# **Device Status**

Successfully pass the free certification exam at IW Academy and become an Infinet Certified Engineer.

To the certification exam

- Interface Statistics
- Switch Statistics
- System Log

#### Extended Interface Statistics

- General Statistics
- QoS Statistics
- Network Address Table
- LLDP Information
- Graphs
- Extended Switch Statistics

The "Device Status" page is displayed by default after the authentication step. It displays the main parameters of the unit in real-time.

Device Status <u>Basic Settings</u>		<u>Basic Settings</u>	<u>Maintenance</u>	<u>Command Line</u>		→logout		
Please setup system Login and Password!								
	CPU 4%         Memory 80992K / 254818K         Flash 235371K / 4153408K           CPU 4%         CPU 4%         CPU 4%         CPU 4%							
Interface	Interface Statistics Uptime: 00:05:46 H09S01-MINTv1.90.46							
Interface	MAC Address	Status	Mode	Pa R	ckets Errors x/Tx Rx/Tx	Load (Kbps) Rx/Tx	Load (pps) Rx/Tx	
eth0	00900b5526ba	Up	100 Mbps Full Duplex	9	/9 0/0	0/0	0/0	
eth1	00900b5526bb	Up	100 Mbps Full Duplex	9	/8 0/0	0/0	0/0	
eth2	00900b5526bc	Up		0	/0 0/0	0/0	0/0	
eth3	00900b5526bd	Up		0	/0 0/0	0/0	0/0	
eth4	00900b5526be	Up		0	/0 0/0	0/0	0/0	
eth5	00900b5526bf	Un	100 Mbps Full Dupley	1717	/2367 0/0	4/9	3/3	

• Switch Statistics Status: Started

								Dropped by			
ID	MAC Count	Unicast	Broadcast	Flood	STP	Unreachable	Firewall	Possible loop	Discard	MAC Limit	Reverse
kernel	0	0	0	0	0	0	0	0	0	0	0
2	3	1673	33	0	0	0	0	0	0	0	0
Total Forwar	rded: 1706 Total [	Dropped: 0	lgnored: 0 Ove	rflow: 0						(	Reset Counters

You can set the "Auto Refresh" option to refresh the statistics automatically. Refresh frequency can be set by the "Auto Refresh Time" parameter. The minimal possible value is "0" seconds and it updates the information instantly. These options are available in the bottom-left side of the "Device Status" screen. The device statistics can also be refreshed manually by clicking the «Refresh» button.

The "Device Status" page has the following sections:

Auto Refresh: 🖌

CPU load" - displays the load percentage of the CPU

Auto Refresh Time (sec): 1

"Memory load":

Refresh

- Memory (the data stored in volatile memory are valid only during the current session, until the system reset) displays in real-time the total
  memory available and the used memory by the running processes.
- Flash memory (non-volatile memory) displays in real-time the total memory available and the used memory by the WANFleX and configuration files.
- "Interface Statistics" displays the main parameters of all configured interfaces (physical and logical)
- "Switch Statistics" displays counters of the frames which have been switched or dropped.

Reset Counters Graphs

System Log

### **Interface Statistics**

The software version is displayed in the right side of Interface Statistics section. Following parameters are displayed in the "Interface Statistics" section:

Parameter	Description
Interface	• Displays all physical and logical set interfaces
MAC Address	• Displays the MAC address of each interface
Status	• Displays for each interface whether it is "up and running" or not
Mode	<ul> <li>Displays the operation mode of each interface. For example:</li> <li>10,100 or 1000 Mbps and half or full duplex for the Ethernet interface</li> <li>Switch Group number for the SVI</li> </ul>
Packets	• Displays the number of received and transmitted packets for each interface since the unit is operational. The local system packets are counted, too (and not only the ones that are passing through the switching groups - data traffic)
Errors	• Displays the number of received and transmitted error packets for each interface since the unit is operational
Load	• Displays the packet flow through each interface in real-time (for the system and the data traffic)
	Table - Interface Statistics

All these counters can be reset by clicking the "Reset All Counters" button.

### () CAUTION

Clearing these counters by clicking the "OK" button in the pop-up page means losing the history data about the functionality of your unit. Avoid this operation unless you are completely sure you don't need these data in the future. If you are not sure you want to permanently delete all statistics of the device for previous periods without the possibility to recover, click the "Cancel" button.

