

## DSS 5.0 Cluster Server Configuration



## **Document Summary**

Step-by-step setup of DSS 5 in a Windows 2008 R2 cluster server environment.

I. On the cluster node that has ownership over the quorum and shared cluster storage, create a new environment variable, DSS\_SERVER\_IP with the value being the cluster server IP address.

**Note:** Make sure that the DSS\_SERVER\_IP value is the cluster server IP and not the node or heartbeat IP.

- II. On the cluster node machine that has ownership over the quorum and data shared cluster storage, you need to install DSS (be sure to install to the shared drive rather than the C: drive).
  - 1. When the installer prompts for a Destination folder. Change the destination to the shared storage.



2. The easiest way to go about this is to change the installation drive from C: to the shared storage drive during the installation process, keeping the default installation path unchanged.

🙀 HP Digital Sending Software 5.01 - InstallShield Wizard	X
Change Current Destination Folder	
Browse to the destination folder.	
Look in:	
🛉 HP Digital Sending Software	<b>E</b>
Eolder name:	
g:\Program Files (x86)\Hewlett-Packard\HP Digital Sending Software\	
InstallShield	
ОК	Cancel

III. In Windows Services console, stop the HP MFP Digital Sending Software and the SQL Server (HPDSS2008) Service:

Group Policy Client	The service is respon	Started	Automati
🔍 Health Key and Certificate Management	Provides X.509 certifi		Manual
🐫 HP Digital Sending Software	HP Digital Sending So	Started	Automati
Human Interface Device Access	Enables generic input		Manual
🔍 IKE and AuthIP IPsec Keying Modules	The IKEEXT service h	Started	Automati
Interactive Services Detection	Enables user notificat		Manual
SPP Notification Service	Provides Software Lic		Manual
SPP Notification Service	Provides Software Lic Enables integration w		Manual Disabled
SPP Notification Service SQL Active Directory Helper Service SQL Server (HPDSS2008)	Provides Software Lic Enables integration w Provides storage, pro		Manual Disabled Automatic
<ul> <li>SPP Notification Service</li> <li>SQL Active Directory Helper Service</li> <li>SQL Server (HPDSS2008)</li> <li>SQL Server Agent (HPDSS2008)</li> </ul>	Provides Software Lic Enables integration w Provides storage, pro Executes jobs, monit		Manual Disabled Automatic Disabled
SPP Notification Service SQL Active Directory Helper Service SQL Server (HPDSS2008) SQL Server Agent (HPDSS2008) SQL Server Browser	Provides Software Lic Enables integration w Provides storage, pro Executes jobs, monit Provides SQL Server	Started	Manual Disabled Automatic Disabled Automatic
SPP Notification Service SQL Active Directory Helper Service SQL Server (HPDSS2008) SQL Server Agent (HPDSS2008) SQL Server Browser SQL Server VSS Writer	Provides Software Lic Enables integration w Provides storage, pro Executes jobs, monit Provides SQL Server Provides the interfac	Started Started	Manual Disabled Automatic Disabled Automatic Automatic

- IV. Export the DSS installed Certificates to the shared cluster storage.
  - 1. Copy DssCertificates.zip to the shared cluster storage and extract the zip file.
  - 2. From within the extracted files execute **ExportCerts.bat**. This should save two **.pfx** certificates to the same directory the script was executed.

- V. DSS configuration is complete on this node. Using the **Failover Cluster Manager** force the shared resources to another node in the cluster.
- VI. On the new node that has ownership over the quorum and data shared cluster storage, create a new environment variable DSS\_SERVER\_IP with the value being the cluster server IP address.
- VII. Run the DSS install.

**Note**: Make sure to select a custom install and specify the install path to be the same location as the install on the previous node.

- VIII. In Windows Services console, stop the HP MFP Digital Sending Software and the SQL Server (HPDSS2008) Service.
- IX. Execute ImportCerts.bat that is in the DssCertificates directory on the shared cluster storage.
- X. In the Windows Services Console, start the SQL Server (HPDSS2008) and the HP MFP Digital Sending Software Service.
- XI. Configure DSS as a failover application in **Failover Custer Manager**.
  - 1. Open Failover Cluster Manager.
  - 2. Expand your cluster server. Right-click **Services and applications,** select **More Actions...**, and then select **Create Empty Service or Application.**

_								
	🦉 Failover Cluster Manager							
	File Action View Help							
	🗢 🄿 🖄 🖬 🛛 🖬							
	Failover Cluster Manager JediCluster2.duster.boi.	hp.com	Services and a	pplic	ations	Recent (	Cluster Events: N	one in the last
	Services and applica	Configure	Service or Application	<b>.</b> .		Туре	Current Owner	Auto start
	du1-mit	Virtual Mac	hines	•				
l	<u> Storage</u>	More Actio	ns	Þ	Create	Empty Service or Ap	oplication	
	Networks     Identified Television	View		•				
		Refresh						
		Help						
				The	ere are no s	services and applicat	tions in the cluster.	

