

Atrust

Atrust m320

for Windows® MultiPoint® Server 2012

USER'S MANUAL

Internal Draft 0.01

© 2013-14 Atrust Computer Corp.

Copyright and Trademark Statements

© 2013-14 Atrust Computer Corp. All rights reserved.

This document contains proprietary information that is protected by copyright. No part of this document may be photocopied, reproduced, or translated to another language without the prior written consent of Atrust Computer Corp.

Limitation of Liability

While reasonable efforts have been made to ensure the accuracy of this manual, the manufacturer and distributor assume no liability resulting from errors or omissions in this manual, or from the use of the information contained herein.

Trademark statements

Microsoft, Windows, and MultiPoint are trademarks of the Microsoft group of companies.

Other product names mentioned herein are used for identification purposes only and may be trademarks and/or registered trademarks of their respective companies.

About This User's Manual

This manual provides information on how to set up and use Atrust m320 zero clients (multifunction station hubs) as LAN-based stations for Windows® MultiPoint® Server 2012.

Manual Structure and Subjects

Chapter	Subject
1	Provides an overview of Atrust m320 zero clients for Windows® MultiPoint® Server 2012.
2	Gives detailed instructions on how to set up your m320.
3	Provides information on getting your m320 ready for use.
4	Provides information on how to manage your m320.
Specifications	Lists and provides detailed information on key components of your m320.

Notes, Tips, and Warnings

Throughout this manual, the notes, tips, and warnings in the following formats are used to provide important information, useful advice, and prevent injuries to you, damage to your devices, or loss of data on your system.



NOTE

- A note provides important information for a specific situation.



TIP

- A tip gives a piece of useful advice to perform a task more efficiently.



WARNING

- A warning provides crucial information that must be followed to prevent injuries to you, damage to your devices, or loss of data on your system.

Style Conventions

The following styles are used throughout this manual while referring to operational items on input devices, hardware panels, or application interfaces.

Item	Style	Example
keys on the keyboard	bold	Ctrl+Alt+Delete, N, B, S
system modes	first letter capitalized	Console mode, Station mode
application windows or menus	first letter capitalized	Initial Setup window, General Task menu
buttons or tabs on a window, toolbars, taskbar, or menu	bold	OK, Finish, Start, LAN Stations tab
options on a window, screen, list, or menu	bold	LAN Station Driver and Utility, Use DHCP

Safety and Regulatory Information

Regulatory Statement

Federal Communications Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Regulatory Information

WEEE (Waste Electrical and Electronic Equipment) Directive



In the European Union, this symbol indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling. For proper disposal, please contact your local recycling or hazardous waste center.

Safety Information



WARNING

- Use only power supplies listed in the user instructions.



WARNING

- Don't use a keyboard and mouse that in total require more than 200 mA of rated current during operation.



WARNING

- For safety, do not make mechanical or electrical modifications to the equipment.
- Do not remove equipment covers and access any of the components inside the equipment. Any access inside the equipment without an authorized or certified technician may cause serious injuries and damage. For any problem, contact your dealer for assistance.
- You should only make repairs as authorized by the product documentation. Repairs, replacement, expansion, and upgrades not performed by a certified service technician may cause injuries to you, damage your system, and void your warranty.

Table of Contents

Copyright and Trademark Statements	i
Limitation of Liability	i
Trademark statements	i
About This User's Manual	ii
Manual Structure and Subjects	ii
Notes, Tips, and Warnings	ii
Style Conventions	ii
Safety and Regulatory Information	iii
Regulatory Statement	iii
Regulatory Information	iv
Safety Information	iv
1 Overview	1
1.1 Introduction	3
1.2 Features	3
1.3 Package Contents	4
1.4 Exterior Views	4
1.5 Panel Components	5
1.6 LED Indicators	7
2 Setting Up Your m320	9
2.1 Positioning Your m320	11
2.2 Getting Connected	13
3 Getting Your m320 Ready for Use	17
3.1 Getting Stations Ready for Use	19
3.2 Installing Drivers and the Utility	19
3.3 Initial Setup	20
3.4 Updating Drivers and the Utility	24
4 Managing Your LAN Stations	27
4.1 LAN Stations tab Overview	29
4.2 Available Tasks at a Glance	30
4.3 Taking Over a Failed Host	31
4.4 Serving Orphaned LAN Stations	32
4.5 Scanning Free LAN Stations	33
4.6 Renaming a LAN Station	33
4.7 Adjusting Network Settings for a LAN Station	34
4.8 Changing the Password for a LAN Station	36

4.9	Identifying a LAN Station with its Power LED	36
4.10	Assigning a LAN Station to a Local Host Server	37
4.11	Clearing the Host Server Assignment for a LAN Station	37

Specifications 39

1

Overview

This chapter provides an overview of Atrust m320 zero clients for Windows® MultiPoint® Server 2012.

1.1 Introduction	
Windows® MultiPoint Server 2012 and Atrust shared resource solution	3
1.2 Features	
the features of Atrust system solution	3
1.3 Package Contents	
check your package contents	4
1.4 Exterior Views	
overview of device outside elements	4
1.5 Panel Components	
detailed descriptions of front and rear panel components	5
1.6 LED Indicators	
descriptions of signals for LED indicators	7

1.1 Introduction

Windows® MultiPoint® Server 2012 is a new shared resource technology. This Windows-based operating system enables a host server to power multiple and independent stations, allowing users to share the computing power of one single server. With the same budget, this shared resource mode provides more people with access to computing than the traditional single-user mode.

Based on Windows® MultiPoint® Server 2012, Atrust offers an integrated system solution incorporating both the server and station sides. Your Atrust m320 zero clients (multifunction station hubs) are used to deploy stations and support the LAN-based connection method to the host server.

1.2 Features

Atrust solution enables educators to:

- Drastically reduce the total cost of ownership
- Allocate more money to other resources for learning
- Provide a familiar and independent Windows experience
- Multiply computing access for students
- Easily set up, manage, and maintain the whole system

This shared resource solution is also perfectly suited for small businesses who are looking for:

- Cost-effective and flexible IT solution that can easily expand when business grows
- Manageable IT solution without a lot of manpower
- Secure, reliable and stable solution
- Stable-enhanced system with ECC (Error Checking and Correcting) memory support
- Familiar Microsoft Windows operating environment
- Windows-compatible solution for business and productivity software

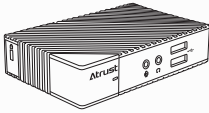
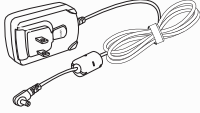
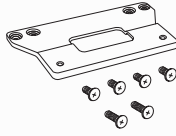
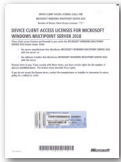

Key features at a glance:


- Broad support for diverse connection methods – USB-based (m300 / m302), LAN-based (m320), and RDP-based (t-series thin clients) stations
- Manage multiple MultiPoint® Sever systems on a single computer
- Arrange stations for a specific purpose, like public access to library service, using the **auto-logon** feature
- Add a new station by sharing an existing station monitor with the **split screen** feature
- Monitor and control station usage with the **session monitoring, web limiting,** and **application launching/closing** features
- Share any session across all stations by the **session broadcast** feature
- Orchestrate activities and draw attention in class with the help of the **station blocking** and **message display** features

1.3 Package Contents

Please check your package contents. Ensure that all of the items are present in your package(s). If any items are missing or damaged, please contact your dealer immediately.

Your client package comes with the following items. The number of clients and accessories may vary, depending on your package deal.

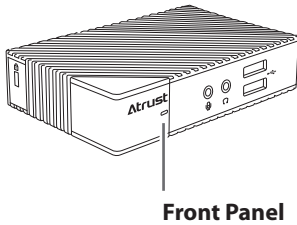
Atrust m320	AC adapter	VESA mount kit (optional)
		
CAL with the COA label	Quick Setup Guide	
		

 **NOTE**

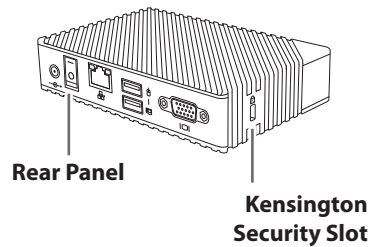
- Your deal may not contain an OEM Windows MultiPoint Server 2012 CAL. To obtain a license, please refer to Microsoft web pages at:
<http://www.microsoft.com/windows/multipoint/buy.aspx> or
<http://www.microsoft.com/windows/multipoint/default.aspx>.

