

Guide to System Center Management Pack for Windows Print Server 2012 R2

Microsoft Corporation

Published: December, 2016

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Introduction

The Windows Server Print Server Management Pack monitors the performance and health of print servers running the Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, or Windows Server 2012 R2 operating systems. This management pack highlights performance, health, and availability conditions of Windows Server 2012 R2 that might indicate problems with print servers and shared printers.

Note:

The Windows Server Print Server Management Pack download includes management packs for the Print Server role on Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, and Windows Server 2012 R2 operating systems. The content in this guide applies to Windows Server 2012 R2 management pack unless otherwise stated.

### Document Version

This guide was written based on the 6.0.7055.0 version of the Print Server Management Pack.

### Supported Configurations

The Print Server Management Pack supports monitoring the Print Server role on the following operating systems:

 Windows Server 2003: All editions, including the 32-bit and 64-bit editions

 Windows Server 2008: All editions, including the 32-bit and 64-bit editions

 Windows Server 2008 R2: All editions, including the 32-bit and 64-bit editions

 Windows Server 2012: All editions

 Windows Server 2012 R2: All editions

Notes

 Not supported by Print Server Management Pack: Windows Server 2008 for Itanium-Based Systems and Windows Web Server 2008. The Print Server role is not available on those editions.

 Support for the operating systems in the preceding list is also subject to the [Microsoft Support Lifecycle policy](http://go.microsoft.com/fwlink/?Linkid=26134) (http://go.microsoft.com/fwlink/?Linkid=26134).

Getting Started

This section describes the actions you should take before you import the management pack, any steps you should take after you import the management pack, and information about customizations.

### Before You Import the Management Pack

Before you import the Print Server Management Pack, note the following limitations of the management pack:

 Currently, this management pack supports only monitoring clustered instances of the Print Server role installations on Microsoft Windows Server 2008. Clustered instances on Windows Server 2003 will not be discovered or monitored and are not supported by this management pack.

 This management pack includes support for low-privilege monitoring on Windows Server 2003 and Windows Server 2008 systems. See [Security Considerations for the Print Server Management Pack](#DSDOC_726559c8_4a2d_4cab_8ff1_80156f6a38) for more information about low-privilege configurations.

 The Print Server Management Pack includes support for agentless monitoring of the Print Server role however; the tasks provided in this management pack will not work on agentless managed systems and are therefore not supported.

Before you import the Print Server Management Pack, take the following into consideration:

 If you are deploying the Windows Server 2008–specific Print Server Management Pack, it requires certain management packs contained in the Windows Server Base Operating System Management Pack download. You need to download the Windows Server Base Operating System Management Pack and import the following management pack files before importing the Windows Server 2008–specific management pack for the Print Server role.

Note:

If you do not install the Windows Server Base Operating System Management Pack before you import the Print Server Management Pack, the import will fail, indicating that it cannot locate management packs upon which it is dependent.

 The Windows Server 2003–specific management pack Microsoft.Windows.Server.PrintServer.mp) requires that the [Microsoft Operations Manager 2005 Backward Compatibility Management Pack](http://go.microsoft.com/fwlink/?LinkId=98874) (http://go.microsoft.com/fwlink/?LinkId=98874) be at least version 6.0.5000.16.

Note:

If you do not install the updated Microsoft Operations Manager 2005 Backward Compatibility Management Pack before you install the Windows Server 2003–specific management pack, your installation will fail.

### Changes in Version 6.0.7055.0

Added “Known Issues and Troubleshooting” Appendix to the guide.

### Changes in Version 6.0.7055.0

Version 6.0.7055.0 of the Management Pack for Windows Print Server includes the following changes:

**Print Server 2012 R2:**

* Added support for monitoring the Print Server Role on Windows Server 2012 R2.

### Changes in Version 6.0.7004.0

Version 6.0.7004 of the Management Pack for Windows Print Server includes the following changes:

**Print Server Library:**

* Disabled and set visible to false for dashboard and performance views.

**Print Server 2003:**

* Fixed rule for collecting “jobs spooling”

**Print Server 2008:**

* Added support for monitoring the Print Server Role on Windows Server 2008 R2.

**Print Server 2012:**

* Added support for monitoring the Print Server Role on Windows Server 2012.

### Files in this Management Pack

To monitor Print Server, you must first download the Print Server Management Pack from the Management Pack Catalog, located at <http://go.microsoft.com/fwlink/?LinkId=82105>. The Print Server Management Pack includes the following files:

| **Management Pack Name** | **File** | **Description** |
| --- | --- | --- |
| Windows Server Print Server Library Management Pack | Microsoft.Windows.Server.PrintServer.Library.mp | This management pack contains the generic class definitions for the various version-specific Print Server Management Packs. This management pack is a prerequisite for the version-specific management packs and must be imported before or at the same time as the version-specific management packs. |
| Windows Server Print Server 2003 Management Pack | Microsoft.Windows.Server.PrintServer.mp | This management pack defines the classes, discoveries, rules, and monitors required for monitoring the Print Server role on Windows Server 2003 systems. In addition, this management pack defines tasks, views, and reports. |
| Windows Server Print Server 2008 Management Pack | Microsoft.Windows.Server.PrintServer.2008.mp | This management pack defines the classes, discoveries, rules, and monitors required for monitoring the Print Server role on Windows Server 2008, 2008 R2 systems. In addition, this management pack defines tasks and views. |
| Windows Server Print Server 2012 Management Pack | Microsoft.Windows.Server.PrintServer.2012.mp | This management pack defines the classes, discoveries, rules, and monitors required for monitoring the Print Server role on Windows Server 2012 systems. In addition, this management pack defines tasks and views. |
| Windows Server Print Server 2012 R2 Management Pack | Microsoft.Windows.Server.PrintServer.2012.R2.mp | This management pack defines the classes, discoveries, rules, and monitors required for monitoring the Print Server role on Windows Server 2012 R2 systems. In addition, this management pack defines tasks and views. |

### How to Import the Print Services Management Pack

For instructions about importing a management pack, see [How to Import a Management Pack in Operations Manager 2007](http://go.microsoft.com/fwlink/?LinkID=98348) (http://go.microsoft.com/fwlink/?LinkID=98348).

After the Print Server Management Pack is imported, perform the following step to finish your initial configuration:

 Create a new management pack in which you store overrides and other customizations.

### Create a New Management Pack for Customizations

Most vendor management packs are sealed so that you cannot change any of the original settings in the management pack file. However, you can create customizations, such as overrides or new monitoring objects, and save them to a different management pack. By default, Operations Manager 2007 R2 saves all customizations to the default management pack. As a best practice, you should instead create a separate management pack for each sealed management pack you want to customize.

Creating a new management pack for storing overrides has the following advantages:

 It simplifies the process of exporting customizations that were created in your test and pre-production environments to your production environment. For example, instead of exporting a default management pack that contains customizations from multiple management packs, you can export just the management pack that contains customizations of a single management pack.

 It allows you to delete the original management pack without first needing to delete the default management pack. A management pack that contains customizations is dependent on the original management pack. This dependency requires you to delete the management pack with customizations before you can delete the original management pack. If all of your customizations are saved to the default management pack, you must delete the default management pack before you can delete an original management pack.

 It is easier to track and update customizations to individual management packs.

