1. CONNECTING TERMINAL

This chapter describes how to setup connection with an Newland NQuire300 terminal.

First the correct IP-addresses have to be set in the NQuire300.

For correct operation the NQuire300 has to be set on a fixed IP-address and the IP-address of the server controlling the Nquire300 has to be set.

1.1. SET NQUIRE ON DHCP

The NQuire300 runs on Android KitKat. The easiest way to setup a network connection is to do this in the Android interface on the terminal.

First we will set the NQuire300 to get an automatic IP- address by DHCP. This allows us to connect with the build-in website to do further settings. A network connection can either be made using the Ethernet connection or WiFi.

Scan the barcodes below from top to bottom to go to the Android desktop:



Enter Setup



Return to Desktop

Now the Android desktop is shown. Configure a network setting using the Android settings (either Ethernet or WiFi).

After network is setup remember the IP Address the device has been assigned.

1.2. CONNECT WITH CONFIGURATION WEBSITE

Now start an web browser (Chrome, Ms Internet Explorer, Firefox, etc) and type in the address bar the IP-address of the NQuire300 terminal.

The configuration website of the NQuire300 terminal is shown.



1.3. CONFIGURING NETWORK

In the configuration website we can now set the settings for network and the address of the server controlling the NQuire. You can setup a WiFi connection or an Ethernet connection.

For stable operation a wired Ethernet connection is preferred.

Newla	nd Configuration tool	
Home Network Messages Scanner Miscellaneous Log Backup Time	wifi ESSID Wireless key type WPA or WPA2 ▼ Wireless key Use DHCP ● No Yes IP address 192.168.1.147 Netmask 255.255.55.240 Gateway 192.168.1.1 Nameserver 1 192.168.1.1	
Update Reboot	Apply settings 2 Ethernet Use DHCP No Yes IP address 10.20.1.60 Netmask 255.255.255.0	

WiFi Settings

~		-
Home	Ethernet	
Network	Use DHCP No Yes	
Messages	IP address 10.20.1.60	
Cooppor	Retmask 255.255.0	
Scarmer	Nameserver 1 10.20.1.250	
Miscellaneous	Nameserver 2 10.20.1.250	
Log	Apply settings	
Backup		
Time		
Update		
Reboot	Mode server V	
	UDP port 9000	
	Remote IP address 192 168 1 107	
	Apply settings	
		The second se

Ethernet settings

For correct operation the NQuire300 has to be set on a fixed IP-address. This address has to be a free address within the network the NQuire300 will be connected to.

- 1. Click on **Network** in the menu
- 2. Turn off DHCP
- 3. Specify the IP address
- 4. Set the other network settings line Gateway and DNS
- 5. Click on the button Apply Settings to apply the settings



By default the NQuire terminals will be connected using TCP.

- 1. Scroll down to the section NQuire protocol settings
- 2. Set the Mode to TCP Server
- 3. Leave all other setting unchanged
- 4. Click on Apply Settings to apply the settings

When using UDP, the IP-address of the server controlling the Nquire300 has to be set. This the IP-address of the pc where the *TimeTracking Server Software* is installed and running.

- 1. Scroll down to the section NQuire protocol settings
- 2. Set the Mode to UDP
- 3. Specify the IP-address in the field Remote IP addres
- 4. Leave all other setting unchanged
- 5. Click on Apply Settings to apply the settings
- 6. The IP-address of the server controlling the Nquire300 has to be set. This the IP-address of the pc where the *TimeTracking Server Software* is installed and running.

2. DEFAULT SETTINGS NQUIRE TERMINAL

For correct operation the following defaults settings have to be set.

2.1. MISCELLANEOUS

Both Idle message timeout and Touch keyboard timeout should have higher values then the value set for **PoolingInterval** (default = 10) in the settings of the MatrixProject TerminalTracking.

Important is to set the Idle message timeout to 15.

Home Network Messages Scanner Miscellaneous Log Backup Time Update Reboot	uration tool	
Update Reboot Disable beep afte Enable launch Cl Enable persistent	Iges meout 15 timeout 1 ibm852 ▼ parator LF ▼ ption none ▼ Quire identifier	
Display brightnes Scanner sensitivi	tter scan CIT on boot nt immersive less ivity No [®] Yes No [®] Yes No [®] Yes Apply settings	

For correct working of the Touch Keyboard set the following setting:

Newland	Configuration tool	
Home Network	Enable persistent immersive © No ® Yes Display brightness 60 V Scanner sensitivity high V Apply settings	*
Messages Scanner Miscellaneous Log	GPIO Server message prefix I Append event counter No Yes Method On read GPIO ▼ 	
Time Update Reboot	Poll speed (seconds) 15 Apply settings	
	Touch message prefix K Touch message prefix 60 Touch keyboard timeout[seconds] 60 Apply settings	
NY C		-

