

Scanner 3100 Wi-Fi & Advanced Networking Guide

Manual No. 50349155, Rev 2

INTELLIGENT ACTION

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Important Information

Symbols and Terms Used in this Manual

$\underline{\mathbb{A}}$	WARNII	NG This symbol identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss.
Cautio	n	Indicates actions or procedures which if not performed correctly may lead to personal injury or incorrect function of the instrument or connected equipment.
IMPO	RTANT	Indicates actions or procedures which may affect instrument operation or may lead to an instrument response which is not planned.
Note	Indicat operat	tes additional information about specific conditions or circumstances that may affect instrument ion.

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Section 1 - INTRODUCTION TO WI-FI & ADVANCED NETWORKING

The optional Wi-Fi & Advanced Networking expansion enables the Scanner 3100 flow computer to establish a local wireless network or to connect to an existing wireless network. This feature allows you to connect to the Scanner 3100 using the integral Wi-Fi of a smartphone, tablet, or PC, thereby avoiding the need to open the device enclosure to access the web interface through the wired Ethernet connection. Connecting to your established wireless network infrastructure brings immediate connectivity to the Scanner 3100 Web Interface, FTP server, and TCP communication ports.

Since this is an optional expansion, it is important to ensure it is installed before attempting any connection or configuration of the Wi-Fi & Advanced Networking expansion. This can be verified by holding your hand an inch or less away from the left side of the screen. After 3 seconds, the screen will switch to show the LAN and Wi-Fi configurations. If the Wi-Fi says "Not Installed", then the Wi-Fi & Advanced Networking expansion is not installed.

With Wi-Fi & Advanced Networking expansion board installed in the Scanner 3100, the Ethernet connection is also upgraded with additional features. In addition to connecting to existing managed networks as a client, the Scanner 3100 can also act as a router, creating and managing its own local network of wired devices. This feature allows you to operate the Scanner 3100 as a stand-alone network and directly connect a wired laptop with ease, requiring only an ethernet cable and no additional networking equipment.

The Wi-Fi connection on the Scanner 3100 is independent and separate from the Ethernet connection; using one does not limit or preclude the use of the other. For example, you can connect the Scanner 3100 to your wired infrastructure while configuring the Scanner 3100 to additionally provide a wireless access point for user Wi-Fi enabled devices.

Wired and wireless networks in the Scanner 3100 are not bridged and adding an additional network poses no security risk to the others. A user connecting via Wi-Fi to the Scanner 3100 is on a separate network and cannot access computers or resources that may be connected to the Scanner 3100's wired network. Similarly users connected to the wired network have no access to resources on the wireless network.

This guide will provide steps on how to connect to your Scanner 3100 for the first time using the Ethernet so you may gain access to the Web Interface for configuration, and how to configure your Scanner 3100 as a Wireless Access Point, a Wireless Client, an Ethernet DHCP (Stand-Alone) LAN server, or an Ethernet Client. This guide also details the steps for connecting your personal Wi-Fi or Ethernet enabled devices to a Scanner 3100 that is already configured in one of these modes.

Scanner 3100 Network Configurations

A Scanner 3100 equipped with a Wi-Fi expansion module can be configured to operate in one of two Wireless modes and one of two Ethernet modes, as described below.

Wireless Access Point

A wireless access point is a device that creates a wireless local area network for other devices to connect to. As a wireless access point, the Scanner 3100 hosts a public network (as shown in Figure 1) with the Scanner 3100 as the default SSID. If you have more than one wireless access point (i.e. two Scanner 3100's hosting separate wireless access points), each public network must have a unique SSID.





Figure 1 - Wireless Access Point

Wireless Client

As a wireless client, the Scanner 3100 connects to an existing wireless network (as shown in Figure 2), thereby allowing the Scanner 3100 to be available on a customer's existing Wi-Fi network through the IP address assigned by the customer's DHCP server. The Scanner 3100 can also be configured by assigning it a valid static IP address on the customer's existing network.

The section Configure the Scanner 3100 as a Wireless Client (page 15) will step you through this configuration.

Ethernet Client

As an ethernet client, the Scanner 3100 connects to an existing wired network (as shown in Figure 3), thereby allowing the Scanner 3100 to be available on a customer's existing network through the IP address assigned by the customer's DHCP server. The Scanner 3100 can also be configured by assigning it a valid static IP address on the customer's existing network.

The section Configure the Scanner 3100 as an Ethernet Client (page 19) will step you through this configuration.



Figure 2 - Wireless Client



Figure 3 - Ethernet Client

Ethernet DHCP Server

A DHCP server is a device that dynamically assigns IP addresses to devices that connect to the network it is operating on. When configured as a ethernet DHCP server and not connected to any other wired network, the Scanner 3100 hosts its own managed wired network (as shown in Figure 4). This permits users to connect their personal Ethernet enabled device (e.g. Laptop) directly to the Scanner 3100 with an ethernet cable with no additional configuration or equipment.

The section Configure the Scanner 3100 as a DHCP Server (page 23) will step you through this configuration.



Figure 4 - Ethernet DHCP Server

Quick Start Flow Chart

Figure 5, summarizes the workflows for the first-time configuration of Scanner 3100 network options and the options to either connect or configure the Scanner 3100. Figure 6 (page 4) and Figure 7 (page 5) give more detailed options on configuring or connecting to a Scanner 3100 for different network configurations.



Figure 5 - Scanner 3100 network configuration and connection options flow chart



Figure 6 - Scanner 3100 network configuration options flow chart



Figure 7 - Scanner 3100 network connection options flow chart

Section 2 - CONNECTING TO THE SCANNER 3100 FOR THE FIRST TIME

When first connecting to the Scanner 3100 and a wireless connection has not been configured yet, you will have to connect through the Ethernet port to configure the wireless network or to further configure the Ethernet network. Once connected, you can then proceed to configure either a Wireless Access Point or a Wireless Client, or a wired network as a DHCP client or DHCP server.

There are two ways in which the Scanner 3100 can be connected to the Ethernet for the first time: connecting to an existing managed network, or connecting directly to the Scanner 3100 without a managed network - "Stand alone Ethernet Access".

Depending on the network you are connecting to, the Scanner 3100 may have to operate as a DHCP Client (existing managed network) or as a DHCP Server (Stand-Alone Ethernet Access). The Scanner 3100 network interface can be changed from the Scanner 3100 keypad.

