

# LOHU 5158P Extreme

Long Range Outdoor Wireless Bridge

User Manual Version 2.4

### Lohuis<mark>Networks</mark>

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## Software setup and configuration

Lohuis 5158P Extreme devices are configurable via WWW interface. Each device uses following default settings:

IP Address: 192.168.1.254 **Subnet Mask:** 255.255.255.0 Login: admin Password: public

The initial login screen looks as follows:

<u>LOHU</u>	<u>15</u>	
	Please enter Username and Password: Login: Edmin Password: Exercise SUBHLE CLEAR	

Please enter username and passwords, then press submit to log into the device.

Please note that after changing device parameters and pressing submit button, new settings will only be saved when you press "Apply Changes" button at the right bottom of the configuration page. You also need to reboot the device for the device to start with new settings.

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## **System Information**

System information tab shows information about system hardware and operational parameters:



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User Manual

#### **Device Information:**

Device Type – Device type you are logged into.
Device Name - System Name for easy identification of the Lohuis 5158P Extreme unit.
MAC Address – Device MAC address.
Firmware Version – Current firmware version.
Hardware Revision – Device Hardware version.
Regulatory Domain – Currently configured regulatory domain.

#### **Connection Information:**

Status – Connected – device is currently connected.

Not Connected – the connection has not yet been established.

**Remote B\$\$ID** – MAC address of the other network bridge.

**\$ignal \$trength** – Measure of how strongly a transmitted signal is being received by this device.

**Align Antenna** – Pressing this button brings up little tool to help proper antenna alignment.

Frequency – Frequency the device is operating on.

**Channel Width** - Configured Channel Width (Depending on Regulatory Domain available values are 5, 10, 20 and 40 MHz).

Data Rate - Bit Data Rate at which this device sends packets to the other peer.

**TX Packets** – Number of data packets that have been sent to the other peer.

**TX Errors** - Number of data packets that have been sent but not delivered to the other peer.

**TX Bytes** – Number of bytes sent to the other peer.

**RX Packets** – Number of data packets that have been received from the other peer.

**RX Errors** - Number of data packets that have been received from the other peer but had errors.

**RX Bytes** – Number of bytes received from the other peer.

**Packets Aggregated** - Number of aggregated superpackets that have been sent.

**Packets not Aggregated** - Number of not aggregated packets that have been sent. **All Packets** - Number of all packets that have been sent.

**Average Packets in one** - Average number of packets being aggregated into one superpacket during last 10 minutes.

**Average Packets in one (total)** - Average number of all packets being aggregated into one superpacket.

Average Packets Size - Average size of packets being aggregated.

**Packet sent immediately** - Number of aggregated packets sent without waiting for timeout.

Packet sent immediately but Aggregated - Number of aggregated packets sent

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after waiting for timeout.

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**Link Quality** - Number of aggregated packets sent without waiting for timeout. **Ethernet Speed** – Current Ethernet port connection speed (or No Connection if there is no connection).

#### **Operational Settings:**

**IP Mode** – Network mode the device has been configured to operate. Available modes are Bridge and Router.

**IP Address** – Device IP address.

**Subnet Mask** – Currently defined subnet mask.

Default Gateway - Currently defined default gateway for IP traffic.

**Uptime** – How long the device has been up and running since last reboot.

**System Load** – Percentage of current CPU utilization.

**E\$\$ID** - An ESSID is the name of a wireless network.

**Fragmentation Threshold** - Packet Size at which WLAN packets are fragmented. **Supported Data Rates** – Wireless Data rates the device supports.

#### Available Data Rates are:

6, 9, 12, 18, 24, 36, 48 and 54 Mbps for regular 802.11a mode (20 MHz channel width), 12, 18, 24, 36, 48, 72, 96 and 108 Mbps in 802.11a Turbo mode (40 MHz channel width), 3, 4.5, 6, 9, 12, 18, 24 and 27 Mbps for 802.11a mode with 10 MHz channel width, 1.5, 2.25, 3, 4.5, 6, 9, 12 and 13.5 Mbps for 802.11a mode with 5 MHz channel width.

