

Kofax eCopy ShareScan Troubleshooter User Guide

Version: 6.6.0

Date: 2023-01-18



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Preface

The Kofax eCopy ShareScan software extends the capabilities of digital copiers and scanners. When installing and setting up a ShareScan system, you must be familiar with the scanning device that you will use with ShareScan, the ShareScan software components, and the basic installation and configuration workflow.

This guide is intended for administrators responsible for the initial installation, configuration, and licensing of eCopy ShareScan. For the device-specific Pre-Installation Checklist (PICL), see the applicable vendor-specific Pre-Installation Checklist and Sizing Guide. For information pertaining to the ShareScan pre-installation, see this guide. For configuration and Administration Console usage, see the Administration Console Help (accessible via pressing F1 on the Administration Console).

This document is written under the assumption that readers are familiar with working within a server-client architecture and environment.

Product documentation

The full documentation set for Kofax eCopy ShareScan is available online:

https://docshield.kofax.com/Portal/Products/eCopy/6.6.0-it93wavuie/eCopy.htm

The Kofax eCopy ShareScan documentation set includes the items listed in the following table.

Guide	Description
Kofax eCopy ShareScan Pre-installation Checklist (PDF)	Provides information on the issues to be addressed before deploying Kofax eCopy ShareScan.
Kofax eCopy ShareScan Installation Guide (PDF)	Provides information on how to install and upgrade Kofax eCopy ShareScan, along with hardware and software prerequisites.
Kofax eCopy ShareScan Administration Console Help	The integrated help of the application, covering the use of Kofax eCopy ShareScan beyond installation, including configuration information.
	i The help is accessible by pressing F1 on the ShareScan Administration Console.

Guide	Description
Kofax eCopy ShareScan Troubleshooter User Guide (PDF)	Provides information on how to use the ShareScan Troubleshooter, a built-in diagnostic tool.
Kofax eCopy ShareScan Release Notes (PDF)	Provides an overview of late-breaking details for the current product release.
Kofax eCopy ShareScan High Availability Deployment Guide (PDF)	Provides guidance on how to deploy ShareScan to function in high availability mode.
Kofax eCopy ShareScan Glossary Editor Recommendations (PDF)	Contains information on proper use of the Glossary Editor Tool.

Training

Kofax offers both classroom and computer-based training to help you make the most of your eCopy ShareScan solution. Visit the Kofax website at www.kofax.com for details about the available training options and schedules.

Getting help with Kofax products

The **Kofax Knowledge Base** repository contains articles that are updated on a regular basis to keep you informed about Kofax products. We encourage you to use the Knowledge Base to obtain answers to your product questions.

To access the **Kofax Knowledge Base**, go to the Kofax website and select **Support** on the home page.

• The **Kofax Knowledge Base** is optimized for use with Google Chrome, Mozilla Firefox or Microsoft Edge.

The Kofax Knowledge Base provides:

• Powerful search capabilities to help you quickly locate the information you need.

Type your search terms or phrase into the **Search** box, and then click the search icon.

• Product information, configuration details and documentation, including release news.

Scroll through the **Kofax Knowledge Base** home page to locate a product family. Then click a product family name to view a list of related articles. Please note that some product families require a valid Kofax Portal login to view related articles.

- Access to the Kofax Customer Portal (for eligible customers).
 Click the Customer Support link at the top of the page, and then click Log in to the Customer Portal.
- Access to the Kofax Partner Portal (for eligible partners).

Click the **Partner Support** link at the top of the page, and then click **Log in to the Partner Portal**.

• Access to Kofax support commitments, lifecycle policies, electronic fulfillment details, and selfservice tools.

Scroll to the **General Support** section, click **Support Details**, and then select the appropriate tab.

Chapter 1

About the ShareScan Troubleshooter

The ShareScan Troubleshooter is an integrated application of ShareScan, which allows you to pinpoint potential and existing issues you may encounter when using ShareScan.