## **Switch Statistics**

This section displays the number of detected MAC addresses, unicast, broadcast and flood packets switched within each Switch group and also within kernel system (internal traffic), in real-time (since the last reboot). In addition, this section displays in real time statistics on dropped packets from the last configuration update. Total forwarded, dropped, ignored and buffer overflow packets are displayed in real-time below the table.

Parameter	Description
ID	• The ID of a switch group or Kernel
MAC Count	• The MAC addresses number involved in data transmission within this switch group
Unicast	<ul> <li>Sending a packet to a single host (network destination) identified by a unique address</li> </ul>

# Title

Broadcast	<ul> <li>Sending a packet to all hosts (network destinations) simultaneously (broadcasting is done by specifying a special broadcast address on packets)</li> </ul>
Flood	<ul> <li>Sending a packet along the same link multiple times (without specifying a destination address for the packets)</li> <li>Several copies of the same packet would ultimately reach all nodes in the network in flooding</li> </ul>
STP	<ul> <li>Spanning Tree Protocol - standardized as IEEE 802.1D</li> <li>Creates a spanning tree within a network of connected layer-2 bridges (typically Ethernet switches) and disables those links that are not part of the spanning tree, leaving a single active path between any two network nodes</li> <li>The value displayed in the Switch Statistics table represents the number of the packets blocked by the Spanning Tree Protocol</li> </ul>
Unreachable	<ul> <li>The sender could not reach the specified network destination</li> <li>The value displayed in the Switch Statistics table represents the number of the packets dropped because they flood to unreachable destination</li> </ul>
Firewall	<ul> <li>A software or hardware-based network security system that controls the incoming and outgoing network traffic by analyzing the data packets and determining whether they should be allowed through or not, based on applied rules set</li> <li>The value displayed in the Switch Statistics table represents the number of the packets dropped by the firewall system in the network</li> </ul>
Possible loop	<ul> <li>A switching or bridging loop occurs in a network when there is more than one Layer 2 path between two endpoints</li> <li>Because a physical topology that contains switching or bridging loops is needed for the redundancy reasons, the solution is to allow physical loops, but create a loop-free logical topology using the spanning tree protocol (STP) on the network switches</li> <li>The value displayed in the Switch Statistics table represents the number of the packets dropped because they belong to a possible loop (more than one port declares same packet source)</li> </ul>
Discard	• The value displayed in the Switch Statistics table represents the number of the packets dropped by the configuration (for example: "switch group N start [discard]")
MAC Limit	<ul> <li>MAC address-table limit reached (switch maxsources (MAXSOURCES[0) # default 5000)</li> <li>The value displayed in the Switch Statistics table represents the number of the packets dropped because the limit of MAC address-table was reached</li> </ul>
Reverse	• The value displayed in the Switch Statistics table represents the number of the packets dropped because they have the same source and destination port (the frame came to the unit through one port and according to the switching table it must leave through the same port

Table - Switch statistics parameters

## System Log

By clicking the "System Log" button, you can view the "System Log" section.