For more information about sealed and unsealed management packs, see [Management Pack Formats](http://go.microsoft.com/fwlink/?LinkId=108355) (http://go.microsoft.com/fwlink/?LinkId=108355). For more information about management pack customizations and the default management pack, see [About Management Packs in Operations Manager 2007](http://go.microsoft.com/fwlink/?LinkId=108356) (http://go.microsoft.com/fwlink/?LinkId=108356).

### Security Considerations for the Print Server Management Pack

You might need to customize your management pack. This section provides information about using a low-privilege account with the Print Server Management Pack for Operations Manager 2007 R2.

Certain monitors, rules, discoveries, tasks, and recoveries cannot be run in a low-privilege environment or must have minimum permissions.

### Low-Privilege Environments

The Print Server Management Pack uses the agent action account to perform discovery and run monitors, rules, and tasks. The agent action account can run as Local System or as a named account. When running as Local System, the agent action account has the privileges needed to perform discovery and run monitors, rules, and tasks.

If the action account for the agent is using a low-privilege account, you need to configure the Print Server Action Account Run As profile with an account that has the appropriate rights to access the system(s). If you do not perform this configuration, discovery, monitoring, tasks, and recoveries will not function.

To use the Print Server Management Pack in low-privilege configuration, the agent Action Account must have the following minimum privileges:

 Member of the Local Users Group

 Member of the Local Performance Monitor Users group

 Manage auditing and security log permission (SeSecurityPrivilege)

 Allow log on locally permission (SeInteractiveLogonRight)

 Access rights to the Windows Event Log

The Print Server Management Pack is supported on computers running Windows Server 2003 and Windows Server 2008 using low-privileged accounts. However, you must configure the agent Action Account as described in the preceding section.

Notes

 Tasks are not supported in this configuration.

 Service-based monitors will fail to monitor in a low-privilege environment.

### Computer Groups

You can delegate authority to a precise level with user roles. For more information about user roles, see the "[About User Roles in Operations Manager 2007](http://go.microsoft.com/fwlink/?LinkId=108357)" topic in the Operations Manager 2007 Help (http://go.microsoft.com/fwlink/?LinkId=108357).

The following computer groups can be used for scoping and roles authorization:

| **Computer group** | **Description** |
| --- | --- |
| Windows 2008 Print Services Role | This computer group contains all Microsoft Windows 2008–based servers running the Print Service and that contain shared printers. |
| Windows Print Servers | This computer group contains all servers running the Print Service and that contain shared printers. |
| Windows 2003 Print Servers | This computer group contains all Windows 2003–based servers running the Print Service and that contain shared printers. |
| Windows Servers with Print Service | This computer group contains all servers running the Print Service, whether or not they contain shared printers. |
| Windows Server 2012 Print Services Role Group | This computer group contains all Microsoft Windows 2012–based servers running the Print Service and that contain shared printers. |
| Windows Server 2012 R2 Print Services Role Group | This computer group contains all Microsoft Windows 2012 R2–based servers running the Print Service and that contain shared printers. |

Understand the Management Pack Operations

In This Section:

[Classes the Management Pack Discovers](#DSDOC_675deaf4_74d3_4c98_9c3a_ade91f3017)

[Tasks](#DSDOC_379aef19_d788_4a75_a60a_15a611802c)

[Classes](#DSDOC_b496612e_ae64_4950_bebc_509e0b4f30)

[Configuring Monitoring Scenarios](#DSDOC_9fdce6d8_91bd_4159_8cbb_1c9db7112a)

[Placing Monitored Objects in Maintenance Mode](#DSDOC_ff8cf24b_7700_4ee7_87a0_3104aaec72)

### Classes the Management Pack Discovers

The Print Server Management Pack discovers the classes described in the following table. Not all of the classes are automatically discovered. Use overrides to discover those that are not discovered automatically. For information about discovering objects and classes, see the "[Object Discoveries in Operations Manager 2007](http://go.microsoft.com/fwlink/?LinkId=108505)" topic in Operations Manager 2007 Help (http://go.microsoft.com/fwlink/?LinkId=108505).

| **Name** | **Description** | **Management Pack** |
| --- | --- | --- |
| Windows Server Print Services 2012 R2 Printer Queue | All instances of Windows Server 2012 R2 Printer Queue | Windows Server Print Server 2012 R2 Management Pack |
| Windows Server Print Services 2012 R2 Role | All instances of the Windows Server Print Services 2012 R2 Role |
| Windows Server Print Services 2012 Printer Queue | All instances of Windows Server 2012 Printer Queue | Windows Server Print Server 2012 Management Pack |
| Windows Server Print Services 2012 Role | All instances of the Windows Server Print Services 2012 Role |
| Windows 2008 Print Services Role | All instances of the Windows 2008 Print Services Role. | Windows Server Print Server 2008 Management Pack |
| Windows 2008 Print Services Printer | All instances of Windows 2008 Printer. |
| Microsoft Windows 2003 Print Servers Installation | This computer group contains all Windows 2003 servers running the Print Service and that contain shared printers. | Windows Server Print Server 2003 Management Pack |
| Microsoft Windows Print Servers Installation | This computer group contains all Windows 2003 servers running the Print Service and that contain shared printers. |
| Microsoft Windows Servers with Print Service Installation | This computer group contains all servers running the Print Service, whether they contain shared printers or not. |
| Print Server | Print Server |
| Printer | Printer |

### Tasks

The following table shows the tasks performed by the Print Server Management Pack:

| **Task** | **Description** | **Applies to** |
| --- | --- | --- |
| Stop Print Spooler | Stops the Print Spooler Service | Print Server 2008,Print Server 2012, Print Server 2012 R2 |
| Start Print Spooler | Starts the Print Spooler Service |
| Resume all paused printers | Resumes jobs on all paused printers | Print Server 2003 |
| Delete all Print Jobs | Deletes all print jobs |

### Classes

The following tables describe the classes defined in this management pack.

Print Server 2012 R2 Classes

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Base Class | Description | ID |
| Windows Server 2012 R2 Print Services Role Group | Microsoft.SystemCenter.InstanceGroup | A group containing all Windows Server Print Services 2012 R2 Computers | Microsoft.Windows.Server.6.3.PrintServer.ComputerGroup |
| Windows Server Print Services 2012 R2 Printer Queue | Print Services Logical Printer | All instances of Windows Server 2012 R2 Printer Queue | Microsoft.Windows.Server.6.3.PrintServer.Printer |
| Windows Server Print Services 2012 R2 Role | Print Services Role | All instances of the Windows Server Print Services 2012 R2 Role | Microsoft.Windows.Server.6.3.PrintServerRole |

Print Server 2012 Classes

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Base Class | Description | ID |
| Windows Server 2012 Print Services Role Group | Microsoft.SystemCenter.InstanceGroup | A group containing all Windows Server Print Services 2012 Computers | Microsoft.Windows.Server.6.2.PrintServer.ComputerGroup |
| Windows Server Print Services 2012 Printer Queue | Print Services Logical Printer | All instances of Windows Server 2012 Printer Queue | Microsoft.Windows.Server.6.2.PrintServer.Printer |
| Windows Server Print Services 2012 Role | Print Services Role | All instances of the Windows Server Print Services 2012 Role | Microsoft.Windows.Server.6.2.PrintServerRole |

