual installation specific definitions of session management rules. Instead of code changes – requiring the deactivation of the old and an activation of the new exit – SEM/SNASec recognizes that filters have been changed and automatically uses the new filter set.

Autodiscovery (SEM/AD)

The larger your z/OS landscape is, the higher the number of CPUs, systems, LPARS, MIPS or locations which you need to monitor. The difficulty is to have always a correct and complete overview of the installed software, the software in production and in use. Different departments, like procurement, controlling and software maintenance etc. with different interests are involved in the process chain from software ordering to software usage.

Designed for those groups, the SEM/AutoDisc allows to

- Set up and maintain a software inventory
- Track the usage of installed software

Change Monitor (SEM/CM)

SEM/ChangeMon supports you to ensure a high level of operation security for your z/OS environment. It automatically tracks and save changes to protected resources (critical z/OS system datasets) and offers backup and restore opportunities to improve system reliability and to accelerate disaster recovery. Following functions are available:

- monitors ISPF EDIT changes and saves the origin member (or data set) for restore capabilities
- detects DELETE/RENAME from the ISPF dataset list and member list panels
- detects CREATE/REPLACE/MOVE commands
- critical z/OS data sets to be monitored are defined via parameter file
- variable amount of backup generations for each monitored data set
- inventory contains the name of the changed member with the change date/time/userID/reason
- ISPF Dialog to display backups or checkpoints and support the restore of members or the whole data set
- ISPF Dialog TARGET option offers the ability to view and restore backups or checkpoints of remote systems
- supports the assignment of Syncpoints to create a complete checkpoint dataset at a selected point in time (i.e. after successful IPL)

Related services

- Engineering of standard products & extensions