HP Operations Orchestration Software

Software Version: 7.60

Flows and Operations

Legal Notices

Where to find Help, tutorials, and more

The HP Operations Orchestration Software (HP OO) documentation set is made up of:

- Help for Central
  Central Help provides information to the following:

  - Finding and running flows
  - For HP OO administrators, configuring the functioning of HP OO
  - Generating and viewing the information available from the outcomes of flow runs

  The Central Help system is also available as a PDF document in the HP OO home directory, in \Central\docs.

- Help for Studio
  Studio Help instructs flow authors at varying levels of programming ability.

  The Studio Help system is also available as a PDF document in the HP OO home directory, in \Studio\docs directory.

- Animated tutorials for Central and Studio
  HP OO tutorials can each be completed in less than half an hour and provide basic instruction on the following:

  - In Central, finding, running, and viewing information from flows
  - In Studio, modifying flows

  The tutorials are available in the

  - Studio Welcome pane
  - HP OO\Studio home directory, in the Tutorials subdirectory
  - The Opsware Network

- Self-documentation for HP OO operations, flows, and Accelerator Packs

    Self-documentation is available in the descriptions of the operations and steps that are included in the flows.

Finding or updating documentation on the Web

Documentation enhancements are a continual project at Hewlett-Packard Software. You can obtain or update the OO documentation set and tutorials at any time from the HP Support web site.

To obtain HP OO documentation and tutorials

1. Go to the HP Software Product Manuals web site (*http://support.openview.hp.com/selfsolve/manuals*).

2. Log in with your HP Passport user name and password.

    OR

    If you do not have an HP Passport, click **New users – please register** to create an HP Passport, then return to this page and log in.

    If you need help getting an HP Passport, see your HP OO contact.

3. In the **Product** list box, scroll down to and select **Operations Orchestration**.

4. In the **Product Version** list, click the version of the manuals that you're interested in.

5. In the **Operating System** list, click the relevant operating system.

6. Click the **Search** button.

7. In the **Results** list, click the link for the file that you want.

Support

For support information, including patches, troubleshooting aids, support contract management, product manuals and more, visit one of the two following sites:

- *https://support1.opsware.com/support/index.php*
- *http://www.hp.com/go/hpsoftware/DCA_support*

HP Operations Orchestration 7.60 Flows and Operations

📂 **Accelerator Packs**

  📂 **Active Directory**
    Find Inactive Domain Administrators
    Find Inactive Users
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    📂 **Diagnostics**
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    📂 **Health Check**
      Verify SRV Record

    📂 **Utility**
      Create New User
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    📂 **BEA WebLogic**

      📂 **Health Check**
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      📂 **Information Gathering**
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        Query Domain Configuration
        Query Domain Runtime
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      📂 **Utility**
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    📂 **Citrix Presentation Server**

      📂 **Health Check**
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      📂 **Information Gathering**
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📂 **Information Gathering**
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📂 **Health Check**
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📂 **Information Gathering**
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  - Generate Heap Dump
  - Get Versions For All EFixes
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  - Restart Server
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      - SQL Event Log Diagnostic
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    - 📂 **Health Check**
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      📂 **Constraints**
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📂 **Users**
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📂 **PLSQL**
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📂 **Security**
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📂 **Top SQL**
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📂 **Health Check**
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   📂 **Cisco**
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      📂 **VLANs**
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   📂 **Connectivity**
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      📂 **Diagnostics**
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    📂 **Utility**
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      📂 **Specialized Flows and Ops**
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    📂 **Specialized Flows and Ops**
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📂 **Utility**
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  📂 **Specialized Flows and Ops**
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📂 **Red Hat**
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📂 **Information Gathering**
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📂 **Specialized Flows and Ops**
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  📂 **Specialized Flows and Ops**
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📂 **SUSE Linux**
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📂 **Specialized Flows and Ops**
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  📂 **Specialized Flows and Ops**
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📂 **Specialized Flows and Ops**
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📂 **State change**
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📂 **Utility**
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📂 **Specialized Flows and Ops**
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📂 **Diagnostics**
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📂 **subflows**
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📂 **Add Or Remove HBA**
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📂 **Oracle Data Migration**
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📂 **Provisioning**
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  📂 **HP-UX**
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  📂 **Storage Provisioning**
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  📂 **Windows**
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📂 **Replace HBA**
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  📂 **State change**
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📂 **Utility**
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📂 **Virtualization**
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📂 ITIL

📂 **Change Management**

📂 **Network**
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📂 **subflows**
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📂 **Servers**
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📂 **Incident Management**

📂 **Network**
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📂 **Servers**
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📁 **subFlows**
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📁 **Ops**

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📁 **Instances**
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  📂 **Storage Repositories**
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  📂 **Virtual Block Devices**
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  📂 **Virtual Disk Images**
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📂 **Task**
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  📂 **Guest**
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  📂 **Power**
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📂 **Unicenter Network and Systems Management**
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📂 **Unicenter Service Desk**
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📂 **Ops**
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📂 **F5**
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📂 **Hewlett-Packard**

📂 **Client Automation**
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📂 **Internal Ops**
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📂 **Notify**
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📂 **Policy**
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📂 **Samples**
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📂 **Operations Manager**
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📂 **Samples**
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📂 **Windows Only**
HP OVO Windows Notify