The information provided by the tool is useful when consulting Technical Support if you encounter an issue that you cannot solve based on the information received from the tool.

• When using a remote SQL server with Windows database authentication, the Windows user who runs the Troubleshooter (typically the currently logged in user) must be:

- The same as the user who runs the ShareScan Agent Windows service or
- Added to SQL server's users, the User Mapping has to be set to the ShareScan database, and the user's Database role membership has to be set to db_owner. The user cannot be member of the sysadmin role.

Prerequisites

ShareScan Troubleshooter requires .NET Framework 4.8 to function properly.

Start the tool

The ShareScan Troubleshooter is located in the Tools subfolder of your ShareScan installation folder: c:\%programfiles%\Kofax\ShareScan6.6\Server\Tools\.

To launch the Troubleshooter:

- Start ShareScanTroubleshooter.exe, or
- From the Windows start menu, go to All Programs > eCopy Applications > ShareScan 6.6 > ShareScan Troubleshooter.

🕲 ShareScan TroubleShooter		
Full check Check	result - Advanced - Database -	Progress:
Check result		
Check description	Parameter Result Message	
Detail		Status

You can use the menu to select between **Full** or **Device** checks, you can **Save** or **Load** your check results in .xml format, and you can perform a number of advanced tests.

• When reporting issues, attaching a saved check result can be a valuable asset for Technical Support.

Chapter 2 Full check

A full check includes checking the preinstallation options, as well as installation, runtime, and database checks. To run this check, select the **Full check** option from the menu and click **Start check**:

ShareScan TroubleShooter					
Full check v Start che	ck Chec	k result 👻 🛛	Advanced 🗸 Database 🗸 Progress:		
Check result					
Check description	Parameter	Result	Message		~
Pre install					
Port check		Ok			
A Network Interfaces		Warning	More than 1 network interface found., Some of the network interfaces have	D	
Operating system		Ok	Microsoft Windows Server 2012 R2 Standard		
🔔 Firewall check		Warning	Firewall is enabled		
Post install					
Service check		Ok			
Registry check		Ok			
Fileset check		Ok			
Database					
🛹 Database check		Ok	Database version: v6.5.0.0 Connection string: Data Source=.\SQLEXPRES	S	
High availability setup via MS NLB —					
High availability setup assessment		Uncheck			\mathbf{v}
Detail				Status	
PuildNumber 11106				Succe	s
InstallLocation C:\Program Files (x86)\K	ofax\ShareS	can6.5\Serve	er\	Succe	s
🖌 Locale 1033				Succe	s =
ManagerIP 10.144.202.161				Succe	s
ProductVersion 6.5				Succe	s
Version 6.5.11106.0				Succe	. s :
SerialNumber 00000-000-0000-000-00				Succe	.St
TomcatInstalled 1				Neutra	
DBConnStr Data Source=.\SQLEXPRE	SS:Initial Cat	alog=eCopyS	hareScan:User ID=eCopy:Password={0}:Connect_Timeout=30	Succe	s Č

The tool checks the following:

- Ports used by ShareScan (for a comprehensive list of used ports, see the *ShareScan Installation Guide*)
- Network interfaces (status and DHCP enablement)
- Operation system (for a list of supported operating systems, see the ShareScan Installation Guide)

i Windows 10 and 11 limit the maximum number of concurrent connections to 20. Windows Server does not have this limitation.

- Firewall (whether it is turned on or ShareScan is added to the firewall exceptions)
- Status and location of the installation log files
- Status and availability of the ShareScan services
- Status and availability of the registry entries
- Status and availability of the ShareScan file set, including full version information
- Database version and trustworthiness (for a list of supported databases, see the *ShareScan Installation Guide*)
- Status of "Desktop Experience" OS feature (when ScanStation is installed)

Clicking on the description names provides more details on the **Detail** pane at the bottom of the screen.

Chapter 3

Device check

Currently available for Xerox devices only.