Print Server 2008 Classes

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Base Class | Description | ID |
| Windows 2008 Print Services Role Group | Microsoft.SystemCenter.InstanceGroup | A group containing all Windows 2008 Print Services Computers | Microsoft.Windows.Server.2008.PrintServer.ComputerGroup |
| Windows 2008 Print Services Printer Queue | Print Services Logical Printer | All instances of Windows 2008 Printer | Microsoft.Windows.Server.2008.PrintServer.Printer |
| Windows 2008 Print Services Role | Print Services Role | All instances of the Windows 2008 Print Services Role | Microsoft.Windows.Server.2008.PrintServerRole |

Print Server 2003 Classes

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Base Class** | **Description** | **ID** |
| Microsoft Windows 2003 Print Servers Installation | Print Services Role | This computer group contains all Windows 2003 servers, running the Print Service, and which contain shared printers. | Microsoft.Windows.Server.PrintServer.Microsoft\_Windows\_2003\_Print\_Servers\_Installation |
| Microsoft Windows 2003 Print Servers Computer Group | Microsoft.SystemCenter.InstanceGroup | This computer group contains all Windows 2003 servers, running the Print Service, and which contain shared printers. | Microsoft.Windows.Server.PrintServer.Microsoft\_Windows\_2003\_Print\_Servers\_ComputerGroup |
| Print Server | Microsoft.Windows.ComputerRole | Print Server | Microsoft.Windows.Server.PrintServer.Print\_Server\_Class |
| Printer | Microsoft.Windows.ApplicationComponent | Printer | Microsoft.Windows.Server.PrintServer.Printer\_Class |

**Print Server Library Classes**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Base Class** | **Description** | **ID** |
| Print Services Role | Microsoft.Windows.ComputerRole | All instances of Print Services regardless of version. | Microsoft.Windows.Server.PrintServer.Library.PrintServicesRole |
| Print Services Role Computer Group | Microsoft.SystemCenter.ComputerGroup | A group containing the Print Services Role regardless of version. | Microsoft.Windows.Server.PrintServer.Library.PrintServices.ComputerGroup |
| Print Services Instance Group | Microsoft.SystemCenter.InstanceGroup | A group containing all instances related to Print Services regardless of version. | Microsoft.Windows.Server.PrintServer.Library.InstancesGroup |
| Print Services Logical Printer | Microsoft.Windows.ApplicationComponent | All Printers regardless of version. | Microsoft.Windows.Server.PrintServer.Library.Printer |

### Configuring Monitoring Scenarios

The following table lists any configurable monitoring scenarios and indicates which elements of the monitoring scenario can be modified. The table also indicates whether additional configuration is necessary to use the monitoring scenario.

| **Scenario** | **Configurable Elements** | **Additional Configuration Required?** |
| --- | --- | --- |
| Monitoring of Print Service restarts | Enable the Print Server: Document failed to print because of corruption rule.The Print Spooler Service usually automatically restarts when this problem occurs, and there is no need for further intervention. If you need to monitor those occurrences, you should enable this rule. | No |
| State monitoring | Configure the Print Server — State Monitoring script parameters in the Run State Monitoring event rule. This rule is included in the Windows 2003 Print Server rule groups. See [Appendix: Scripts for the Print Server Management Pack](#DSDOC_8f72da46_14c6_4dd5_9f7b_142c63ec9b) for more information. | No |

Many of the monitoring scenarios are configured by changing parameters of scripts that are associated with an event rule. If it is necessary to change a script parameter, you must change the script parameter within the event rule rather than making the change directly to the script that is listed under the Scripts node in the Operations Manager Administrator console. Changing a parameter of a script within the Scripts node does not change the value of the parameter for event rules that are associated with the script.

Monitoring for Line Printer Daemon (LPD) Service

Monitoring for the LPD Service has been disabled by default. To monitor LPD Service, you need to enable the following monitors:

| **Name** | **Configuration** |
| --- | --- |
| LPD Service: Use an account with the Manage Documents permissionsLPD Service: Restart the LPD ServiceLPD Service: The Line Printer Daemon (LPD) Service failed to startLPD Service: Use a different Line Printer Remote (LPR) clientLPD Service: Specify the correct printer name |

| **Property** | **Default** | **Override** |
| --- | --- | --- |
| Enabled | False | Create an override to set this value to true if LPD Service has been installed on the monitored server. |

 |
| Service State Monitor |

| **Property** | **Default** | **Override** |
| --- | --- | --- |
| Enabled | False | Create an override to set this value to true if LPD Service has been installed on the monitored server. |
| Alert only if the service type is automatic. | False | Create an override to set this value to true if you do not want to receive alerts when the TCP/IP service is set to manual. |

 |
| Print Spooler: Service State Monitor |

| **Property** | **Default** | **Override** |
| --- | --- | --- |
| Alert only if the service type is automatic. | False | Create an override to set this value to true if you do not want to receive alerts when the Print Spooler service is set to manual. |

 |

Monitoring for TCP/IP Port and LPR Service

Monitoring for TCP/IP Port and LPR Service has been disabled by default. To monitor these components, you need to enable the following monitors:

| **Name** | **Configuration** |
| --- | --- |
| LPR Service: Cannot read or write registry settingsLPR Service: Get the spool folderLPR Service: Retry printingPerformance Monitoring: Print Queue\Total Jobs printedPerformance Monitoring: Print Queue\Total Pages printed |

| **Property** | **Default** | **Override** |
| --- | --- | --- |
| Enabled | False | Create an override to set this value to true if the LPR Port Monitor feature has been installed on the monitored server. |

 |
| Printer Connections: Retry printing or restart print spooler |

| **Property** | **Default** | **Override** |
| --- | --- | --- |
| Enabled | False | Create an override to set this value to true if the customer wants to monitor printer connections. |

 |
| TCP/IP Printer Port: Close programs or restart the print serverTCP/IP Printer Port: Correct network issuesTCP/IP Printer Port: Delete unnecessary files or add disk space |

| **Property** | **Default** | **Override** |
| --- | --- | --- |
| Enabled | False | Create an override to set this value to true if TCP/IP Service has been installed and needs to be monitored. |

 |

### Placing Monitored Objects in Maintenance Mode

When a monitored object, such as a computer or distributed application, goes offline for maintenance, Operations Manager detects that no agent heartbeat is being received and, as a result, might generate numerous alerts and notifications. To prevent alerts and notifications, place the monitored object into maintenance mode. In maintenance mode, alerts, notifications, rules, monitors, automatic responses, state changes, and new alerts are suppressed at the agent.

For general instructions on placing a monitored object in maintenance mode, see [How to Put a Monitored Object into Maintenance Mode in Operations Manager 2007](http://go.microsoft.com/fwlink/?LinkId=108358) (http://go.microsoft.com/fwlink/?LinkId=108358).