📂 **Actions**
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📂 **Auto Deploy Policy Groups**
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📂 **Services**
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📂 **Operations Orchestration**
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Release Lock
Wait For Lock

📂 **Cluster**
Get Cluster Servers

📂 **Samples**
Get Cluster Servers

📂 **Cross Run Data Persistence**
Get Stored Flow Variable
Store Flow Variable

📂 **Repository**
Check In
Delete Path
Get All Children Named

Get Children of Path
Get Last Modified By
Get References to Path
Repository Sync
Set System Account
Set System Property
Store System Account in Flow Variable

📂 **Samples**
Publish Staging to Production Cluster
Publish To Central
Single Pass Delete Unused Content

📂 **Samples**
Basic Schedule Sample
Data Persistence Sample
Data Persistence Table Sample
Generate and Send Documentation
Get New Email Data Persistance Sample
Run Flow From E-Mail
Run Flows From E-Mails

📂 **Scheduling**
Build Input Lists From Context
Delete Flow Schedule
Get Flow Schedules
Get Schedule Details
Schedule Flow

📂 **Peregrine Service Center**
Close Change
Close Incident
Get Change Info
Get Incident Info

📂 **Ops**
Add Change
Add Incident
Close Change
Get Change Details
Get Change ids
Get Incident Details
Get Incident ids
Get Problem Details
Process Form Inputs
Update Change
Update Incident
Update Problem

📂 **Samples**
Create Change
Create Incident

📂 **Project and Portfolio Manager**
Add Note To Request
Create Request
Delete Requests
Execute Workflow Transition

Get Request
Update Request Fields

📂 **Default Bug Tickets**
Create Request
Update Request

📂 **Default Enhancement Ticket**
Create Request
Update Request

📂 **Server Automation**

📂 **Audits**
Get Audit Task VO
Get Latest Audit Result VO

📂 **Custom Attributes**
Add or Set Custom Attribute
Delete Custom Attribute
Get Custom Attribute

📂 **Custom Fields**
Attach Virtual Column
Detach Virtual Column
Get Custom Field
Get Virtual Columns
Set Custom Field

📂 **Virtual Columns**
Create Virtual Column
Delete Virtual Column
Get Virtual Column
Update Virtual Column

📂 **Customers**
Get Customer VOs

📂 **Device Groups**
Create Device Group
Delete Device Group
Get Device Group Dynamic Rule
Get Device Group VO
Get Server List
Get Server VOs from Device Group
Set Device Group Dynamic Rule
Update Device Group

📂 **Folders**
Create Folder
Delete Folder
Get Folder VOs

📂 **Jobs**
Add Ticket Number
Approve Blocked Job
Cancel Scheduled Job
Get Job Info VO
Is Job Completed
Wait for Job

📂 **OS Sequences**

Get OS Sequence VO by Name
Get OS Sequence VOs
Start OS Sequence

📂 **Patch Policies**
Add Patches to Patch Policy
Attach Servers to Patch Policy
Detach Servers from Patch Policy
Get Patch Policy Compliance Scan Summary
Get Patch Policy VOs
Get Patches in Patch Policy
Get Servers in Patch Policy
Remove Patches from Patch Policy
Start Patch Policy Compliance Scan

    📂 **Windows**
    Create Windows Patch Policy
    Delete Windows Patch Policy

📂 **Patches**
Get Device Patches
Get Installed Devices for Patch
Get OSes with Patches
Get Patch Types for OS
Get Patch VOs
Policy Override Add
Policy Override Get VOs
Policy Override Remove
Schedule Install Patch
Schedule Uninstall Patch

    📂 **AIX**
    Get APAR VOs
    Get Update Fileset VOs

    📂 **HPUX**
    Get Patch Fileset VOs
    Get Patch Product VOs

    📂 **Solaris**
    Get Solaris Patch Cluster VOs
    Get Solaris Patch VOs

    📂 **Windows**
    Get Hotfix VOs
    Get Service Pack VOs
    Get Update Rollup VOs
    Get Windows Patch VOs

📂 **Platforms**
Get Platform VOs

📂 **Samples**
Add Patch Policy Override
Approve Blocked Job
Attach Software Policy
Create Software Policy
Detach Software Policy
Get Patch information
Install a patch

Provision Server
Remediate Servers
Scan Patch Policy Compliance
Scan and Get Software Policy Compliance
Start Create Virtual Machine
Start Run Script

📂 **Scripts**
Get Server Scripts
Start Server Script

📂 **Servers**
Add Server to Device Group
Get Change Logs
Get Installed Services
Get Installed Software
Get Server VO
Get Software Policies from Server
Get Unprovisioned Servers
Remediate Server
Remove Server from Device Group

📂 **Software Policies**
Attach Software Policy
Create Software Policy
Delete Software Policy
Detach Software Policy
Get Servers in Software Policy
Get Software Policy Compliance Scan Summary
Get Software Policy VO
Start Software Policy Compliance Scan
Update Software Policy

📂 **Units**
Get Unit VOs

📂 **Virtualization**
Get Data Stores
Get Guest OSes
Get Port Groups
Start Virtual Machine Create