2.2. SCANNER

For correct operation of the build-in Barcode scanner or an external scanner:

me	Barcodes			
hvork	Output mode Output via API	•		
WOIK	Scan Mode Normal mode	•		
ssages	Encoding UTF-8 V			
anner	Add a line feed No Ves			
scellaneous	Enable barcode ID No Ves			
9	Symbologies Enable		Barcode ID	
ckup	oj moorogies enable			
	EAN419	○ No ● Yes	EAN419	×
U	ISBN	No ● Yes	ISBN	e
ate	CODE32	© No ⊛ Yes	CODE32	E
oot	EAN414	○ No ● Yes	EAN414	w .
	GST128(UCC/EAN-128)	No Ves	GS1128(UCC/EAN-128)	P
	EAN415	No ves	EAN413	V
	CP CP	No ves	Code 128	#
		No ves	EAN-13	F
	EAN P	No eres	QR	s
	CS1-Databar (PSS)	No eres	EAN-8	FF
	UPC-A	No e Yes	GS1-Databar (RSS)	R
	Code 92	No eres	UPC-A	d
	AIM 129	No Voc	Code 93	c
	Rine 120	No Vos	AIM 128	a
	LIPC-E	No eres	Plessey	q
	ITE-14	No e Yes	UPC-E	b
	Industrial 25	No e Yes	Industrial 25	m
	Codabar	No Vos	Codabar	96
	Matrix 2 of 5	No Ves	Matrix 2 of 5	1
	ISSN	No Ves	ISSN	a
	MSI-Plessev	No Ves	MSI-Plessev	0
	Code 11	No Ves	Code 11	n
	PDF417	No Ves	PDE417	
	DATAMATRIX	No Ves	DATAMATRIX	
	Code 39	No Ves	Code 39	*
	Stangarg 25	© No ● Yes	Standard 25	
		100	Standard 25	r

For correct operation of the build-in Mifare RFID/NFC scanner:

>> Newland	Configuration	tool		
Home Network Messages Scanner	Interleaved 2 of 5	No ® Yes Apply settings Default ID		•
Miscellaneous Log Backup Time Update Reboot	Mifare scanner Rfid message prefix MF Access key A Ffi Sectors to read Cardnum formatting he Send card number only Sector data format ba Sector data separator no Suppress scan beep O	FFFFFFFF No [®] Yes No [®] Yes	2	
	Access violation Cal Incomplete scan Wa Write error message Tra	rd access\ndenied it for beep\nwhen scanning insaction failedI\n\nThis is logged. Apply settings		Ţ

3. SETUP HR100 SCANNER

A Newland HR100 scanner can be attached to the external USB port.

See the Newland NQuire300 user manual for configuring a NLS-HR100 scanner.

Configuring NLS-HR100

Use the barcode scanner to scan the barcodes below row by row, starting with the top left **Enter Setup** barcode, going from left to right, and ending with the **Exit Setup** barcode.



Enter Setup



Restore All Factory Defaults



Enter Setup



USB COM Port Emulation









Disable Terminating Character Suffix

4. SETUP HR15 SCANNER

A Newland HR15 scanner can be attached to the external USB port.

See the Newland NQuire300 user manual for configuring a NLS-HR15 scanner.

Configuring NLS-HR15 (Corded)

Use the barcode scanner to scan the barcodes below row by row, starting with the top left **Enter Setup** barcode, going from left to right, and ending with the **Exit Setup** barcode.



Enter Setup



Restore All Factory Defaults



Enter Setup



USB COM Port Emulation





Exit Setup



Disable Terminating Character Suffix

For a correct working of the external scanner the settings for the external scanner have to be set according the image below:

Newland c	onfiguration tool	_		_
Home Network Messages Scanner Miscellaneous Log Backup Time Update Reboot	Configuration tool	▼ ▼ • No ♥ Yes • No ♥ Yes	ESTCOCE JD EAN419 ISBN CODE32 EAN414 GS1128(UCC/EAN-128) EAN413 Code 128 EAN-13 QR EAN-8 GS1-Databar (RSS) UPC-A Code 93 AIM 128 Plessey UPC-E Industrial 25 Codabar	X e 1 W P F F F F F F R d d c c a a b b m n 6
	Codabar Matrix 2 of 5 ISSN MSI-Plessey	 No ● Yes 	Codabar Matrix 2 of 5 ISSN MSI-Plessey	% I g
	Code 11 PDF417 DATAMATRIX Code 39	 No ● Yes No ● Yes No ● Yes No ● Yes 	Code 11 PDF417 DATAMATRIX Code 39	n r u
	Standard 25 Interleaved 2 of 5	○ No ● Yes ○ No ● Yes	Standard 25 Interleaved 2 of 5	k 3
HORT PET		Apply settin	ngs Default ID	