1.4 Exterior Views

Left Front View

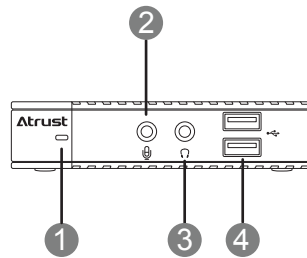









Right Rear View



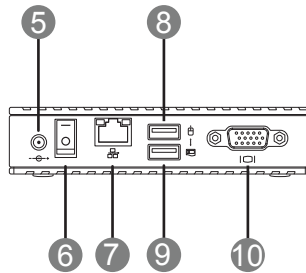
1.5 Panel Components












Atrust m320



Front Panel Components				
No.	Component	Sign	Name	Description
1			Power LED	Indicates the status of power.
2			Microphone port	Connects to a microphone.
3			Headphone port	Connects to a set of headphones or a speaker system.
4			USB port	Connects to a USB device.

Atrust m320



Rear Panel Components				
No.	Panel Component	Sign	Component Name	Description
5		+  -	DC IN	Connects to an AC adaptor.
6			Power switch	Press to turn on / off the client.
7			LAN port	Connects to a host server through a Gigabit switch.
8			USB port	Connects to a mouse. ¹
9			USB port	Connects to a keyboard. ¹
10			VGA port	Connects to a monitor.

¹ Don't use a keyboard and mouse that in total require more than 200 mA of rated current during operation.

1.6 LED Indicators

Your m320 is equipped with a Power LED to indicate the state of power. The meanings of LED signals are described as follows:

LED	Signal	Meaning
Power LED	Off	The client is off.
	Blue	The client is on.
	Blue blinking	The Identify station with LED function is active.



NOTE

- For instructions on how to identify stations with their Power LED, please refer to section “4.9 Identifying a LAN Station with its Power LED” on page 36.

The LAN port of your m320 has two LED indicators show the state of networking. The meanings of LED signals are described as follows:

	Left LED (transmission rate)	Right LED (transmission activity)	Meaning
LED Signal	Off	Off	The client is not connected to a LAN.
	Off	Amber blinking	The client connects to a 10 Mbps LAN.
	Orange	Amber blinking	The client connects to a 100 Mbps LAN.
	Green	Amber blinking	The client connects to a 1000 Mbps LAN.

2

Setting Up Your m320

This chapter gives detailed instructions on how to set up your m320 zero client.

2.1 Positioning Your m320

How to position your clients 11

2.2 Getting Connected

Connection with the host - Method 1 13

Connection with the host - Method 2 14

Connections with peripherals and the power 15

2.1 Positioning Your m320

There are two ways to position your m320:

- Put it on a desk or a desired place horizontally.
- Mount it on the back of a monitor using a VESA mount kit.



NOTE

- The VESA mount kit is an optional accessory for your m320. Your deal may not contain a VESA mount kit. Contact your dealer if needed.

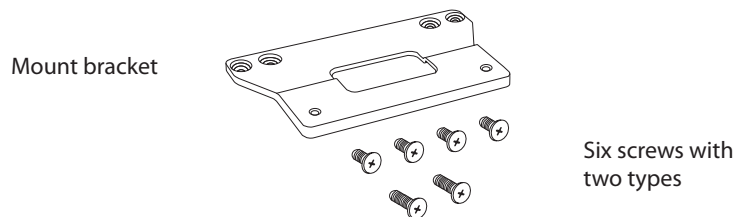
To mount your m320 on the back of a monitor, please follow the steps below:

Step 1: Understand Your VESA Mount Kit for m320

Step 2: Mount Your m320

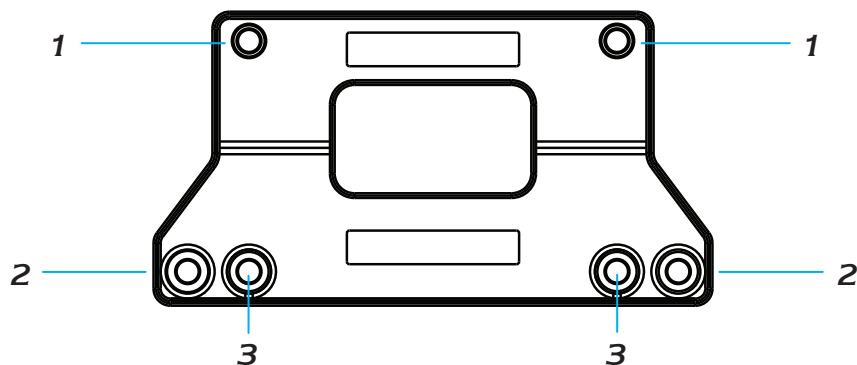
Step 1: Understand Your VESA Mount Kit for m320

Your m320's VESA mount kit consists of a bracket and six screws.



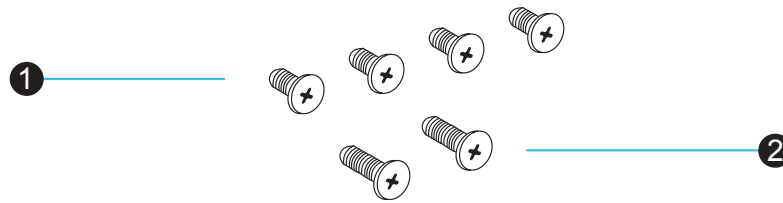
Mount Bracket for m320

Refer to the following figure and descriptions for the VESA mount holes on the mount bracket for m320.



Mount Hole	Description
1	The VESA mount holes used to secure the bracket to your m320.
2	The VESA mount holes (with the distance of 100 mm) used to secure the bracket to a monitor.
3	The VESA mount holes (with the distance of 75 mm) used to secure the bracket to a monitor.

Mount Screws for m320

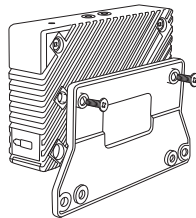


Screw Type	Number	Description
1	4	The screws used to secure the bracket to your m320 and to a monitor.
2	2	The longer screws used to secure the bracket to a monitor if the screws of type 1 cannot firmly secure the bracket and your m320 to the monitor.

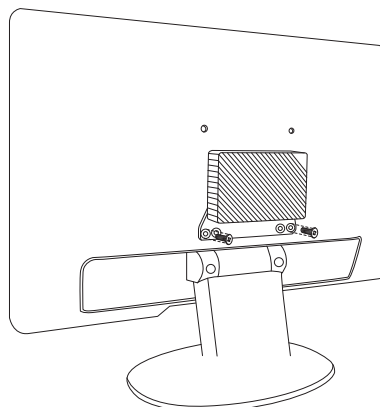
Step 2: Mount Your m320

To mount your m320 on the back of the monitor, please do the following:

1. Place your m320 on a flat surface with the VESA mount hole side upward.
2. With the rear panel of the client facing downward, secure the VESA mount bracket to the client with two (2) screws supplied.
3. With the bracket side marked with **Atrust** facing downward, align two mount holes on the bracket with two mount holes on your m320 such that the bracket projects out and is closer to the rear panel than the front one as shown below, and then secure the bracket to your m320 with two (2) screws of type **1**.



4. Align the bracket holes with the VESA holes on the back of the monitor. Ensure that the rear panel of the client is facing downward.
5. Secure the VESA mount bracket to the monitor with two (2) screws supplied.



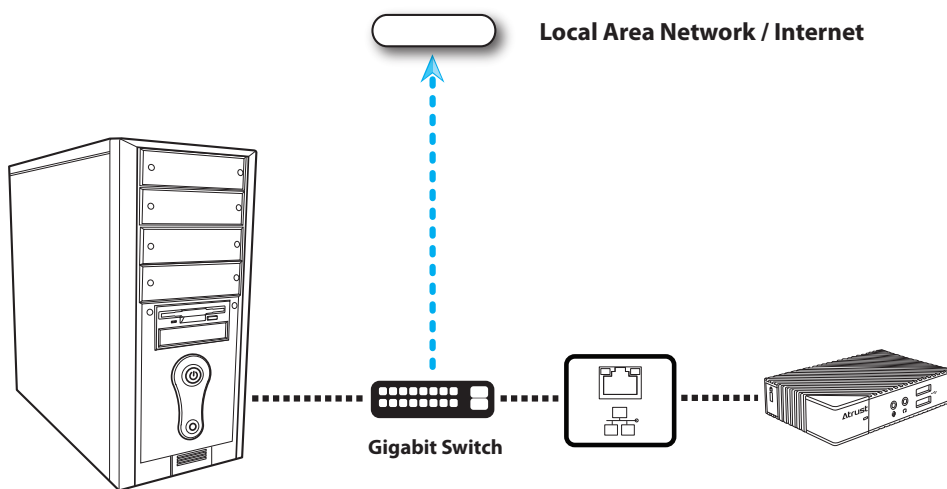
2.2 Getting Connected

Please follow instructions below to make physical connections for your m320 with the host server, power, and other peripherals:

Connection with the Host — Method 1

To make physical Ethernet connection between the host (running Windows® MultiPoint® Server 2012) and your m320 using method 1, please do the following:

1. Connect both the host and your m320 to the same Gigabit Ethernet switch.
2. Connect the host to a local area network or the Internet through the same Gigabit Ethernet switch.