Figure 8 shows the effects of entering and exiting the Stand Alone mode. The instructions below will tell you how and when to activate these modes.

Stand- Alone Ethernet Access Mode	Keypad Combination	Without Advanced Networking Option Installed	With Advanced Networking Option Installed
OFF (default)	ACCESS+LEFT	DHCP Client Enabled Scanner 3100 continually searches for server until found. All network parameters granted by server.	DHCP Client Enabled Scanner 3100 continually searches for server until found. All network parameters granted by server. When enabling mode, the network may reset.
ON	ACCESS+UP	Static Network Settings Scanner 3100 sets network to user configured settings.	DHCP Server Enabled Scanner 3100 manages the Ethernet network. Scanner 3100 will grant an address to any directly connected computer. When enabling mode, the network may reset.
		Client Defaults: IP Address: 192.168.0.40 Default Gateway: 192.168.0.254 Subnet Mask: 255.255.255.0 Primary DNS Server: 194.25.2.129 Secondary DNS Server: 194.25.2.130	Server Defaults: IP Address: 192.168.0.40 Default Gateway: 192.168.0.254 Subnet Mask: 255.255.255.0 Primary DNS Server: 194.25.2.129 Secondary DNS Server: 194.25.2.130
			Client Settings Defaults: Start IP Address: 192.168.0.100 Maximum Clients: 5 Lease Time: 12 hours

Figure 8 - Stand-Alone Ethernet Access Modes

Connecting the Scanner 3100 to an existing managed network

Follow the steps in this section if you are connecting the Scanner 3100 for the first time using an existing work or home network which is managed by a router or server.

IMPORTANT Place hand over the left hand side of the Scanner 3100 LCD for 8 seconds to wake up the gesture detection mode.

- 1. Configure the Scanner 3100 as a "LAN Client (DHCP)" using the keypad on the Scanner 3100 faceplate:
 - a. Press <ACCESS> and <LEFT> keypad buttons together at the same time (Refer to Figure 8).
 - b. Release the buttons at the same time.
 - c. Wait 3 seconds and a Ethernet Mode Stand-Alone Off message will appear.
 - d. The Scanner 3100 will restart the network configurations. A **Restarting Network** message will appear on the device and the restart will take 90 seconds.
- To confirm if the Scanner 3100 is configured as a LAN Client (DHCP), cover the left side of the Scanner 3100 LCD and after 3 seconds a window will appear as shown in Figure 9. The lower section of the window will show the LAN Client (DHCP).
- 3. Connect the Scanner 3100's Ethernet Port to the managed network with an Ethernet cable.



Figure 9 - LAN Client (DHCP)

- 4. On the Scanner 3100 faceplate, top left corner of LCD:
 - a. A **Not Connected** or **Link Searching** message may appear while the Scanner is negotiating its IP address.
 - b. The IP address appears (see Figure 10).



- 5. Open any Web Browser (e.g. Chrome, Internet Explorer, Safari, etc.):
 - a. Type the IP address from the top left hand corner of the Scanner 3100 LCD into the browser's address bar, as shown on Figure 11. You may also enter http://scanner if there is only one scanner on the network.

🛞 http://192.168.0.40/

Figure 11 - Web browser entry of IP Address

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b. The Scanner 3100 home page will appear as shown in Figure 12.

	Scanner 3100	
	Scanner 3100 Flow Computer	
	Device Login Page	
	User Name	
	Password	
	Remember me on this computer	
	Login	
Copyright © 2011-8, Schlumberger. All rights reserved.	Ready	build 1012

Figure 12 - Scanner 3100 Login Screen

6. Log into the Scanner 3100 using the following default credentials:

User Name – **admin** and Password – **scanner**. Note: User names and passwords are case sensitive.

7. Click on the **Login** button and now you are successfully connected to the Ethernet for the first time using LAN Server (DHCP).

Now the Scanner 3100 has been successfully setup to connect to the Ethernet directly over a managed network, you now have the option to either: Configure the Scanner 3100 as a Wireless Access Point (page 11), or Configure the Scanner 3100 as a Wireless Client (page 15).

However, if you want to further configure the Ethernet settings on the Scanner 3100 go to Section 4 - CON-FIGURING AN ETHERNET NETWORK (page 19).

Connecting directly to the Scanner 3100 without a managed network – Stand-Alone Ethernet Access

Follow the steps in this section if you are connecting the Scanner 3100 for the first time when there is no existing managed network for the Scanner 3100 to connect to (Stand-Alone Access). These steps will setup the Scanner 3100 as a DHCP Server and the Scanner 3100 will issue an IP address a device (e.g. laptop, PC) connected to it through an ethernet cable.

IMPORTANT Place hand over the left hand side of the Scanner 3100 LCD for 8 seconds to wake up the gesture detection mode.

- 1. Configure the Scanner 3100 as a "LAN Server" using the keypad on the Scanner 3100 faceplate:
 - a. Press <ACCESS> and <UP> keypad buttons together at the same time (Refer to Figure 8).
 - b. Release the buttons at the same time.
 - c. Wait 3 seconds and a Ethernet Mode Stand-Alone On message will appear.

- d. The Scanner 3100 will restart the network configurations. A **Restarting Network** message will appear on the device and the restart will take 90 seconds.
- 2. To confirm if the Scanner 3100 is connected as a LAN Server, cover the left side of the Scanner 3100 LCD and after 3 seconds a window will appear as shown in Figure 13. The lower section of the window will show the LAN Server.





- 3. Plug in the Scanner 3100 directly into the device (laptop) with an Ethernet cable.
- 4. On the Scanner 3100 faceplate, top left corner of LCD:
 - a. A **Not Connected** Or **Link Searching** message may appear while the Scanner is negotiating the IP address.
 - b. The IP address appears (see Figure 14).

IP: 192.168.000.040	다. 🖸 🚿 🛡 20110
FlowRun1_GasVolumeF	
©6170.2 2	Lm ³ /day
223.2 m ³	729.6 m ³
FlowRun1_DailyRunTime	
3126.0 s	1035.0 s

Figure 14 - IP Address

- 5. Open any Web Browser (e.g. Chrome, Internet Explorer, Safari, etc.):
 - a. Type the IP address from the top left hand corner of the Scanner 3100 LCD into the browser's address bar, as shown in Figure 15.

