# Automate your Z/OS Environments

TSF Automation Manager, a component of TSF Professional – zSeries, monitors, detects and resolves potential storage issues before they become business problems. Using rules-based configuration to manage exceptions, it automatically initiates storage management actions at specific times, when a user-defined threshold is violated or when a specified event occurs. Intelligent configuration to submit jobs, initiate a third-party application or send alert messages eases the manual tasks traditionally addressed by the storage administrator.

# Manage by Exception

The challenge of Z/OS storage management is to ensure maximum availability while controlling costs. TSF Automation Manager extends the storage administrator's reach by supporting the application of consistent management practices to address storage growth. This saves time and reduces complexity which has an immediate impact on data availability and application performance.

# Solution Highlights

**Eliminate** time-intensive manual troubleshooting with event and threshold based automation.

**Execute** critical tasks, jobs, or processes based on pre-defined schedules or events.

**Manage by exception** to increase productivity and manage more terabytes per storage administrator.

**Schedule** the exact days and times to run specific jobs and create customized messages to send to operator consoles.

**Monitor** SMS threshold changes for a particular volume or pool and automate a specific cleanup action or alert.

**Automatically check** fragmentation indices and submit defrags for those volumes based on pre-defined thresholds.

**Track** "out of space" conditions and automate the migration of data sets that have not been referenced in a user-specified number of days.

**Identify** a disabled VTOC index and automatically execute a job to re-enable the index.

# Supported Environments

▶ z/OS (all IBM supported versions)

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| 1 | 2 | 3 | 4 |
|---|---|---|---|
| Customize the scope and frequency of SpaceAutomator's real-time monitoring | Define the events and thresholds that you want to monitor | Define actions that will be automatically implemented based on a specified event or threshold occurrence | Track performance to observe how your policy-based management is enhancing the flow of data processing |

*TSF Automation Manager highlights*

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## Challenge

### Initiating critical tasks and processes

Monitoring storage resources across multiple MVS images or LPARs to ensure critical tasks are started or stopped at scheduled times and in the proper sequence. Create predefined rules to automatically start a task or initiate a job based on the occurrence of a violation or exception event.

### Tracking individual DASD volumes, DFSMS storage groups, logical volume pools

Use a threshold-based and event-driven processor to initiate action on a periodic basis, or based on occurrence of events from a variety of sources.

### Customizing collection intervals

Allow the user to define collections of any of the data storage components based on user-specific requirements.

### Ensuring maximum availability while controlling cost

Extend the reach of the storage administrator by reducing infrastructure complexities to simplify the management of storage growth.

### Automating day-to-day storage activity

Initiate jobs or submit tasks on a pre-defined day, or time of day. Support for all events monitored by storage resource management solution or through other internal triggers.

## Solution

TSF Automation Manager makes it easy to automate countless manual storage management tasks. Manage a wide range of z/OS storage resources across multiple MVS images and LPARs. Establish storage management best-practices and define rules that automate day-to-day management activity.

TSF Automation Manager initiates actions that save time and eliminate the risk of human error created by routine manual tasks occurring across your mainframe data center.

Perform tasks automatically—Eliminates the time-intensive process of manual troubleshooting. Maintains the desired state of your environment and reduces job failures with threshold-based and event-driven automation.

Apply consistent storage management policies — Defines best-practices and applies rules-base automation for a variety of storage events. User-defined policies initiate sophisticated automation or simple event management.

Establish schedules for periodic execution — Uses predefined routines that execute critical tasks or processes.

Track resources in real time — Monitors numerous resources, including space shortages and allocation, VTOC utilization and indices, free space extents, storage groups and volumes, free DSCBs and net capacity load for RVA systems.

Enable best practices – Through consistent management of pools, volumes and thresholds, TSF Automation Manager's rules allow the Storage Administrator to institute a better, more consistent and cost-effective approach to storage management.

## Key Benefits

- Automate routine storage management actions for z/OS Sysplex environments and multi-LPAR environments.

- Centralize control of Z/OS storage inventory to enable automation with exception-based best-practices.

- Leverage best-of-breed tools to eliminate the need to create and support complex scripting required with home-grown solutions.

- Manage by exception with 24/7 monitoring of individual DASD volumes, SMS storage groups, and logically defined volume pools for the occurrence of events to trigger user-defined automated actions.

- Extend management control with automated actions based on volume utilization, VTOC utilization, free extents, DSCB utilization, DFSMS status, fragmentation index and many other conditions.

- Eliminate the risk of human error created by manual coding errors by using a user-friendly, panel-driven rule editor.

- Improve DFSMShsm results and reduce the need to run the DFSMShsm Interval Migration.

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