📂 **Service Automation Visualizer**
SAV URL Generator

📂 **Service Desk**
Create Object
Find Objects
Get Object
Modify Object

📂 **Samples**
Close Service Call
Create Service Call
Find Service Call
Get Service Call
Update Service Call

📂 **Utilities**
Convert Date

Get Object Properties
List Objects

📁 **Service Manager**
Close Ticket

   📁 **Change Management**
   Approve Change
   Create Change
   Get Change
   Move Change to Next Phase
   Update Change

   📁 **Incident Management**
   Create Incident
   Get Incident
   Resolve Incident
   Update Incident

   📁 **Problem Management**
   Create Problem
   Get Problem
   Update Problem

   📁 **Samples**
   Create and Approve Change

📁 **SiteScope**

   📁 **7.0**
   Acknowledge
   Refresh
   Unacknowledge

   📁 **9.0**
   Deploy Template
   Enable Monitor
   Redeploy Template
   Run Monitor

📁 **Storage Automation**

   📁 **SSH**
   Create ASM LV
   Create Logical Volume
   Create Minor Number
   IOscan Cmd

   📁 **Storage Automation Toolkit**

      📁 **Discovery**
      Add Default User
      Add Discovery Address Range
      Add Or Update Discovery Address
      Create Or Update Database
      Export Discovery List
      Get All Element Details
      Get Discovery Status
      Get Topology
      Import Discovery List
      Is Refresh Element Details In Progress
      Refresh Element Details

Remove Database
Remove Discovery Address
Start Discovery

📂 **Fabric**
Get All FC Ports
Get All Fabrics
Get Fabric Name for a specified Port
Get Fabric Port WWNs Mapping
Get Zone Aliases For a specified Port
Get Zones For a specified Port

   📂 **Switch**
   Get All Switch Ports
   Get All Switches
   Get Switch

   📂 **Zone**
   Activate Zone
   Create Zone
   Deactivate Zone
   Delete Zone
   Get All Zones
   Get Zone
   Update Zone

   📂 **Zone Alias**
   Create Zone Alias
   Delete Zone Alias
   Get All Zone Aliases
   Get Zone Alias
   Update Zone Alias

   📂 **Zone Set**
   Activate Zone Set
   Create Zone Set
   Delete Zone Set
   Get All Zone Sets
   Get Zone Set
   Update Zone Set

📂 **General**
Convert Provisioning Details To XML
Modify Provisioning Details In XML
Parse Provisioning Details From XML
Refresh Materialized View
Refresh SE On Ucmdb
SE Connection
Set Custom Name

📂 **Host**
Get All Hosts
Get All Paths
Get Host
List Of Ports In Same Fabric

   📂 **HBA**
   Add access to HBA Port for a Storage Volume
   Get Storage Systems connected to HBA port

Get Zones For HBA port
Get mapped Storage Volumes for a HBA port
Remove access to HBA port for a Storage Volume

📂 **Risk Analysis**
Identify Critical Links for Application
Identify Critical Links for Host
Identify Critical Switches for Application
Identify Critical Switches for Host
Identify Performance Bottle Necks for Application
Identify Slowest Ports in Application Path
Identify is Application Clustered
Identify is Host Clustered
List Storage Paths for Application
List Storage Paths for Host
Show Impact of Device

📂 **Storage System**
Find Storage Systems In Zone With HBA Port
Find Storage Systems Not In Zone With HBA Port
Find Suitable Storage From List
Get All FC Ports
Get All Storage System
Get Storage System

    📂 **Host Security Group**
    Add Access to HBA Port
    Create Host Security Group
    Delete Host Security Group
    Get All Host Security Groups
    Get Host Security Group
    Map Storage Volume
    Remove Access to HBA Port
    Set Name
    Unmap Storage Volume

    📂 **Storage Pool**
    Delete Storage Pool
    Get All Storage Pools
    Get Storage Pool

    📂 **Storage Volume**
    Create Storage Volume
    Delete Storage Volume
    Get All Storage Volumes
    Get Mapped HBA Ports For Storage Volume
    Get Storage Volume

📂 **Telnet**
ASM Disk Stamping

📂 **Utility Operations**
Decision Operation
List Merge
Validate IP Address
Validate WWN
checkNotBlank
incrementor

sizeConvertor

📂 **Windows Utility**
Create Windows Host Drive Script
Disk Partition Rescan Cmd
Disk Partition Run Script
Disk Partition Run Script Cmd
Disk Partition Run Script SQL

📂 **Universal CMDB**
Add Object
Add Relationship
Delete Object
Delete Relation
Get Filtered Object List by Type
Get Neighboring Objects
Get Object Attributes by Id
Get Object List by Type
Get Query Name of View
Get Topology Map by Query Name
Get Topology Map by Query Name with Parameter
Get Topology Map by View Name
Modify Object Attribute(s)

📂 **IBM**

📂 **Netcool**
Acknowledge
Add Journal Entry
Get Event Info
Get Events
Netcool Notify
Set Severity
Unacknowledge

📂 **Tivoli**
Acknowledge Event
Change Event Severity
Close Event
Create Event

📂 **Ops**
Acknowledge Event
Change Event Severity
Close Event
Create Event
List Events