🛞 http://192.168.0.40/

- C

Figure 15 - Web browser entry of IP Address

The Scanner 3100 home page will appear as shown in Figure 16.

	Scanner 3100	SEASIA
	Scanner 3100 Flow Computer	
	Device Login Page	
	User Name	
	Password	
	Remember me on this computer	
	Login	
Copyright © 2011-8, Schlumberger. All rights reserved.	Ready	build 1012

Figure 16 - Scanner 3100 Login Screen

6. Log into the Scanner 3100 using the following default credentials:

User Name – **admin** and Password – **Scanner**. Note: User names and passwords are case sensitive.

7. Click on the **Login** button and now you are successfully connected to the Ethernet for the first time using the Scanner 3100 as the LAN Server.

Now the Scanner 3100 has been successfully setup to connect to the Ethernet directly over a unmanaged network (stand-alone), you now have the option to either: Configure the Scanner 3100 as a Wireless Access Point (page 11), or Configure the Scanner 3100 as a Wireless Client (page 15). However, if you want to further configure the Ethernet settings on the Scanner 3100 go to Section 4 - CON-FIGURING AN ETHERNET NETWORK (page 19).

Section 3 - CONFIGURING A WIRELESS NETWORK

Now the Scanner 3100 has been successfully setup with an Ethernet connection, you can configure the wireless network. There are two ways to configure the Scanner 3100 on a wireless network, either a Wireless Access Point or a Wireless Client.

Configure the Scanner 3100 as a Wireless Access Point

1. When the Device Status screen appears, select **Administration**→**Network** from the main toolbar above the Status screen as shown in Figure 17.



Figure 17 - Navigation to Network menu item

2. Click the **Wi-Fi** button located on the left side toolbar. The Wi-Fi Configuration screen will appear as shown in Figure 18.

vice Local I/O 🗸	Slave Devices v	Flow Runs ~	Control ~	Archives 🗸	Communications ~	Administration V	Log Out
	'i-Fi Configura			7 WOINFOS	Communications	, anni isu duon	
	ne > Administration > Network	and a minute second of	ion				
Ethernet	Modify				Changes made to these se	ettings will require the networ	k interface to reinitial
	Wi-Fi Configurati	on					
	Item	Valu	e				
Management	nable Wi-Fi Port	No					
letwork Module	Vi-Fi Service Mode	Wirel	ess Client				
V	Vireless Transmit Power	10dB	m (10mW)				
Refresh	Wireless Client C	onfiguratio	'n				
	Item	Valu	e				
c	lient Address Type	Dyna	mically Assigne	d IP Parameters	(DHCP client)		
s	SID	Polar	tek2.4GHz				
1	Wi-Fi Security Pa	rameters -	Wireless	Client			
	Item	Valu	e				
	ncryption Type		-PSK AES				

Figure 18 - View Wi-Fi Configuration screen

3. Click **Modify** button to change the Wi-Fi settings.

Section 3

- 4. Under the 'Wi-Fi Configuration' heading;
 - a. On the Enable Wi-Fi Port field select 'Yes' to enable the Wi-Fi port or 'No' to disable the Wi-Fi port from the dropdown list.
 - b. To configure the device to act as a wireless access point, click on the Wi-Fi Service Mode field and select 'Wireless Access Point' from the Change Wi-Fi Service Mode dialog, as shown in Figure 19.
 - c. Select the wireless transmit power from the Wireless Transmit Power dropdown list.

Service Mode								
Mode	Description							
Wireless Client	Connect to an access point in infrastructure mode							
Wireless Access Point	Function as an access point and receive connections from wireless clients (e.g. phones, tablets).							

Figure 19 - Change Wi-Fi Service Mode dialog

5. Under the 'Access Point Configuration' heading (which will only appear if you select Wireless Access Point as the service mode), as shown on Figure 20.

Item	Value	
Radio Band	802.11n	•
Channel	Auto	•
Channel Width	20 MHz	•
SSID	Scanner3100	
Enable SSID Broadcast	Yes	•

Figure 20 - Access Point Configuration section on the Modify Wi-Fi Configuration screen

- a. Select the Radio Band from the dropdown list. If you are unsure what the band is, choose 802.11n.
- b. Select the Channel from the dropdown list or select 'Auto' to automatically connect to the channel.
- c. Select the Channel Width from the dropdown list.
- d. Type the SSID of the device into the SSID field. The default SSID is 'Scanner3100'.

IMPORTANT Each device must have a unique SSID.

e. On the Enable SSID Broadcast field select 'Yes' to broadcast the device's SSID or select 'No' to not broadcast the device's SSID, and you will have to manually enter the correct SSID on the connecting devices. The SSID field is not tolerant of variations and a mistake will prevent a device from connecting wirelessly to the Scanner 3100.

6. Under the 'Wi-Fi Security Parameters – Access Point' heading, as shown on Figure 21;

Wi-Fi Security Pa	rameters - Access Point
Item	Value
Encryption Type	WPA2-PSK AES 🔻
Passphrase Mode	ASCII (8-63 char)
Passphrase	Password1!

Figure 21 - Wi-Fi Security Parameters-Access Point section on Modify Wi-Fi Configuration screen

- a. Select the Encryption Type from the dropdown list. Cameron recommends the 'WPA2-PSK AES' encryption type because it offers a high level of security.
- b. Select the Passphrase Mode from the dropdown list. The selections will change depending on the Encryption Type selected.
- c. Enter the Passphrase for the encrypted Wi-Fi device in the field provided.
- 7. Under the 'IP Configuration Access Point' heading, as shown in Figure 22;

IP Configuration - /	
Item	Value
Host Name	Scanner3100
IP Address	192.3.100.1
Default Gateway	192.3.100.254
Subnet Mask	255.255.255.0
Primary DNS Server	194.25.2.129
Secondary DNS Server	194.25.2.130

Figure 22 - IP Configuration - Access Point section on the Modify Wi-Fi Configuration screen

- a. Enter the Host Name in the Host Name field.
- b. Enter the IP Address in the IP Address field.
- c. The remaining fields will self-populate.