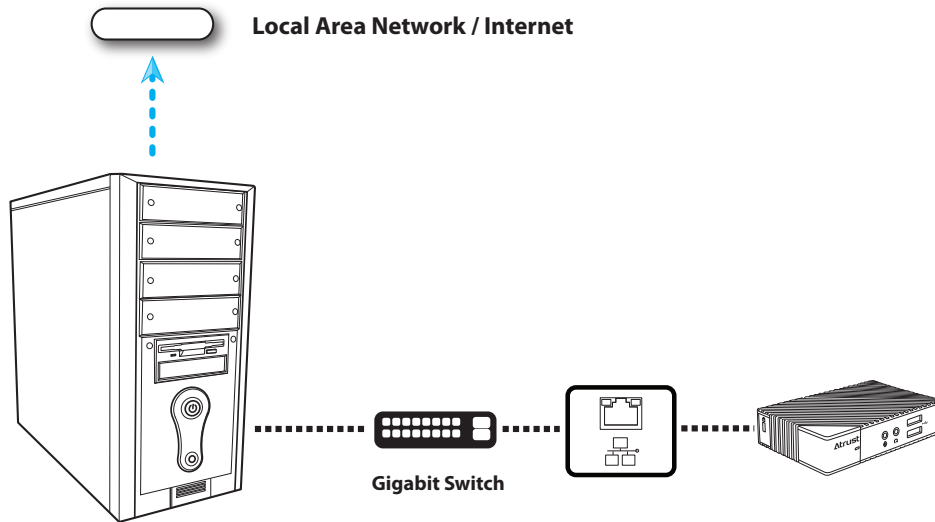
NOTE

- It's recommended to use a Gigabit switch to connect your host and stations.

Connection with the Host — Method 2

To make physical Ethernet connection between the host (running Windows® MultiPoint® Server 2012) and your m320 using method 2, please do the following:

1. Connect both the host and your m320 to the same Gigabit Ethernet switch.
2. Connect the host to a local area network or the Internet through the host's second LAN port.



NOTE

- If your host computer is equipped with more than one LAN port, you could make connections using the method 2. No matter which method you use, your m320 will perform network environment detection and choose appropriate network configuration automatically.
- In case that you need to adjust the network configuration for your m320, please refer to section "4.7 Adjusting Network Settings for a LAN Station" on page 34.
- It's recommended to use a Gigabit switch to connect your host server and clients.

Connections with Peripherals and the Power

To connect peripherals and the power for your m320, please follow the instructions below:

- **Display.** Connect a monitor to your m320, and turn on the monitor.
- **Keyboard and Mouse.** Use the USB-based keyboard and mouse.



NOTE

- Please connect the keyboard and mouse to their dedicated USB ports.
- Don't use a keyboard and mouse that in total require more than 200 mA of rated current during operation.

- **AC Adapter.** Use the supplied AC adapter to connect your m320 to a power outlet.
- **Audio Input and Output.** Connect a microphone, a set of headphones, or a speaker system to your m320.
- **Other Peripherals.** Connect other USB-based devices to your m320 if needed.

3

Getting Your m320 Ready for Use

This chapter provides information on how to get your m320 ready for use.

3.1 Getting Stations Ready for Use	
how to get m320-based LAN stations ready for use	19
3.2 Installing Drivers and the Utility	
how to install the video driver, LAN station driver, and MultiPoint Manager Add-in for m320-based LAN stations	19
3.3 Initial Setup	
how to create the bonding between the host server and LAN stations	20
3.4 Updating Drivers and the Utility	
how to update the video driver, LAN station driver, and MultiPoint Manager Add-in for m320-based LAN stations	24

3.1 Getting Stations Ready for Use

To get your m320-based LAN stations ready for use, you need to install the video driver, LAN station driver, and MultiPoint Manager Add-in on your host server where Windows MultiPoint Server 2012 is installed:

Task	Section	Page
Installing the video driver, LAN station driver, and MultiPoint Manager Add-in	3.2	19
Initial setup - creating the bonding between the server and LAN stations	3.3	20

3.2 Installing Drivers and the Utility

To install the video driver, LAN station driver, and MultiPoint Manager Add-in *on the host server* for your m320-based LAN stations, please do the following:



NOTE

- You will need an administrative account to perform the following tasks.

1. Switch your MultiPoint Server system to the Console mode.
2. Disconnect all station hubs if any.
3. Locate **Station_Video_Setup_SM_<version>.exe** and **Station_LAN_Setup_<version>.exe** on your *host server* and install both in sequence.



WARNING

- Ensure that the WDDM (Windows Display Driver Model) compatible driver is installed for your host server graphics card *before* installing the video driver.



NOTE

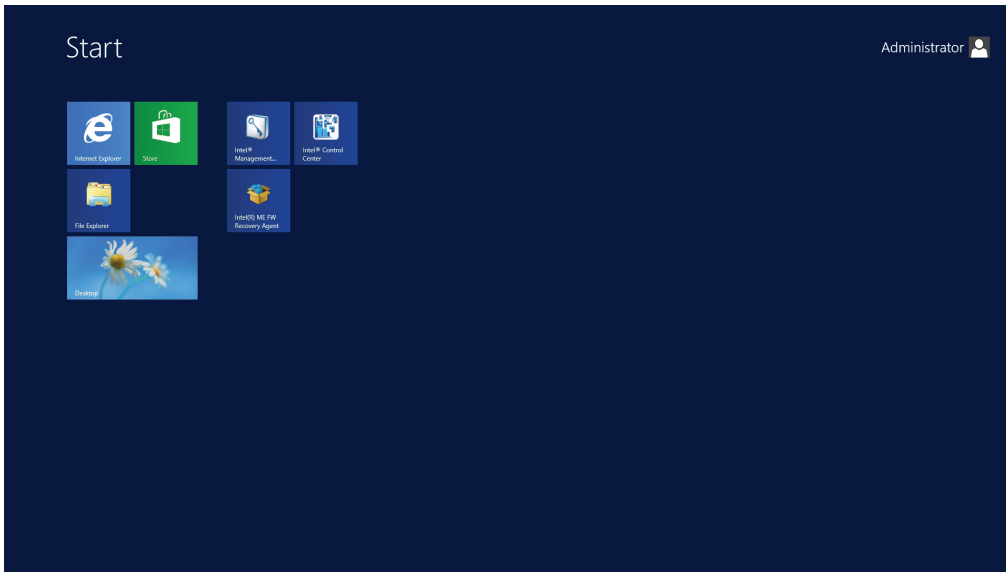
- You should have got installation programs for drivers and the utility through the Internet (FTP, email, or website) or a physical CD / DVD. Contact your dealer if required installation programs are not available.
- If you've installed the video driver for your m300 / m302-based USB stations, you don't need to install it again.
- To update the video driver, LAN station driver, and MultiPoint Manager Add-in for your m320-based LAN stations, please refer to section "3.4 Updating Drivers and the Utility" on page 24.

4. After the installation is completed, switch your MultiPoint Server system to the Station mode.
5. Reconnect all station hubs.

