Version 2.5.0. Monitoring

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- View call history

To enter the system monitoring mode, select «Monitoring» from the left-hand side panel.



Network parameters monitoring

In the «Internet» submenu you may view basic network settings of the device.

Network	VolF	System	Monito	ring			
Internet	VoIP	Ethernet Ports	ARP	Device	Conntrack	Static Routes	Call History
		Internet Co	nnecti	on			
		Access Proto	col		DHCP		
		IP Address			192.168.8.74		
	-	C Refresh					

- Access protocol protocol used for the Internet access.
- IP Address -- device IP address in the external network .

VoIP connection monitoring

In 'VoIP' submenu you may view VoIP network interface status and monitor accounts.

ternet Volf	Ethe	rnet Port	s ARP Devi	ce Conntrack Static F	Routes Call Histo	ory								
	Stat	Status of VoIP Network Interface												
	IP	Address		192.168.8.74										
	SIP	Acco	unts Status											
		N₂	Account	Local Number	Status	Registration	Expires In	Server Address						
		1	Account 1	001	Off	None								
		2	Account 2	001	Off	None								
	Ø Regi	ister	Unregister											
	Actu	ual Ca	IIs											
		Local F	Parameters	Remote Par	rty	Charle Time Duration	State Trees							
	Acco	ount	Number Port	Remote Name IP A	ddress Port	Start Time Duration	State Type	Internal Call-ID SIP Call-ID						

Status of VoIP network interface

• *IP address* — IP address of VoIP network interfce.

SIP Accounts status

- — a number of account.
- Account a name of account.
- Local number --- subscriber phone number assigned to the current account. •
 - Status account status:
 - on;
 - off.
- *Registration* state of registration on proxy server for the group phone number:
 - None SIP server registration function is disabled in SIP profile settings;
 - Error registration was unsuccessful;
 - Completed registration on SIP server successfully completed.
- Expires in expiration time of account registration on SIP server;
- Server address address of the server on which the subscriber line has been registered at the last time. ٠

Buttons for forced registration or unregistration of selected accounts are located under the table «SIP accounts status».

Actual calls

Local Parameters

- Account a name of account through which a call is implemented.
- Number a phone number assigned on the account.
- Port RTP stream local port.

Remote Party

- Number phone number of opposite party.
- Name opposite party name.
- IP address IP address of opposite party used for RTP. •
- Port UDP port of opposite party used for RTP stream.

Common parameters

- Start Time --- call start time. •
- Duration call duration. ٠
- State -- call state. Call might be in the following states:
 - call ring-back tone is issued (if an egress call is implemented);
 - incoming calls ring tone is issued (if there is an incoming call);
 - conversation
 - on hold
 - conference

- Type call type:

 incoming
 outgoing

 Internal Call-ID
- SIP Call-ID

Ethernet-ports monitoring

Internet Vo	οIΡ	Ethernet	Ports ARP	Device Conntrack	Static Routes Call	History	
		State o	of Ethernet F	Ports			
		Port	Connection	Speed	Mode	Transmitted	Received
		LAN	On	100 Mbit/s	Full-duplex	13.0 M (13 592 408 B)	42.7 M (44 744 730 B
		PC	Off				
-		C Refresh					

To obtain the current information from the device, click

button .

ARP-table

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In the 'ARP' submenu you may view an ARP table. In ARP table you may find information on IP and MAC address correspondence for neighbouring network devices.

Network	VolF	9 System	Monito	ring							
Internet	VoIP	Ethernet Ports	ARP	Device	Conntrack	Static Routes	Call History				
		ARP Table									
		IP Address			MAC Addr	ess		Client Name	Client Name		
		192.168.8.48			9A:FF:3B:4	l6:A1:86				Bridge	
		192.168.8.1			12:01:DE:4	3:6E:4F				Bridge	
		192.168.8.46			7E:62:70:1	1:8C:43				Bridge	
		C Refresh									
I											

- *IP Address* device IP address.
- *MAC Address* device address. *Client Name* connected device network name.
- Interface interface of the device active side: LAN, PC, and Bridge.