📂 **Samples**
Ticket Manipulation Sample

📂 **Microsoft**

📂 **Hyper-V**

📂 **Jobs**
Get Job State
Terminate Job

📂 **Server**
Host Enumerate Virtual Machines

List Long Running Virtual Machines
List Old Virtual Machines

📂 **Snapshots**
Apply Snapshot
Create Snapshot
Delete Snapshot
Delete Snapshot Tree
Enumerate Snapshots
Rename Snapshot

📂 **Virtual Harddisk Operations**
Attach Virtual Harddisk to Virtual Machine
Compact Virtual Harddisk
Convert Virtual Harddisk
Create Virtual Harddisk
Expand Virtual Harddisk
Get Virtual Harddisk Information
Remove Device From IDE Controller
Validate Virtual Harddisk

📂 **Virtual Machine Actions**
Create Blank Virtual Machine
Delete Virtual Machine
Export Virtual Machine
Get Virtual Machine State
Import Virtual Machine
Pause Virtual Machine
Rename Virtual Machine
Reset Virtual Machine
Save Virtual Machine
Shutdown Virtual Machine
Start Virtual Machine
Stop Virtual Machine

📂 **Virtual Machine Configuration**
Change Boot Order
Get Number Of Processors For Virtual Machine
Get Virtual Machine Memory
Get Virtual Machine Operating System Name
Get Virtual Machine Processor Usage
Resource Control
Set Memory Size
Set Number Of Processors

📂 **Virtual Networks**
Attach Legacy NIC to Virtual Machine
Attach NIC to Virtual Machine
Attach VM To Network
Change MAC for Legacy NIC
Change MAC for NIC
Create Internal Network
Create Private Network
Delete Network
Dettach Virtual Machine From Network
Get Legacy NICs for Virtual Machine
Get NICs for VM

List Virtual Machines Attached To Network
Remove Legacy NIC by ID
Remove Legacy NIC by MAC
Remove NIC by ID
Remove NIC by MAC

📂 **Microsoft Operations Manager**
Change Resolution State
Get Alert Detail
Get Resolution State By Alert ID
Get Resolution States
Is Computer In Maintenance Mode
MOM Notify
Put Computer In Maintenance Mode
Remove Computer From Maintenance Mode
Update Ticket ID

📂 **Samples**
Reboot Windows Server with MOM

📂 **SMS**
Add Machine To Collection
Get Collections
Get Machines In Collection
Is Machine In Collection
Remove Machine From Collection
Request Machine Policy

📂 **System Center Operations Manager 2007**
Change Resolution State
Get Alert Detail
Get Resolution State By Alert Id
Get Resolution States
Is Computer In Maintenance Mode
Put Computer In Maintenance Mode
Remove Computer From Maintenance Mode
Update Ticket

📂 **Samples**
Maintenance Mode
Resolution State
Update Ticket

📂 **Symantec Altiris**
Delete Computer
Delete Scheduled Job
Get Computer Details
Get Computer ID
Get Computer Schedules
Get Computers From Group
Get Group ID
Get Job IDs
Move Computer to Group
Register Application
Schedule Job

📂 **Samples**
Group Sample

Register Application
Scheduling Sample

📂 **VMware**

  📂 **VMware Server**

Aggregate Virtual Machine Data
Get Virtual Machine Display Name
Get Virtual Machine IP Address
Get Virtual Machine Memory
Get Virtual Machine Operating System Name
Get Virtual Machine State
Host Enumerate Virtual Machines
Host Register Virtual Machine
Host Unregister Virtual Machine
Reset Virtual Machine
Start Virtual Machine
Stop Virtual Machine
Suspend Virtual Machine
Vmware Command

  📂 **VMware Virtual Infrastructure**

Clone Virtual Machine
Create Virtual Machine
Get Virtual Machine
Mark VM As Template
Migrate Virtual Machine
Relocate Virtual Machine
Set Maintenance Mode

    📂 **Configuration**

Add NIC To VM
Configure NIC on VM
Remove NIC From VM

    📂 **Guest**

Mount Tools
Reboot Guest
Shutdown Guest
Standby Guest
Upgrade Tools

    📂 **Network**

Add Port Group
Add Virtual NIC
Add Virtual Switch
Delete Network Entity

    📂 **Power**

Get Power State
Restart
Set Power State

    📂 **Samples**

Get Freespace On Datastores
Get List Of Powered On VMs
Quick Migrate

    📂 **Snapshots**

Create Snapshot

Delete Snapshot
Get Snapshot
Revert To Snapshot

📂 **Tasks**
Cancel Task
Get Task State

📂 **Utilities**
Advanced Search
Destroy Object
Get OS Descriptors
List Custom Fields
Simple Search

📂 Operations
Diagnosed
Error
No Action Taken
Resolved

📂 **Active Directory**

📂 **.NET**
AD Time Stamp To Date
Convert RID to DN
Copy Root Hints
Date To AD Time Stamp
Event 5509
Get Configuration DN
Get Domain DN
Get Servers
Get Workstations
Query for PDC Emulator
Restartable DNS Events

📂 **Computers**
Create Computer Account
Delete Computer Account
Disable Computer Account
Enable Computer Account
Get Computer Account OU
Is Computer Account Enabled
Move Computer Account to OU
Reset Computer Account