Appendix I: Rules and Monitors for the Print Server Management Pack

This section provides details around the rules and monitors in the Print Server Management Pack

### Rules

**Print Server 2012 R2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Target** | **Category** | **Enabled** |
| TCP/IP Printer Port: Delete unnecessary files or add disk space | Windows Server Print Services 2012 R2 Role | Alert | False |
| Print Migration Registry Access: Ensure the server is accessible | Windows Server Print Services 2012 R2 Role | Alert | True |
| Print Color Profile Configuration: Manually install the color profile | Windows Server Print Services 2012 R2 Printer Queue | Alert | True |
| Print Filter Pipeline Manager: Retry printing or restart the print server | Windows Server Print Services 2012 R2 Role | Alert | True |
| Print Processor: Install the Printer Driver | Windows Server Print Services 2012 R2 Printer Queue | Alert | True |
| Shared Printer: Restart the print spooler fix sharing problems and check Group Policy | Windows Server Print Services 2012 R2 Printer Queue | Alert | True |
| Shared Printer: Restart the print spooler and unshare the printer | Windows Server Print Services 2012 R2 Printer Queue | Alert | True |
| Failover Cluster Printer Driver Upgrade: Update the printer driver | Windows Server Print Services 2012 R2 Role | Alert | True |
| Printer Connections: Check Group Policy and network connectivity | Windows Server Print Services 2012 R2 Role | Alert | True |
| Printer Connections: Try again or install an updated printer driver | Windows Server Print Services 2012 R2 Role | Alert | True |
| Printer Connections: Check network connectivity and Group Policy | Windows Server Print Services 2012 R2 Role | Alert | True |
| Printer Connections: Retry printing or restart the print spooler | Windows Server Print Services 2012 R2 Role | Alert | False |
| Print Router: Check resource availability | Windows Server Print Services 2012 R2 Role | Alert | True |
| Performance Measuring: Print Queue\Jobs | Windows Server Print Services 2012 R2 Role | PerformanceCollection | True |
| Performance Measuring: Print Queue\Jobs Spooling | Windows Server Print Services 2012 R2 Role | PerformanceCollection | True |
| Performance Measuring: Print Queue\Total Jobs Printed | Windows Server Print Services 2012 R2 Role | PerformanceCollection | True |
| Performance Measuring: Print Queue\Total Pages Printed | Windows Server Print Services 2012 R2 Role | PerformanceCollection | True |

**Print Server 2012**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Target** | **Category** | **Enabled** |
| TCP/IP Printer Port: Delete unnecessary files or add disk space | Windows Server Print Services 2012 Role | Alert | False |
| Print Migration Registry Access: Ensure the server is accessible | Windows Server Print Services 2012 Role | Alert | True |
| Print Color Profile Configuration: Manually install the color profile | Windows Server Print Services 2012 Printer Queue | Alert | True |
| Print Filter Pipeline Manager: Retry printing or restart the print server | Windows Server Print Services 2012 Role | Alert | True |
| Print Processor: Install the Printer Driver | Windows Server Print Services 2012 Printer Queue | Alert | True |
| Shared Printer: Restart the print spooler fix sharing problems and check Group Policy | Windows Server Print Services 2012 Printer Queue | Alert | True |
| Shared Printer: Restart the print spooler and unshare the printer | Windows Server Print Services 2012 Printer Queue | Alert | True |
| Failover Cluster Printer Driver Upgrade: Update the printer driver | Windows Server Print Services 2012 Role | Alert | True |
| Printer Connections: Check Group Policy and network connectivity | Windows Server Print Services 2012 Role | Alert | True |
| Printer Connections: Try again or install an updated printer driver | Windows Server Print Services 2012 Role | Alert | True |
| Printer Connections: Check network connectivity and Group Policy | Windows Server Print Services 2012 Role | Alert | True |
| Printer Connections: Retry printing or restart the print spooler | Windows Server Print Services 2012 Role | Alert | False |
| Print Router: Check resource availability | Windows Server Print Services 2012 Role | Alert | True |
| Performance Measuring: Print Queue\Jobs | Windows Server Print Services 2012 Role | PerformanceCollection | True |
| Performance Measuring: Print Queue\Jobs Spooling | Windows Server Print Services 2012 Role | PerformanceCollection | True |
| Performance Measuring: Print Queue\Total Jobs Printed | Windows Server Print Services 2012 Role | PerformanceCollection | True |
| Performance Measuring: Print Queue\Total Pages Printed | Windows Server Print Services 2012 Role | PerformanceCollection | True |

**Print Server 2008/2008 R2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Target** | **Category** | **Enabled** |
| LPR Service: Retry Printing  | Windows 2008 Print Services Role | Alert | False |
| LPR Service: Cannot Read or Write Registry Settings | Windows 2008 Print Services Role | Alert | False |
| LPR Service: Check the spool folder | Windows 2008 Print Services Role | Alert | False |
| TCP/IP Printer Port: Correct network issues | Windows 2008 Print Services Role | Alert | False |
| TCP/IP Printer Port: Close programs or restart the print server | Windows 2008 Print Services Role | Alert | False |
| TCP/IP Printer Port: Delete unnecessary files or add disk space | Windows 2008 Print Services Role | Alert | False |
| Print Migration Registry Access: Ensure the server is accessible | Windows 2008 Print Services Role | Alert | True |
| Print Color Profile Configuration: Manually install the color profile | Windows 2008 Print Services Printer Queue | Alert | True |
| Print Color Profile Configuration: Manually install the color profile (Windows Server 2008 R2) | Windows 2008 Print Services Printer Queue | Alert | True |
| Print Filter Pipeline Manager: Retry printing or restart the print server | Windows 2008 Print Services Role | Alert | True |
| Print Processor: Install the Printer Driver | Windows 2008 Print Services Printer Queue | Alert | True |
| Print Processor: Install the Printer Driver (Windows Server 2008 R2) | Windows 2008 Print Services Printer Queue | Alert | True |
| Shared Printer: Restart the print spooler fix sharing problems and check Group Policy | Windows 2008 Print Services Printer Queue | Alert | True |
| Shared Printer: Restart the print spooler fix sharing problems and check Group Policy (Windows Server 2008 R2) | Windows 2008 Print Services Printer Queue | Alert | True |
| Shared Printer: Restart the print spooler and unshare the printer | Windows 2008 Print Services Printer Queue | Alert | True |
| Shared Printer: Restart the print spooler and unshare the printer (Windows Server 2008 R2) | Windows 2008 Print Services Printer Queue | Alert | True |
| Failover Cluster Printer Driver Upgrade: Update the printer driver | Windows 2008 Print Services Role | Alert | True |
| Failover Cluster Printer Driver Upgrade: Update the printer driver (Windows Server 2008 R2) | Windows 2008 Print Services Role | Alert | True |
| Failover Cluster Published Printers: Apply the correct permissions to the user account | Windows 2008 Print Services Role | Alert | True |
| Printer Connections: Check Group Policy and network connectivity | Windows 2008 Print Services Role | Alert | True |
| Printer Connections: Check Group Policy and network connectivity (Windows Server 2008 R2) | Windows 2008 Print Services Role | Alert | True |
| Printer Connections: Try again or install an updated printer driver | Windows 2008 Print Services Role | Alert | True |
| Printer Connections: Try again or install an updated printer driver (Windows Server 2008 R2) | Windows 2008 Print Services Role | Alert | True |
| Printer Connections: Check network connectivity and Group Policy | Windows 2008 Print Services Role | Alert | True |
| Printer Connections: Check network connectivity and Group Policy (Windows Server 2008 R2) | Windows 2008 Print Services Role | Alert | True |
| Printer Connections: Retry printing or restart the print spooler | Windows 2008 Print Services Role | Alert | False |
| Printer Connections: Retry printing or restart the print spooler (Windows Server 2008 R2) | Windows 2008 Print Services Role | Alert | False |
| Print Router: Restart the server or troubleshoot hardware problems | Windows 2008 Print Services Role | Alert | True |
| Print Router: Check resource availability | Windows 2008 Print Services Role | Alert | True |
| Print Router: Check resource availability (Windows Server 2008 R2) | Windows 2008 Print Services Role | Alert | True |
| Performance Measuring: Print Queue\Job Errors | Windows 2008 Print Services Printer Queue | PerformanceCollection | False |
| Performance Measuring: Print Queue\Jobs | Windows 2008 Print Services Printer Queue | PerformanceCollection | True |
| Performance Measuring: Print Queue\Jobs Spooling | Windows 2008 Print Services Printer Queue | PerformanceCollection | True |
| Performance Measuring: Print Queue\Not Ready Errors | Windows 2008 Print Services Printer Queue | PerformanceCollection | False |
| Performance Measuring: Print Queue\Out Of Paper Errors | Windows 2008 Print Services Printer Queue | PerformanceCollection | False |
| Performance Measuring: Print Queue\Total Jobs Printed | Windows 2008 Print Services Printer Queue | PerformanceHealth | True |
| Performance Measuring: Print Queue\Total Pages Printed | Windows 2008 Print Services Printer Queue | PerformanceCollection | True |