**Distance to the Peer** – Configured distance between Lohuis 5158P Extreme and the other device it is connecting to.

**Output Power** - Currently configured Output Power.

Packet Aggregation - Configuration status of Packet Aggregation feature.

**Data Encryption** - Configuration status of Data Encryption feature.

**Encryption** - Configuration status of WPA/WEP encryption feature.

**Watchdog** – Disabled or Enabled, depending on current Watchdog configuration.

**NTP Server** - IP Address of the external NTP server device will obtain current time from.

**\$NMP \$erver** - Configuration status of built in SNMP server.

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## Wireless Settings

			[APPLY CONFIGURATION] [REBOO
System Information		Device Settings	
Wireless Settings	Regulatory Domain:	FAR EASTBAFRICA	
	Device Name:	bzyk	
IP Settings	ESSID:	bzyk	
UF Statistics	BSSID:	00:00:00:00:00:00	
	Wireless Operational Mode:	Haster ¥	
hange Password	Carrier Sense:	Disabled	
Services	Operating Frequency:	5100 3	
irmware Upgrade	WLAN Speed:	Auto 💌	
	Supported Data Rates:	V 54 V 48 V 16 V 24 V 18 V 12 V 9 V 6	
Load Configuration	IP Operational Mode:	Router ¥	
save Configuration	Output Power:	40 dBm 👻	
	Channel Width:	20 MHz 💙	
	Fragmentation Threshold:	2346	
	Web Login Timeout:	600	
	Distance to the Peer (km):	4	
	Packet Aggregation:	Enabled M	
	Data Encryption	Disabled 💌 Passphrase (8 characters min.):	
	Encryption:	Disabled 💌	
	WEP Key:	0	
	Pre-shared Key:		
	Watchdog	Enabled V IP Address: 10.0.192.1	
	NTP Server:	149.156.96.9	
	ETH Speed:	Auto Negotiation 💙	
	Default Password:	public	
	SNMP Server:	Enabled V Password: public	
	5	JEMIT CLEAR	

**Regulatory Domain** – Please select regulatory domain that is most appropriate to your location.

Supported Regulatory Domains and allowed frequency ranges are defined as follows: **Europe** – 5500 – 5700 MHz with DFS, 20 MHz, 10 MHz and 5 MHz selectable channel sizes

**OFCOM UK** – 5735 MHz, 5755 MHz, 5775 MHz, 5835 MHz with DFS, 20 MHz, 10 MHz and 5 MHz selectable channel sizes

**U\$A** - 5180 - 5320 MHz, 5745 - 5825MHz, 20 MHz, 10 MHz and 5 MHz selectable channel sizes

**Far East & Africa** – 4920 – 6100 MHz (236 channels), 40 MHz, 20 MHz, 10 MHz and 5 MHz selectable channel sizes.

**Device Name** - This is the system name for easy identification of the Lohuis 5158P Extreme device.

**E\$\$ID** - An ESSID is the unique name shared among all peers in your wireless network. The name must be identical for all devices attempting to connect to the same network.

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It shall be up to 32 characters length.

**B\$\$ID** - BSSID corresponds to the MAC Address of the peer you want to connect to. Using 00:00:00:00:00:00 as BSSID will make the device connect to any peer based on proper ESSID only.

**Wireless Operational Mode** - Wireless LAN Operational mode for the device. Available modes are Master and Slave.

**Carrier Sense** - Choose either 802.11a compliant CSMA collision protocol or disable carrier sense at all. Disabling carrier sense may greatly improve device performance in environment with noise from non 802.11a compliant devices.

**Operating Frequency** - Depending on configured Regulatory Domain you can manually select frequency the Master device is operating on, or it is selected automatically using DFS (Dynamic Frequency Selection).

