NetGen Communications, Inc.

VLAN Configuration Guide

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Amendent Records

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Contents

Amendent Records	2
ContentsContents of Figure	3
Contents of Figure	ţ
Contents of Table	5
1 Functionality	I
1.1 Overview	1
1.2 Automatically Enabling VLAN	3
1.2.1 Handling Procedure When the LLDP Message Carries a VLAN ID Error! Bookmark not defined	-
1.2.2 LLDP Message with no VLAN ID1-	3
1.2.3 The LLDP Message1-	3
1.2.4 Sent Message with a VLAN ID1-	7
1.2.5 GUI Configuration1-	1
1.3 Manually Enabling VLAN	2
1.3.1 Single VLAN1-	2
1.3.1.1 Configuration1-2	2
1.3.1.2 Scenario	2
1.3.2 Multiservice VLAN	2
1.3.2.1 Configuring Voice VLAN1-	3
1.3.2.2 Configuring Management VLAN1-4	1
1.3.2.3 Scenario	1
2 Appendix)
2.1 Parameter Description and Captured Files	C
2.2 Acronyms2-1	1
2.3 VLAN introduction2-1	2

Contents of Figure

Contents of Table

Table 1-1 LLDP configuration parameters1-	1
Table 2-1 Description of parameters in the VLAN configuration interface	C

1 Functionality

1.1 Overview

Virtual Local Area Network (VLAN) is a type of communication technology that virtually divides a physical LAN/layer-2 network into multiple broadcast domains. Only hosts in the same VLAN can directly communicate without a router, so broadcast packets are restricted to the same VLAN, improving bandwidth utilization by, for example, segregating VoIP traffic, improving network security (e.g, a guest-only VLAN or finance-only VLAN). VLAN technology identifies the VLAN information of a data packet by adding the VLAN tag field in the Ethernet frame header.

When a gateway accesses a VLAN, configurations such as VLAN tags and priorities are required for the gateway. The following methods are used for configuring VLANs:

- Manual configuration via a web-based GUI, requiring a restart after the configuration.
- Automatic configuration: With Link Layer Discovery Protocol (LLDP) enabled, during startup Smart ATA automatically obtains VLAN configuration information via an LLDP message, starts the VLAN, and obtains network information, such as its IP address, using the DHCP mode.

Smart ATA supports two-three_VLAN modes: single VLANs mode_and two_multiservice VLANs_modes (including voice and management VLANs).

In single-VLAN mode, all device services belong to the same VLAN.

In multiservice VLAN mode, voice service (SIP signaling and RTP media stream) and management service (HTTP, Telnet, TR069, and SNMP) belongs to different VLANs. Manual mode is used to configure single and multiservice VLANs. Automatic mode can configure only single VLANs.

The different between two different multiservice VLAN modes:

- Mode 1 Signaling (SIP) and media stream (RTP/T.38) are on the same VLAN
- Mode 2 Signaling (SIP) and media stream (RTP/T.38) are on different VLANs

The following example uses the Smart ATA user interface (UI) to demonstrate how to manually configure VLANs with specific configurations and descriptions.

Note

- A restart is required to enable the VLAN configuration take effect.
- After a VLAN is configured, only PCs in the same VLAN can access the device.
- Smart ATA's IP address used to log in to the GUI can be obtained by connecting a phone to an FXS port and dialing "##". In the case of a single VLAN, the IP address of the single VLAN is voiced

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by the device; in the case of a multiservice VLAN, the IP address of the management VLAN is voiced.

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1.2 Automatically Enabling VLAN

Figure 1.1, below, shows the network elements referenced in the discussion that follows. It shows one VLAN segment that has a VLAN ID=200.



The process consists of the following steps:

- Smart ATA periodically sends an LLDP message to the switch with its device information. The sending interval is modifiable on the GUI interface. See Section 2 "GUI Configuration" for details.
- 2. Smart ATA then receives an LLDP message from the switch, and parses the VLAN ID, Priority, and DSCP (Differentiated services code point) fields.

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Field Code Changed

If the message carries a VLAN ID, the ATA enables VLAN, adds VLAN information to subsequent messages, and obtains network information, such as an IP address, via DHCP. If VLAN was previously manually enabled on the GUI interface, its VLAN information will be replaced by the information that the device has obtained from the LLDP message.