**Print Server 2003**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Target** | **Category** | **Enabled** |
| Optimized Perf. Collection: Print Queue\Job Errors | Microsoft Windows 2003 Print Servers Installation | PerformanceCollection | True |
| Optimized Perf. Collection: Print Queue\Jobs | Microsoft Windows 2003 Print Servers Installation | PerformanceCollection | True |
| Optimized Perf. Collection: Print Queue\Jobs Spooling | Microsoft Windows 2003 Print Servers Installation | PerformanceCollection | True |
| Optimized Perf. Collection: Print Queue\Not Ready Errors | Microsoft Windows 2003 Print Servers Installation | PerformanceCollection | True |
| Optimized Perf. Collection: Print Queue\Out Of Paper Errors | Microsoft Windows 2003 Print Servers Installation | PerformanceCollection | False |
| Optimized Perf. Collection: Print Queue\Total Jobs Printed | Microsoft Windows 2003 Print Servers Installation | PerformanceCollection | True |
| Optimized Perf. Collection: Print Queue\Total Pages Printed | Microsoft Windows 2003 Print Servers Installation | PerformanceCollection | True |
| Print Server: Too many documents failed to print because of access violation in 15 minutes. | Microsoft Windows 2003 Print Servers Installation | EventCollection | True |
| Print Server: Can't print | Microsoft Windows 2003 Print Servers Installation | EventCollection | True |
| Print Server: Document failed to print because of corruption | Microsoft Windows 2003 Print Servers Installation | EventCollection | False |
| Print Server: Failed to upgrade | Microsoft Windows 2003 Print Servers Installation | EventCollection | True |
| Print Server: Large Number of threads | Microsoft Windows 2003 Print Servers Installation | PerformanceHealth | True |
| Print Server: Too many documents failed to print because of access violations in 15 minutes | Microsoft Windows 2003 Print Servers Installation | EventCollection | True |
| Printer: Failed to initialize because a suitable driver could not be found | Microsoft Windows 2003 Print Servers Installation | EventCollection | True |
| Printer: Failed to initialize its ports | Microsoft Windows 2003 Print Servers Installation | EventCollection | True |
| Printer: Failed to upgrade driver on clustered spooler | Microsoft Windows 2003 Print Servers Installation | EventCollection | True |
| Printer: Publish Error | Microsoft Windows 2003 Print Servers Installation | EventCollection | True |
| Printer: Publish Error | Microsoft Windows 2003 Print Servers Installation | EventCollection | True |
| Spooler: Print sharing failed | Microsoft Windows 2003 Print Servers Installation | EventCollection | True |
| Spooler: Upgrade Error | Microsoft Windows 2003 Print Servers Installation | EventCollection | True |
| Too many printing failures in 15 minutes | Microsoft Windows 2003 Print Servers Installation | EventCollection | True |
| Too many printing failures in 15 minutes | Microsoft Windows 2003 Print Servers Installation | EventCollection | True |

### Monitors

**Print Server 2012 R2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Target** | **Category** | **Enabled** |
| LPD Service: Service Status Monitor | Windows Server Print Services 2012 R2 Role | StateCollection | False |
| LPD Service: Choose a supported data type | Windows Server Print Services 2012 R2 Role | StateCollection | False |
| LPD Service: The Line Printer Daemon (LPD) service failed to start | Windows Server Print Services 2012 R2 Role | StateCollection | False |
| LPD Service: Restart the LPD service | Windows Server Print Services 2012 R2 Role | StateCollection | False |
| LPD Service: Specify the correct printer name | Windows Server Print Services 2012 R2 Role | StateCollection | False |
| LPD Service: Use a different LPR client | Windows Server Print Services 2012 R2 Role | StateCollection | False |
| LPD Service: Use an account with the Manage Documents permissions | Windows Server Print Services 2012 R2 Role | StateCollection | False |
| Printer Driver Installation: Install an approved driver | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Printer Driver Installation: Install an updated driver | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Printer Driver Installation: Set printing defaults | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Printer Driver Installation: Start the offline operating system and reinstall the printer | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Printer Forms Migration: Check permissions and reimport or recreate missing forms | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Migration Export: Confirm the separator file path and retry exporting printers | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Migration Export: Install a compatible printer driver | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Migration Export: Specify a location with sufficient disk space and permissions | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Migration Import or Export: Install the Print Services role or share a printer | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Migration Import or Export: Manually delete temporary files | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Migration Import or Export: Test printing and then reinstall drivers or retry migration | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Migration Import: Check the permissions and retry the print queue export | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Migration Import: Check the printer driver settings | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Migration Import: Confirm the separator file path and retry exporting printers | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Migration Import: Install a compatible printer driver | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Migration Import: Install a printer driver that matches the servers processor architecture | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Migration Import: Install a printer port and restore the print queue settings | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Migration Import: Recreate custom spooler settings | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Migration Import: Retry publishing the printer | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Migration Import: Start the print spooler and reinstall the printer driver | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Migration Port Import: Recreate the printer port | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| AD DS Printer Publishing: Allow the spooler to republish the print queue | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| AD DS Printer Publishing: Allow the spooler to retry pruning the printer | Windows Server Print Services 2012 R2 Printer Queue | StateCollection | True |
| AD DS Printer Publishing: Failed to write to AD DS while listing, removing, or updating a printer | Windows Server Print Services 2012 R2 Printer Queue | StateCollection | True |
| AD DS Printer Publishing: Troubleshoot connectivity with a domain controller | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Job: Check the printer and driver and then retry printing | Windows Server Print Services 2012 R2 Printer Queue | StateCollection | True |
| Print Job: Restart the Print Spooler service or reinstall the printer driver | Windows Server Print Services 2012 R2 Printer Queue | StateCollection | True |
| Print Job: Restart the Print Spooler service or reinstall the printer driver | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Queue: Recreate the printer port | Windows Server Print Services 2012 R2 Printer Queue | StateCollection | True |
| Print Spooler: Check printer security settings | Windows Server Print Services 2012 R2 Printer Queue | StateCollection | True |
| Print Spooler: Check Windows resources | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Spooler: Install or reinstall the printer driver | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Spooler: The print spooler failed to complete a task | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Spooler: Recreate the port and monitor | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Spooler: Reinstall the printer driver check registry permissions and restart the print spooler | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Spooler: Restart the Print Spooler service | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Spooler: Restart the server or troubleshoot hardware problems | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Spooler: Retry printing or restart the print spooler | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Spooler: Service Status Monitor | Windows Server Print Services 2012 R2 Role | StateCollection | True |
| Print Server 2012 R2 Queue Job Errors | Windows Server Print Services 2012 R2 Printer Queue | PerformanceHealth | True |
| Print Server 2012 R2 Queue Not Ready Errors | Windows Server Print Services 2012 R2 Printer Queue | PerformanceHealth | True |
| Print Server 2012 R2 Queue Out Of Paper Errors | Windows Server Print Services 2012 R2 Printer Queue | PerformanceHealth | True |