📂 **Groups**
Add User To Group
Create Group
Delete Group
Get Groups
Get Inactive Users By Group
Is User Directly in Group
Is User in Group
Remove User from Group

📂 **Samples**
Check User Credentials

Reset User Account Password
User Group Sample

📂 **Users**
Authenticate User
Create User
Create User From Template
Delete User
Disable User
Enable User
Generate Random Password
Get Inactive Users
Get Last Login Time
Get Users
Is User Enabled
Reset Password
Set User Account
Set User Address
Set User Dialin
Set User Environment
Set User General Information
Set User Organization
Set User Profile
Set User Remote Control
Set User Sessions
Set User Telephone Information
Set User Terminal Services Configuration

📂 **Java**

📂 **Computers**
Create Computer Account
Delete Computer Account
Disable Computer Account
Enable Computer Account
Get Computer Account OU
Is Computer Account Enabled
Move Computer Account To OU
Reset Computer Account

📂 **Groups**
Add User To Group
Create Group
Delete Group
Remove User From Group

📂 **Samples**
Test Computer Account Sample
Test Groups Sample
Test Users Sample

📂 **Users**
Authenticate User
Create User
Delete User
Disable User
Enable User

          Is User Enabled
          Reset Password

📂 **Apache**
   Get Server Stats

📂 **Application Servers**

   📂 **BEA WebLogic**
      Query Configuration Manager
      Query Domain Configuration
      Query Domain Runtime

      📂 **Applications**
         Check Application State
         Configure Application Deployment Attribute
         Deploy Application
         Query Application Deployment Configuration
         Query Application Deployment Configuration Target
         Query Application Runtime
         Restart Application
         Start Application
         Stop Application
         Undeploy Application
         Wait For State

      📂 **Samples**
         Restart
         is Application up
         is WebLogic Up

      📂 **Servers**
         Configure Server Attribute
         Query Server Configuration
         Query Server Runtime
         Resume Server
         Start Server
         Suspend Server
         Total Server Shutdown

   📂 **Citrix Presentation Server**
      Get Farm Name
      Get Servers
      Query Server

      📂 **Applications**
         Add Application to Server
         Get Applications
         Modify Application
         Query Application
         Remove Application from Server

      📂 **Sessions**
         Get Sessions
         Logoff Session
         Query Session

      📂 **Users**
         Add User To Application
         Query User

Remove User from Application

📁 **Jboss**
JBoss Action

📁 **Tomcat**
Manage Tomcat
Restart Tomcat Web Application
Start Tomcat Web Application
Stop Tomcat Web Application

📁 **WebSphere**
Get Attribute
Invoke Operation

   📁 **Samples**
   Sample Get Attribute
   Sample Invoke Operation

📁 **Backup Exec**

📁 **Job Management**
Backup
Restart
Restore
Stop

   📁 **Samples**
   Backup
   Restart
   Restore
   Stop

📁 **Log Analyzer**
Get Alert Details
Get Job History

   📁 **Samples**
   Get Alert Details
   Get Job History

📁 **Databases**
DSN Command
DSN Query

📁 **JDBC**
Get All Rows
SQL Command
SQL Query
SQL Query All Rows
SQL Query LOB
SQL Query Tabular
SQL Script

   📁 **Samples**
   Custom Driver Command
   Custom Driver Query
   Test SQL Query LOB Sample

📁 **Microsoft SQL**
Get Active Connections
Get Next Sql Row
Get Server Instances

Is a SQL Server
Run SRS Report
SQL Restart
SQL Script
Sql Command
Sql Query

📂 **Samples**
Active Connections
Is An SQL Sample
Server Instances

📂 **Oracle**
Index Fragmentation Calculations
Index Fragmentation Index Query Builder
Index Fragmentation Query Builder
Index Fragmented Appender
TNS Names SQL Command
TNS Names SQL Query
TNS Names SQL Query LOB
TNS Names SQL Query Tabular
TNS Names SQL Script

📂 **Email**
CDO
Get Mail Message
Get Mail Message Count
Send Mail
Test and Send Email

📂 **SMTP**
Check SMTP Server

📂 **samples**
Check EHLO

📂 **Exchange**
Add Custom Attribute
Change Exchange Features
DC Diagnostic
Establish Email Address
Exchange Restart
Exchange Server Info
Fix Clustered Exchange
Fix Exchange
Fix Non Clustered Exchange
Get A Records
Get Custom Attribute
Get Exchange Server List
Get MX Records
Get Transport Server Info
Is An Exchange
Is Exchange Server Alive
Net Diagnostic
Remove Custom Attribute
SMTP Diagnostic
SMTP Extensions

Select an IP address
Server Health
Set Basic Information
Set Delivery Options
Set Delivery Restrictions
Set Storage Limits
Set User ILS Information
Start Clustered Exchange
Wait for no SMTP Service Connections

📂 **Emails**
Add Email Addresses
Change Email Addresses
Get Email List
Get Next Email
Read Attachment
Read Email
Remove Email Addresses
Reply Mail
Send Mail

📂 **Mailbox**
Change Mailbox Rights
Create Mailbox
Delete Exchange Object
Get Folder List
Get Next Folder
Get User Mailbox Info
Move Mailbox
Move Object
Remove Mailbox
Remove Object