24-Jan-03 02:05:24 DFFS: User space 4007541731 bytes         24-Jan-03 02:05:24 Last reboot reason: unexpected restart         24-Jan-03 02:05:24 LoptGRADE: bootloader up to date         24-Jan-03 02:05:24 th0: Intel 1210 Gigabit Network Connection, IRQ11[A].         24-Jan-03 02:05:26 eth2: Intel 1210 Gigabit Network Connection, IRQ10[A].         24-Jan-03 02:05:26 eth2: Intel Ethernet Connection 1354, IRQ15[A].         24-Jan-03 02:05:27 eth3: Intel Ethernet Connection 1354, IRQ1[G].         24-Jan-03 02:05:30 eth5: Intel Ethernet Connection 1354, IRQ10[D].	Refresh       Auto Refresh Time (sec):         1	Hide System Log	J
24-Jan-03 02:05:24 DFFS: User space 4007541731 bytes 24-Jan-03 02:05:24 Last reboot reason: unexpected restart 24-Jan-03 02:05:24 UPGRADE: bootloader up to date 24-Jan-03 02:05:24 eth0: Intel 1210 Gigabit Network Connection, IRQ11[A]. 24-Jan-03 02:05:25 eth1: Intel 1210 Gigabit Network Connection, IRQ10[A]. 24-Jan-03 02:05:26 eth2: Intel Ethernet Connection 1354, IRQ15[A]. 24-Jan-03 02:05:27 eth3: Intel Ethernet Connection 1354, IRQ15[A]. 24-Jan-03 02:05:27 eth4: Intel Ethernet Connection 1354, IRQ11[C]. 24-Jan-03 02:05:29 eth4: Intel Ethernet Connection 1354, IRQ10[C]. 24-Jan-03 02:05:29 eth4: Intel Ethernet Connection 1354, IRQ10[C].		Clear System Log	]
24-Jan-03 02:05:24 Last reboot reason: unexpected restart 24-Jan-03 02:05:24 UPGRADE: bootloader up to date 24-Jan-03 02:05:24 SYSLOG: Len 4096*200, Osize 2048 24-Jan-03 02:05:25 thi: Intel I210 Gigabit Network Connection, IRQ10[A]. 24-Jan-03 02:05:26 eth2: Intel Ethernet Connection I354, IRQ15[A]. 24-Jan-03 02:05:27 eth3: Intel Ethernet Connection I354, IRQ15[A]. 24-Jan-03 02:05:27 eth4: Intel Ethernet Connection I354, IRQ18[]. 24-Jan-03 02:05:27 eth4: Intel Ethernet Connection I354, IRQ19[]. 24-Jan-03 02:05:29 eth4: Intel Ethernet Connection I354, IRQ10[]. 24-Jan-03 02:05:30 eth5: Intel Ethernet Connection I354, IRQ10[]. 24-Jan-03 02:05:32 eth6: Intel Ethernet Connection I354, IRQ10[].	24-Jan-03 02:05:24 DFFS: User space 4007541731 bytes		
24-Jan-03 02:05:24 UPGRADE: bootloader up to date 24-Jan-03 02:05:24 VSIGG: Len 4969°200, Osize 2048 24-Jan-03 02:05:25 eth1: Intel I210 Gigabit Network Connection, IRQ11[A]. 24-Jan-03 02:05:26 eth2: Intel Ethernet Connection I354, IRQ15[A]. 24-Jan-03 02:05:27 eth3: Intel Ethernet Connection I354, IRQ7[B]. 24-Jan-03 02:05:29 eth4: Intel Ethernet Connection I354, IRQ16[]. 24-Jan-03 02:05:20 eth5: Intel Ethernet Connection I354, IRQ10[0]. 24-Jan-03 02:05:30 eth5: Intel Ethernet Connection I354, IRQ10[0]. 24-Jan-03 02:05:32 eth6: Link is up 100 Mbps Full Duplex, Flow Control: None	24-Jan-03 02:05:24 Last reboot reason: unexpected restart		~
24.Jan-03       02:05:24       SYSLOG: Len 4096*200, Osize 2048         24.Jan-03       02:05:22       eth0: Intel I210       Gigabit Network Connection, IRQ10[A].         24.Jan-03       02:05:25       eth2: Intel I210       Gigabit Network Connection, IRQ10[A].         24.Jan-03       02:05:26       eth2: Intel Ethernet Connection I354, IRQ15[A].         24.Jan-03       02:05:27       eth3: Intel Ethernet Connection I354, IRQ7[B].         24.Jan-03       02:05:27       eth4: Intel Ethernet Connection I354, IRQ7[B].         24.Jan-03       02:05:29       eth4: Intel Ethernet Connection I354, IRQ1[C].         24.Jan-03       02:05:30       eth5: Intel Ethernet Connection I354, IRQ10[D].         24.Jan-03       02:05:32       eth6: Intel Ethernet Connection I354, IRQ10[D].         24.Jan-03       02:05:32       eth0: Intel Ethernet Connection I354, IRQ10[D].         24.Jan-03       02:05:32       eth0: Intel Ethernet Connection I354, IRQ10[D].	24-Jan-03 02:05:24 UPGRADE: bootloader up to date		11