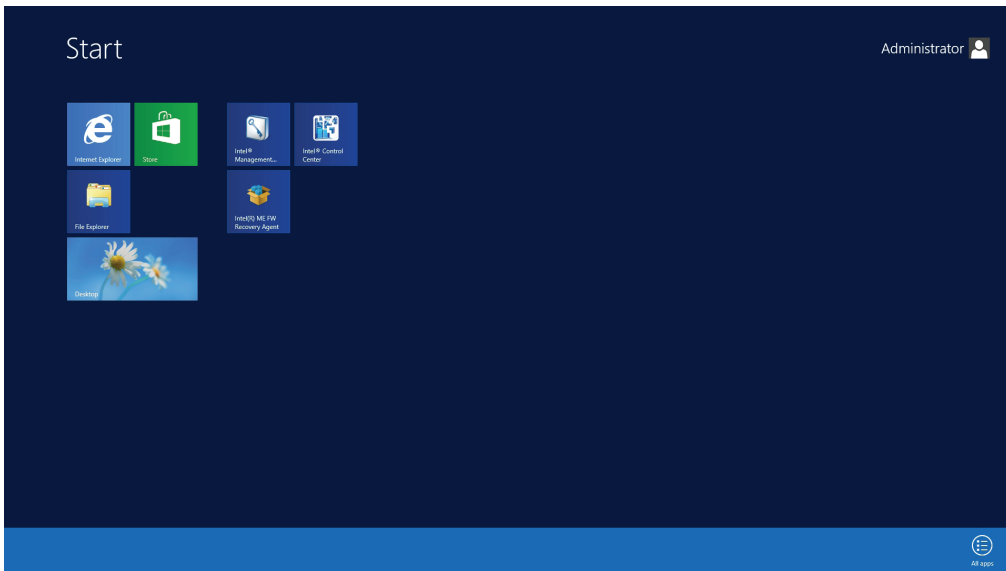
3.3 Initial Setup


The bonding between the host server and your m320-based LAN station is created through the Ethernet interface. Except for this physical connection, to create the bonding between both, you need to assign your LAN station to its host server. Once the bonding is established, your LAN station is ready for use. Follow the steps below to complete this initial setup:

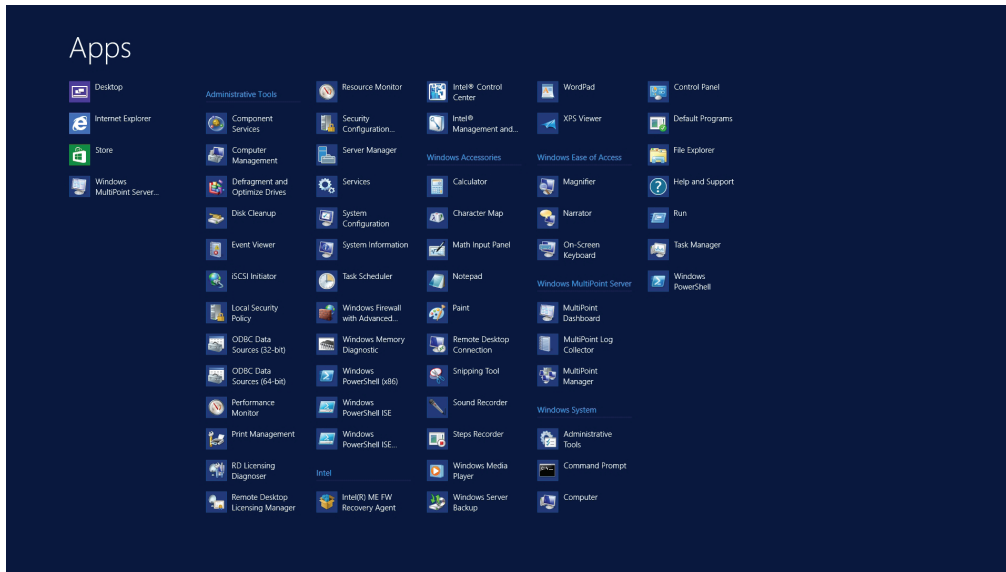
1. On the desired host server, log in with an administrative account.
2. The Start screen appears.




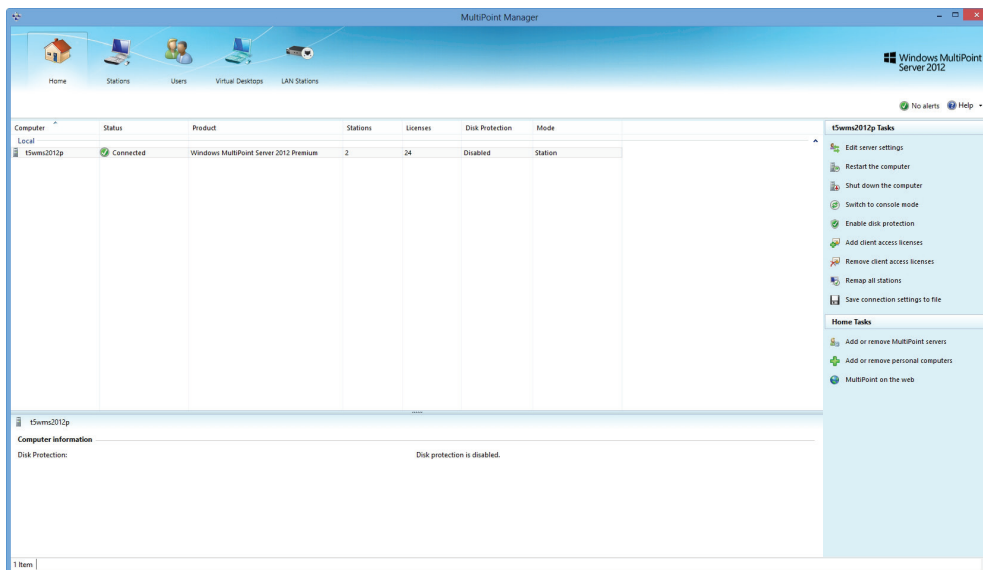
3. Right-click on the Start screen. A blue bar appears on the bottom of the screen.



- Click **All apps**  in the right-bottom corner to enter the screen with a list of all applications on your host server.



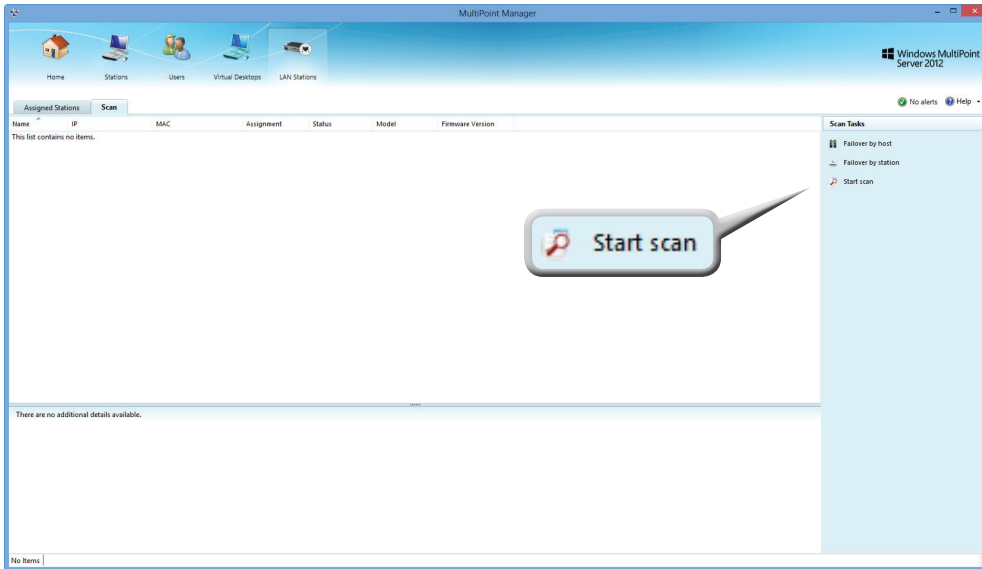
- Click **MultiPoint Manager**  on the Apps list.
- The MultiPoint Manager window appears.