IMPORTANT Make sure the Wi-Fi subnet entered is different to the Ethernet subnet, if not this conflict will cause the Scanner 3100 to shut down the Wi-Fi network. The message you will see on the web interface is shown in Figure 23.

evice)	Local I/O	¥ :	Slave Device:	*	Flow	Runs	*	Control	*	Archi	cs v	Comm	unications	*	Admir	istration	× .	Log Out	
		Wi-F	i Conf	igu	ratio	on													0
Status		Home >	Administration	> Netw	ork > Wi	-Fi Config	guratio	n											
WI-FI AP CI	ionto (🗶 M-	I INTERFACE	FORCE	D TO SH	IUT DOV	VN - A	conflict ex	ists bet	ween the	Ethernet	and Wi-Fi po	rts. See S	tatus pag	e for more	e informat	tion.	Go to N	etwork Statu
WIFT AP OI	ients		lodify																reinitialize.

Figure 23 - Wi-Fi & Ethernet Conflict message

8. Under the 'DHCP Server Configuration' heading, as shown in Figure 24;

DHCP Server Con	figuration		
Item	Value		
Start IP Address	192.3.100.	100	
Maximum Clients	5		clients
Lease Time	12		hours
ease Time	12		hours

Figure 24 - DHCP Server Configuration section on the Modify Wi-Fi Configuration screen

- a. Start IP Address field; as an Access Point, the Scanner 3100 manages the wireless network, enter the starting IP subnet address to define which addresses the Scanner 3100 will assign to connecting clients.
- b. The Maximum Clients field, enter the maximum number of clients your Scanner-managed network can have at one time. The minimum and maximum number of clients is 1 and 10.
- c. Lease Time field, enter the contract time before an assigned address will be released if its lease is not renewed. The minimum and maximum lease time is 1 and 24.
- 9. Under the 'Wi-Fi Access Control' heading as shown on Figure 25;

Wi-Fi Access Control	I	
Item	Value	
Enable Client Access Sessions	No	•
Session Timeout	1 hr	
Enable Wi-Fi Wake On Gesture	🚯 No	•

Figure 25 - Wi-Fi Access Control section on the Modify Configuration screen

- a. On the Enable Client Access Sessions dropdown field and select 'Yes' or 'No'. When the Wi-Fi Port is enabled in Access Point service mode, Client Access Sessions can be used to limit access by Wi-Fi clients by disabling the wireless network until it is manually activated.
- b. Sessions can be initiated via a Modbus register command, a digital input special function, or by gesture detection. Active Wi-Fi service is maintained during a session while there is network activity from a connected client, but if the timeout period expires without communication, the Wi-Fi service is turned off and the session is closed as shown in Figure 26 and Figure 27.

I <u>P: 192.168.000.088</u> FlowRun1 GasVolumel	FlowBate
1017.48	
	TT /day ote FlowRun1_GasVolumePrevious 0.10 m ³

 IP: 192.168.000.088
 Image: Point 2: Modbus Emron

 Serial Port 2: Modbus Emron

 Baud: 9600 Add: 1

 FlowRun1_GasVolumeDailyTota

 69.27 m³

 FlowRun1_DailyRunTime

 6136.00 s

Figure 26 - Client Access Off

Figure 27 - Client Access On

c. Click on the Session Timeout field to set the time when the client session should be automatically timed out. To reset the device timeout session, log out of the current session or cover the left side of the Scanner LCD for approximately 8 seconds if the Wi-Fi Wake On Gesture feature is enabled.

- d. On the Enable Wi-Fi Wake on Gesture dropdown list, select 'Yes' to enable the feature. To disable the feature select 'No'. When the Wake On Gesture feature is enabled, covering the right side of the Scanner 3100 for a few seconds will activate a Client Access Session.
- 10. Click the Save button to accept the changes. The system will write the changes and reset the wireless configuration settings. All networks will be shut down and restarted after 90 seconds.

Configure the Scanner 3100 as a Wireless Client

1. When the Device Status screen appears, select **Administration**→**Network** from the main toolbar above the Status screen as shown in Figure 28.



Figure 28 - Navigation to Network menu item

2. Click the **Wi-Fi** button located on the left side toolbar. The Wi-Fi Configuration screen will appear as shown in Figure 29.

100	10	Scanner 3100	SEAS Reckwell Automation + Schlu
Local I/O 🗸	Slave Devices 🗸	Flow Runs v Control v Archives v	Communications + Administration + Log Out
W	-Fi Configu	ation	
Home	e > Administration > Netwo	rk > Wi-Fi Configuration	
	Modify		Changes made to these settings will require the network interface to reinit
W	/i-Fi Configurat	ion	
I	tem	Value	
En	able Wi-Fi Port	No	
W	-Fi Service Mode	Wireless Client	
W	reless Transmit Power	10dBm (10mW)	
W	/ireless Client (Configuration	
100	tem	Value	
CI	ent Address Type	Dynamically Assigned IP Parameters	s (DHCP client)
SS	ID	Polartek2.4GHz	
W	/i-Fi Security P	arameters - Wireless Client	
I	tem	Value	
En	cryption Type	WPA2-PSK AES	
Pa	ssphrase Mode	ASCII (8-63 char)	
Pa	ssphrase	******	

Figure 29 - View Wi-Fi Configuration screen

3. Click the **Modify** button to change the Wi-Fi settings.

4. Under the 'Wi-Fi Configuration' heading, as shown on the Figure 30;

Wi-Fi Configuration		
Item	Value	
Enable Wi-Fi Port	Yes 💌	
Wi-Fi Service Mode	Wireless Access Point	
Wireless Transmit Power	17dBm (50mW) -	

Figure 30 - Wi-Fi Configuration section on the Modify Wi-Fi Configuration screen

- a. On the Enable Wi-Fi Port field select 'Yes' to enable the Wi-Fi port or 'No' to disable the Wi-Fi port from the dropdown list.
- b. To configure the device to connect to an existing wireless network as wireless client, click on the Wi-Fi Service Mode field and select 'Wireless Client' from the Change Wi-Fi Service Mode dialog, as shown in Figure 31.
- c. Select the wireless transmit power from the Wireless Transmit Power dropdown list.