The Device check allows you to test and confirm whether a Xerox device used by ShareScan meets the requirements for establishing communication. To run such a check, select the **Device Check for Xerox** option from the dropdown menu and click **Start check**. This test is especially useful to spot and help correct any device connection issues. The following screen is displayed:



Browse to a .txt file containing the device addresses. The file should list each device to be tested in a separate line, in **<IP address>**, **<vendor name>**, **<SNMP community name>** format. After you open a file, the Troubleshooter runs the check; the time required depends on the number of devices. When the check is finished, the following screen is displayed:

()) ShareScan TroubleShooter				
Device Check for Xerox - Start check Che	ck result + Advanced + Da	tabase 🕶		Progress:
Check result				
Check description	Parameter Result Mes	sage		
Check description	Parameter	Result	Message	
Device				
Device check	10.140.200.161,Xerox,public	Ok	Xerox device check. Device name: Xerox WorkCentre 563	2 v1 Multifunction
Detail			Status	
Host name: XRXWC5632			Neutral	
Serial Number: 3632070259			Neutral	
Conv. auth. status: network			Neutral	
Conv. auth. IP: 10.140.201.61.1824			Neutral	
Repository: proba			Neutral	
Web services for devices: Enabled			Neutral	
Extensible service registration: Enabled			Neutral	
Device configuration: Enabled			Neutral	
IP address: 10.140.200.93			Neutral	
Description: Xerox WorkCentre 5632 v1 Multifunct	ion System; System Software 021.1	20.065.00120	0, ESS 061.101.14310 Neutral	
Subnet mask: 255.255.252.0			Neutral	
Domain name: ga local			Neutral	
Gateway: 10 1/0 200 1			Neutral	
Primary DNS: 10 140 201 10			Neutral	
Device date/time: 2012.10.29, 10:33:33			Neutral	
IPv6 Status: Disabled			Neutral	
✓ EIP Status: Enabled			Success	
SSL Status: Enabled			Neutral	
Scan Template Management: Enabled			Neutral	
FTP Client: Disabled			Neutral	
FTP Mode: Passive			Neutral	
EIP Browser Get: Enabled			Neutral	
EIP Export Password: Enabled			Neutral	
Custom Services Validation Ontioner Disabled			Neutral	
Auth Configuration: Enabled			Neutral	
Extensible Service Registration: Enabled			Neutral	
Web Services for Devices: Enabled			Neutral	
			House	

Information important for ShareScan is color-coded in the report.

Chapter 4 Advanced options

The advanced options of the ShareScan Troubleshooter are available under the **Advanced** menu. The Network test options are arranged under the Network tests category.

	Advanced +	Database 👻		_		Progress:	
	Networ	rk tests	•		Custom network test		
e	Confirm	n device test			Server side network test	1	
	Authen	tication test			Client side network test		
					MS NLB cluster network to	est	

Network tests

As ShareScan is a client-server application, and the client (MFP) and the server (Manager) can be connected via a complicated network infrastructure, sometimes it is very hard to troubleshoot why the client and the Manager are unable to work together.

Use the ShareScan Troubleshooter tool to diagnose such issues.

The workflow of a typical network test is as follows:

- 1. Start the Troubleshooter on the Manager computer.
- 2. Click the Advanced menu, and select Network tests > Server side network test .
- 3. Connect the Manager computer to the same subnet the MFP to be tested is connecting.
- 4. Stop any ShareScan services running on the client computer.
- 5. Start the Troubleshooter.
- 6. Click the Advanced menu and select Network tests > Client side network test .
- **7.** On the server, enter the host name (or IP) of the computer simulating the client into the Client address/hostname and some text into the **Payload** field.
- **8.** On the computer simulating the client, enter the hostname or IP of the Manager computer, and some text into the **Payload** field.
- 9. Click Connect on both dialogs.

10. If the network connection is possible, then the **Send text** button is available; click on it to transfer the given payload test to the other end. In there is a connection problem, an error message is displayed.