24-Jan-03       02:05:24       eth0:       Intel I210       Gigabit Network Connection, IRQ11[A].         24-Jan-03       02:05:25       eth1:       Intel Ethernet Connection I354, IRQ10[A].         24-Jan-03       02:05:26       eth2:       Intel Ethernet Connection I354, IRQ16[A].         24-Jan-03       02:05:27       eth3:       Intel Ethernet Connection I354, IRQ7[B].         24-Jan-03       02:05:30       eth5:       Intel Ethernet Connection I354, IRQ10[C].         24-Jan-03       02:05:30       eth5:       Intel Ethernet Connection I354, IRQ10[D].         24-Jan-03       02:05:32       eth6:       Intel Ethernet Connection I354, IRQ10[D].         24-Jan-03       02:05:32       eth6:       Intel Ethernet Connection I354, IRQ10[D].	24-Jan-03 02:05:24 SYSLOG: Len 4096*200, Qsize 2048		1
24-Jan-03 02:05:25 ethl: Intel I210 Gigabit Network Connection, IRQ10[A]. 24-Jan-03 02:05:26 eth2: Intel Ethernet Connection I354, IRQ15[A]. 24-Jan-03 02:05:27 eth3: Intel Ethernet Connection I354, IRQ11[C]. 24-Jan-03 02:05:30 eth5: Intel Ethernet Connection I354, IRQ10[D]. 24-Jan-03 02:05:32 eth8: Intel Ethernet Connection I354, IRQ10[D]. 24-Jan-03 02:05:32 eth8: Intel Ethernet Connection I354, IRQ10[D].	24-Jan-03 02:05:24 eth0: Intel I210 Gigabit Network Connection, IRQ11[A].		1
24.Jan-03 02:05:26 eth2: Intel Ethernet Connection I354, IR015[A].         24.Jan-03 02:05:27 eth3: Intel Ethernet Connection I354, IR01[G].         24.Jan-03 02:05:30 eth5: Intel Ethernet Connection I354, IR01[G].         24.Jan-03 02:05:30 eth5: Intel Ethernet Connection I354, IR010[D].         24.Jan-03 02:05:30 eth5: Intel Ethernet Connection I354, IR010[D].         24.Jan-03 02:05:32 eth0: Link is up 100 Mbps Full Duplex, Flow Control: None	24-Jan-03 02:05:25 ethl: Intel I210 Gigabit Network Connection, IRQ10[A].	,	U.
24-Jan-03 02:05:27 eth3: Intel Ethernet Connection I354, IR07[8]. 24-Jan-03 02:05:29 eth4: Intel Ethernet Connection I354, IR01[C]. 24-Jan-03 02:05:30 eth5: Intel Ethernet Connection I354, IR010[D]. 24-Jan-03 02:05:32 eth8: Link is un 100 Mbos Full Dunlex. Flow Control: None	24-Jan-03 02:05:26 eth2: Intel Ethernet Connection I354, IRQ15[A].		
24-Jan-03 02:05:29 eth4: Intel Ethernet Connection I354, IRQ11[C]. 24-Jan-03 02:05:30 eth5: Intel Ethernet Connection I354, IRQ10[D]. 24-Jan-03 02:05:32 eth0: Link is un 100 Mhos Full Dunlex. Flow Control: None	24-Jan-03 02:05:27 eth3: Intel Ethernet Connection I354, IRQ7[B].		
24-Jan-03 02:05:30 eth5: Intel Ethernet Connection I354, IRQ10[D]. V4-Jan-03 02:05:32 eth0: Link is up 100 Mbps Full Duplex. Flow Control: None	24-Jan-03 02:05:29 eth4: Intel Ethernet Connection I354, IRQ11[C].		
24-Jan-03 02:05:32 eth0: Link is un 100 Mbns Full Dunlex. Flow Control: None	24-Jan-03 02:05:30 eth5: Intel Ethernet Connection I354, IRQ10[D].		
	24-Jan-03 02:05:32 eth0: Link is up 100 Mbns Full Duplex. Flow Control: None		