If the message does not carry a VLAN ID, the ATA checks whether VLAN is manually enabled. If it is, the ATA uses the VLAN information configured manually; otherwise, VLAN is disabled.

Figure 1-2 shows this procedure.

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1.2.1 LLDP Message with no VLAN ID

During startup, if the ATA receives an LLDP messages with no VLAN ID, it uses the VLAN information configured manually. Figure 1-3 shows the procedure.

Figure 1-3 Procedure of handling the LLDP message with no VLAN ID Device startup DHCP server MX Switch -LLDP-Periodical sending -LLDP-LLDP (without any VLAN ID) Uses the VLAN information configured manually Device startup DHCP×server Smart ATA Switch -LLDP-Periodical sending -LLDP— LLDP (without any VLAN ID) Uses the VLAN information configured manually

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1.2.2 The LLDP Message

Upon receipt of an LLDP message, the ATA will check if the VLAN ID, Priority, and DSCP fields are included. They are shown in the red boxes, below.

Figure 1-4 shows the LLDP message.

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Figure 1-4 LLDP message

🗉 Link Layer Discovery Protocol
B Port Subtype = MAC address
Time To Live = 120 sec Se
🗄 System Description = VoIP Gateway
🗄 Capabilities
🗄 Management Address
Port Description = eth0
IEEE 802.1 - VLAN Name
🗄 IEEE 802.3 - Link Aggregation
IEEE 802.3 - MAC/PHY Configuration/Status
🗄 TIA TR-41 Committee - Media Capabilities
🗄 TIA TR-41 Committee - Inventory - Software Revision
🗉 TIA TR-41 Committee - Network Policy
1111 111 = TLV Type: Organization Specific (127)
0 0000 1000 = TLV Length: 8
Organization Unique Code: 0x0012bb
Media Subtype: Network Policy (0x02)
Application Type: Voice (1)
0 = Policy: Defined
.1 = Tagged: Yes
0 0001 1001 000. = VLAN Id: 200
1 01 = L2 Priority: 5
10 1110 = DSCP Value: 46
H End of LLDPDU

1.2.3 Sent Message with a VLAN ID

After obtaining a VLAN ID from the LLDP message, the ATA adds the VLAN information to the Ethernet frame headers of all messages to be sent. In addition, the ATA adds a DSCP value to RTP streams.

Figure 1-5 shows a sent message with a VLAN ID.

Figure 1-5 VLAN IDAdding a VLAN ID to the message to be sent



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1.2.4 GUI Configuration

This section describes VLAN configuration using the GUI.

Click Network on the GUI interface, and confirm that the Activate option in the LLDP area is set to On.

Figure 1-6 LLDP configuration interface for Smart ATA

Basic	N	etwork	Routing	Phone/Line	Advanced	Status	Logs	Tools
								Logout
-								
			Host name	VoIP-AG	Only letters (a-z), n	umbers (0-9) and da	sh (-) are allowed, and	
				must start with a letter				
	Ethernet por							
			MAC address	00:0E:A9:00:26:90				
		IP ad	dress assignment	Static 👻				
			IP address	192.168.250.151				
			Netmask	255.255.0.0				
		Ga	teway IP address	192.168.2.1				
	DNS							
			Enable					
			Primary server	192.168.2.1	e.g. 202.96.209.6			
			Secondary server	10.128.1.1	e.g. 202.96.209.133			
	SNTP							
			Primary server	198.60.22.240				
			Secondary server	133.100.9.2				
			Time zone	(GMT-05:00) Indianapo	lis 👻			
	LLDP							
			Activate	On	Off Off			
			Packet interval	30	s(range:5-3600)			
	VLAN configu	uration						
				💿 On	Off			
				Subn	nit			

Table 1-1 LLDP configuration parameters

Parameter Name	Description
Activate	On : Indicates that the LLDP is enabled. Then the device periodically sends LLDP messages, and parses received LLDP messages.
	Off (default value): Indicates that the LLDP is disabled. The device does not send any LLDP messages, nor parses any received LLDP messages.
Packet interval	This parameter specifies the interval at which LLDP messages are sent The value range is 5 to 3600 seconds. The default value is 30 seconds.