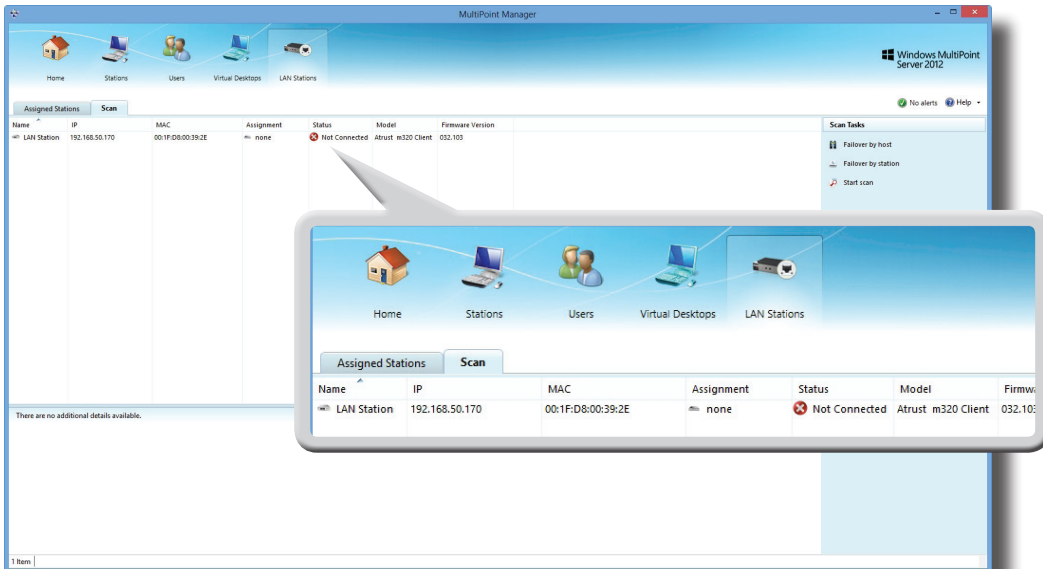
- Ensure that your system is in the Station rather than Console mode (click **Switch to station mode** on the MultiPoint Manager window to switch to the Station mode if needed).

8. On **LAN Stations** tab, click **Scan** sub-tab, and then click **Start scan**.

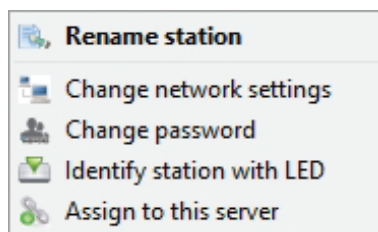
LAN Stations Tab



9. All discovered LAN stations will be listed on the sub-tab.



10. Right-click on the desired LAN station to launch the popup menu, and then click **Assign to this server**.

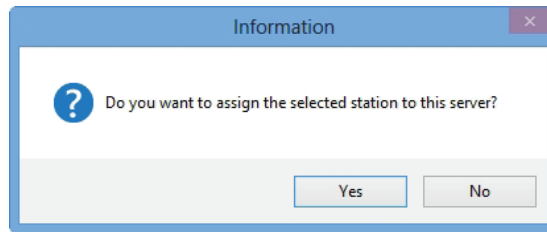




NOTE

- For details on management features available for your m320, please refer to the next chapter “Managing Your LAN Stations” on page 27.

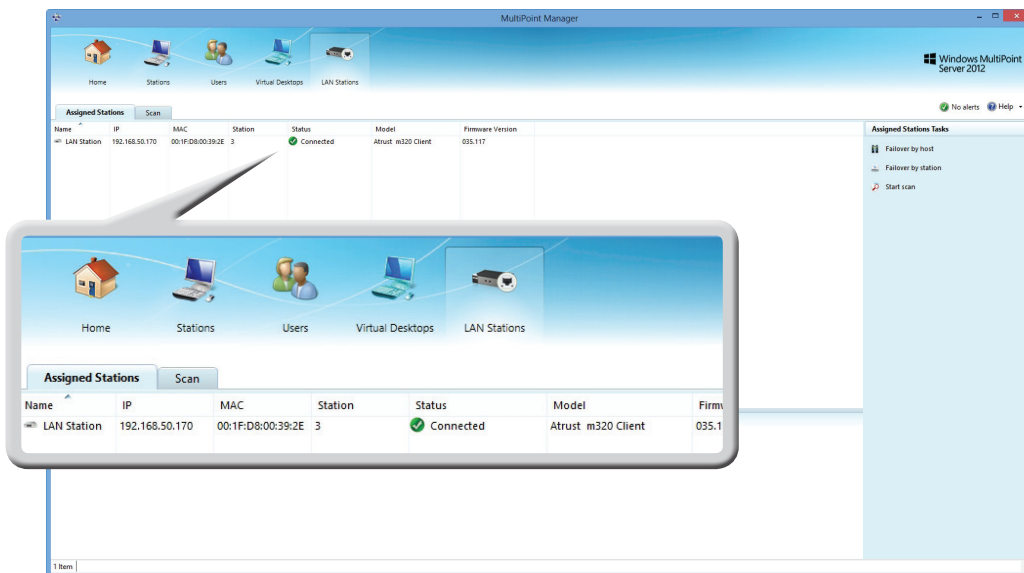
11. A window appears prompting for confirmation. Click **Yes** to confirm.



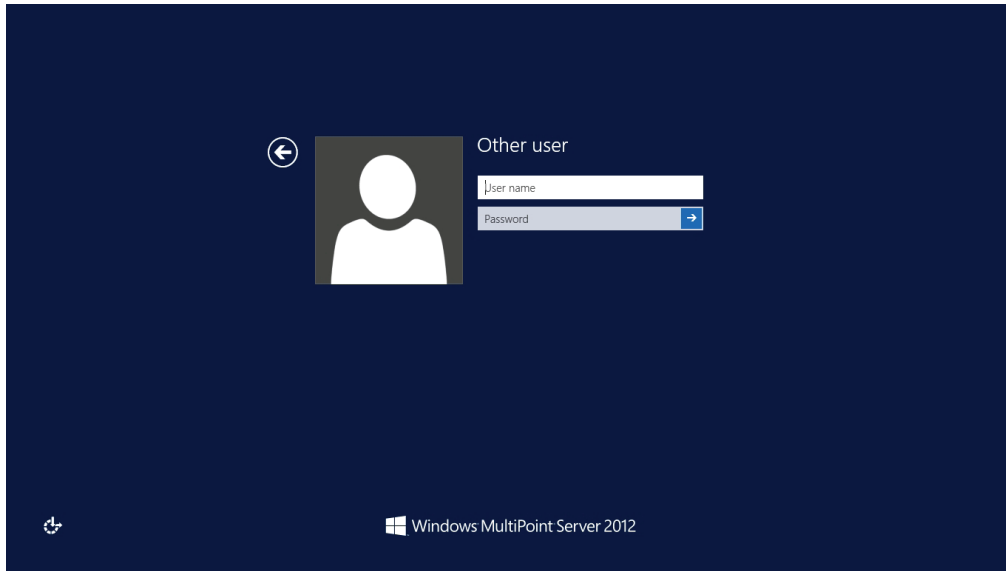
NOTE

- To assign multiple LAN stations to the host server, perform steps 10 through 11 for each station.
- If prompted, the default administrative password for LAN stations is **admin**.

12. After completion, your LAN station is assigned to the desired host server and is moved from **Scan** to **Assigned Stations** sub-tab.



13. The Logon screen appears on the station.



NOTE

- You may need to wait a few seconds for this Logon screen to appear.

14. The bonding between your LAN station and its host server is established, and the m320-based LAN station is now ready for use.

3.4 Updating Drivers and the Utility

Updating the Video Driver for your m320

To update the video driver for your m320-based LAN stations, please do the following:

1. On the primary station, log in to your MultiPoint Server system with an administrative account, and then launch **MultiPoint Manager**.
2. On MultiPoint Manager, switch your system to the Console mode by clicking **Switch to console mode**.
3. A window appears prompting for confirmation. Ensure that you and other system users have saved their work before clicking **OK**.

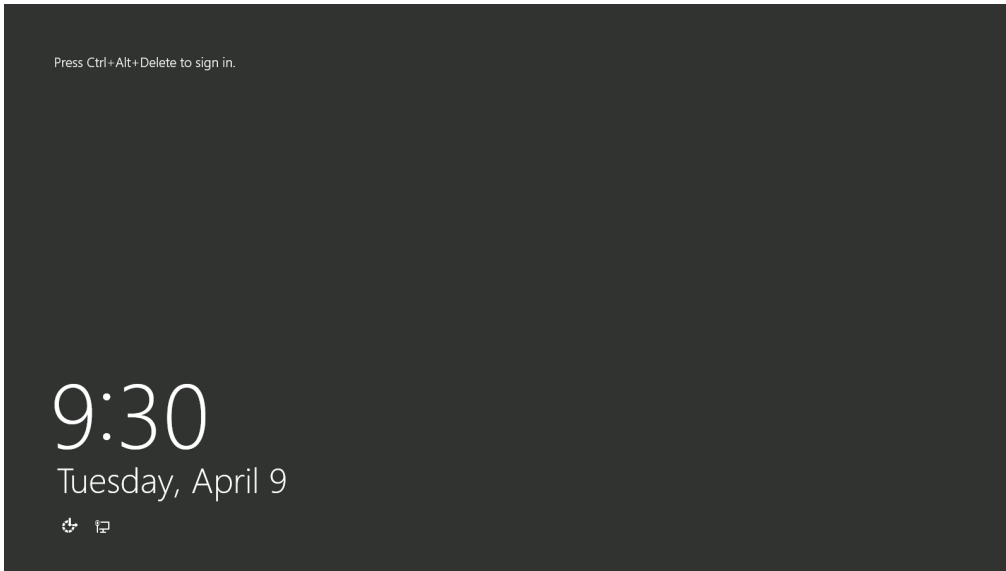


WARNING

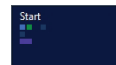
- Switching the system mode will end all user sessions. Ensure all users have saved their work to prevent data loss.