The "System Log" section allows browsing the unit's system log. It is possible to minimize/enlarge the system log window by clicking the buttons: . Yo u can delete all the information saved in the system log by clicking the "Clear System Log" button. You can hide the System Log section by clicking the "Hide System Log" button.

## **Extended Interface Statistics**

The Extended Interface Statistics tools gather complete information and enhanced statistics for each interface of the unit.

In order to access the Extended Interface Statistics tools, click on the row of each interface within the "Interface Statistics" section.

Interface	Statistics					Uptime: (	00:40:58 <b>H09S</b>	01-MINTv1.90.46
Interface	MAC Address	Status	Mc	de Please select	Packets X //Tx	Errors Rx/Tx	Load (Kbps) Rx/Tx	Load (pps) Rx/Tx
eth0	00900b5526ba	Up	100 Mbps Full Duplex		/ 57	0/0	0/0	0/0
eth1	00900b5526bb	Up	100 Mbps Full Duplex	General Statistics	/ 56	0/0	0/0	0/0
eth2	00900b5526bc	Up		QoS Statistics	/0	0/0	0/0	0/0
eth3	00900b5526bd	Up		Network Address Table	/0	0/0	0/0	0/0
eth4	00900b5526be	Up			/0	0/0	0/0	0/0
eth5	00900b5526bf	Up	100 Mbps Full Duplex	LLDP Information	/ 4732	0/0	7/11	4/4
				Ok Cancel			Reset C	Counters Graphs

## **General Statistics**

The "General Statistics" tool displays the information about the interface such as the operational mode, current status, load statistics, Rx and Tx statistics, etc.

Statistic for the Ethernet interface.

### Physical link is UP, 100 Mbps Full-duplex, Auto

Cable is copper, MDIX mode auto, polarity reversed

Supported modes	Self	Peer
Auto-Negotiation	yes	yes
10 Mbps Half-duplex	yes	yes
10 Mbps Full-duplex	yes	yes
100 Mbps Half-duplex	yes	yes
100 Mbps Full-duplex	yes	yes
1000 Mbps Half-duplex	-	-
1000 Mbps Full-duplex	yes	-

### eth0: administrative status UP

Receive statistics	;	Transmit statistics	
Packets	57	Packets	58
Bytes	10374	Bytes	10228
Load (kbps)	0	Load (kbps)	0
Load (pps)	0	Load (pps)	0
Frame size (bytes)	0	Frame size (bytes)	0
CRC errors	0	Carrier lost	0
Overruns	0	Excessive deferrals	0
Short packets	0	Excessive collisions	0
Alignment errors	0	Late collisions	0
Long packets	0	Multiple collisions	0
Xon packets	0	Single collisions	0
Xoff packets	0	Xoff packets	0

Close Reset

Auto Refresh: ✔

Parameter	Description				
Receive statistics	Receive statistics				
Packets	The total number of received packets				
Bytes	The sum of lengths of all good Ethernet frames received				
Load (kbps)	The link load, Kbit/s				
Load (pps)	The link load, packets per second				
Frame size (bytes)	The frame size in bytes				
CRC errors	Total frames received with a CRC error				
Length errors	Total abnormal length frames received				
Discards	Number of dropped frames				
Transmit statistics					
Packets	The total number of transmitted packets				
Bytes	The sum of lengths of all good Ethernet frames sent				
Load (kbps)	The link load, Kbit/s				

Х

Load (pps)	The link load, packets per second
Frame size (bytes)	The frame size in bytes
Late collisions	The number of times a collision is detected later than 512 bits-times into the transmission of a frame
Underrun	The number of times the transmitter's packet processing rate exceeded the switch capabilities
Retransmit limit	Packets dropped due to queue overflow

For the pseudo-radio interface information about parent interface, MTU value and load statistics is available.

## Pseudo Radio Interface Statistics

Parent	eth0	Hardware MTU	1722
Receive statistics		Transmit statistics	
Packets	16433	Packets	17261
Fragmented	0	Fragmented	0
Fragments	0	Fragments	0
Load (kbps)	12	Load (kbps)	30
Load (pps)	5	Load (pps)	8
Frame size (bytes)	300	Frame size (bytes)	468
Scattered fragments	0	Double encapsulated	0
Corrupted packets	0	Out of fragbufs	0

Close Reset

Auto Refresh: 🗹

Parameter	Description			
Receive statistics				
Packets	Number of correctly received packets			
Fragmented	Number of fragmented packets			
Fragments	Number of fragments			
Load (kbps)	The link load, Kbit/s			
Load (pps)	The link load, packets per second			
Frame size (bytes)	The frame size in bytes			
Scattered fragments	Number of frames where one or several fragments were lost, the frame cannot be restored			
Corrupted packets Number of frames with the wrong length or structure				
Transmit statistics				
Packets	Number of correctly transmitted packets			
Fragmented	Number of fragmented packets			
Fragments	Number of fragments			
Load (kbps)	The link load, Kbit/s			
Load (pps)	The link load, packets per second			
Frame size (bytes)	The frame size in bytes			
Double encapsulated packets	Number of frames with double encapsulation			

х

SVI interface information ab	out current status, RX and TX s	staistics is available.	
ch Virtual Interface (SVI) Sta	tistics		
vi1: administrative status	UP		
Receiv	e statistics	Trans	smit statistics
ackets	30263	Packets	42822
lytes	7713407	Bytes	20819348
.oad (kbps)	10	Load (kbps)	27

By clicking the "Close" button, you return to the "Device Status" page. By clicking the "Reset" button, you clear all counters displayed in the page. The "Auto Refresh" option is active by default and refreshes the statistics automatically. You can disable the auto refresh.