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1.3 Manually Enabling VLAN

1.3.1 Single VLAN

In single-VLAN mode, all device services belong to the same VLAN. The device receives only data packets that carry the VLAN tag and includes the VLAN tag in all sent data packets. In this mode, the physical network port of the device has no separate address and shares the IP address of the VLAN interface.

1.3.1.1 Configuration

On the web interface, click **Network**, set the VLAN function to **On**, set **Mode** to **Single VLAN**, select the VLAN tag, and specify network information such as **IP address if you choose static**, as shown in Figure 1-7.

VI AN configuration				
VEAT configuration				
	Ø On	Off		
Mode	Single VLAN	Multi-service VLAN		
VLAN tag	00	(range:1-4094)		
VLAN QoS	5 (Voice, < 10 ms	5 (Voice, < 10 ms latency and jitter) 👻		
IP address assignment	рнср 🗸			
IP address	0.128.10.130			
Netmask	255.255.0.0			
Gateway IP address	0.128.1.1			
MTU	1500	(range: 576~1500)		

Figure 1-7 Configuring the single VLAN

1.3.1.2 Scenario

Configure the ATA to work in single-VLAN mode with a corresponding VLAN tag of 200 and restart the device. Check that all data packets sent by the ATA carry a VLAN ID of 200, as shown in Figure 1-8. For an example of a packet capture, see **SingleVlan.pcapng** in the appendix.

Figure 1-8 A data packet carrying a corresponding VLAN tag in the single VLAN mode



1.3.2 Multiservice VLAN

In the case of the multiservice VLAN mode, the ATA can configure a VLAN tag; a priority for the voice service (SIP signaling and RTP media stream); and a management service (HTTP, Telnet, TR069, and SNMP). The ATA carries a different VLAN tag in data packets for different services. In this mode, the

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physical network port of the device can have a separate address or obtain an address from a non-VLAN network.

1.3.2.1 Configuring Voice VLAN

In this mode, VLAN is used to segregate SIP, T.38, and RTP data packets.

The voice VLAN of the device has the following two modes:

- Mode 1 Signaling (SIP) and media stream (RTP/T.38) are on the same VLAN
- Mode 2 Signaling (SIP) and media stream (RTP/T.38) are on different VLANs



Mode 1 - SIP Signaling and Media on the same VLAN

On the web interface, click **Network**, and ensure that the VLAN function is set to **On** and **Mode** is set to **Multiservice VLAN**. Select **Mode 1** for **Voice VLAN**, enter the VLAN tag, and specify the network information such as IP address.

Figure 1-9 Configuring voice VLAN to work in mode 1

	On Off
Mode	Single VLAN O Single VLAN
Voice VLAN	Mode 1 🗸
VLAN tag	300 (range:1-4094)
VLAN QoS	5 (Voice, < 10 ms latency and jitter) -
IP address assignment	DHCP -
IP address	130.130.130.100
Netmask	255.255.255.0
Gateway IP address	30.130.130.1
MTU	1500 (range: 576~1500)
In this mode, the voice	VLAN cannot be configured with a separate address but shares the IP
address of the VLAN lift	

On the web interface, click **Network**, and ensure that the VLAN function is set to **On**, and **Mode** is set to **Multiservice VLAN**. Select **Mode 2** for **Voice VLAN**, and specify VLAN tags for SIP and RTP.

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Figure 1-10 Configuring voice VLAN to work in mode 2

VLAN configuration		
	On	© Off
Mode	Single VLAN	Multi-service VLAN
Voice VLAN	Mode 2 👻	
SIP VLAN TAG	300	(range:1-4094)
SIP VLAN QoS	0 (Best effort)	-
RTP VLAN TAG	400	(range:1-4094)
RTP QoS	5 (Voice, < 10 ms laten	cy and jitter) 🔻

1.3.2.2 Configuring Management VLAN

The ATA includes VLAN tags configured in the management VLAN: HTTP, Telnet, TR069, and SNMP, in data packets of the four service types.

On the web interface, click **Network**, and ensure that the VLAN function is set to **On** and **Mode** is set to **Multiservice VLAN**. Select **Management VLAN**, set the VLAN tag of the management service, and specify network information such as **IP address**.

MTU (maxium transmission unit) should be left at 1500 unless there is a good reason to change it.

