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# CATEGORY: SystemInfo

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System information operations support diagnostics, inventory, compliance, and troubleshooting. These SOPs ensure every system-information action performed through RDAM Script Wizard is **controlled**, **auditable**, and aligned with **enterprise operational standards**.

## SOP 1 – Get System Information Summary

**Script Name:** Get System Information Summary **Category:** SystemInfo **Version:** 1.0 **Approved By:** IT Operations / Engineering

### 1. Purpose

This script retrieves a consolidated summary of key system information, supporting troubleshooting, inventory, and compliance validation.

### 2. Scope

- Windows servers and workstations
- Local or remote systems (if supported)

### 3. Definitions

- **System Summary:** High-level overview of hardware, OS, and environment.

### 4. Preconditions

- Operator must have permission to query system information.

### 5. Required Inputs

- None

### 6. Procedure Steps

1. Collect System Metadata

- Computer name
- Manufacturer
- Model
- Serial number (if available)

## 2. Collect OS Metadata

- OS name
- Version
- Build number
- Install date
- System uptime

## 3. Collect Hardware Summary

- CPU model and count
- Total memory
- Disk summary

## 4. Output Formatting

- Present structured summary.

## 5. Logging

- Log operator and timestamp.

# 7. Expected Output

- Consolidated system information summary.

# 8. Post-Execution Validation

- Operator may verify using `systeminfo`.

# 9. Error Handling

- Access denied
- WMI failure
- Missing components

# 10. Security Considerations

- System metadata may reveal sensitive asset information.

## 11. Audit Logging Requirements

- Operator ID
- Timestamp

## 12. Organizational Benefit Statement

This script provides a consistent, auditable method for retrieving system summaries, supporting troubleshooting and inventory workflows.

# SOP 2 – Get Hardware Details

**Script Name:** Get Hardware Details **Category:** SystemInfo

## 1. Purpose

This script retrieves detailed hardware information, supporting diagnostics, capacity planning, and asset management.

## 2. Scope

- Windows servers and workstations
- CPU, memory, disk, and motherboard details

## 3. Definitions

- **Hardware Inventory:** Detailed enumeration of physical components.

## 4. Preconditions

- Operator must have permission to query hardware information.

## 5. Required Inputs

- None

## 6. Procedure Steps

### 1. CPU Details

- Model
- Core count
- Logical processors
- Clock speed

### 2. Memory Details

- Total RAM
- Memory modules (size, type, speed)

### 3. Disk Details

- Physical disks
- Capacity
- Media type (SSD/HDD)

### 4. Motherboard Details

- Manufacturer
- Model
- Serial number (if available)

### 5. Output Formatting

- Present structured hardware inventory.

### 6. Logging

- Log operator and timestamp.

## 7. Expected Output

- Detailed hardware inventory.

## 8. Post-Execution Validation

- Operator may verify using Device Manager or `Get-CimInstance`.

## 9. Error Handling

- Access denied
- WMI failure
- Missing hardware data

## 10. Security Considerations

- Hardware details may reveal sensitive asset identifiers.

## 11. Audit Logging Requirements

- Operator ID
- Timestamp

## 12. Organizational Benefit Statement

This script provides a reliable, auditable method for retrieving hardware details, supporting diagnostics and asset management.

# SOP 3 – Get Operating System Details

**Script Name:** Get Operating System Details **Category:** SystemInfo

## 1. Purpose

This script retrieves detailed OS information, supporting troubleshooting, compliance, and lifecycle management.

## 2. Scope

- Windows servers and workstations
- OS version, build, edition, and configuration

## 3. Definitions

- **OS Build:** Specific release version of Windows.

## 4. Preconditions

- Operator must have permission to query OS information.

## 5. Required Inputs

- None

## 6. Procedure Steps

1. Retrieve OS Metadata
  - Name
  - Edition
  - Version
  - Build number
  - Install date
  - System root
2. Retrieve Licensing Metadata
  - Activation status

- Product key channel (if available)
3. Output Formatting
    - Present structured OS details.
  4. Logging
    - Log operator and timestamp.

## 7. Expected Output

- Detailed OS configuration and metadata.

## 8. Post-Execution Validation

- Operator may verify using `winver` or `systeminfo`.

## 9. Error Handling

- Access denied
- WMI failure

## 10. Security Considerations

- Licensing data may be sensitive.

## 11. Audit Logging Requirements

- Operator ID
- Timestamp

## 12. Organizational Benefit Statement

This script provides a controlled, auditable method for retrieving OS details, supporting compliance and lifecycle planning.

# SOP 4 – Get BIOS / Firmware Information

**Script Name:** Get BIOS / Firmware Information **Category:** SystemInfo

## 1. Purpose

This script retrieves BIOS or UEFI firmware information, supporting diagnostics, compliance, and hardware lifecycle management.

## 2. Scope

- Windows servers and workstations

- BIOS/UEFI firmware

### 3. Definitions

- **Firmware:** Low-level system software controlling hardware initialization.

### 4. Preconditions

- Operator must have permission to query firmware information.

### 5. Required Inputs

- None

### 6. Procedure Steps

1. Retrieve Firmware Metadata
  - Manufacturer
  - Version
  - Release date
  - BIOS mode (Legacy/UEFI)
2. Output Formatting
  - Present structured firmware details.
3. Logging
  - Log operator and timestamp.

### 7. Expected Output

- BIOS/UEFI firmware information.

### 8. Post-Execution Validation

- Operator may verify via `msinfo32`.

### 9. Error Handling

- Access denied
- Firmware data unavailable

### 10. Security Considerations

- Firmware version may reveal vulnerability exposure.

## 11. Audit Logging Requirements

- Operator ID
- Timestamp

## 12. Organizational Benefit Statement

This script provides a consistent, auditable method for retrieving firmware details, supporting diagnostics and lifecycle management.

# SOP 5 – Get Environment Variables

**Script Name:** Get Environment Variables **Category:** SystemInfo

## 1. Purpose

This script retrieves system and user environment variables, supporting troubleshooting, configuration validation, and application diagnostics.

## 2. Scope

- Windows servers and workstations
- System-level and user-level variables

## 3. Definitions

- **Environment Variable:** Key-value pair used by applications and the OS.

## 4. Preconditions

- Operator must have permission to query environment variables.

## 5. Required Inputs

- Optional: Variable name filter

## 6. Procedure Steps

1. Input Collection
  - Wizard prompts for optional filter.
2. Variable Enumeration
  - Retrieve system variables.
  - Retrieve user variables.
3. Filtering



- Apply name filter if provided.
4. Output Formatting
    - Present structured variable list.
  5. Logging
    - Log filter, operator, timestamp.

## **7. Expected Output**

- List of environment variables and values.

## **8. Post-Execution Validation**

- Operator may verify using `set` or `Get-ChildItem Env:.`

## **9. Error Handling**

- Access denied
- Invalid filter

## **10. Security Considerations**

- Variables may contain sensitive paths or tokens.

## **11. Audit Logging Requirements**

- Operator ID
- Filter used
- Timestamp

## **12. Organizational Benefit Statement**

This script provides a controlled, auditable method for retrieving environment variables, supporting troubleshooting and configuration validation.