**WLAN \$peed** - Choose Fixed Data Rate the device will use while connecting to the other peer.

#### Available Data Rate; are:

6, 9, 12, 18, 24, 36, 48 and 54 Mbps for regular 802.11a mode (20 MHz channel width), 12, 18, 24, 36, 48, 72, 96 and 108 Mbps in 802.11a Turbo mode (40 MHz channel width), 3, 4.5, 6, 9, 12, 18, 24 and 27 Mbps for 802.11a mode with 10 MHz channel width, 1.5, 2.25, 3, 4.5, 6, 9, 12 and 13.5 Mbps for 802.11a mode with 5 MHz channel width.

**Supported Data Rates** - Enable or Disable WLAN Data Rates the Lohuis device should support when communicating with other devices.

#### **IP Operational Mode**

**Bridge** - Bridge works at OSI model Layer 2. This means it does not know anything about protocols, but just forwards data depending on the destination address in the data packet. This address is not the IP address, but the MAC (Media Access Control) address that is unique to each network adapter card. With a Bridge, all your computers are in the same network subnet, so you don't have to worry about not being able to communicate between computers or share an Internet connection. The only data that is allowed to cross the bridge is data that is being sent to a valid address on the other side of the bridge.

**Router** - Router is an OSI model Layer 3 device, and forwards data depending on the network address, not the hardware (MAC) address. For TCP/IP networks this means the IP address of the network interface. Routers isolate each LAN into a separate subnet. Routers provide bandwidth control by keeping data out of subnets where it doesn't belong, however routes need to be set up before they can get going.

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**Output Power** - Configure Device Transmit Power, available values depend on configured Regulatory Domain.

**Channel Width** - Channel width the device uses to operate. Available values (depending on Regulatory Domain) are 20 MHz (standard width), 10 MHz (half width), 5 MHz (quarter width) and 40 MHz (802.11a Turbo mode).

**Fragmentation Threshold** - Enter the size at which the packets will be fragmented. **Web Login Timeout** - Enter the time after which web management session will be timed out.

**Distance to the Peer** - Configure distance between Lohuis 5158P Extreme device and it's peer. Please note that this setting is essential to proper link operation - if the value configured is too low then bridges won't operate reliably.

Packet Aggregation - Enable or Disable built in packet aggregation.

**Data Encryption** - Enable or Disable over the air Lohuis proprietary data Encryption here. This encryption scheme only works between compatible Lohuis devices.

**Encryption** - Please select generic WLAN encryption scheme: WEP, WPA-PSK TKIP or WPA-PSK CCMP (AES).

WEP Key - Enter WEP encryption key here. Keys are entered as hexadecimal

numbers in following format:

64 bit WEP: xxxx-xxxx-xx

128 bit WEP: xxxx-xxxx-xxxx-xxxx-xxxx-xxxx-xx

156 bit WEP: xxxx-xxxx-xxxx-xxxx-xxxx-xxxx-xxxx

**Pre-shared WPA Key** - the key is entered as 8-63 characters long string, ie. Lohuis. **Watchdog** - If enabled then Lohuis 5158P Extreme device will send 3 ICMP Echo Requests to the configured IP address, each with 1 minute interval. If there is no single ICMP Echo Reply to any of these requests then the device will reboot itself.

**NTP Server** - Configure IP address of the external NTP (Network Time Protocol) server Lohuis device will obtain current time from at startup time.

**ETH Speed** - LAN Port connection speed - available values are Auto (Auto Negotiation), 100Mbps FDX, 100Mbps HDX, 10Mbps FDX, 10Mbps HDX.