📂 **Samples**
DC Diagnostic
Exchange Server Information
Get A-Records
Get MX-Records
Is An Exchange Sample
Move Mailbox
Net Diagnostic
Read Attachments
SMTP Diagnostic
SMTP Validation
Validate SMTP Extensions

📂 **FileSystem**

📂 **Cross Platform**
Append to File
Create Zip
FS Copy
FS Create Directory
FS Create Temp File
FS Delete
FS Exists
FS Get Children

FS Hidden
FS Is Directory
FS MD5 Sum
FS Modified
FS Move
FS Readable
FS Rename
FS Size
FS Writeable
Read from File
Write to File

📂 **Samples**
Create Temp File Sample
Directory Tree Traversal Sample
Get Children Sample
Hidden Sample
Is Directory Sample
MD5 Sum Sample
Modified Sample
Move Sample
Readable Sample
Rename Sample
Size Sample
Writeable Sample

📂 **Windows Only**
Append to File
Convert to UNC
Create Zip
FS Accessed
FS Convert Path To UNC
FS Copy
FS Copy Inter Machines
FS Create Directory
FS Create Temp File
FS Created
FS Delete
FS Exists
FS Get Children
FS Is Directory
FS MD5 Sum
FS Modified
FS Move
FS Properties
FS Rename
FS Security Properties
FS Set Attributes
FS Set Security Properties
FS Size
Read File
Read Ini File
Set Properties
Write Ini File

Write to File

📂 **Excel**
Excel
Select Row Range
Select Row(s)

📂 **Samples**
Accessed Sample
Create Temp File Sample
Created Sample
Directory Tree Traversal Sample
Get Children Sample
Is Directory Sample
MD5 Sum Sample
Modified Sample
Move Sample
Properties Sample
Read File Sample
Rename Sample
Size Sample

📂 **HTTP Client**
Find URL References
Form Extractor
HTML Parser
Http Client Delete
Http Client Detailed Return
Http Client Get
Http Client Get to File
Http Client Head
Http Client Multipart Post
Http Client Options
Http Client Post
Http Client Post Raw
Http Client Put
Http Client Trace
Iterative HTML Parser
Recursive Link Checker
Timed Get
form single input extractor
html parameter extractor

📂 **Samples**
Check URL via Http Client Get
Determine Results

📂 **IIS**
Change Application Pool Status
Change Site Status
Get Application Pool Status
Get Site Status
Is An IIS
List Application Pools
List Sites
Wait for no ASP.NET Connections
Wait for no Connections with Timeout

Wait for no Web Service Connections

📂 **Samples**
Is An IIs Sample

📂 **JVM**
JVM Low Memory Check
JVM Memory Usage Statistics

📂 **LDAP**

📂 **.NET**
Get All LDAP Properties
Get LDAP Properties
LDAP Add Property Value
LDAP Get Child Objects
LDAP Get Property Value
LDAP Object Exists
LDAP Remove Property Value
LDAP Search
LDAP Search Next Result
LDAP Set Property Value

📂 **Java**
Get All LDAP Properties
LDAP Get Child Objects
LDAP Get Properties
LDAP Get Property Value
LDAP Object Exists
LDAP Search
LDAP Search Next Result
LDAP Set Property Value

📂 **Samples**
Get All LDAP Properties Sample
LDAP Java CN Sample
LDAP Java Get Property Value Sample
LDAP Java OU Sample

📂 **MS Cluster**
Change Clustered Resource Status
Get Clustered Resource Owner
Get Clustered Resource State
Is Clustered Resource
Move Cluster Group
Remove Server From Cluster

📂 **Network**
Connection Tester
Local Ping
Local Traceroute
Ping
Port Ping
Traceroute

📂 **Cisco**
Detect Restarted Cisco Router
Write Memory

📂 **CDP**

CDP Disable
CDP Enable
CDP Interface Enable
Enumerate Routers
Get CDP Neighbors

📂 **Interfaces**
Enable Interface
Get Interface Details
Get Interfaces
Set IP Address
Show Controller
Show Interface Stat
Show Interface Switching
Show Queueing Interface

📂 **Logging**
Disable Local Logging
Enable Local Logging
Set Syslog Server
Show Log

📂 **Misc**
Add DNS Server
Add Time Server
Add User
Cancel Delayed Reload
Delayed Reload
Delete User
Enable DNS Client
Reload Server
Set Banner
Set Time
Show Buffers
Show Context
Show Diag
Show Proc CPU
Show Stacks
Show Technical Support
Show Version

📂 **Routing**
Add RIP Network
Disable Routing
Enable Routing
Show IP Route Summary

📂 **Samples**
Get Aggregate Log Information
Get Interface Info

📂 **Security**
Set Enabled Secret

📂 **Telnet Commands**
Add user through Telnet
Enable AAA Authentication
Enable SSH

📂 **Process Operations**
 Check Process By Command Line
 Check Process Output
 Check Process by PID
 Get Process List
 Kill Process
 Kill-9 Process
 Run Service

📂 **HP-UX**

 📂 **Disk and File Operations**
  Delete File
  Disk Metrics
  Disk Usage
  Get Extended IO Information
  Get File System List
  Get Last Log Message
  Get Last Log Time and Message
  Largest File