3. Right-click the **New service or application** and select **Rename**. Rename the application to Digital Sending Software. (You can use any naming convention that works best for you or the standard naming convention of your business.)

4. Select the Digital Sending Software application selected, select **Add storage** from **Actions**. Select the shared storage that DSS has been installed on:

<rh></rh>						
Falover Cluster Manager	Digital S	Sending Software			Actions	
JedCluster 2 duster hol hp. com     Services and applications     Diptial Serding Software     du1-mit     du2-mit     du	Status: Alerts: Prefem Current	Add Storage     X       Select the dark or darks that you want to add.     Available darks:       Name     Satus       Capacity     Image: Capacity       Image: Capacity     Image: Capacity			Digital Sending Software           Image Shring this service or application online           Image Shring this service or application offline           Image Shring and storage           Image Shares and storage	•
				OK Cancel	Show Dependency Report View Delete Rename Refeath Properties I Help	•

5. Select Add a resource from Actions. Select Generic Service.

Disk Drives	🐼 Add a annual an A	
	Add a resource	1 - Client Access Point
E 🖙 Cluster Disk 1 💿 Online	🔞 Disable auto start	2 - Generic Application 3 - Generic Script
E	Show Dependency Report	4 - Generic Service
	View	More resources
	🗙 Delete	

6. Select **SQL Server (HPDSS2008)** from the services list. Accept all the default options from the rest of the **New Resource Wizard**.

New Resource Wiz	zard ervice Select the service you want to use from the list	:	×
Confirmation Configure Generic Service Summary	Name           Special Administration Console Helper           SPP Notification Service           SQL Active Directory Helper Service           SQL Server (HPDSS2008)           SQL Server Agent (HPDSS2008)           SQL Server Wowser           SQL Server VSS Writer           SSDP Discovery           System Event Notification Service           Task Scheduler	Description Allows administrators to remotely access a comm Provides Software Licensing activation and notif Enables integration with Active Directories Provides storage, processing and controlled acc Executes jobs, monitors SQL Server, fires alerts, Provides SQL Server connection information to Provides the interface to backup/restore Micros Discovers networked devices and services that Monitors system events and notifies subscribers Enables a user to configure and schedule autom	-
		Next > Cancel	

7. Repeat steps 5 and 6 to add the HP MFP Digital Sending Software service as resources the same way the **SQL Server (HPDSS2008)** service was added.

8. When all the resources have been added, the **Summary of Digital Sending Software** should look similar to the below configuration figure.



- 9. Configure Service Dependencies.
  - Right-click on the HP Digital Sending Software Resource and select Properties. In the Properties dialog select the Dependencies tab. Add dependencies for SQL Server (HPDSS2008) and the shared storage. The dependencies should look similar to the below configuration figure.

							1
Summary of Digital	Sending S	HP Digi	ital Sending S	oftware Prope	rties		
_ <b>(</b> •)		Advanced Policies D Registry Replication				try Replication	
<b>C</b> • • • • • • •			General	Deper	ndencies	Policies	
		Sne	cify the resourc	es that must be b	rought online hef	ore this resource (	nan
Preferred Owners: Zoone>		beb	rought online:	co that mast be b	lought online ber	ore this resource (	Jun
Current Owner: du1-mit			AND/OR	Resource			
		•		Cluster Disk 1			
			AND	SQL Server (H	PDSS2008)		
Name	Status	*	Click here to	add a dependend	y		
Disk Drives							
🗄 🧰 Cluster Disk 1	Online						
	0						
Other Resources							
🍓 SQL Server (HPDSS2008)	Offline						
🎲 HP Digital Sending Software	🖲 Offline						
					Insert	Delete	
		_					_
		Clu	ster Disk 1 ANE	) SQL Server (HP	DSS2008)		
					How resource	dependencies wo	ork
				0	K Car	ncel Ap	ply

ii. Add **Dependencies** to SQL Server (HPDSS2008) resource. Add **Dependencies** for the shared storage:

Digital Sending Software	Recent Cluster Events: 🛕 Critical:5, Error: 33	Actio
Summary of Digital Sending S	SQL Server (HPD552008) Properties	×
<b>1</b>	Advanced Policies Registry Replication	
Status: Offline	General Dependencies Policies	
Alerts: <none></none>	Specify the resources that must be brought online before this resource ca	an
Preferred Owners: <none> Current Owner: clu1-mit</none>	AND/OR Resource	
	Cluster Disk 1	┚║
Name Status		-11
Disk Drives		
🕀 📾 Cluster Disk 1 💿 Online		
Other Resources		
🌀 SQL Server (HPDSS2008) 🛛 😣 Offline		
🎼 HP Digital Sending Software 🛛 📀 Offline		
		-11
	Insert Delete	
	Cluster Disk 1	
	How resource dependencies wor	<u>k</u>
	OK Cancel App	у

10. Right-click the **Digital Sending Software** application and select **Bring the service or application online**.