## **QoS Statistics**

QoS characterizes the entire network performance which is defined by the parameters such as: throughput, latency, jitter, error rate, available bandwidth, etc. In order to provide the guaranteed Quality of Service for certain applications, users or data flows, different prioritization methods are used. The "QoS Statistics" tool displays the statistics of the MINT priority queues for the interface. Priority is one of the parameters which define in what sequence, different types of data traversing every Infinet device in MINT network are treated. Each channel may be assigned a priority (for example: P01, P02 ... P16). Once assigned, a priority is automatically recognized by every node inside the MINT network. Each priority value corresponds to a device queue. Once in a queue, every packet is scheduled according to the queuing algorithm set on the device. QM manager supports Strict Priority Queuing and Weighted Fair Queuing scheduling algorithms. Strict Priority Queuing means that the packets from queue with lower priority are not processed until the queue with higher priority is not empty. Weighted Fair Queuing uses weights for every queue of an interface and allows different queues to have different service shares, depending on that weight. Every channel is also characterized by the latency parameter. This parameter determines the maximum time for the packets to stay in the channel. If a packet is waiting in a queue of the channel more than the time specified in the latency parameter, then it is discarded. Latency can be set for each channel in the "Traffic Shaping" section.

Channal	Priority
BACKGROUND	16
REGULAR Best Effort	15
BUSINESS6	14
BUSINESS5	13
BUSINESS4	12
BUSINESS3	11
BUSINESS2	10
BUSINESS1	9
QOS4	8
QOS3	7
QOS2	6
QOS1	5
VIDEO2	4
VIDEO	3
VOICE	2

7

CONTROL	1
NETCRIT	0

### Table - MINT priorities

Transparent packet prioritization is a WANFleX feature which allows QM manager to transparently map 802.1p/TOS/DSCP priority to MINT priority for the ease of deployment. You have to make sure that "Dot1p Tags" and/or "IP ToS" options are enabled in the "QoS" section.

MINT Priority	Traffic Types (802.1p)	dot1p	TOS	DSCP Name	DS Field Value
16 BACKGROUND	Background	1			
15 REGULAR Best Effort	Best Effort	0	0	CSO	0
14 BUSINESS6			1	CS1, AF11-13	8, 10
13 BUSINESS5					12, 14
12 BUSINESS4			2	CS2, AF21-23	16, 18
11 BUSINESS3					20, 22
10 BUSINESS2			3	CS3, AF31-33	24, 26
9 BUSINESS1	Excellent Effort	2			28, 30
8 QOS4			4	CS4, AF41-43	32
7 QOS3					34
6 QOS2					36
5 QOS1	Critical Applications	3			38
4 VIDEO2	Video	4	5	CS5, EF	40, 42
3 VIDEO					44, 46
2 VOICE	Voice	5	6	CS6	48, 50
1 CONTROL	Internetwork Control	6			52, 54
0 NETCRIT	Network Control	7	7	CS7	56, 58, 60, 62

### Table - MINT priority to 802.1p/TOS/DSCP

This section displays the number of inbound packets to each priority queue and the number of dropped packets. Of the 32 priority queues 17 are available for user configuration (from P00 to P16), where 0 is the highest priority. The rest are reserved for the system. Packets with 802.1p priority are distributed to queues with "cosX" values.

iority queues statistics			
	Softwa	re Priority Queues eth0 ( count / drops )	
q00 (P16) (cos1)	0/0	q16	0/0
q01 (P15) (cos0)	0/0	q17 (P06)	0/0
q02	0/0	q18 (P05) (cos3)	0/0
q03 (P14)	0/0	q19	0/0
q04 (P13)	0/0	q20	0/0
q05 (P12)	0/0	q21 (P04) (cos4)	0/0
q06	0/0	q22 (P03)	0/0
q07 (P11)	0/0	q23	0/0
q08	0/0	q24 (P02) (cos5)	0/0
q09 (P10)	0/0	q25	0/0
q10 (P09) (cos2)	0/0	q26 (P01) (cos6)	0/0
q11	0/0	q27	0/0
q12	0/0	q28 (P00) (cos7)	57 / 0
q13 (P08)	0/0	q29	0/0
q14 (P07)	0/0	q30	0/0
q15	0/0	q31	0/0

Close Reset Auto Refresh: 🖌

By clicking the "Close" button, you return to the "Device Status" page. By clicking the "Reset" button, you clear all counters displayed in the page. The "Auto Refresh" option is active by default and refreshes the statistics automatically. You can disable the auto refresh.