**\$NMP Server** - Configure operation of built in SNMP daemon and enter community string required to access it.

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International Numbers



## **IP Setting**

#### Bridge mode

LOHUI	<u>s</u>			
				[APPLY CONFIGURATION] [REBOOT]
System Information			IP Settings	
Wireless Settings	Device IP:	192.160.1.254		
IP Settions	Subnet Mask:	255.255.255.0		
DF Statistics	Default Gateway:	192.168.1.1		
RP Statistics	Sur	INTE		
Change Password				
Services				
Firmware Upgrade				
Load Configuration				
Save Configuration				

**Device IP** – Enter device IP address here.

**Subnet Mask** – Enter network subnet mask here.

**Default Gateway** – IP address of a router where traffic going outside of the local network will be forwarded.

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#### **Router Mode**

LOHUI	<u>S</u>								
								APPLY CONFIGURA	TION] [REBOOT
System Information					IP Setting	5			
Wireless Settings	IP Router Settings:								
IP Settings	Wired Interface IP: Wired Interface Mask:			255,255,255,0					
RF Statistics									
Change Password	Wireless Interface IP:			192.168.2.254					
Services	Wireless Interface Mask:			255.255.255.0					
Firmware Upgrade									
Load Configuration	Default Gateway:			192.168.1.1					
coad conngaration	Defined Routes:								
Save Configuration	Type			Network Address	Subnet Mask		Gateway / Intel	ace Delete	
	Direct			192.168.1.8	255.255.255	•	Wired		
	Direct			192.168.2.0	255.255.255	•	Wireless		
	Add Route:								
		Type		Network Address	Subnet Mask	Gatemay	]		
		Inc	direct 💌			]	1		
			SUBMIT	CLEAR					

Wired Interface IP – Enter IP address of the wired interface here.

Wired Interface Mask - Enter wired network subnet mask here.

Wireless Interface IP – Enter IP address of the wireless interface here.

Wireless Interface Mask - Enter wireless network subnet mask here.

**Default Gateway** – IP address of a router where traffic not destined for defined routes / local routes will be forwarded.

**Defined Routes** – This table displays currently defined static routes. To delete a route select "Delete" checkbox and press Submit on the bottom of the page. Please note that it is not possible to delete first two entries – direct routes to local interfaces.

#### Add Route:

**Direct** – on wired or wireless interface - When router has two or more IP subnets directly attached to its different interfaces, it can route IP packets between those subnets using a direct route. A direct route consists of an IP Address which specifies the basic IP address to route, a Subnet Mask which defines the class of IP addresses that will be routed, and an interface which specifies where the IP subnet is attached. When an IP packet addressed to a system on the directly routed subnet arrives at the router, the

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router will send it directly to the target machine on the interface specified. When entering direct route use 0.0.0.0 as Gateway.

**Indirect** - When router needs to send IP packets between IP subnets which are not directly connected to one of its interfaces, it must have an indirect route for sending those packets. An indirect route consists of an IP Address which specifies the basic IP address to route, a Subnet Mask which defines the class of IP addresses that will be routed and a Gateway that will relay the IP packet. When an IP packet addressed to a system on the indirectly routed subnet arrives at the router, the router will route it over to the specified Gatway to be routed further.

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Argentina:

Brazil :

Pakistan

## Change Password

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LOHUI	S			
6 T T XX C T X	-			
				[APPLY CONFIGURATION] [REBOOT]
System Information			Device Security Settings	
Settings General Settings IP Settings Advanced Settings	Current Password: New Password: New Password Again:	•••••		
Security Device Settings		SUBMIT CLEAR		
Services Site Survey RF Statistics Spectrum Analyzer				
Commands Firmware Upprade Load Configuration Save Configuration				

Use this screen to change password which is used to access and configure the device.

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## Services - Site Survey

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LOHUI	2
	(APPLY_CONFIGURATION) [REBOOT]
System Information	Services
Wireless Settings	Press the button below to start Wireless Site Survey. Please note that while survey is in progress wireless communication of this device may be interrupted for a few seconds.
IP Settings	Site Survey
RF Statistics	
Change Password	
Services	
Firmware Upgrade	
Load Configuration	
Save Configuration	

Use this screen to see other Access Points in range.