 📂 **Memory and Processor Operations**
  CPU Metrics
  Get vmstat Information
  Memory Metrics

 📂 **Network Operations**
  Check Network Interface for Errors
  Network Metrics
  Ping
  Trace Route

 📂 **OS and Server Operations**
  Current Time
  Get Active Users
  Get Last Boot Time
  Get Load Averages
  Get OS Name
  Get Package Version
  Get Processor Count
  Reboot Server
  Uptime

 📂 **Process Operations**
  Check Process By Command Line
  Check Process by PID
  Get Process List
  Kill Process
  Kill-9 Process
  Process Metrics
  Run Service

📂 **Logs**
 Archive Delete Files
 Delete or Archive
 Get Archive Name
 List Files
 Log Analyzer

- 📂 **Samples**
  - Linux Log File Backup
  - Log Analyze
- 📂 **Red Hat**
  - 📂 **Disk and File Operations**
    - Delete File
    - Disk Metrics
    - Disk Usage
    - Get Extended IO Information
    - Get File System List
    - Get Last Log Messages
    - Get Last Log Time and Message
    - Largest File
  - 📂 **Memory and Processor Operations**
    - CPU Metrics
    - Get vmstat Information
    - Memory Metrics
  - 📂 **Network Operations**
    - Check Network Interface for Errors
    - Network Metrics
    - Ping
    - Trace Route
  - 📂 **OS and Server Operations**
    - Current Time
    - Get Active Users
    - Get Last Boot Time
    - Get Load Average
    - Get OS Name
    - Get OS Version
    - Get Package Version
    - Get Processor Count
    - Reboot server
    - Uptime
  - 📂 **Process Operations**
    - Check Process By Command Line
    - Check Process by PID
    - Get Process List
    - Kill Process
    - Kill-9 Process
    - Process Metrics
    - Run Service
- 📂 **SUSE Linux**
  - 📂 **Disk and File Operations**
    - Delete File
    - Disk Usage
    - Get File System List
    - Get Last Log Messages
    - Get Last Log Time and Message
    - Largest File
  - 📂 **Memory and Processor Operations**
    - CPU Metrics

Get vmstat Information
Memory Metrics

📂 **Network Operations**
Check Network Interface for Errors
Network Metrics
Ping
Trace Route

📂 **OS and Server Operations**
Current Time
Get Active Users
Get Last Boot Time
Get Load Averages
Get OS Name
Get Package Version
Get Processor Count
Reboot server
Uptime

📂 **Process Operations**
Check Process By Command Line
Check Process by PID
Get Process List
Kill Process
Kill-9 Process
Process Metrics
Run Service

📂 **Scripts**
Copy Script From Localhost
Copy Script From Remote host
Remote Linux File Deleter
Remote Linux Script File Runner
Remote Or Local

📂 **Samples**
Remote Script Runner

📂 **Solaris**
Format Display Information

📂 **Disk and File Operations**
Delete File
Disk Metrics
Disk Usage
Get Device from Mount
Get Extended IO Information
Get File System List
Get Last Log Messages
Get Last Log Time and Message
Largest File
Last Modified

📂 **Memory and Processor Operations**
CPU Metrics
Check Processor Status
Get Processor Count
Memory Metrics

- 📂 **Network Operations**
  - Check Network Interface for Errors
  - Network Metrics
  - Ping
  - Trace Route
- 📂 **OS and Server Operations**
  - Get Active Users
  - Get Last Boot Time
  - Get Load Averages
  - Get OS Name
  - Get Patches
  - Has Patch
  - Reboot
  - Uptime
- 📂 **Process Operations**
  - Check Process By Command Line
  - Check Process by PID
  - Check for Blocked Threads
  - Get Active Process Statistics
  - Get Process List
  - Kill Process
  - Kill-9 Process
  - Run Service
  - Threads Metrics
- 📂 **Windows Management**
  - Copy and Run Script
  - Create Windows Health Report
  - Get Active Users
  - Get Average CPU Load
  - Get Average Disk Usage
  - Get Largest File
  - Get Performance Counter Value
  - Get Processor Status
  - Ping
  - Remote Command Execution
  - Restart Windows
  - Run Script
  - Run Script from File
  - Safely Remove File
  - Trace Route
  - 📂 **Event Logs**
    - Detect Restarted Windows Server
    - Filter Event Log
    - Iterative Windows Event Log Diagnostic
    - Log Windows Event
    - Search Event Log
    - Windows Event Log Diagnostic
    - 📂 **Samples**
      - Log Event Sample
  - 📂 **Performance Counters**
    - Get Performance Counters

📂 **CPU**
Get CPU Usage
Get Percent DPC
Get Percent Interrupt Time

📂 **Disk**
Get Average Seconds per Disk Read
Get Average Seconds per Disk Write

📂 **Memory**
Get Available Memory in Megabytes
Get Memory Pages per Sec
Get Percent Memory Committed

📂 **Processes**
Get Process Counters
Get Process PID
Get Processes By Name
Get Task List
Get Windows Processes
Terminate Process

📂 **Registry**
Create Registry Key
Delete Registry Key
Delete Registry Value
Enumerate Registry Key Values
Enumerate Registry Subkeys
Read Registry Key Value
Write Registry Key Value