4. Switch off all your m320-based LAN stations.
5. Unplug all your m300 / m302-based USB stations if any.

- On the primary station, press **Ctrl+Alt+Delete**, and then log in with the same administrative account.



- On the desktop, move mouse to the left-bottom corner, and then right-click on the appeared Start button. A popup menu appears.



- Click to select **Programs and Features** on this popup menu.
- On the Programs and Features window, click to select **SMSC WMS FBR Graphics Software**, and then click **Uninstall**.
- A window appears prompting for confirmation. Click **Yes** to confirm.
- Restart your system to complete the uninstallation, and then switch to the Console mode again.
- Install the new video driver, and then restart your system as required.
- After the installation is completed, switch on or replug all your stations.

Updating the LAN Station Driver and MultiPoint Manager Add-in

To update the LAN station driver and MultiPoint Manager Add-in for your m320-based LAN stations, please do the following:

1. On the primary station, log in to your MultiPoint Server system with an administrative account, and then launch **MultiPoint Manager**.
1. On **LAN Stations** tab, click **Assigned Stations**, and release all LAN stations from the host server by clicking each station and **Clear assignment**. Click **Yes** to confirm when prompted.
2. On MultiPoint Manager, switch your system to the Console mode by clicking **Switch to console mode**.
3. A window appears prompting for confirmation. Ensure that you and other system users have saved their work before clicking **OK**.



WARNING

- Switching the system mode will end all user sessions. Ensure all users have saved their work to prevent data loss.

4. Switch off all your m320-based LAN stations.
5. On the primary station, press **Ctrl+Alt+Delete**, and then log in with the same administrative account.
6. On the desktop, move mouse to the left-bottom corner, and then right-click on the appeared [Start]. A popup menu appears.
7. Click to select **Programs and Features** on this popup menu.
8. On the Programs and Features window, click to select **LAN Station Driver and Utility**, and then click **Uninstall**.
9. A window appears prompting for confirmation. Click **Yes** to continue.
10. A new window appears prompting for system restart. Restart your system as required to continue.
11. On the primary station, log in to your system with the same administrative account, and then click **Desktop** on the Start screen.
12. The wizard starts uninstalling **LAN Station Driver and Utility**.
13. After completion, click **Finish** to exit the wizard, and then restart your system as required.
14. Switch to the Console mode again, and then install the new LAN station driver and utility.
15. After completion, click **Finish** to exit the wizard, and then restart your system as required.
16. Switch on all your m320-based LAN stations.
17. Re-assign each LAN station to the host server and allow firmware update when prompted.

4

Managing Your LAN Stations

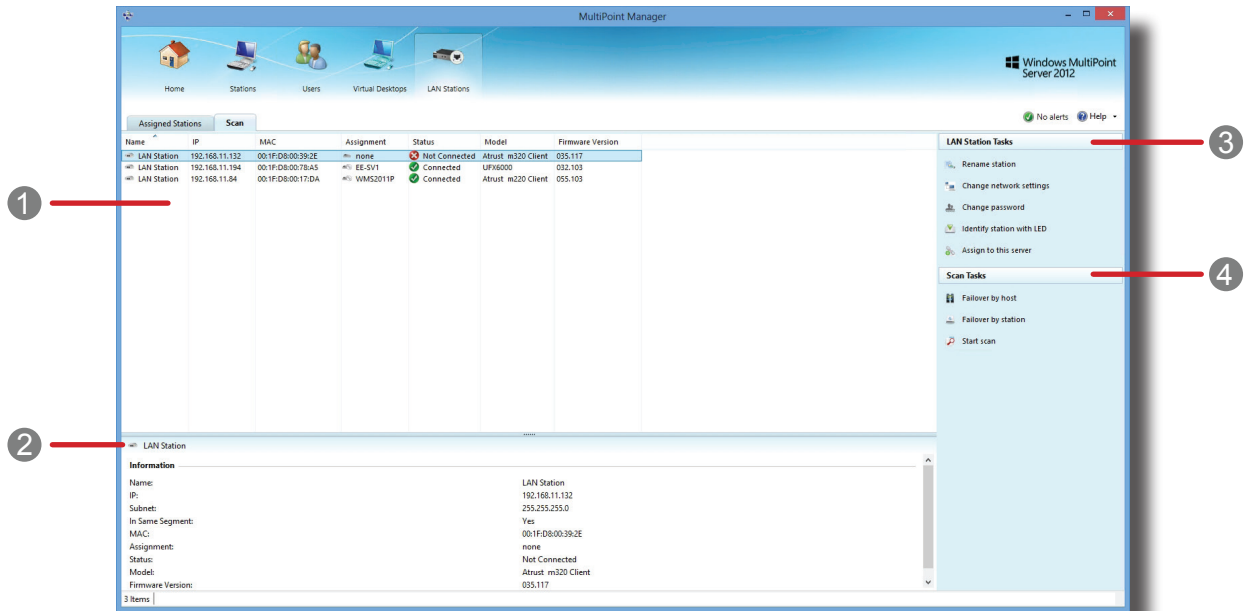
This chapter provides information on how to manage your m320-based LAN stations with the MultiPoint Manager Add-in for LAN stations.

4.1 LAN Stations tab Overview	
Overview of LAN Stations tab for managing LAN stations	29
4.2 Available Tasks at a Glance	
Quick look at available tasks on LAN Stations tab	30
4.3 Taking Over a Failed Host	
How to take over a failed host	31
4.4 Serving Orphaned LAN Stations	
How to serve orphaned LAN stations	32
4.5 Scanning Free LAN Stations	
How to find free LAN stations over your local network	33
4.6 Renaming a LAN Station	
How to rename a LAN station	33
4.7 Adjusting Network Settings for a LAN Station	
How to adjust network settings for a LAN station	34
4.9 Identifying a LAN Station with its Power LED	
How to identify a LAN station with its Power LED	36
4.10 Assigning a LAN Station to a Local Host Server	
How to assign a LAN station to its host server	37
4.11 Clearing the Host Server Assignment for a LAN Station	
How to release a LAN station from its host server	37

4.1 LAN Stations tab Overview

LAN Stations tab enables you to manage LAN based stations (Atrust m320 based). To access the content of LAN Stations tab, click the tab on MultiPoint Manager.

Stations Tab Overview



Interface Elements

No.	Name	Description
1	Main Tab Content area	Displays information on LAN based stations over your local network. Two sub-tabs are available: Assigned Stations and Scan . The former is for managed stations; the latter is for free and manageable stations.
2	Additional Information area	Displays the additional information for a selected LAN station.
3	Specific Task menu	Displays the available tasks for a selected LAN station.
4	General Task menu	Displays the available tasks for all LAN stations.



NOTE

- The available options on a Specific Task menu may vary, depending on the selected item.



TIP

- You can right click on an item to open a context/popup/shortcut menu for quick access to available tasks for the item.