**Print Server 2012**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Target** | **Category** | **Enabled** |
| LPD Service: Service Status Monitor | Windows Server Print Services 2012 Role | StateCollection | False |
| LPD Service: Choose a supported data type | Windows Server Print Services 2012 Role | StateCollection | False |
| LPD Service: The Line Printer Daemon (LPD) service failed to start | Windows Server Print Services 2012 Role | StateCollection | False |
| LPD Service: Restart the LPD service | Windows Server Print Services 2012 Role | StateCollection | False |
| LPD Service: Specify the correct printer name | Windows Server Print Services 2012 Role | StateCollection | False |
| LPD Service: Use a different LPR client | Windows Server Print Services 2012 Role | StateCollection | False |
| LPD Service: Use an account with the Manage Documents permissions | Windows Server Print Services 2012 Role | StateCollection | False |
| Printer Driver Installation: Install an approved driver | Windows Server Print Services 2012 Role | StateCollection | True |
| Printer Driver Installation: Install an updated driver | Windows Server Print Services 2012 Role | StateCollection | True |
| Printer Driver Installation: Set printing defaults | Windows Server Print Services 2012 Role | StateCollection | True |
| Printer Driver Installation: Start the offline operating system and reinstall the printer | Windows Server Print Services 2012 Role | StateCollection | True |
| Printer Forms Migration: Check permissions and reimport or recreate missing forms | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Migration Export: Confirm the separator file path and retry exporting printers | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Migration Export: Install a compatible printer driver | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Migration Export: Specify a location with sufficient disk space and permissions | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Migration Import or Export: Install the Print Services role or share a printer | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Migration Import or Export: Manually delete temporary files | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Migration Import or Export: Test printing and then reinstall drivers or retry migration | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Migration Import: Check the permissions and retry the print queue export | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Migration Import: Check the printer driver settings | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Migration Import: Confirm the separator file path and retry exporting printers | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Migration Import: Install a compatible printer driver | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Migration Import: Install a printer driver that matches the servers processor architecture | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Migration Import: Install a printer port and restore the print queue settings | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Migration Import: Recreate custom spooler settings | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Migration Import: Retry publishing the printer | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Migration Import: Start the print spooler and reinstall the printer driver | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Migration Port Import: Recreate the printer port | Windows Server Print Services 2012 Role | StateCollection | True |
| AD DS Printer Publishing: Allow the spooler to republish the print queue | Windows Server Print Services 2012 Role | StateCollection | True |
| AD DS Printer Publishing: Allow the spooler to retry pruning the printer | Windows Server Print Services 2012 Printer Queue | StateCollection | True |
| AD DS Printer Publishing: Failed to write to AD DS while listing, removing, or updating a printer | Windows Server Print Services 2012 Printer Queue | StateCollection | True |
| AD DS Printer Publishing: Troubleshoot connectivity with a domain controller | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Job: Check the printer and driver and then retry printing | Windows Server Print Services 2012 Printer Queue | StateCollection | True |
| Print Job: Restart the Print Spooler service or reinstall the printer driver | Windows Server Print Services 2012 Printer Queue | StateCollection | True |
| Print Job: Restart the Print Spooler service or reinstall the printer driver | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Queue: Recreate the printer port | Windows Server Print Services 2012 Printer Queue | StateCollection | True |
| Print Spooler: Check printer security settings | Windows Server Print Services 2012 Printer Queue | StateCollection | True |
| Print Spooler: Check Windows resources | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Spooler: Install or reinstall the printer driver | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Spooler: The print spooler failed to complete a task | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Spooler: Recreate the port and monitor | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Spooler: Reinstall the printer driver check registry permissions and restart the print spooler | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Spooler: Restart the Print Spooler service | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Spooler: Restart the server or troubleshoot hardware problems | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Spooler: Retry printing or restart the print spooler | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Spooler: Service Status Monitor | Windows Server Print Services 2012 Role | StateCollection | True |
| Print Server 2012 Queue Job Errors | Windows Server Print Services 2012 Printer Queue | PerformanceHealth | True |
| Print Server 2012 Queue Not Ready Errors | Windows Server Print Services 2012 Printer Queue | PerformanceHealth | True |
| Print Server 2012 Queue Out Of Paper Errors | Windows Server Print Services 2012 Printer Queue | PerformanceHealth | True |

