

# CATEGORY: WindowsFirewallAdvanced

## SOP 1 – Get Firewall Status

### 1. Purpose

Retrieve the operational state of Windows Firewall across all profiles.

### 2. Scope

- **Domain, Private, and Public profiles**
- **Windows servers and workstations**

### 3. Preconditions

- **Operator must have permission to query firewall configuration**

### 4. Required Inputs

- **None**

### 5. Procedure Steps

- **Profile Enumeration** – Retrieve firewall state for all profiles.
- **Attribute Extraction** – Enabled/Disabled, inbound/outbound defaults.
- **Output Formatting** – Structured firewall status.
- **Logging** – Operator and timestamp.

## **6. Expected Output**

- Firewall status for all profiles

## **7. Error Handling**

- Access denied
- Firewall service unavailable

## **8. Security Considerations**

- Firewall state reveals security posture

## **9. Audit Logging Requirements**

- Operator ID
- Timestamp

## **10. Organizational Benefit Statement**

This procedure provides visibility into firewall posture, supporting compliance, security audits, and operational readiness.

# **SOP 2 – Enable Firewall Profile**

## **1. Purpose**

Enable Windows Firewall for a specified profile.

## **2. Scope**

- Domain, Private, and Public profiles

## **3. Preconditions**

- Operator must have administrative rights

## **4. Required Inputs**

- Profile name

## **5. Procedure Steps**

- Input Collection
- Profile Validation
- Enable Operation

- Post-Enable Verification
- Logging

## 6. Expected Output

- Firewall profile enabled

## 7. Error Handling

- Invalid profile
- Access denied

## 8. Security Considerations

- Enabling firewall may block existing connections

## 9. Audit Logging Requirements

- Operator ID
- Profile name
- Timestamp

## 10. Organizational Benefit Statement

This procedure ensures firewall protection is applied consistently, strengthening system security and compliance.

# SOP 3 – Disable Firewall Profile

## 1. Purpose

Disable Windows Firewall for a specified profile.

## 2. Scope

- Domain, Private, and Public profiles

## 3. Preconditions

- Operator must have administrative rights
- Action must be authorized by security

## 4. Required Inputs

- Profile name

## **5. Procedure Steps**

- **Input Collection**
- **Profile Validation**
- **Disable Operation**
- **Post-Disable Verification**
- **Logging**

## **6. Expected Output**

- Firewall profile disabled

## **7. Error Handling**

- Invalid profile
- Access denied

## **8. Security Considerations**

- Disabling firewall increases attack surface

## **9. Audit Logging Requirements**

- Operator ID
- Profile name
- Timestamp

## **10. Organizational Benefit Statement**

This procedure ensures firewall deactivation is controlled and auditable, supporting troubleshooting while maintaining accountability.

# **SOP 4 – List Firewall Rules**

## **1. Purpose**

Retrieve all firewall rules for inventory, troubleshooting, and compliance.

## **2. Scope**

- **Inbound and outbound rules**
- **Enabled and disabled rules**

### **3. Preconditions**

- Operator must have permission to query firewall rules

### **4. Required Inputs**

- Optional: Rule name filter

### **5. Procedure Steps**

- Input Collection
- Rule Enumeration
- Attribute Extraction – Name, direction, action, program, ports, profiles.
- Output Formatting
- Logging

### **6. Expected Output**

- List of firewall rules with metadata

### **7. Error Handling**

- Access denied
- Invalid filter

### **8. Security Considerations**

- Rules may reveal network architecture

### **9. Audit Logging Requirements**

- Operator ID
- Filter used
- Timestamp

### **10. Organizational Benefit Statement**

This procedure provides a complete view of firewall configuration, supporting audits, troubleshooting, and security reviews.

# SOP 5 – Create Firewall Rule

## 1. Purpose

Create a new inbound or outbound firewall rule.

## 2. Scope

- Windows servers and workstations

## 3. Preconditions

- Operator must have administrative rights
- Rule must comply with security policy

## 4. Required Inputs

- Rule name
- Direction (Inbound/Outbound)
- Action (Allow/Block)
- Protocol
- Port(s)
- Optional: Program path
- Optional: Profile(s)

## 5. Procedure Steps

- Input Collection
- Validation
- Rule Creation
- Post-Creation Verification
- Logging

## 6. Expected Output

- Firewall rule created successfully

## 7. Error Handling

- Invalid parameters

- Access denied

## 8. Security Considerations

- Incorrect rules may expose services or block critical traffic

## 9. Audit Logging Requirements

- Operator ID
- Rule name
- Timestamp

## 10. Organizational Benefit Statement

This procedure ensures firewall rules are created safely and consistently, supporting secure application access and network segmentation.

# SOP 6 – Remove Firewall Rule

## 1. Purpose

Delete a firewall rule safely and with full audit accountability.

## 2. Scope

- Inbound and outbound rules

## 3. Preconditions

- Operator must have administrative rights
- Rule must exist

## 4. Required Inputs

- Rule name

## 5. Procedure Steps

- Input Collection
- Rule Resolution
- Removal Operation
- Post-Removal Verification
- Logging

## **6. Expected Output**

- Firewall rule removed successfully

## **7. Error Handling**

- Rule not found
- Access denied

## **8. Security Considerations**

- Removing rules may expose services or break connectivity

## **9. Audit Logging Requirements**

- Operator ID
- Rule name
- Timestamp

## **10. Organizational Benefit Statement**

This procedure ensures firewall rules are removed cleanly and safely, preventing configuration drift and maintaining security posture.