4.2 Available Tasks at a Glance


The image shows three panels of tasks from a management interface:

- Scan Tasks:**
 - 1 Failover by host
 - 2 Failover by station
 - 3 Start scan
- LAN Station Tasks (Top):**
 - 4 Rename station
 - 5 Change network settings
 - 6 Change password
 - 7 Identify station with LED
 - 8 Assign to this server
- LAN Station Tasks (Bottom):**
 - 9 Clear assignment

No.	Available Task	Section	Page
1	select to take over a failed host	4.3	31
2	select to serve orphaned LAN stations	4.4	32
3	scan to find free and manageable LAN stations	4.5	33
4	rename a free and manageable LAN station	4.6	33
5	assign an IP address for a LAN station	4.7	34
6	change the password for a LAN station	4.8	36
7	identify a LAN station with its Power LED	4.9	36
8	assign a LAN station to the local host server	4.10	37
9	clear the host server assignment for a LAN station	4.11	37

4.3 Taking Over a Failed Host

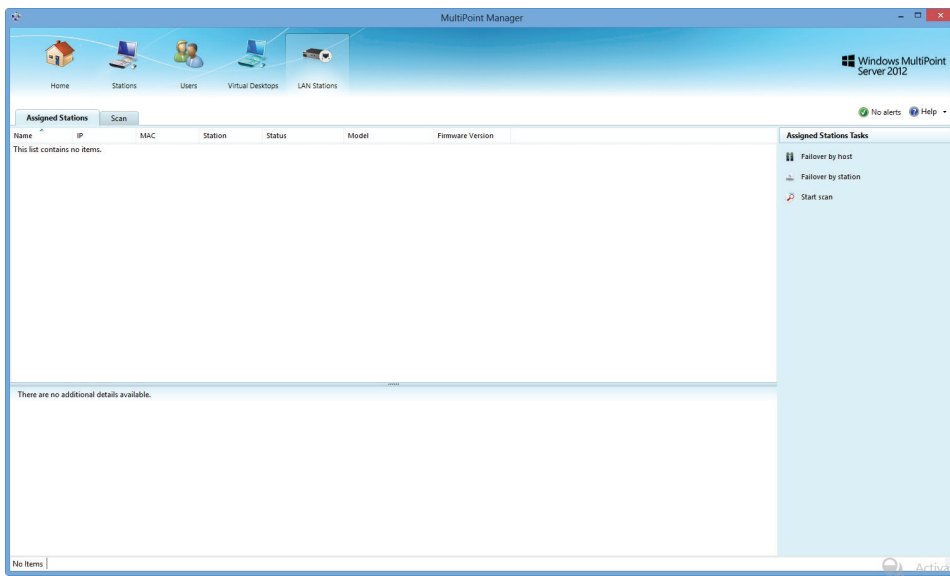
You can designate a computer running Windows MultiPoint Server 2012 as a redundant host for another one. Once the supported host fails, this redundant host will take over all its LAN stations.


 **NOTE**

- Only LAN stations (m320-based) can be taken over by the redundant host; USB stations (m300 / m302-based) cannot.
- You must install the drivers and utility of LAN stations for a redundant host. For detailed instructions, please refer to section “3.2 Installing Drivers and the Utility” on page 19.
- Once the supported host recovers, it will automatically take over all LAN stations assigned to it. Users will be disconnected from their sessions if any on the redundant host.

To designate a redundant host for another one, please do the following:

1. Log in to the planned **redundant host** with an administrative account, launch MultiPoint Manager, and then click **LAN Stations** tab.

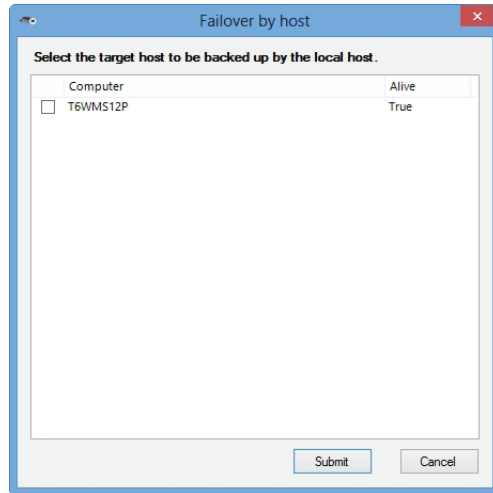


 **NOTE**

- Ensure that the drivers and utility for LAN stations are installed on this redundant host. Otherwise, **LAN Stations** tab won't appear on MultiPoint Manager.

2. On **LAN Stations** tab, click **Failover by host**.

3. A window appears with a Target Host list.



4. Click to select the target host for this redundant host, and then click **Submit** to apply.

4.4 Serving Orphaned LAN Stations

You can designate a computer running Windows MultiPoint Server 2012 as a redundant host for m320-based LAN stations. Once their host fails, this redundant host will take over all orphaned stations.



NOTE

- Only LAN stations (m320-based) can be taken over by the redundant host; USB stations (m300 / m302-based) cannot.
- You must install the drivers and utility of LAN stations for a redundant host. For detailed instructions, please refer to section “3.2 Installing Drivers and the Utility” on page 19.
- Once their host recovers, LAN stations will be taken over again automatically. Users will be disconnected from their sessions if any on the redundant host.

To designate a redundant host for LAN stations, please do the following:

1. Log in to the planned **redundant host** with an administrative account, launch MultiPoint Manager, and then click **LAN Stations** tab.

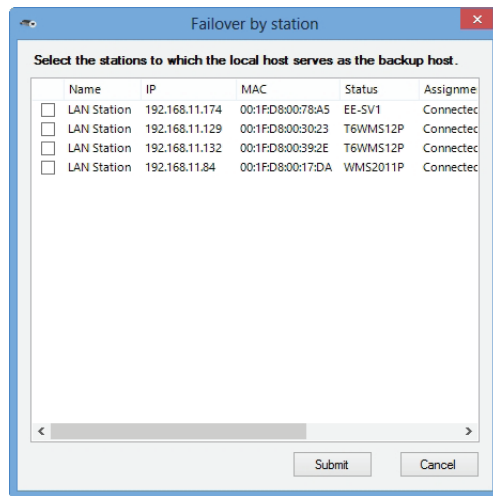


NOTE

- Ensure that the drivers and utility for LAN stations are installed on this redundant host. Otherwise, **LAN Stations** tab won't appear on MultiPoint Manager.

2. On **LAN Stations** tab, click **Failover by station**.

3. A window appears with a LAN Station list.



4. Click to select the desired LAN stations, and then click **Submit** to apply.

4.5 Scanning Free LAN Stations

To find free LAN stations over your local network, please do the following:

1. On **LAN Stations** tab, click **Scan** sub-tab, and then click **Start scan**.
2. All discovered LAN stations will be listed on the sub-tab.



NOTE

- Only manageable LAN stations (Atrust m320 based) will be listed.

4.6 Renaming a LAN Station

To rename a LAN station, please do the following:



NOTE


- You are not allowed to rename a managed LAN station (assigned to a MultiPoint® Server system). Only a free LAN station can be renamed.
- To rename a managed LAN station, you need to release the station from its host server first. For instructions on how to release a LAN station, refer to section “4.11 Clearing the Host Server Assignment for a LAN Station” on page 37.

1. On **LAN Stations** tab, click **Scan** sub-tab, and then click to select the desired free LAN station.
2. Click **Rename station**. The Rename window then appears.
3. Type a new name, and then click **Submit** to apply.

4.7 Adjusting Network Settings for a LAN Station

For your LAN station to be managed by a host server and ready for use, an IP address assigned to the station is required. Normally, your Atrust m320 will perform network environment detection and choose an appropriate IP address automatically. In case that you need to adjust the network configuration for your m320, refer to the table below as guidelines on manual adjustment. Depending on different physical connections (see “2.2 Getting Connected” on page 13), you need to select different methods to assign the IP address.


Two Methods for Assigning an IP Address to a LAN Station		
Physical Connection Method for LAN station	Description	IP Assignment Method
Method 1	connect m320 to your local network through the same Gigabit switch as the host server	automatically assign an IP address by the DHCP server over your local network
Method 2	connect m320 to your local network indirectly through the host server	manually assign an IP address

 **NOTE**

- Only the network settings of a free LAN station can be adjusted.

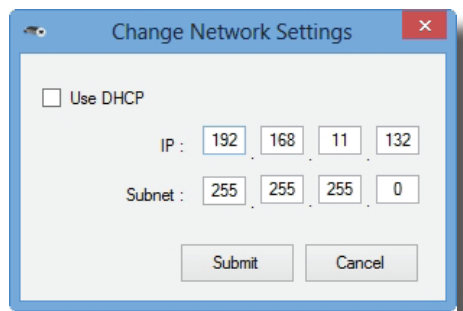
Assigning an IP address automatically by the DHCP server

To assign an IP address automatically by the DHCP server for a LAN station, please do the following:

 **NOTE**

- Ensure that your LAN station uses the method 1. See the description and related section referred to at the beginning of this section.


1. On **LAN Stations** tab, click **Scan** sub-tab, and then click to select the desired free LAN station.
2. Click **Change network settings**. The Change Network Settings window appears.