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## Firmware Upgrade

	C	
	2	
		[APPLY CONFIGURATION] [REBOOT]
System Information	Firmware Upgrade	
Wireless Settings	This tool allows you to upgrade the device firmware. It is recommended to upgrade the firmware from wired stations.	
IP Settings	Enter the path and name of the upgrade file and then click the SUBMIT button below.	
RF Statistics	Private	
Change Password		
Services	SUUNIT CLEAR	
Firmware Upgrade		
Load Configuration		
Save Configuration		

This page allows you to upgrade the device firmware. It is recommended to upgrade firmware only to newer version than the one currently installed in the device.

#### <u>Please always remember to reboot the device first before you proceed with</u> <u>firmware upgrade.</u>

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## Load Configuration

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LOHUI	<u>s</u>
	[APPLY CONFIGURATION] [REBOOT]
System Information	Load Configuration
Wireless Settings	Enter the path and name of the load file and then dick the SUBMIT button below.
IP Settings	Browse
RF Statistics	
Change Password	SUBMIT CLEAR
Services	
Firmware Upgrade	
Load Configuration	
Save Configuration	

You can use this option to load device configuration from file.

## Lohuis<mark>Networks</mark>

42280111
23812983
033557669
70612716
662207084
345506867
152391407
2135219853
217019804

## **Save Configuration**

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LOHUI	<u>s</u>
	TAPPLY CONFIGURATION TREBOT
System Information	Save Configuration
Wireless Settings	SUBHIT
IP Settings	
RF Statistics	
Change Password	
Services	
Firmware Upgrade	
Load Configuration	
Save Configuration	

You can use this option to store current device configuration in a file.

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## TFTP Firmware upgrade

Each Lohuis device allows firmware upgrade via TFTP.

From the Windows DOS box you need to enter following command:

X:\>tftp -i -s 192.168.1.254 PUT Lohuis\_5158P Extreme\_3.25R.bin admin\_public

WinAgents TFTP Client version 1.3 Copyright (c)2004-2005 by Tandem Systems, Ltd. http://www.winagents.com - Software for network administrators

Transferring file Lohuis\_5158P Extreme\_3.25R.bin to server in octet mode... Using blocksize = 512 Using TFTP timeout = 10s File Lohuis\_5158P Extreme\_3.25R.bin was transferred successfully. 1964844 bytes transferred for 63 seconds, 31188 bytes/second

X:\>

Please note that username (admin) and password (public in this case) required for authorization are sent to the device as remote file name (admin\_public).

The device will accept firmware, reflash and reboot automatically.

### Emergency firmwares restore procedure.

Should the Lohuis device fail or loose power during firmware upgrade the built-in bootloader allows easy firmware restore.

This is the step by step procedure required to perform:

1. You need to obtain tftp server software, the free one is available at <a href="http://tftpd32.jounin.net/">http://tftpd32.jounin.net/</a>

2. Install tftpd32.exe into the catalog where firmware files are located

3. Rename the firmware file into upgrade.bin

4. Change your computer IP address to 192.168.1.23 netmask 255.255.255.0

5. Connect the Lohuis device to the computer via cross-over cable or via network switch

6. Turn on the Lohuis device, it should initiate the transfer automatically, automatically reflash and reboot itself.

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## **Resetting device to default settings**

In order to Reset Lohuis device to factory default settings you need to use Lohuis Reset software .

Reset will locate any compatible Lohuis device regardless of its IP address located on the same physical subnetwork with the computer it is running on.

	LOHUIS Reset								
File	: Help								
								1	<b>_</b>
				Search Device:	3		 		
	D			Desette defect		1			
	Fassword:			heset to default					
	MAU address 00:21:9:00:15:42	Device ID	1921691251	Mask 255 255 0					
	00.21.00.00.13.42	Londis	132.100.1.231	200.200.200.0					
									_
	1								-

After selecting the device you want to Reset enter "Reset to Default Password" in the Password: field and press button.

If you have changed Reset to Default Password to one you no longer remember then please email us at support@Lohuisnetworks.com stating device type and MAC Address and we will provide you one time, generated password that will let you Reset the device to factory default settings.

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