.	rvice Mode
ervice Mode	
Mode	Description
Wireless Client	Connect to an access point in infrastructure mode on an existing wireless network.
) Wireless Access Point	Function as an access point and receive connections from wireless clients (e.g. phones, tablets).
	OK Cance

Figure 31 - Change Wi-Fi - Service Mode dialog

5. Under the 'Wireless Client Configuration' heading, as shown on Figure 32;

nfiguration		
Value		
Static IP Parameters		
Polartek2.4GHz	View Available Wi-Fi Networks	2
	Value Static IP Parameters	Value Static IP Parameters

Figure 32 - Wireless Client Configuration section on the Modify Wi-Fi Configuration dialog

a. Click on the Client Address Type field and select whether the IP address should be automatically assigned (Dynamically Assigned) or manually assigned (Static), as shown on Figure 33.

Address Types	
Mode Description	
Static IP Parameters Manually assigned and DNS Servers	IP Address, Subnet Mask, Gateway,
Dynamically Assigned IP Parameters Obtain IP Adress ar acting as a DHCP c	nd other parameters automatically, client

Figure 33 - Change Client Address Type dialog

IMPORTANT Make sure the Wi-Fi subnet entered is different to the Ethernet subnet, if not this conflict will cause the Scanner 3100 to shut down the Wi-Fi network.

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This message you will see on the web interface is shown in Figure 34.

Device	Local I/O	 Slave Devices 	 Flow Runs 	 Control 	 Archiv 	cs ∽ Com	munications	*	Administration	× .	Log Out
	1	Ni-Fi Config	guration								0
Status		Iome > Administration >	Network > Wi-Fi Conf	figuration							
WI-FI AP CI		WI-FI INTERFACE F	ORCED TO SHUT DO	WN - A conflict ex	ists between the E	thernet and Wi-Fi	i ports. See Sta	tus page	e for more informat	tion.	Go to Network Status
DHCP Clie	inte	Modify				Chang	ges made to the	se settin	ngs will require the	network	interface to reinitialize.

Figure 34 - Wi-Fi & Ethernet Conflict message

- b. Enter the Wi-Fi network SSID or click View Available Wi-Fi Networks and select a wireless network from the available list as shown in Figure 35.
- Under the 'Wi-Fi Security Parameters Wireless Client' heading, as shown on Figure 36;
 - a. Select an Encryption Type that matches the target access point's encryption type from the dropdown list. If the access point was selected using the View Available Wi-Fi Networks feature, the encryption type will be selected for you.
 - Select a Passphrase Mode required by the target access point from the dropdown list. The selections will change depending on the Encryption Type selected.
 - c. Enter a Passphrase for the encrypted Wi-Fi device.

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Wireless Netv	vork SSID List
Selection	
elect a SSID to use:	
monoprice_2.4G. CDN Controls, W nR-f031f18C, WF ReNew Floor Cov sdw-f031f18C, W TELUS Passpoint TELUS1053, WPA2 TELUS3244, WPA2 Totalpiping, WF HP-Print-08-Off DIRECT-61-HP Of EDMweedman, WP2 WTELUS. No encr	WPA2, quality: 76% FCCEC1, WPA2, quality: 70% IPA2, quality: 79% MA2, quality: 67% IPA2, quality: 67% IPA2, quality: 51% , wPA2, quality: 51% , quality: 49% MA2, quality: 46% MA2, quality: 46% MA2, quality: 46% MA2, quality: 46% MA2, quality: 36% MA2, quality: 36% MA2, quality: 50% MA2, quality: 46% MA2, quality: 46%

Figure 35 - Select Wi-Fi Network SSID dialog

Item	Value	
Encryption Type	WPA2-PSK AES -	
Passphrase Mode	ASCII (8-63 char)	
Passphrase	Password1!	

Figure 36 - Wi-Fi Security Parameters-Access Point section on Modify Wi-Fi Configuration screen

Section 3

7. Under the 'Static IP Configuration – Wireless Client' heading as shown in Figure 37;

Item	Value
Host Name	Scanner3100
IP Address	192.3.100.1
Default Gateway	192.3.100.254
Subnet Mask	255.255.255.0
Primary DNS Server	194.25.2.129
Secondary DNS Server	194.25.2.130

Figure 37 - IP Configuration - Access Point section on the Modify Wi-Fi Configuration screen

- a. Enter a Host Name into the Host Name field.
- b. Enter an IP Address into the IP Address field.
- c. Enter a Default Gateway into the Default Gateway field.
- d. Enter a Subnet Mask into the Subnet Mask field.
- e. Enter a Primary DNS Server into the Primary DNS Server field.
- f. Enter a Secondary DNS Server into the Secondary DNS Server field.

This section will only appear when Static IP Parameters is selected as the Client Address Type from Wireless Client Configuration section.

8. Click the **Save** button to accept the changes. The system will write the changes and reset the wireless configuration settings. All networks will be shut down and restarted after 90 seconds.

Section 4 - CONFIGURING AN ETHERNET NETWORK

Configure the Scanner 3100 over Ethernet

Now you have the Scanner 3100 setup as a DHCP Client or DHCP Server, this section will describe the way in which you can now configure your Scanner 3100 with the Ethernet connection.

Configure the Scanner 3100 as an Ethernet Client

This section describes how to configure the Scanner 3100 as an Ethernet Client which will connect to a wired network, using either static or dynamic IP address.

1. When the Device Status screen appears, select **Administration**→**Network** from the main toolbar above the Status screen as shown in Figure 38.



Figure 38 - Navigation to Network menu item

2. Click the **Ethernet** button located on the left side toolbar. The Ethernet Configuration screen will appear as shown in Figure 39.



Figure 39 - View Ethernet Configuration screen

- 3. Click the Modify button to change the Ethernet settings.
- 4. Select 'Ethernet Client' from the Change Ethernet Port Mode dialog and click the **OK** button as shown in Figure 40.

ort Mode	
Mode	Description
Ethernet Client	Connect to a wired network, using either a static or dynamic IP address.
DHCP Server	Function as a DHCP server on a wired network and issue dynamic IP addresses to other network clients.

Figure 40 - Change Ethernet Port Mode dialog

- 5. Select one of the Address Types from the Change Client Address Type dialog as shown in Figure 41.
- 6. Click on the OK button on the Change Client Address Type dialog.
 - a. If you selected 'Dynamically Assigned IP Parameters' skip ahead to Step 8.
 - b. If you selected 'Static IP Parameters' continue to Step 7.