Custom Network Test

Using this option, you can test the network connection between the current machine and a remote computer. Selecting **Network tests > Custom network test** item in the **Advanced** menu displays the following screen:

is computer	Result			
stening on port: 8221	Source	Operation	Data	Message
	Local	Start listening	Port: 8221	
Start listening Stop	listening			
emote computer				
ldress / host name :				
Ι				
vrt:				
Connect Disc	onnect			
yload:				
	and text			
	•			

The **This computer** pane allows you to set the port number for listening, as well as **Start** and **Stop** listening.

The **Remote computer** pane allows you to set the data for the remote computer and enter a payload text to be used in the test.

Click **Close** to return to the Troubleshooter.

Server-side Network Test

Using this option, you can test the network connection from the server > client direction. Selecting **Network tests > Server side network test** item in the **Advanced** menu displays the following screen:

This computer		Result			
istening on port	9600	Source	Operation	Data	Message
Second g on port.		Local	Start listening	Port: 9600	System.Net.Sockets.Soc
Start listening	Stop listening	Local	Start listening	Port: 9600	System.Net.Sockets.Soc
Dient					
Client address / hostname	•				
Port:	9030 Disconnect				
Payload:					
	Send text]			

The **This computer** pane allows you to set the port number for listening, as well as **Start** and **Stop** listening.

The **Client** pane allows you to set the client-side data and enter a payload text which will be used in the test.

Click **Close** to return to the Troubleshooter.

Client-side Network Test

Using this option, you can test the network connection from the client > server direction. Selecting **Network tests > Client side network test** item in the Advanced menu displays the following screen:

i nis computer		Result			
istening on port	8221	Source	Operation	Data	Message
Second g on port.		Local	Start listening	Port: 9030	System.Net.Sockets.Soc
Start listening	Stop listening	Local	Start listening	Port: 9030	System.Net.Sockets.Soc
Start listering	Stop lister ling	Local	Start listening	Port: 8221	
Server					
Server address / hostnam	e				
Port:	9600				
Connect	Discourse				
Connect	Disconnect				
^o avload:					
•					
	Sand taxt				
	Jenu text				
		•			•

The **This computer** pane allows you to set the port number for listening, as well as **Start** and **Stop** listening.

The **Server** pane allows you to set the server-side data and enter a payload text which will be used in the test.

Click **Close** to return to the Troubleshooter.

Confirm device

You can test the connection between ShareScan and an attached device by clicking **Confirm device test** in the **Advanced** menu.

Confirm Device	×
Input parameters Device IP: Port: 9030	(default = 9030) Get info
Response Manager name: Device name: Manager port: Device IP:	
Raw response Client ver.:	

Complete the Input parameters according to your system setup, and click **Get info**. The system fills in the **Response** fields with the acquired data. The **Raw response** window provides the unfiltered data from the test.

Authentication test

This option allows you to test whether the ShareScan user whose credentials you supply is in the domain to which the ShareScan Manager computer is added. Click **Authentication test** in the Advanced menu to display the following screen:

- Authentication test - PC in domain:	
Domain list Get trusted domains	Authentication Domain: User: Password: Test authentication
	Gose

Select the domain you want to use from the Domain list pane. Click **Get trusted domains** to list all available trusted domains.

Enter the domain name and user credentials you want to test, and click **Test authentication**.

Click **Close** to return to the Troubleshooter.

Chapter 5 Database option

The ShareScan Troubleshooter database options (valid for the whole system) are available by clicking the **Database** menu.



Testing or setting connection

Use this option to check and optionally configure the database connection data. This test is especially useful if your database is on a remote server. Clicking the **Test / set connection** option displays the following screen:

Connection data			
Server:			Read from configuration
Database:			Set configuration
Authentication type:	SQL server	Integrated	
User:			Set to default values
Password:			Test connection

The following options are available:

- **Read from configuration**: Populates the Connection data based on your currently installed ShareScan version.
- **Set configuration**: Allows you to enter the connection data manually.
- Set to default values: Allows you to discard changes and return to the default values.
- **Test connection**: Tests the database connection.

