



## Operations management

Optimize the management and control of your corporate z/VSE environments

Comprehensive z/VSE console management, automated job scheduling, accurate job accounting and strategic capacity planning

**Quantifiable usage metrics are paramount to the delivery of reliable, cost effective and scalable system performance. Macro 4's system control solutions provide operations management for your z/VSE environments that help you to:**

- Improve control of your increasingly complex z/VSE environments with ease
- Reduce console traffic by separating the SYSLOG from other displays, making it easier to monitor and understand
- Improve strategic management of your z/VSE environments
- Report accurately against job accounting data to aid capacity planning and satisfy billing requirements at a user, departmental and organizational level
- Distribute console access throughout the organization, reducing the burden on operations and system staff
- Establish communications between z/VSE and z/VM systems across your corporate network
- Improve system availability and throughput through scheduled automated operations

### **z/VSE system management and control**

Considerable changes have taken place throughout the history of the z/VSE environment. Historically, CPU processing power, core storage, partitions and spooling power available to users were limited.

This situation has changed enormously with z/VSE users of today having large amounts of real and virtual storage, multiple z/VSE systems (some running under z/VM) and sophisticated shared spooling facilities at their disposal.

All of these resources need to be efficiently managed in order to provide consistently reliable levels of system performance and throughput.

Macro 4 offers you an effective means of managing and controlling your z/VSE environments. Logout, Command and System Accounting are complementary solutions that provide comprehensive console management with enhanced and extended console displays, automated operations with job scheduling capabilities and real-time data collection for the z/VSE environment.

Enhanced and extended console displays

Reduce bottlenecks and increase productivity with automated operations

z/VSE data collection performance analysis

## Logout

Logout helps you control your increasingly complex z/VSE environments by provisioning a comprehensive console management system that offers enhanced and extended console displays.

Logout's multiple console support enables the console function to be distributed within a local VM/CMS or CICS environment or across a VTAM network. A terminal in any of these environments receives a regularly updated image of all or part of the SYSLOG display, without affecting the real operator console in any way. This means that the system can be run securely from a terminal other than the main system console, helping to reduce inefficiency while preventing bottlenecks that result from having only one, over-utilized console for each z/VSE system.

Multiple z/VSE systems can also be run from a single terminal concurrently. z/VSE can be operated remotely if required, offering greater flexibility.

Logout separates the current SYSLOG from all other displays, such as POWER queue displays and MAPs that are only temporarily required. This reduces console traffic, making it easier to monitor and understand. 'Message waiting' situations and bottlenecks no longer occur, and use of the hardcopy file is reduced as well.

Logout provides fast redispays that do not interrupt the SYSLOG. Messages can be located by specific times, multiple partitions, job names and character strings. Enhanced displays are provided for POWER queues and running jobs, the hardcopy file and user definable partition maps.

Users running z/VSE under z/VM do not need a separate console. CP commands can be entered and responses displayed on any sub-console or on the SYSLOG. Specified messages can be transferred from the z/VSE console to the console of any selected virtual machine.

A complete archive facility is available to maintain a backup of the hardcopy file and allow subsequent interrogation of the backup.

## Command

Command is a menu-driven automated operations solution with job scheduling capabilities that can be run from VTAM, CMS or locally attached terminals.

Command's automated job scheduler features a REXX processor and a set of logic commands that allow great flexibility in the definition of scheduled and message rules. Command's message processor automates management and control of console messages and allows automated responses to be sent where appropriate.

Pre-requisites can be defined to prevent one or more jobs from running until others have been successfully completed.

Jobs can be scheduled by date, time, day of week or month or at a set time each week or month. Jobs can be grouped and the groups similarly scheduled.

## System Accounting

System Accounting is a real-time data collection solution for z/VSE. It collects data for individual batch jobs, partitions and files, as well as system-wide information such as paging rates, CPU usage, I/O rates and busy percentages, storage use, and much more.

Configuration of resource monitoring allows data to be gathered for areas of interest, avoiding unnecessary data collection and wasteful use of valuable resources.

Reports provide information about resource usage to allow any necessary system changes to be identified, aid capacity planning, and where necessary, satisfy billing requirements at user, departmental and organizational level.

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