View information on the device

In the «Device» submenu you may find general device information.

Network	VolP	System	Monitoring						
Internet	VoIP	Ethernet Ports	ARP Devi	ce Conntrack	Static Routes	Call History			
		Device Info							
		Product		VP-12P rev.	VP-12P rev.B				
		Firmware Vers	sion	1.5.0.134	1.5.0.134				
		Hardware Ver	sion	2v2	2v2				
		Boot Version		1.5.0.124	1.5.0.124				
		Factory MAC	Address	E0:D9:E3:7E	E0:D9:E3:7E:DC:45				
		Serial Number	r	VI5D000080					
		System Time		00:53:21 05.	00:53:21 05.01.1970				
		Uptime		3 d, 21:53:22	3 d, 21:53:22				

- Product -- device model name.

- *Firmware Version* device firmware version. *Hardware Version* device revision . *Boot Version* software version of the device bootstrap.
- Factory MAC Address device address defined by the manufacturer.
 Serial Number device serial number defined by the manufacturer.
 System Time current date and time defined in the system.
- ٠ Uptime — time of operation since the last startup or reboot of the device.

«Conntrack» submenu

In the «Conntrack» submenu you may find the current active network connections of the device.

Network	Voll	P System	Monito	ring						
Internet	VoIP	Ethernet Ports	ARP	Device	Conntrack	Static Routes	Call History			
		Active NAT	Sessi	on						
		Active Conne	ctions Co	unt	3					
		Shown Conne	ections Co	ount	3					
		List of Con	nectior	ıs						
		Protocol	9	Source Ad	ldress		Destination IP	Timeout		
		TCP	1	192.168.27	.86:51319		192.168.8.74:80	8 s		
		TCP	1	192.168.27	.86:51326		192.168.8.74:80	4 d 23 h 59 min 59 s		
		TCP	1	192.168.27	.86:51331		192.168.8.74:80	4 d 23 h 59 min 58 s		
		C Refresh								

Active NAT session

- Active Connections Count total number of active network connections.
 Shown Connections Count number of connections shown in the WEB interface. In order to maintain high performance of the WEB interface, maximum number of connections shown is limited to 1024. You may view other connections with the device command console (*cat /proc/net*) /nf_conntrack).

List of Connections

- *Protocol* protocol that the connection is being established through;
- Source Address source IP address and port number;
 Destination IP destination IP address and port number;
- *Timeout* time period until the connection termination.



View the route table

In the «Static Routes» submenu you may view the device route table.

Network	Vol	P System	Monito	ring										
Internet	VoIP	Ethernet Ports	ARP	Device	Conntrack	Static	Routes Ca	all History						
		Route Table												
		Destination		Gatewa	у	G	Genmask		Flags	Metric	Ref	Use	Interface	
		192.168.7.0 192.168.8.7				255.255.255.0			UG	0	0	0	br0	
		192.168.46.0		192.168.8.9		25	255.255.255.0		UG	0	0	0	br0	
		192.168.47.0	0 192.168.8.10		25	255.255.255.0		UG	0	0	0	br0		
		192.168.45.0		192.168	.8.8	25	255.255.255.0		UG	0	0	0	br0	
		192.168.8.0		0.0.0.0	0.0.0.0		255.255.255.0		U	0	0	0	br0	
		0.0.0.0		192.168	.8.1	0.	0.0.0.0 UG		UG	0	0	0	br0	
		C Refresh												