For the user running the Troubleshooter tool, the following rights must be granted: Database role membership: db_owner, default schema: ShareScan.

Click **Close** to return to the Troubleshooter.

Credential cache

This option is only useful if you have the Single Sign-On Extender installed, and enable the relevant Session Logon settings via the ShareScan Administration Console. Click **Credential cache** to display the following screen:



The Cache content pane displays the entries of the credential cache used by the Session Logon component of ShareScan. You can use the Credential cache pane to filter the contents if you are looking for a particular user name or domain, and you can use the Operations pane to delete the content of the credential cache.

Click **Close** to return to the Troubleshooter.

Change certificate

This option allows you to change the certificate assigned to the ShareScan Manager and re-encrypt data with the new certificate. Click **Change certificate** to display the following screen:

Change ce	rtificate	X
Current certificate thumbprint:		
0e9389d0720f600d7e06b1ee25951535dba50546		
New certificate thumbprint:	\searrow	
		Change Cancel

The Current certificate thumbprint shows the thumbprint of the certificate assigned currently to the ShareScan Manager.

Enter the new certificate thumbprint and click on the **Change** button to replace the certificate assigned to the ShareScan Manager and to re-encrypt the cached passwords if any.

0

- After changing the ShareScan Manager certificate, the ShareScan Manager windows service must be restarted.
- The new certificate must be installed into the Trusted People container in the Windows Certificate store, and the user who runs the ShareScan Manager windows service must have access right to it.

(For details, see the **Install the certificate on the ShareScan Manager computer** section of the *High Availability Deployment Guide*).

• The certificate which can be changed here differs from the one used by ShareScan web-based clients.

For successful data re-encryption when using the ShareScan database with Windows integrated authentication, run the ShareScan Troubleshooter tool with the ShareScan Agent Windows service user, or a user who is not an SQL administrator. The latter user should have the same permissions as the ShareScan Agent Windows service user on the SQL Server where the ShareScan Database resides.

Installed software versions

Use this option to check the version of the various ShareScan components installed on this computer. The compiled list can be a great asset when contacting eCopy technical support, as the list enables narrowing down any issues which are specific to component versions. Click **Installed software versions** to access the list:

🖳 File versions for ShareScan binaries	₽ - □	×
Files	BP-GRS06	^
System		- 1
ConnectorInfoApp.exe	6.6.20109.0	
eCopyGlossaryEditor.exe	6.6.20109.0	
Notification TrayApp.exe	6.6.20109.0	
OutputCreatorClient.exe	6.6.20109.0	
ServiceInstall.exe	6.6.20109.0	
ShareScan.WatcherService.exe	6.6.20109.0	
Share Scan Admin Console.exe	6.6.20109.0	
Share Scan Agent.exe	6.6.20109.0	
Share Scan Manager.exe	6.6.20109.0	
ShareScanMonitoringAgent.exe	6.6.20109.0	
ShortcutCreator.exe	6.6.20109.0	
PublicAssemblies		
ComponentFactory.Krypton.Toolkit.dll	2.8.5.0	
Controls.dll	6.6.20109.0	
eCopyDataPublishing.dll	6.6.20109.0	
eCopyEncryption.dll	6.6.20109.0	
eCopyShareScanSDK.dll	6.6.20109.0	
eCopyTracing.dll	6.6.20109.0	
Microsoft.Practices.ServiceLocation.dll	1.2.0.0	~
Different versions found:	Export collected version data Import collected version	data
	Clo	ose

Click **Export collected version data** to save the list into an xml file.

Click **Import collected version data** to import data from a previously saved xml file.

Click **Close** to return to the Troubleshooter.

i The entries listed on the screenshot are only examples.

Remove unused ShareScan Manager data

This option allows you to remove superfluous data (obsolete logs and trace files, temporary process data, and so forth) from the selected ShareScan Managers. Click **Remove unused manager data** to display the removal screen:

🔜 Remove unused ShareScan Manager data							×
Address	Manager		Devices	Last update			
10.144.202.43	BP-GRS06		3	1/11/2023 15:38:21			
		•					
		3					
1							
				Remov	e	Close	

Mark the check box in front of the Manager whose data you want to remove, and click **Remove**.