📂 **Samples**
Event log searcher
Filter and Mailer
Get Active Users Sample
Get Percentage Of Processor Time
Registry Sample
Sample CPU Flow
Sample Memory Flow
Sample Physical Disk Flow
Service Start Mode Sample
WMI Query
Windows Delete or Zip

📂 **Services**
Change Service Credentials
Change Service Start Mode
Change Service Status
Check Services List
Does Service Exist
Get Service List By Start Mode
Get Service Start Mode
Reset Windows Service Credentials
Restart Windows Service
Service Port Health Check
Service Status
Start Service If Automatic

📂 **PowerShell**
PowerShell Script

  📂 **Events**
    Get Event Log
    List Event Types
    Write Event Log

  📂 **Networking**
    Configure Network Adapter
    Get Adapter Configuration
    List Network Adapters

  📂 **Services**
    Get Dependent Services
    Get Service Dependencies
    List Services
    Number of Services
    Start Service
    Stop Service

  📂 **Shares**
    Create Share
    Delete Share
    List Shares

  📂 **Utility**
    Create Local Group
    Create Local User
    Disable Local User
    Enable Local User
    Get Date and Time
    Get Disk Drives
    Get Logical Disks
    Get Screen Saver
    Get WMI Log Level
    Rename Computer
    Report Desktop Settings
    Report Firewall Configuration
    Report Logical Disk Performance
    Restart Computer
    Set WMI Log Level
    Shutdown Computer

📂 **Printing**
Assign Default Printer
Delete All Printers
Delete Big Print Jobs
Delete Named Printer
Delete Print Job
Delete Specific Printer
File Printer
List Printer Capabilities
List Printer Drivers
List Printers
Modify Printer Availability
Modify Printer Priority

Monitor Print Queues Times
Pause All Print Jobs
Pause Print Job
Pause Printer
Pause Printers
Print Job Information
Print Jobs
Print Jobs IDs
Print Jobs Statistics
Print Jobs Status
Print Queues
Printer Port Properties
Printer Status
Purge Print Queue
Rename Printer
Resume All Print Jobs
Resume Print Job
Resume Printer
Resume Printers
Text Printer

📂 **Remote Command Execution**
Remote Command
Remote Shell

  📂 **RSH**
  rexec
  rsh

    📂 **Samples**
    Run RSH Command as Root
    Run rexec

  📂 **SSH**
  SSH (NRAS)
  SSH Command
  SSH Shell

  📂 **Telnet**
  JRAS Telnet Shell
  Send Password
  Send Username
  Telnet Command

📂 **Remote File Transfer**
Remote Copy

  📂 **FTP**
  Get
  Put

  📂 **SCP**
  Remote Secure Copy
  Secure Copy

    📂 **Samples**
    Remote Secure Copy Sample
    Secure Copy

  📂 **SFTP**

        Set WMI Attribute
        WMI CSV Value Getter
        WMI Query
        WMI Query Results Transformer

  📂 **Wizards**

     📂 **Web Service Wizard**
        Invoke Method 2

📂 Templates

Blank Flow
Check Windows CPU
Check for Windows Event
Counter Average Threshold
Create a Trouble Ticket
F5 Iterable Action Template
Network Check
Restart Service
Restart Solaris Server

📂 Tutorials

Restart Service - Tutorial Flow

  📂 **subflows**
      Get Stopped Service List
      Pick a Service
      Restart Service

📂 Utility Operations

Basic Notify
Chop
Command Line Builder
Display
Generic Diagnostic
JRAS Command
Manual
Notify
Operating System Detector
Random Number Generator
Search and Replace
Sleep
String Occurrence Counter
Temp File Reader
UUID Generator

  📂 **Containers**
  List Map

    📂 **Lists**
      Contains All
      Generate Report From Lists
      Get Element Matching
      List Appender
      List Item Grabber
      List Prepender
      List Remover
      List Sort

Trim List

📂 **Tables**
Get Column from Table
Table Sort

📂 **Date and Time**
Check Time
Date Parser
Date and Time Comparator
File Date Check
Get Current Date and Time
Offset Time by
Offset Time from Now
Recently Run

📂 **Flow Variable Manipulation**
Check Null
Clear Flow Variable
Clear Global Flow Variable
Flow Variable Resolver
Set Flow Variable
Set Flow Variables

📂 **HTML Formatting**
HTML Link Formatter
HTML String Formatter
HTML Table Formatter

📂 **Samples**
HTML Formatter Sample

📂 **Looping**
Counter
List Iterator
Loop
Selection List Iterate

📂 **Math and Comparison**
Alphabetical String Comparator
Average Threshold
Base Converter
Double Comparator
Evaluate Expression
String Comparator

📂 **Simple Evaluators**
Addition
Divider
Equal
Greater Than
Greater Than or Equal
Less Than
Less Than or Equal
Multiply
Not Equal
Power
Subtraction

📂 **Statistics**

Analyze List
Analyze Table Columns
Check Trend

📂 **Samples**
Generate Random Number
OSDetector Sample
Resolve Context Values to String
Sample Generate Run URL

📂 **XML Processing**
Validate XML Document
XML Element Filter
XML Get Attributes
XML Get Element Value
XPath Evaluator