

**zOSEM (pronounced z Awesome)**  
**Release 6.2 New Features**

## Resource Management

- New** Step Resource Routing by Program Name, unit, exec parm, aggregate account number, job accounting numbers, tape units, dataset name and member name to reduce Software license costs
- New** Set Job Class, Priority, Service Class, execution node or **zOSEM** Resource by Maximum Tape Allocated Unit Count per step and SYSAFF
- New** Set Maximum Job Limits for USERD(s), Groups and by using standard **zOSEM** selection criteria
- New** Optionally reinterpret JOB JCL if **zOSEM** Job Classing is used to change a JOB's CLASS in order to obtain new JES2 default values for things like TIME, etc...
- New** Optionally validate the usage of the TYPRUN=HOLD parameter on the Job Card
- New** Optionally validate the usage of a JOBNAME(s) and dataset names during reader/interpreter
- New** Optionally validate the usage and value of BYTES, CARDS, LINES and PAGES on the JOBPARM JECL card
- New** Automatic conversion from Cylinders to Tracks to release additional space and provide additional granularity for the **zOSEM** HSM Optimizer size filters
- New** Automatically detect the startup of DB2 and set the minimum MEMLIMIT to 128G.
- New** Override/Set the Maximum JES2 output LINES, PAGES and KBYTES by using **zOSEM** selection criteria
- New** Automatic Implementation of System Determined BLKSIZE by using **zOSEM** selection criteria to reduce CPU, I/O resources and recording media space requirements for DASD and Tape.
- Enhanced** Most **zOSEM** controls now support unlimited selection criteria instead of the previous limit of 32 selection criteria or 1000 for Job Classing and Routing

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## Security

- New** Support for a 100 character RACF Password Phase using masking, counts for numeric, special, upper and lower case characters as well as the definition of an exclusion table for password phrases
- New** Optionally define unique RACF Class definitions in the RACF Class Descriptor Table for resources to be checked by **zOSEM**
- Enhanced** Password rules for RACF Passwords using masking, counts for numeric, special, upper and lower case characters as well as the definition of an exclusion table for passwords

## Operations

- New** Additional messages in the JES2 JOBLOG and SYSLOG when using the Dataset Conflict Resolution and Job Limiting option(s) in **zOSEM**
- New** Support for 8 character Job Class(s) in z/OS 2.1
- New** Support for new JES2 parameter in the initialization deck JOBDEF INTERPRET=JES|INIT, JES2 Exit 59 and JES2 Exit 60
- New** Operations System Display Facility (OSDF) for setting **zOSEM** Resources on/off, displaying **zOSEM** Resource conflicts, jobs awaiting execution, **zOSEM** dependent job control, dataset name conflicts etc...
- New** New and enhanced Operator commands for JES2 **zOSEM** functions including HSM, DSN ENQUEUE, Program, Job Routing and concurrent Job limits including the starting, stopping, adding, deleting and setting of options
- New** Support for DSN ENQUEUE downgrade in z/OS 2.1 when using **zOSEM** Dataset Conflict Resolution
- New** Support for Program Params greater than 100 characters
- New** Insert the first n characters of the USERID into the JOBNAME rather than just cancelling the Job
- New** WTOR support for extending SMF Wait Time to avoid S522
- New** Automatically Restart an initiator if the Job ABENDS



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### HSM Optimizer

- New*** Use of MGMTCLAS as a selection criteria in various HSM Optimizer Reports
- New*** Use of STORGRP as a selection criteria in various HSM Optimizer Reports
- New*** Twelve new HSM Optimizer Reports including Backup Detail and Summary Reports, Recovery Detail and Summary Reports, Recycle Detail and Summary Reports and Delete Detail and Summary Reports
- New*** DFSMSHsm CPU processing times now included on additional function reports for Error Detail, Error Summary, Daily statistics and Dataset Activity Reports
- New*** Use of Start and End Times for selecting the records to be included on the HSM Optimizer Reports to allow the Customer to specify their company's processing day or period.
- New*** Support for creating Text delimited files from the HSM Optimizer Reports. The ability to create graphs and charts from the HSM Optimizer Reports text delimited files will be delivered after **zOSEM 6.2** is GA

### Reporting

- New*** Addition of the Job Accounting information to the Job and Step end Statistics Report
- New*** zIIP and zAAP CPU support for the Step and Job end Statistics Report
- New*** Cost charging available for zIIP and zAAP Estimated Charges printed on the Job and Step Statistics Report
- New*** Expanded Service Unit Fields to support expansion of Service Units in the SMF records from four to eight bytes on the Step and Job end Statistics Report
- New*** SMF records be created to Report and Track **zOSEM** Actions, Functions and System Changes