Click **Close** to return to the Troubleshooter.

Backup database

This option allows you to create a backup copy of your ShareScan database. Click **Backup database** to display the following screen.

DatabaseBackup	×
Connection data	
Server:	
Database:	eCopyShareScan
Authentication type:	SQL server Integrated
User:	sa
Password:	
Backup data	
Destination:	C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVE
Filename:	backup.bak
	<u>B</u> ackup <u>C</u> lose

The Connection data pane lists the credentials of the connected ShareScan database.

The Backup data pane allows you to select a Destination and a Filename for the backup data.

Click **Backup** to start the database backup process.

Click **Close** to return to the Troubleshooter.

For successful database backup, db_owner, db_creator and db_backupoperator role memberships must be granted to the user running the Troubleshooter tool.

Chapter 6

Verify and troubleshoot the high availability setups

The ShareScan Troubleshooter has the following new options to help to verify and troubleshoot the high availability setups built on the Microsoft Network Load Balancing infrastructure.

Before testing, make sure the MS NLB and the ShareScan registry settings are set properly, in accordance with the *High Availability and Load Balancing Deployment Guide*.

Full Check:

The **Full Check** option (started by the **Start check** button) on the menu bar performs a check to determine if the MS NLB based cluster is configured.

The checker adds a last section to the report, with a section named **High Availability setup via MS NLB**.

9	ShareSc	an TroubleShooter		_ □	x
Full check 🗸 🗸 Full check result 🗸	Advanced 🗸	Database - P	rogress:		
Check result					
Check description Parameter	Result Uk	Message Microsoft Windows Server 2012 H2 Standard			^
Firewall check	Ok	Firewall is disabled			
Installation Install log files	Ok				
Post install					
Service check	Error Ok	A critical service is missing or stopped.			
✓ Fileset check	Ok				≡
Database					
Database check	Ok	Database version: v1.0.0.6 Connection string: Data Source=	;;Initial Catalog=e		
High availability setup via MS NLB					
High availability setup assessment	UK				~
Detail			Status		
ManagerIP is properly set to the cluster's IP address: 10.140.201.1	15		Success		
ClusterNodelP is properly set to the cluster node's separated IP ad	ldress: 10.140	.201.162	Success		
Lost Recovery is not enabled therefore its port won't be checked.			Neutral		
Port configuration is appropriately set to 'Single' affinity for all import	tant ports.		Success		

If there is an inconsistency or missing item in the configuration settings (ManagerIP, ClusterName and ClusterNodeIP settings in the registry) or if these are not in sync with the actual settings of the Microsoft NLB system or the network adapters, then alert lines in red appear in this section.

Advanced -	Database 👻	Progress:
Network	tests 🕨	Custom network test
Confirm device test		Server side network test
Authentication test		Client side network test
		MS NLB cluster network test

MS NLB cluster network test (under the Advanced option):

This is a client-server communication test, to see if MS NLB is set up properly and the requests from the outside of the cluster (the part of the network where the devices exist) are dispatched to one of the server nodes in the cluster. During multiple repeated connection tests, the routing of the individual request should vary sometimes (once the response should arrive from server node X, next time from server node Y, etc.), proving that NLB 'spreads' the requests across the server nodes.

• This test is performed on TCP port 9599, which should be configured with Node affinity: None option in the Port Rule editor of the MS NLB Manager as it is documented in the High Availability and Load Balancing Deployment Guide, allowing the new TCP connections to assign to a server node randomly. This mode is NOT used for the normal ShareScan device-server connections, but for Cost Recovery and Identification services. However, the test is useful to prove the proper configuration of the MS NLB system.