3. Click to check **Use DHCP**, and then click **Submit** to apply.


Assigning an IP Address Manually

To assign an IP address manually for a station, please do the following:

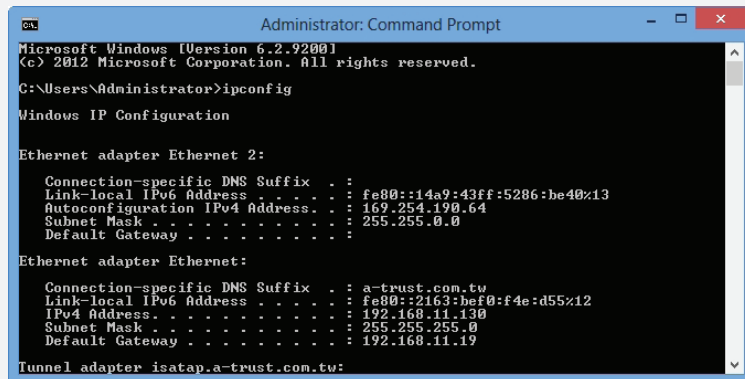
 **NOTE**

- Ensure that your LAN station uses the method 2. See the description and related section referred to at the beginning of this section.

1. On **LAN Stations** tab, click **Scan** sub-tab, and then click to select the desired free LAN station.
2. Click **Change network settings**. The Change Network Settings window appears.
3. Click to uncheck **Use DHCP**, and then type an appropriate IP address and subnet mask for the selected LAN station.
4. Click **Submit** to apply.

 **TIP**

- To find out an appropriate IP address for a LAN station, please do the following:
 1. On the host server side (the primary station), right-click on the Start screen. A blue bar appears on the bottom of the screen.
 2. Click **All apps** in the right-bottom corner to enter the screen with a list of all applications on your host server, and then click **Command Prompt**.
 3. The Command Prompt window appears.
 4. Type **ipconfig**, and then press **Enter**. The information about IP configuration is shown in the window.



```

Administrator: Command Prompt
Microsoft Windows [Version 6.2.9200]
(c) 2012 Microsoft Corporation. All rights reserved.
C:\Users\Administrator>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet 2:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::14a9:43ff:5286:be40%13
    Autoconfiguration IPv4 Address. . . : 169.254.190.64
    Subnet Mask . . . . . : 255.255.0.0
    Default Gateway . . . . . : 

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : a-trust.com.tw
    Link-local IPv6 Address . . . . . : fe80::2163:bef0:f4e:d55%12
    IPv4 Address. . . . . : 192.168.11.130
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.11.19

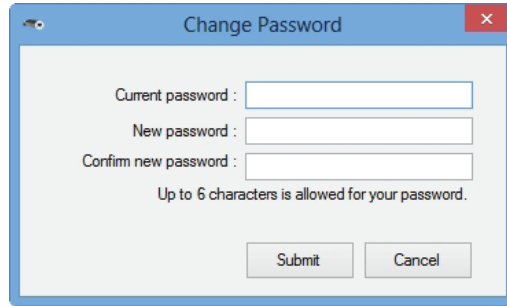
Tunnel adapter isatap.a-trust.com.tw:
    
```

5. Under **Ethernet adapter Ethernet** or **Ethernet adapter Ethernet 2**, you can find the IP address w.x.y.z (Autoconfiguration IPv4 Address; e.g. 169.254.190.64, in above case) and subnet mask information for the host server's LAN port which is used to connect a Gigabit switch and your LAN station (the other LAN port is connected to your local network).
6. You could then assign your LAN stations an IP address in sequence, for example, w.x.y.z+1, w.x.y.z+2, w.x.y.z+3, etc.

4.8 Changing the Password for a LAN Station

To change the password for a LAN station, please do the following:

1. On **LAN Stations** tab, click **Scan** sub-tab, and then click the desired free LAN station.
2. Click **Change password**. The Change Password window appears prompting you to type your current and new passwords. The default is **admin**.



Change Password

Current password :

New password :

Confirm new password :

Up to 6 characters is allowed for your password.

Submit Cancel

3. Type passwords and click **Submit** to apply.



NOTE

- You will need this password if you want to re-assign a LAN station which was assigned to another host server but is not connected to that server now.

4.9 Identifying a LAN Station with its Power LED

To identify a LAN station with its Power LED, please do the following:

1. On **LAN Stations** tab, click **Scan/Assigned Stations** sub-tab, and then click to select the desired LAN station.



NOTE

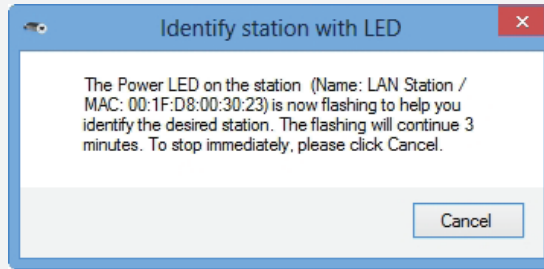
- If your LAN station is managed by the server, you can find it on **Assigned Stations** sub-tab. Otherwise, you can find your free LAN station on **Scan** sub-tab.

2. Click **Identify station with LED**. The power LED on the selected station is now flashing to help you identify the station. The flashing will continue for 3 minutes.



NOTE

- To stop flashing immediately, please click **Cancel** on the opened window:



3. Identify the desired station with its flashing Power LED.

4.10 Assigning a LAN Station to a Local Host Server

To assign your LAN station to a local host server, please do the following:



NOTE

- You must log in to the desired host server with an administrative account to assign your LAN station to that server; you are not allowed to assign a LAN station to a remotely managed server.

1. On **LAN Stations** tab, click **Scan** sub-tab, and then click the desired free LAN station.
2. Click **Assign to this server**.
3. When it's done, your station is assigned to the server and is moved from **Scan** to **Assigned Stations** sub-tab.
4. The station is now managed by this host server and is ready for use.

4.11 Clearing the Host Server Assignment for a LAN Station

To clear the host server assignment for a LAN station, please do the following:

1. On **LAN Stations** tab, click **Assigned Stations** sub-tab, and then click the desired LAN station.
2. Click **Clear assignment**.



NOTE

- If you clear the host server assignment for a LAN station which is originally managed by another host server, you may be prompted to provide the password. The default password is **admin** if you didn't change the default.

3. A window appears prompting you for confirmation. Click **OK** to continue.
4. When it's done, your station is released from the server and moved from **Assigned Stations** to **Scan** sub-tab.
5. The station is now free and manageable by another host server.

Specifications

Atrust m320 zero client

Connection type	Gigabit Ethernet (RJ-45)										
License	Windows® MultiPoint® Server 2012 Client Access License (CAL) ¹										
Compatible server OS	Windows® MultiPoint® Server 2012										
Resolutions	Up to 1920 x 1080										
I/O interfaces	<table border="0"> <tr> <td>Front Panel:</td> <td>Rear Panel:</td> </tr> <tr> <td>2 x USB (A type, for extra USB devices)</td> <td>1 x RJ-45 (Gigabit Ethernet, for connecting to host)</td> </tr> <tr> <td>1 x headphone</td> <td>2 x USB (A type, only for keyboard/mouse)</td> </tr> <tr> <td>1 x microphone</td> <td>1 x VGA</td> </tr> <tr> <td></td> <td>1 x DC IN</td> </tr> </table>	Front Panel:	Rear Panel:	2 x USB (A type, for extra USB devices)	1 x RJ-45 (Gigabit Ethernet, for connecting to host)	1 x headphone	2 x USB (A type, only for keyboard/mouse)	1 x microphone	1 x VGA		1 x DC IN
Front Panel:	Rear Panel:										
2 x USB (A type, for extra USB devices)	1 x RJ-45 (Gigabit Ethernet, for connecting to host)										
1 x headphone	2 x USB (A type, only for keyboard/mouse)										
1 x microphone	1 x VGA										
	1 x DC IN										
Security	1 x Kensington lock slot										
Power	INPUT: 100-240Vac, 50-60Hz, 300mA OUTPUT: +5Vdc, 2A MAX										
Mount	VESA mount kit, (W) 114 x (H) 6 x (D) 60 mm (optional)										
Dimensions	(W) 120 x (H) 28 x (D) 80 mm										
Weight	128 g (approx.), excluding AC adaptor										
Environment	Operating Temperature: 0° C ~ 35° C Operating Humidity (Rh): 10% ~ 90% (non-condensing) Non-operating Humidity (Rh): 5% ~ 95%										

¹ Your deal may not contain this OEM Windows MultiPoint Server 2012 CAL. To obtain a license, please refer to Microsoft web pages at <http://www.microsoft.com/windows/multiplatform/buy.aspx> or <http://www.microsoft.com/windows/multiplatform/default.aspx>.

Atrust