Change Client Address	Туре
Address Types	
Mode	Description
Static IP Parameters	Manually assigned IP Address, Subnet Mask, Gateway,
Oynamically Assigned IP Parameters	Obtain IP Adress and other parameters automatically, acting as a DHCP client
	OK Cancel

Figure 41 - Change Client Address Type dialog

7. Under the 'Static IP Configuration – Ethernet Client' heading enter the Host Name, IP Address, Default Gateway, Subnet Mask, Primary DNS Server and Secondary DNS Server into the provided fields as shown in Figure 42.

Item	Value
Host Name	Scanner3100
IP Address	192.168.0.41
Default Gateway	192.168.0.254
Subnet Mask	255.255.255.0
Primary DNS Server	194.25.2.129
Secondary DNS Server	194.25.2.130

Figure 42 - Static IP Configuration – Ethernet Client section on the Modify Ethernet Configuration screen

- 8. Click the **Save** button on the Modify Ethernet Configuration screen to accept the changes.
- 9. A Confirmation dialog appears as shown in Figure 43 and click on the **OK** button.
- 10. The Scanner 3100 will restart the network configurations. A **Restarting Network** message will appear on the device and the restart will take 90 seconds.
- 11. While waiting for the IP Address to appear on the Scanner 3100 LCD in the top left hand corner, a message may appear in the top left hand corner of the Scanner LCD Not Connected or Link Searching.

network interface is restarted. The device will not be accessible during this period. Afterward, the IP address of the device may have changed, depending upon your configuration changes. If the web interface fails to communicate, you may need to close and re-open your browser window, and then reconnect to the device at the new IP address.	Confirm		
changed, depending upon your configuration changes. If the web interface fails to communicate, you may need to close and re-open your browser window, and then reconnect to the device at the new IP address.			s the device to
Afterward, the IP address of the device may have changed, depending upon your configuration changes. If the web interface fails to communicate, you may need to close and re-open your browser window, and then reconnect to the device at the new IP address. Proceed?	network interface is resta	arted. The device w	
Proceed?	changed, depending upo the web interface fails to close and re-open your l	on your configuratio communicate, you browser window, an	n changes. If may need to d then
	Proceed?		
		OK	Cancel

Figure 43 - Confirm Ethernet Configuration changes

Section 4

IMPORTANT Place hand over the left hand side of the Scanner 3100 LCD for 8 seconds to wake up the gesture detection mode.

- 12. To confirm the new network settings are correct on the Scanner 3100, cover the left side of the Scanner 3100 LCD and after 3 seconds a window will appear as shown in Figure 44. The lower section of the window will show LAN Client (STAT).
- 13. Open the Web Browser and log back into the network:
 - Type in the IP address from the top left hand corner of the Scanner 3100 LCD. For example, see IP Address on Figure 44 entered into the browser on Figure 45.

IP: 192.168.000.041	<u> </u>
Device Name: S3 FirmVer: 3.005 Device: A55941D2	SerNum: 305 Software: 85E5502F
WiFT Access Point) : 192.168.000.041 t : 000.000.660.000

Figure 44 - LAN Client (Static)

http://192.168.0.40/

- C

Figure 45 - Web browser entry of IP Address

b. The Scanner 3100 home page will appear as shown in Figure 46.

	Scanner 3100	SEASIA Rockwell Automation + Schlumberger
	Scanner 3100 Flow Computer	
	Device Login Page	
	User Name	
	Password Remember me on this computer	
	Login	
Copyright © 2011-8, Schlumberger. All rights reserved.	Ready	build 1012

Figure 46 - Scanner 3100 Login Screen

14. Log into the Scanner 3100 using the following default credentials:

User Name - **admin** and Password - **scanner**. Note: User Names and passwords are case sensitive.

15. Click on the Login button and now you are successfully connected.

Configure the Scanner 3100 as a DHCP Server

This section will describe how to configure the Scanner 3100 as a DHCP server on a wired network and issue dynamic IP address to other network clients.

1. When the Device Status screen appears, select **Administration**→**Network** from the main toolbar above the Status screen as shown in Figure 47.

0			Scan	ner 31	00	a de la composition de la comp		SEASIA Rockwell Automation + Schlumberger
Device	Local I/O	✓ Slave Devices ✓	Flow Runs 🗸	Control ~	Archives 🗸	Communications	~ Adr	ministration 🗸 Log Out
		Device Status						neral 🕜
Statu	s	Home > Device > Status					and the second division of the second divisio	chnical Support

Figure 47 - Navigation to Network menu item

2. Click the **Ethernet** button located on the left side toolbar. The Ethernet Configuration screen will appear as shown in Figure 48.

cal I/O v Slave Devices	 Flow Runs Control Archives 	 Communications Administration Log Out
Ethernet Co	onfiguration	
Home > Administration >	Network > Ethernet Configuration	
s		Changes made to these settings will require the network interface to re
Ethernet Con	figuration	
Item	Value	
Network Service Mode	e Ethernet Client	
Notwork Oct Nee Mode	e Ethernet Ghent	
Client Address Type	Static IP Parameters	
Client Address Type		
Client Address Type Static IP Con	Static IP Parameters	
Client Address Type Static IP Con Item	Static IP Parameters figuration - Ethernet Client Value	
Client Address Type Static IP Con Item Host Name	Static IP Parameters figuration - Ethernet Client Value Scanner3100	
Client Address Type Static IP Con Item Host Name IP Address	Static IP Parameters figuration - Ethernet Client Value Scanner3100 192.168.0.41	
Client Address Type Static IP Con Item Host Name IP Address Default Gateway	Static IP Parameters figuration - Ethernet Client Value Scanner3100 192.168.0.41 192.168.0.254	

Figure 48 - View Ethernet Configuration screen

- 3. Click **Modify** to change the Ethernet settings.
- 4. Select 'DHCP Server' from the Change Ethernet Port Mode dialog and click on **OK** button as shown in Figure 49.

Change Etherr	net Port Mode
Port Mode	
Mode	Description
Ethernet Client	Connect to a wired network, using either a static or dynamic IP address.
OHCP Server	Function as a DHCP server on a wired network and issue dynamic IP addresses to other network clients.
	OK Car

Figure 49 - Change Ethernet Port Mode dialog

 Under the 'IP Configuration – DHCP Server' heading enter the Hosts Name, IP Address Default Gateway, Subnet Mask, Primary DNS Server and Secondary DNS Server into the provided fields as shown in Figure 50.