How to set up and perform a test:

- 1. Start the ShareScan Troubleshooter tool on all of the tested cluster nodes these instances of the Troubleshooter tool will be called "server agents".
- **2.** Copy the following files to a folder on a computer connecting to the same network to which the MFP devices are connected (or will be connected), and launch the ShareScan Troubleshooter tool this instance is called "client agent".
- 3. Select the MS NLB cluster network test menu option (on all nodes).
- **4.** A dialog appears.
- 5. Click the Start listening button on the dialog on all the "server agents".
- **6.** On the "client agent" instance enter the IP address of the cluster (the IP address used in the ManagerIP registry entry) into the text field.
- 7. Click the Connect button on the "client agent".
- 8. If the request sending / response receiving is successful, then you should see 3 lines:
 - Local / Connect / Cluster IP:9599 (in green)

- Cluster IP:9599 / Received / Hey, it's X or Hi, I'm X or Hello, this is X (in blue), where X is the ClusterNode IP of the responding server node
- Local / Disconnected / ClusterIP:port
- **9.** In the console of the "server agents" (always only in the instance that actually gets the request) you should see lines appearing saying <IP:port> Connected in blue, where <IP:port> should correspond to the "client agent".

If you click the **Connect** button several times (wait until all the 3 lines are listed) you should see different IP addresses in place of X, representing the different server nodes.

If you can see the ClusterNodeIP of all of the nodes at least once, then the entire test is successful.

• One should not expect that the server nodes are hit by the requests in a round-robin manner. As the TCP connection-server node assignment is decided by the MS NLB based on the client IP and the source port (which is selected randomly by the "client agent") it is not guaranteed that the next server node is hit next, nor that the requests are spread evenly – this is out of scope for this simple test tool.

ShareScan network test (MS NLB cluster networ	k test)			
This computer	Result			
	Source	Operation	Data	Message
Listening on port: [9599	Local	Connect	10.140.201.115:9599	
Start listening Stop listening	10.140.201.115:9599	Received	Hey, it's 10.140.201.163	
	Local	Disconnected	Server:10.140.201.115:95	
Cluster	Local	Connect	10.140.201.115:9599	
	10.140.201.115:9599	Received	Hello, this is 10.140.201.163	
Cluster IP address	Local	Disconnected	Server:10.140.201.115:95	
	Local	Connect	10.140.201.115:9599	
10.140.201.115	10.140.201.115:9599	Received	Hi, I'm 10.140.201.163	
D 1	Local	Disconnected	Server:10.140.201.115:95	
Port: [9599	Local	Connect	10.140.201.115:9599	
Connect	10.140.201.115:9599	Received	Hey, it's 10.140.201.162	
	Local	Disconnected	Server:10.140.201.115:95	
	Local	Connect	10.140.201.115:9599	
	10.140.201.115:9599	Received	Hello, this is 10.140.201.163	
	Local	Disconnected	Server:10.140.201.115:95	
	Local	Connect	10.140.201.115:9599	
	10.140.201.115:9599	Received	Hi, I'm 10.140.201.162	
Start this test on all nodes in the cluster. On the nodes press [Start listening] button.	Local	Disconnected	Server:10.140.201.115:95	
On another PC (which is not part of the cluster) use [Connect] button to cycle a connect and disconnect to the cluster. The cluster nodes which are listening will accept the connection (one at a time) and send back their dedicated IP addresses.	×			Þ
				Close

Shares	Scan network test (MS NLB cluster r	network test)	_ _ ×	
This computer 3599 Listening on port: 9599 Start listening Stop listening Cluster Cluster IP address Port: 9539 Connect 9539	Result Source Local 10.140.24.95:40010 10.140.24.95:40009 10.140.24.95:40008 10.140.24.95:40006	Operation Start listening Connected Connected Connected	Data Port: 9599	Message	
Start this test on all nodes in the cluster. On the nodes press [Start listening] button. On another PC (which is not part of the cluster) use [Connect] button to cycle a connect and disconnect to the cluster. The cluster nodes which are listening will accept the connection (one at a time) and send back their dedicated IP addresses.	<			Close	