**Print Server 2008/2008 R2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Target** | **Category** | **Enabled** |
| LPD Service: Service Status Monitor | Windows 2008 Print Services Role | StateCollection | False |
| LPD Service: Choose a supported data type | Windows 2008 Print Services Role | StateCollection | False |
| LPD Service: The Line Printer Daemon (LPD) service failed to start | Windows 2008 Print Services Role | StateCollection | False |
| LPD Service: Restart the LPD service | Windows 2008 Print Services Role | StateCollection | False |
| LPD Service: Specify the correct printer name | Windows 2008 Print Services Role | StateCollection | False |
| LPD Service: Use a different LPR client | Windows 2008 Print Services Role | StateCollection | False |
| LPD Service: Use an account with the Manage Documents permissions | Windows 2008 Print Services Role | StateCollection | False |
| Printer Driver Installation: Install an approved driver | Windows 2008 Print Services Role | StateCollection | True |
| Printer Driver Installation: Install an approved driver (Windows Server 2008 R2) | Windows 2008 Print Services Role | StateCollection | False |
| Printer Driver Installation: Install an updated driver | Windows 2008 Print Services Role | StateCollection | True |
| Printer Driver Installation: Install an updated driver (Windows Server 2008 R2) | Windows 2008 Print Services Role | StateCollection | False |
| Printer Driver Installation: Set printing defaults | Windows 2008 Print Services Role | StateCollection | True |
| Printer Driver Installation: Set printing defaults (Windows Server 2008 R2) | Windows 2008 Print Services Role | StateCollection | False |
| Printer Driver Installation: Start the offline operating system and reinstall the printer | Windows 2008 Print Services Role | StateCollection | True |
| Printer Driver Installation: Start the offline operating system and reinstall the printer (Windows Server 2008 R2) | Windows 2008 Print Services Role | StateCollection | False |
| Printer Forms Migration: Check permissions and reimport or recreate missing forms | Windows 2008 Print Services Role | StateCollection | True |
| Print Migration Export: Confirm the separator file path and retry exporting printers | Windows 2008 Print Services Role | StateCollection | True |
| Print Migration Export: Install a compatible printer driver | Windows 2008 Print Services Role | StateCollection | True |
| Print Migration Export: Specify a location with sufficient disk space and permissions | Windows 2008 Print Services Role | StateCollection | True |
| Print Migration Import or Export: Install the Print Services role or share a printer | Windows 2008 Print Services Role | StateCollection | True |
| Print Migration Import or Export: Manually delete temporary files | Windows 2008 Print Services Role | StateCollection | True |
| Print Migration Import or Export: Test printing and then reinstall drivers or retry migration | Windows 2008 Print Services Role | StateCollection | True |
| Print Migration Import: Check the permissions and retry the print queue export | Windows 2008 Print Services Role | StateCollection | True |
| Print Migration Import: Check the printer driver settings | Windows 2008 Print Services Role | StateCollection | True |
| Print Migration Import: Confirm the separator file path and retry exporting printers | Windows 2008 Print Services Role | StateCollection | True |
| Print Migration Import: Install a compatible printer driver | Windows 2008 Print Services Role | StateCollection | True |
| Print Migration Import: Install a printer driver that matches the servers processor architecture | Windows 2008 Print Services Role | StateCollection | True |
| Print Migration Import: Install a printer port and restore the print queue settings | Windows 2008 Print Services Role | StateCollection | True |
| Print Migration Import: Recreate custom spooler settings | Windows 2008 Print Services Role | StateCollection | True |
| Print Migration Import: Retry publishing the printer | Windows 2008 Print Services Role | StateCollection | True |
| Print Migration Import: Start the print spooler and reinstall the printer driver | Windows 2008 Print Services Role | StateCollection | True |
| Print Migration Port Import: Recreate the printer port | Windows 2008 Print Services Role | StateCollection | True |
| AD DS Printer Publishing: Allow the spooler to republish the print queue | Windows 2008 Print Services Role | StateCollection | True |
| AD DS Printer Publishing: Allow the spooler to republish the print queue (Windows Server 2008 R2) | Windows 2008 Print Services Role | StateCollection | False |
| AD DS Printer Publishing: Allow the spooler to retry pruning the printer | Windows 2008 Print Services Printer Queue | StateCollection | True |
| AD DS Printer Publishing: Allow the spooler to retry pruning the printer (Windows Server 2008 R2) | Windows 2008 Print Services Printer Queue | StateCollection | False |
| AD DS Printer Publishing: Failed to write to AD DS while listing, removing, or updating a printer | Windows 2008 Print Services Role | StateCollection | True |
| AD DS Printer Queue Publishing: Failed to write to AD DS while listing, removing, or updating a printer | Windows 2008 Print Services Printer Queue | StateCollection | True |
| AD DS Printer Queue Publishing: Failed to write to AD DS while listing, removing, or updating a printer (Windows Server 2008 R2) | Windows 2008 Print Services Printer Queue | StateCollection | False |
| AD DS Printer Publishing: Failed to write to AD DS while listing, removing, or updating a printer (Windows Server 2008 R2) | Windows 2008 Print Services Role | StateCollection | False |
| AD DS Printer Publishing: Troubleshoot connectivity with a domain controller | Windows 2008 Print Services Role | StateCollection | True |
| AD DS Printer Publishing: Troubleshoot connectivity with a domain controller (Windows Server 2008 R2) | Windows 2008 Print Services Role | StateCollection | False |
| Print Job: Check the printer and driver and then retry printing | Windows 2008 Print Services Printer Queue | StateCollection | True |
| Print Job: Check the printer and driver and then retry printing (Windows Server 2008 R2) | Windows 2008 Print Services Printer Queue | StateCollection | False |
| Print Job: Print from another computer and troubleshoot driver versions | Windows 2008 Print Services Role | StateCollection | True |
| Print Queue Job: Restart the Print Spooler service or reinstall the printer driver | Windows 2008 Print Services Printer Queue | StateCollection | True |
| Print Job: Restart the Print Spooler service or reinstall the printer driver | Windows 2008 Print Services Role | StateCollection | True |
| Print Queue Job: Restart the Print Spooler service or reinstall the printer driver (Windows Server 2008 R2) | Windows 2008 Print Services Printer Queue | StateCollection | False |
| Print Job: Restart the Print Spooler service or reinstall the printer driver (Windows Server 2008 R2) | Windows 2008 Print Services Role | StateCollection | False |
| Print Queue: Recreate the printer port | Windows 2008 Print Services Printer Queue | StateCollection | True |
| Print Queue: Recreate the printer port (Windows Server 2008 R2) | Windows 2008 Print Services Printer Queue | StateCollection | False |
| Print Spooler: Check printer security settings | Windows 2008 Print Services Role | StateCollection | True |
| Print Spooler: Check printer security settings (Windows Server 2008 R2) | Windows 2008 Print Services Role | StateCollection | False |
| Print Spooler: Check Windows resources | Windows 2008 Print Services Role | StateCollection | True |
| Print Spooler: Check Windows resources (Windows Server 2008 R2) | Windows 2008 Print Services Role | StateCollection | False |
| Print Spooler: Install or reinstall the printer driver | Windows 2008 Print Services Role | StateCollection | True |
| Print Spooler: Install or reinstall the printer driver (Windows Server 2008 R2) | Windows 2008 Print Services Role | StateCollection | False |
| Print Spooler: The print spooler failed to complete a task | Windows 2008 Print Services Role | StateCollection | True |
| Print Spooler: The print spooler failed to complete a task (Windows Server 2008 R2) | Windows 2008 Print Services Role | StateCollection | False |
| Print Spooler: Recreate the port and monitor | Windows 2008 Print Services Role | StateCollection | True |
| Print Spooler: Recreate the port and monitor (Windows Server 2008 R2) | Windows 2008 Print Services Role | StateCollection | False |
| Print Spooler: Reinstall the printer driver check registry permissions and restart the print spooler | Windows 2008 Print Services Role | StateCollection | True |
| Print Spooler: Reinstall the printer driver check registry permissions and restart the print spooler (Windows Server 2008 R2) | Windows 2008 Print Services Role | StateCollection | False |
| Print Spooler: Restart the Print Spooler service | Windows 2008 Print Services Role | StateCollection | True |
| Print Spooler: Restart the Print Spooler service (Windows Server 2008 R2) | Windows 2008 Print Services Role | StateCollection | False |
| Print Spooler: Restart the server or troubleshoot hardware problems | Windows 2008 Print Services Role | StateCollection | True |
| Print Spooler: Restart the server or troubleshoot hardware problems (Windows Server 2008 R2) | Windows 2008 Print Services Role | StateCollection | False |
| Print Spooler: Retry printing or restart the print spooler | Windows 2008 Print Services Role | StateCollection | True |
| Print Spooler: Retry printing or restart the print spooler (Windows Server 2008 R2) | Windows 2008 Print Services Role | StateCollection | False |
| Print Spooler: Service Status Monitor | Windows 2008 Print Services Role | StateCollection | True |
| Print Server 2008 Queue Job Errors | Windows 2008 Print Services Printer Queue | PerformanceHealth | True |
| Print Server 2008 Queue Not Ready Errors | Windows 2008 Print Services Printer Queue | PerformanceHealth | True |
| Print Server 2008 Queue Out Of Paper Errors | Windows 2008 Print Services Printer Queue | PerformanceHealth | True |

**Print Server 2003**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Target** | **Category** | **Enabled** |
| Spooler service state | Microsoft Windows 2003 Print Servers Installation | AvailabilityHealth | True |

Appendix II: Monitors and Overrides for the Management Packs

This section provides detailed procedures and scripts that you can use to display rules and other information about the management packs you import.

