System Display and Search Facility (SDSF)

Monitor, manager and control

SDSF gives you an easy and efficient way to monitor, manage and control the key aspects of your MVS/JES2 system. You can:

- Control job processing (hold, release, cancel, and purge jobs)
- Control output, and browse jobs without printing
- Control devices such as printers, lines, and initiators across the MAS
- Browse the syslog
- Control devices such as printers, lines, and initiators across the MAS
- Manage system resources, such as members of the MAS, job classes, and WLM enclaves

With SDSF panels, there is no need to learn or remember complex command syntax. SDSF's action characters, overtypeable fields, action bar, pull-downs, and pop-up windows allow you to select available functions.

- Select a function; no learning curve
- Authorized users can issue system commands from the command line
- System data, current and customizable

Type short commands here to take action; no need to remember command syntax.
Modify values by typing over them.

SDSF menu
Control jobs
SDSF provides an easy way to control JES2 jobs, which can help your users work more efficiently. It gives immediate, up-to-date, sysplex-wide information about jobs waiting to be processed or in execution. You can display all active jobs, all jobs on a specific queue, or display detail for a job no matter where it is in the sysplex. And you can display output as it is created.

Manage work productively
With SDSF commands and action characters, you can:
- Cancel, hold or release jobs
- Find out if jobs are waiting to be processed
- Filter the jobs to show just the jobs that interest you
- View output before it is printed
- Change a job's priority, class, or destination
- Edit and resubmit the JCL without leaving SDSF

Control Output
SDSF displays detailed information about output that is ready to be printed, including:
- The high return code for a job
- The total number of lines to be printed
- Classes the output is assigned to
- Forms needed for printing
- Date the output was created.
SDSF allows you to control how and where your output is printed. You can:
- Hold or purge the output
- Change the output's class, destination or forms
- Set output descriptors to be printed on separator pages.

When you work with the individual output data sets for a job, you can:
- Purge or release a data set
- Browse or print a data set
- Change the class, destination or output descriptors of a data set

### Browse output
You can display job output before deciding to print it. Print or search output. Or exploit the power of ISPF and use ISPF's edit or browse function to view output.

SDSF shows the job's SYSOUT data sets, the JES2 job log, the JCL for the job, and any job-related messages. You can optionally include SYSIN, as well.

Excerpts from an Output Dataset Panel

You can display just the JCL, modify it, and resubmit it.
Control devices

With SDSF you have a single interface to the devices on your system. With SDSF and MQSeries for OS/390, you can work with devices anywhere in the MAS.

Control local and remote printers, punches and readers

SDSF displays the status (for example, active, halted, or drained) of all printers, punches and readers on each system, and information about a job currently being processed on a device. By typing over current values, you can change the characteristics of a device. You can start, stop, halt, restart, interrupt, forward and backward space printers or punches.

Stop and start initiators

SDSF displays the class and status of all initiators defined for each system, and the name and number of the job assigned to each initiator. Using this information, you can decide how to schedule jobs to make optimal use of the system's resources.

Control lines

SDSF displays the status of each NJE and RJE line and its associated transmitters and receivers. You can start, drain, and restart the devices. By typing over fields, you can change characteristics of the devices.

SDSF also shows information about the job currently being processed by a transmitter or receiver, such as the number of lines that have been processed.
**Offload the spool**
You can better manage the spool because SDSF makes it easy to control the spool offload devices. SDSF displays the status of each offloader and its associated transmitters and receivers, and shows information about the jobs being processed. You can start, drain, and restart the devices. Typing over fields lets you set characteristics of the devices, and control the jobs that are selected.

**Manage spool volumes**
SDSF displays the status, usage information and characteristics of JES2 spool volumes. You can start, drain and halt spool volumes.

**Manage system resources**

**Reduce problem management time**
SDSF lets you view the system log online and search for specific information using SDSF commands. You can also view a merged sysplex log. A separate display of system requests, which includes WTORs and action messages, makes it easy to find and reply to those messages.

**Avoid printing the system logs**
With SDSF, you can view an up-to-date copy of the log online, and therefore, print the log less often. Individual users can have a private log of their own activity. This user session log captures all commands and responses for one user ID.

You can specify which system's log you want to display.
Control and manage a multi-access spool (MAS)

SDSF displays the status of all the systems, simplifying the task of controlling and managing a MAS. You can start, restart, or stop a member.

Control and manage nodes

You can see the status of each node, and modify its characteristics, such as what the node transmits and receives. With action characters, you can start node communication on a line, and display information about the network connections or paths for a node.

Display WLM enclaves

View the status of WLM enclaves, and the CPU time each has consumed. With a single character command, you can quickly see all instances of a multi-system enclave.

Control z/OS Unix System Services Processes

The PS panel shows the status and owner of each process, and the CPU time each has consumed. You can cancel a process.
Any SDSF user can:

- Set the color, highlighting, and intensity of the SDSF panels to suit your taste
- Display the valid actions for each panel
- Arrange the order and widths of columns on SDSF panels

Using SDSF commands or pop-up windows, you can sort and filter information to show just what you need:

- Sort by column
- Filter on any column or combination of columns
- Filter data by owner, destination or job name

<table>
<thead>
<tr>
<th>Column</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>SysName</td>
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</tr>
<tr>
<td>Real</td>
<td>4</td>
</tr>
<tr>
<td>Paging</td>
<td>6</td>
</tr>
<tr>
<td>SIO</td>
<td>6</td>
</tr>
<tr>
<td>CPU%</td>
<td>6</td>
</tr>
<tr>
<td>SrvClass</td>
<td>8</td>
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<tr>
<td>StepName</td>
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</tr>
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<tr>
<td>ASIDX</td>
<td>5</td>
</tr>
<tr>
<td>CPU-Time</td>
<td>10</td>
</tr>
<tr>
<td>SR</td>
<td>2</td>
</tr>
</tbody>
</table>

**Secure SDSF Function**

The system programmer can control which SDSF panels users can display, which jobs and columns of data are displayed on those panels, which SDSF commands users can issue and which fields they can modify.

You can establish security through SDSF parameters and exit points or you can use the standard interface (SAF, the System Authorization Facility) in conjunction with an external security program. SDSF is designed for and intended to be used with IBM's Resource Access Control Facility (RACF). However, you can implement any security product that supports the 1.9 level of the RACROUTE macro.

The SDSF parameters can be defined either as assembler macros or statements. The statements, used with an SDSF server, allow you to dynamically update SDSF parameters without the need to assemble SDSF macros.

**Learn about SDSF**

No training is needed to use SDSF because the action bar and pop-up windows guide you through the tasks you need to perform. For assistance, you can consult a variety of information.

- **The online interactive tutorial** lets you try the most common tasks.
- **Help panels** describe SDSF panels, commands, and messages. You can install them in English and Japanese.
- **SDSF Operation and Customization**, the SDSF manual, provides detailed information for the system programmer.
- SDSF provides an interface to BookManager that lets you search this and other online books without leaving SDSF.
- **The SDSF Web site** has tips, presentations, and the latest information, at www.ibm.com/servers/eserver/zseries/zos/sdsf/.
- **The SDSF customization wizard** helps you exploit SDSF’s sysplex function, and is an interactive reference to SAF resources, at www.ibm.com/servers/eserver/zseries/zos/wizards/sdsf/sdsfv1r1/