Item	Value
Host Name	Scanner3100
IP Address	192.168.0.40
Default Gateway	192.168.0.254
Subnet Mask	255.255.255.0
Primary DNS Server	194.25.2.129
Secondary DNS Server	194.25.2.130

Figure 50 - DHCP Server section on the Ethernet Configuration screen

6. Under the 'DHCP Server Configuration' heading as shown in Figure 51:

DHCP Server Con	figuration		
Item	Value		
Start IP Address	192.168.0.	100	
Maximum Clients	5	clients	
Lease Time	12	hours	

Figure 51 - DHCP Server Configuration section on the Modify Configuration screen

- a. Complete the IP address in the Start IP Address field. As a DHCP Server, the Scanner 3100 manages the wired network. Clients connecting to this network are assigned IP addresses starting at this value.
- b. Enter a value into the Maximum Clients field. This is the maximum number of clients your Scannermanaged network can have at one time. The minimum and maximum number of clients is 1 and 10.
- c. Enter a value into the Lease Time field. This is the number of hours before an assigned IP address will be released if its lease is not renewed. The minimum and maximum lease time is 1 and 24.
- 7. Click the **Save** button on the Modify Ethernet Configuration screen to accept the changes.
- 8. A Confirmation dialog appears as shown in Figure 52 and click on the **OK** button.
- 9. The Scanner 3100 will restart the network configurations. A **Restarting Network** message will appear on the Scanner 3100 LCD and the restart will take 90 seconds.
- While waiting for the IP Address to appear on the Scanner 3100 LCD in the top left hand corner, a message may appear in the top left hand corner of the LCD Not Connected or Link Searching.

Confirm		
Changing the Ethernet cor restart the network interfac		s the device to
There will be a wait of 60 s network interface is restart accessible during this perio	ed. The device wi	
Afterward, the IP address of changed, depending upon the web interface fails to co close and re-open your bror reconnect to the device at	your configuration ommunicate, you owser window, and	n changes. If may need to d then
Proceed?		
	OK	Cancel

Figure 52 - Confirm Ethernet Configuration changes

IMPORTANT Place hand over the left hand side of the Scanner 3100 LCD for 8 seconds to wake up the gesture detection mode.

- To confirm the new network settings are correct on the Scanner 3100, cover the left side of the Scanner 3100 LCD and after 3 seconds a window will appear as shown in Figure 53. The lower section of the window will show LAN Server.
- 12. Open the Web Browser and log back into the network:

<u> </u>
SerNum: 305 Software: 85E5502F
: 192.168.000.040 000.000.000.000

Figure 53 - LAN Server



Figure 54 - Web browser entry of IP Address

a. Type in the IP address from the top left hand corner of the Scanner 3100 LCD. For example, see IP Address on Figure 53 entered into the browser on Figure 54.

	Scanner 3100	SENSIA Rockwell Automation + Schlumberger
	Scanner 3100 Flow Computer	
	Device Login Page	
	Password Remember me on this computer	
	Login	
Copyright © 2011-8, Schlumberger. All rights reserved.	Ready	build 1012

Figure 55 - Scanner 3100 Login Screen

- b. The Scanner 3100 home page will appear as shown in Figure 55.
- 13. Log into the Scanner 3100 using the following default credentials:

User Name – admin and Password – Scanner.

Note: User Names and passwords are case sensitive.

14. Click on the Login button and now you are successfully connected.

Section 5 - CONNECTING TO A SCANNER 3100

Now your Scanner 3100 has been configured and you are on-site ready to connect your device (smart phone, tablet, laptop) to the Scanner 3100.

The following section will help to identify how a Scanner 3100 network is configured. If the Scanner 3100 network configuration is already known then skip down to Wi-Fi Network Configuration options (page 28) or the LAN Network Configuration options (page 30).

The Wi-Fi configuration options are able to connect to the Scanner 3100 using your personal Wi-Fi enabled device (smart phone, tablet, laptop).

The LAN configuration options are able to connect to the Scanner 3100 using your personal Ethernet enabled devices (laptop, PC).

Discovering a Scanner 3100 Network Configuration

This section will describe the process to locate the Wi-Fi & LAN network configuration on the Scanner 3100 and will also describe all the possible LAN & Wi-Fi configuration options.

These are the steps to locate the Scanner 3100 LAN & Wi-Fi network settings.

IMPORTANT Place hand over the left hand side of the Scanner 3100 LCD for 8 seconds to wake up the gesture detection mode.

- 1. On the Scanner 3100 cover the left side of the LCD.
- After 3 seconds a window will appear that displays the LAN & Wi-Fi configuration settings in the Scanner 3100 LCD, as shown below in Figure 56.

IP: 192.168.000.040	<u> </u>
F Device Name: S	
🖪 FirmVer: 3.005	SerNum: 305
Device: A55941D2	Software: 85E5502F
LAN Server	: 192.168.000.040 nt : 000.000.000
S 111 1 Access 1 61	

Figure 56 - LAN Server

IMPORTANT Pressing any button on the Scanner 3100 will disable the gesture detection for 20 seconds.

Section 5

Wi-Fi Network Configuration options

The Scanner 3100 Wi-Fi network configuration has now been discovered and will be set to one of the following options: disabled, Wi-Fi Access Point, Wi-Fi Client (DHCP), or Wi-Fi Client (Stat).

The table below in Figure 57, describes the three Wi-Fi network configuration options available to the Scanner 3100:

Wi-Fi Network Configuration	Description of Network Configuration
Wi-Fi Access Point	Wi-Fi Access Point Enabled The Scanner 3100 is a Wi-Fi Access Point that will assign IP addresses to connecting devices. User Wi-Fi enabled devices can connect directly to the Scanner 3100
Wi-Fi Client (DHCP)	 Wi-Fi DHCP Client Enabled The Scanner 3100 is a Wi-Fi client with a dynamically assigned address. When the Scanner connects to a local Wi-Fi network, the network's DHCP will grant it an address. User Wi-Fi enabled devices must connect to the local Wi-Fi network to reach the Scanner 3100.
Wi-Fi Client (Stat)	 Wi-Fi Static Client Enabled The Scanner 3100 is a Wi-Fi client with a statically assigned address. The static network parameters are user defined. User Wi-Fi enabled devices must connect to the local Wi-Fi network to reach the Scanner 3100.

Figure 57 - Wi-Fi network configuration options

Connect to a Wi-Fi Access Point

Figure 58 shows the configuration window on a Scanner 3100 which has been configured as a Wi-Fi Access Point.