- Destination IP address of destination host or subnet that the route is established to.
- Gateway gateway IP address that allows for the access to the «Destination».
- Genmask subnet mask.
- Flags specific route attributes. The following flag values exist:
 - U means that the route is created and passable;
 - H identifies the route to the specific host;
 - G means that the route lies through the external gateway. System network interface provides routes in the network with direct connection. All other routes lie through the external gateways. 'G' flag is user for all routes except for the routes in the direct connection networks;
 - R means that the route most likely was created by a dynamic routing protocol running on a local system with the 'reinstate' parameter;
 - D means that the route was added on reception of the ICMP Redirect Message. When the system learns the route from the ICMP Redirect message, the route will be added into the routing table in order to exclude redirection of the following packets intended for the same destination. Such routes are marked with the 'D' flag;
 - — means that the route was modified—likely by a dynamic routing protocol running on a local system with the 'mod' parameter applied;
 - - means buffered route with corresponding record in the ARP table.
 - means that the route source in the core routing buffer;
 - L means that the route destination is an address of this PC. Such «local routes» exist in the routing buffer only;
 - means that the route destination is a broadcasting address. Such 'broadcast routes' exist in the routing buffer only;
 - I means that the route is related to the loopback interface. Such 'internal routes' exist in the routing buffer only;
 - !— means that datagrams sent to this address will be rejected by the system.
 - *Metric* defines route cost. Metrics allows you to sort the duplicate routes, if they are exist in the table.
- Ref -- identified number of references to the route for connection establishment (not used by the system).
- Use number of route detections performed by IP protocol.
- Interface name of the network interface that the route lies through.

To obtain the current information from the device, click Determined button.

View call history

In the «Call history» submenu you may view the list of performed phone calls and the summary for each call.

The device RAM may store up to 10,000 records for performed calls. If the record number exceeds 10,000, the oldest records (at the top of the table) will be removed, and new ones will be added at the end of the file.

Call log statistics will not be collected, when the history size is zero.

Network	work VolP System Monitoring														
Internet	VoIP	Etherr	net Ports	ARP	Device	Conntrac	k Static Routes	Call History							
	Filter (show)														
	Chano	e Call F	listory Se	ettings											
	No	Line	Local	Remote	Remote	Host	Start Call Time	Start Talk Tim	e Talk Duration	State	Туре	TxPack	TxBytes	RxPack	RxBytes
	1	1	50100	5027	192.168	3.2.160	17:00:35 05:03:201	8 -	-	remote clear	incoming	0	0	0	0
	•	<	> >>												
	20	• reco	ords per p	bage											
	Page	I from 1													

«Call history» table field description:

- #— sequence number of the record in the table;
- Line device subscriber port number;
- Local number subscriber number assigned to the current subscriber port;
- Remote number remote subscriber number that the phone connection has been established with;
- IP address of the opposite side remote subscriber IP address that phone connection has been established with;
- Start call time call received/performed time and date; Start talk time call start time and date;
- Talk duration -- call duration in seconds;
- State --- transient state or reason for call clearing; description becomes available, when you hover the cursor over the call state record;
- *Type* call type: outgoing or incoming;
- TxPack number of RTP packets sent during the call;
- TxBytes --- number of bytes sent during the call; ٠
- *RxPack* number of RTP packets received during the call;
- RxBytes number of bytes received during the call.

In the call history table you may search records by different parameters; to do this, click the «Filter (Show)» link. Filtering may be performed by the subscriber line address, local or remote number, opposite side IP address, call received time, call start time, call state and call type. For filtering parameter description, see call history table field description above.

· Call received time from/to or Call start time from/to - call received/performed time period or call start time period in the 'hh:mm:ss dd.mm.yyyy' format.

To hide the table record filtration parameter settings, click the «*Hide filter*» link.

To configure call history parameters, click 'Configure call history parameters' link. For detailed parameter configuration description, see «Phonebook» submenu.

button to proceed to the table showing the first record. Click

Click *state* button to proceed to the previous page with the call history table.

button to proceed to the next page with the call history table. Click

Click *button to proceed to the table showing the last record.*

You may select the number of displayed records at the bottom of the page.