## Network Address Table

The "Network Address Table" tool shows the network address table for the interface.

Interface Network Address table						
	Int	terface eth0				
	Address	Network				
	00900b5526ba	Link				
Close	Auto Refresh: 🗹					

By clicking the "Close" button, you return to the "Device Status" page. The "Auto Refresh" option is active by default and refreshes the statistics automatically. You can disable the auto refresh.

## **LLDP** Information

### The "LLDP Information" tool allows to get information on the link layer discovery protocol.

	' Into	rmat	inr
LLD	11110	100.00	1.54

LLDP Local info on eth1			
ChassisID:	00:04:35:92:84:AF (mac)		
SysName:	InfiMUX Master		
SysDescr:	Infinet Wireless R5000 WANFleX H09S01-MINTv1.90.46 SN:306190		
Caps:	Repeater*, Bridge*, Router*		
PortID:	00:90:0B:55:26:BB (mac)		
PortDescr:	eth1, InfiMUX Master		
MFS:	1728 bytes		
MgmtIP:	10.10.10.5		

LLDP Neighbors Table on eth1				
	LLDP Mode: TxRx, Forward: disabled, Tagged: disabled			
ChassisID:	00:04:35:02:A5:14 (mac)			
SysName:	Unknown node			
SysDescr:	Infinet Wireless R5000 WANFleX H11S11-TDMAv2.1.25 SN:173332			
Caps:	Repeater*, Bridge*, Router*			
PortID:	00:04:35:12:A5:14 (mac)			
PortDescr:	eth1, Unknown node			
MFS:	1728 bytes			
POE:	Supported, Disabled			
MgmtIP:	10.10.10.1			
Last report:	33 seconds ago, TTL 181 seconds, Age 00:41:46			

Auto Refresh: ✔

By clicking the "Close" button, you return to the "Device Status" page. The "Auto Refresh" option is active by default and refreshes the statistics automatically. You can disable the auto refresh.

## Graphs

Close

The "Graphs" tool allows you to monitor the device parameters represented in the graphical charts. The following modes are available: real-time monitoring, daily and monthly data logs display.



Show interfaces: eth0 eth1 eth2 eth3 eth4 eth5

Click and drag for Zoom Shift Click and drag for Pan Double Click for Reset

## **Extended Switch Statistics**

The "Extended Switch Statistics" tools allow gathering complete information and enhanced statistics for each group of the unit. In order to access the "Extended Switch Statistics" tools, click on the row of each switch group or kernel within the "Switch Statistics" section.



Two options are available: "Switch DB statistics" and "Switch VLAN statistics".

#### Switch DB Statistics

The "Switch DB Statistics" tool gathers complete information and enhanced statistics for each switch group, including kernel.

tistics for switch group #2					
Interface	Vlan	Gateway MAC	Usage Count	Dead Time	
eth5	0		0	300	
eth5	0		0	296	
eth5*	0		0	0	
	Interface eth5 eth5 eth5*	InterfaceVlaneth50eth5*0	Interface     Vlan     Gateway MAC       eth5     0       eth5*     0	Interface         Vlan         Gateway MAC         Usage Count           eth5         0         0         0           eth5         0         0         0           eth5*         0         0         0	

Close Auto Refresh:

By clicking the "Close" button, you return to the "Device Status" page. The "Auto Refresh" option is disabled by default. You can enable the auto refresh in order to have the statistics automatically refreshed.

#### Switch VLAN Statistics

The "Switch VLAN Statistics" tool gathers complete information and enhanced statistics for each VLAN created.

V	/LAN statistics for switch group #2							
Vlan Forward Unicast Broadcast Flood								
	0	4774	4518	256	0			
	Close Auto Refresh:	]						

By clicking the "Close" button, you return to the "Device Status" page. The "Auto Refresh" option is disabled by default. You can enable the auto refresh in order to have the statistics automatically refreshed.