- Configure your personal Wi-Fi enabled device as a wireless client using the configured Scanner 3100 SSID (network name) & password. When configuring the Scanner 3100, the device administrator will likely have chosen unique and private network credentials. These must be known to connect to the Scanner 3100. The default SSID is 'Scanner 3100' and the default password is blan k.
- Allow time for your personal Wi-Fi enabled device to connect. The Scanner 3100 Access Point will grant your personal Wi-Fi enabled device an IP address.



Figure 58 - Wi-Fi Access Point

3. Enter the Scanner 3100 IP address found on the window into the address line of a web browser. The Scanner 3100 IP address will be listed on the window after the wifi Access Point label. As shown in the example on Figure 56, the Scanner 3100 Wi-Fi Access Point IP address is 192.008.100.004. You may also enter http://scanner if this is the only scanner on this network.

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Connect to a Wi-Fi Client (DHCP)

Figure 59 shows the configuration window on a Scanner 3100 which has been configured as a Wi-Fi Client (DHCP).

- 1. Configure your personal Wi-Fi enabled device as a Wi-Fi DHCP client for a dynamic IP address assignment.
- 2. Connect your personal Wi-Fi enabled device to the same network the Scanner 3100 is connected to. The SSID and password of that network will have to be provided to you by the network administrator.
- Allow time for your personal Wi-Fi enabled device to connect. 3. The network DHCP server will grant your personal Wi-Fi enabled device an IP address.
- 4. Enter the Scanner 3100 IP address found on the window into the address line of a web browser. The Scanner 3100 IP address will be listed on the window after the Wifi Client (DHCP) label. As shown in the example on Figure 59, the Scanner 3100 Wi-Fi Client (DHCP) IP address is 192.008.100.004.

Connect to a Wi-Fi Client (Stat)

Figure 60 shows the configuration window on a Scanner 3100 which has been configured as a Wi-Fi Client (Stat).

- 1. Configure your personal Wi-Fi enabled device with a static IP address, which you know to not be used on the network but is on the same subnet as the Scanner 3100. A subnet is defined by the first three numbers of an IP address delimited by periods.
- 2. Connect your personal Wi-Fi enabled device to the same network the Scanner 3100 is connected to.
- 3. Confirm that the address is on the same subnet of the Scanner 3100 but is not the same IP address.
- Figure 60 Wi-Fi Client (Static) 4. Enter the Scanner 3100 address found on the window into the address line of a web browser. The Scanner 3100 IP address will be listed on the window after the Wifi Client (STAT) label. As shown in the example on Figure 60, the Scanner 3100 Wi-Fi Client (Stat) IP address is 192.008.100.004.

Figure 59 - Wi-Fi Client (DHCP)





LAN Network Configuration options

The Scanner 3100 LAN network configuration has now been discovered and will be set to one of the following options: disabled , LAN Client (DHCP), LAN Client (Stat), or LAN Server.

The table below in Figure 61, describes the three LAN network configuration options available to the Scanner 3100:

LAN Network Configuration	Description of Network Configuration
LAN Client (DHCP)	LAN DHCP Client Enabled The Scanner 3100 is a LAN client with a dynamically assigned address. The Scanner 3100 must be connected to a managed network and the network's DHCP will grant it an address
	User Ethernet enabled devices must connect to the same managed network to reach the Scanner 3100.
LAN Client (Stat)	LAN Static Client Enabled The Scanner 3100 is a LAN client with a statically assigned address. When the Scan- ner 3100 connects to a managed network, the scanner will use its configured Static IP address.
	User Ethernet enabled devices must connect to the same managed network to reach the Scanner 3100.
LAN Server	LAN DHCP Server Enabled The Scanner 3100 is a LAN DHCP server that will assign IP addresses to connecting devices.
	User Ethernet enabled devices can connect directly to the Scanner 3100.

Figure 61 - LAN network configuration options

Connect to a LAN Client (DHCP)

Figure 62 shows the configuration window on a Scanner 3100 which has been configured as a LAN Client (DHCP).

- 1. Configure your personal Ethernet enabled device as a DHCP client for a dynamic IP address assignment.
- 2. Connect your personal Ethernet enabled device to the same network the Scanner 3100 is connected to. The SSID and password of that network will have to be provided to you by the network administrator.
- 3. Allow time for your personal Ethernet enabled device to connect. The network DHCP server will grant your personal Ethernet enabled device an IP address.



Figure 62 - LAN Client (DHCP)

4. Enter the Scanner 3100 address found on the window into the address line of a web browser. The Scanner 3100 IP address will be listed on the window after the LAN Client (DHCP) label. As shown in the example on Figure 62, the Scanner 3100 LAN Client (DHCP) IP address is 192.168.000.064.

Connect to a LAN Client (Stat)

Figure 63 shows the configuration window on a Scanner 3100 which has been configured as a LAN Client (Stat).

- 1. Configure your personal Ethernet enabled device with a static IP address, which you know to not be used on the network but is on the same subnet as the Scanner 3100. A subnet is defined by the first three numbers of an IP address delimited by periods.
- 2. Connect your personal Ethernet enabled device to the same network the Scanner 3100 is connected to.
- 3. Confirm that the address is on the same subnet of the Scanner 3100 but is not the same IP address.



Figure 63 - LAN Client (Static)

4. Enter the Scanner 3100 address found on the window into the address line of a browser. The Scanner 3100 IP address will be listed on the window after the LAN Client (STAT) label. As shown in the example on Figure 63, the Scanner 3100 LAN Client (Stat) IP address is 192.168.000.041.

Connect to a LAN Server

Figure 64 shows the configuration window on a Scanner which has been configured as a LAN Server.

- 1. Configure your personal Ethernet enabled device as a DHCP client for a dynamic IP address assignment.
- 2. Connect your personal Ethernet enabled device directly to the Scanner 3100 using the Ethernet port.
- 3. Allow time for your personal Ethernet enabled device to connect. The Scanner 3100 LAN server will grant your personal Ethernet enabled device an IP address.
- 4. Enter the Scanner 3100 address found on the window into the address line of a browser. The Scanner 3100 IP address will be listed on the window after the LAN Server label. As shown in



Figure 64 - LAN Server

the example on Figure 64, the Scanner 3100 LAN Server IP address is 192.168.000.040.

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