### How to View Management Pack Details

For more information about a monitor and the associated override values, see the knowledge for the monitor.

To view knowledge for a monitor

|  |
| --- |
| 1. In the Operations Console, click the Authoring button.2. Expand Management Pack Objects, and then click Monitors.3. In the Monitors pane, expand the targets until you reach the monitor level. Alternatively, you can use the Search box to find a particular monitor.4. Click the monitor, and in the Monitors pane, click View knowledge.5. Click the Product Knowledge tab. |

### How to Display Monitors for a Management Pack

To display a list of outputs for a management pack's monitors and overrides using the Command Shell, use the following procedure.

To display monitors for a management pack

|  |
| --- |
| 1. In the Command Shell, type the following command:get-monitor -managementPack Microsoft.Windows.Server.PrintServer.2008.mp | export-csv “C:\PrintServicesMonitors.csv” 2. A .csv file is created. The .csv file can be opened in Microsoft Office Excel. |

### How to Display Overrides for a Management Pack

To display overrides for a management pack, use the following procedure.

To display overrides for a management pack

|  |
| --- |
| 1. In the Command Shell, type the following command:get-override -managementPack name.mp | export-csv filename2. A .csv file is created. The .csv file can be opened in Microsoft Office Excel.Note In Excel, you might be required to specify that the .csv file is a text file. |

For example, this command displays the overrides for one of the core management packs:

get-override -managementPack Microsoft.SystemCenter.OperationsManager.Internal.mp | export-csv "c:\overrides.csv"

Appendix III: Known Issues and Troubleshooting

Known Issue: Some workflows may not switch back to healthy state

Issue: The following workflows may not switch back to healthy state upon recovery:
Monitors:

* Print Job: Check the printer and driver and then retry printing
* Print Job: Restart the Print Spooler service or reinstall the printer driver By Print Queue
* Print Queue: Recreate the printer port
* Print Job: Restart the Print Spooler service or reinstall the printer driver By Print Job Status
* Print Spooler: Check printer security settings
* Print Spooler: Check Windows resources
* Print Spooler: Install or reinstall the printer driver
* Print Spooler: The print spooler failed to complete a task
* Print Spooler: Recreate the port and monitor
* Print Spooler: Reinstall the printer driver check registry permissions and restart the print spooler
* Print Spooler: Restart the Print Spooler service
* Print Spooler: Restart the server or troubleshoot hardware problems
* Print Spooler: Retry printing or restart the print spooler

Alert Rule:

* Print Filter Pipeline Manager: Retry printing or restart the print server

Workaround: Enable the Windows Event Log “Application and Services-Microsoft-Windows-PrintService/Operational” manually and restart it.

Display Strings Known Issue: “Populate the Print Services Computer Group” discovery name and description are incorrect

Issue: The discovery name is displayed as “Populate the Print Services Computer Group”, while it should be displayed as “Populate the Print Services Role Computer Group”. The same issue is observed with the description.

Workaround: No workaround available.

Display Strings Known Issue: “Populate the Printing Instances Group with Managed Entity instances” discovery name and description are incorrect

Issue: The discovery name is displayed as “Populate the Printing Instances Group with Managed Entity instances”, while it should be displayed as “Populate the Print Services Instance Group with Managed Entity instances”. The same issue is observed with the description.

Workaround: No workaround available.

Known Issue: Some Printer Queue attributes of the discovered printer may be empty

Issue: The following Printer Queue attributes of the discovered printer may be empty:

* Spool enabled
* Path
* Version

Workaround: No workaround available.

Compatibility Known Issue: Some event-based workflows are not changing states on Windows Server Full

Issue: The following event-based workflows with "PrintBRM" source and "Application" event log are not changing states on Windows Server Full:
Monitors:

* Printer Forms Migration:  Check permissions and reimport or recreate missing forms
* Print Migration Export:  Confirm the separator file path and retry exporting printers
* Print Migration Export:  Install a compatible printer driver
* Print Migration Export:  Specify a location with sufficient disk space and permissions
* [Print Migration Import or Export:  Install the Print Services role or share a printer
* Print Migration Import or Export:  Manually delete temporary files
* [Print Migration Import or Export:  Test printing and then reinstall drivers or retry migration
* Print Migration Import:  Check the permissions and retry the print queue export
* [Print Migration Import:  Check the printer driver settings
* Print Migration Import:  Confirm the separator file path and retry exporting printers
* [Print Migration Import:  Install a compatible printer driver
* Print Migration Import:  Install a printer driver that matches the servers processor architecture
* Print Migration Import:  Install a printer port and restore the print queue settings
* Print Migration Import:  Recreate custom spooler settings
* [Print Migration Import:  Retry publishing the printer
* Print Migration Import:  Start the print spooler and reinstall the printer driver
* Print Migration Port Import:  Recreate the printer port

Rule:

* Print Migration Registry Access: Ensure the server is accessible

Workaround: No workaround available.

Windows Server Print Services Role Discovery causes warning 10000 in the event log

Issue: Windows Server Print Services Role Discovery is throwing warning 10000 to the event log if server had Print Server role not installed.

Workaround: Disable discovery for the servers where the roles are not installed.

Links

The following links connect you to information about common tasks that are associated with System Center management packs:

System Center 2012 - Operations Manager

 [Management Pack Life Cycle](http://go.microsoft.com/fwlink/p/?LinkID=232986)

 [How to Import a Management Pack](http://go.microsoft.com/fwlink/p/?LinkID=219431)

 [Tuning Monitoring by Using Targeting and Overrides](http://go.microsoft.com/fwlink/p/?LinkID=217065)

 [How to Create a Run As Account](http://go.microsoft.com/fwlink/p/?LinkId=232988)

 [How to Export a Management Pack](http://go.microsoft.com/fwlink/p/?LinkId=232990)

 [How to Remove a Management Pack](http://go.microsoft.com/fwlink/p/?LinkId=232991)

Operations Manager 2007 R2

 [Administering the Management Pack Life Cycle](http://go.microsoft.com/fwlink/?LinkId=211463)

 [How to Import a Management Pack in Operations Manager 2007](http://go.microsoft.com/fwlink/?LinkID=142351)

 [How to Monitor Using Overrides](http://go.microsoft.com/fwlink/?LinkID=117777)

 [How to Create a Run As Account in Operations Manager 2007](http://go.microsoft.com/fwlink/?LinkID=165410)

 [How to Modify an Existing Run As Profile](http://go.microsoft.com/fwlink/?LinkID=165412)

 [How to Export Management Pack Customizations](http://go.microsoft.com/fwlink/?LinkId=209940)

 [How to Remove a Management Pack](http://go.microsoft.com/fwlink/?LinkId=209941)

For questions about Operations Manager and management packs, see the [System Center Operations Manager community forum](http://go.microsoft.com/fwlink/?LinkID=179635).

A useful resource is the [System Center Operations Manager Unleashed blog](http://go.microsoft.com/fwlink/?LinkId=246391), which contains “By Example” posts for specific management packs.

For additional information about Operations Manager, see the [System Center 2012 - Operations Manager Survival Guide](http://go.microsoft.com/fwlink/?LinkId=246383) and [Operations Manager 2007 Management Pack and Report Authoring Resources](http://go.microsoft.com/fwlink/?LinkId=246388)

Important

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