Figure 1-11 Configuring Management VLAN

Management VLAN		
VLAN tag	200	(range:1-4094)
VLAN QoS	1 (Background)	▼
IP address assignment	рнср 🗸	
IP address	10.128.10.130	
Netmask	255.255.0.0	
Gateway IP address	10.128.1.1	
MTU	1500	(range:576~1500)

1.3.2.3 Scenario

Figure 1-12 shows the network environment. The ethereal ports for connecting the switch and Smart ATA are added to VLAN 200 and VLAN 300. The ethereal port for connecting the switch and SIP server is added to VLAN 300. The ethereal ports for connecting the switch to the PC (used for managing the ATA), TR069 server, and SNMP server are added to VLAN 200.

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Configure multiservice VLAN on the ATA: the voice VLAN uses mode 1, the VLAN tag is 300, the VLAN tag of the management VLAN is 200, and the IP address is obtained from the corresponding VLAN network using DHCP, as shown in Figure 1-13.

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Figure 1-13 Configuring multiservice VLAN

VI AN configuration		
VEAR configuration		0 H
	On	© Off
Mode	Single VLAN	Multi-service VLAN
Voice VLAN	Mode 1 🔻	
VLAN tag	300	(range:1-4094)
VLAN QoS	5 (Voice, < 10 ms latend	ry and jitter) 👻
IP address assignment	DHCP -	
IP address		
Netmask		
Gateway IP address		
MTU	1500	(range: 576~1500)
Management VLAN		
VLAN tag	200	(range:1-4094)
VLAN QoS	1 (Background)	▼
IP address assignment	DHCP -	
IP address		
Netmask		
Gateway IP address		
MTU	1500	(range: 576~1500)

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1. Restart the ATA for the VLAN to take effect.

2. Use the PC belonging to VLAN 200 to log in to the web page. On the Basic > Status page, the IP address of each interface of the device can be viewed, as shown in Figure 1-14. From top to bottom: IP address of the device physical network port, IP address of the management VLAN, and IP address of the voice VLAN.



3. Enable the ATA to register with the SIP server and call an extension number on the SIP server. Check that VLAN tag 300 configured in the voice VLAN is carried in the SIP packet and RTP packet. For details about captured packets, see **multiservicevlan.pcapng** in Appendix.

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Figure 1-15 SIP data packet carrying VLAN tag of the voice VLAN in the multiservice VLAN mode

🗄 Frame 30: 789 bytes on wire (6312 bits), 789 bytes captured (6312 bits) on interface 0	
■ Ethernet II, Src: Shanghan_00:26:90 (00:0e:a9:00:26:90), Dst: Shanghai_26:02:69 (00:0e:a9:26:02:69)	
101 – Priority Video < 100ms latency and iitter (5)	
0001 0010 1100 = ID: 300	
Type: IP (0x0800)	
🗄 Internet Protocol version 4, Src: 130.130.130.100 (130.130.130.100), Dst: 188.66.11.10 (188.66.11.10)	
🗉 User Datagram Protocol, Src Port: sip (5060), Dst Port: sip (5060)	
E Session Initiation Protocol (INVITE)	
Request-Line: INVITE sip:6620//0101888.66.11.10 SIP/2.0	
□ Message Header □ 2010, stat 2, 0 (Upp 192 66 11 5:5060; pport + proph=20bc4bx 169627460014055900411405590022	
m Via: <pre>sin:662077016188.66.11.10></pre>	
From: "66207731 " < <ip:66207731@188.66.11.10>:tag=14055899411405589931-1</ip:66207731@188.66.11.10>	
Call-ID: 14055899411367473044-0@130.130.130.100	
🖩 CSea: 100020 INVITE	
Figure 1-16 RTP data packet carrying VLAN tag of the voice VLAN in the multiservice	VLAN
mode	
# Frame 37: 218 bytes on wire (1744 bits), 218 bytes captured (1744 bits) on interface 0	
<pre>B Frame 37: 218 bytes on wire (1744 bits), 218 bytes captured (1744 bits) on interface 0 B Ethernet II, Src: Shangha1_00:26:90 (00:0e:a9:00:26:90), Dst: Shangha1_26:02:69 (00:0e:a9:26:02:69) B 02:10 vietual Law Bert S cfc: 0 to 2:00</pre>	
<pre># Fname 37: 218 bytes on wire (1744 bits), 218 bytes captured (1744 bits) on interface 0 # Ethernet II, Src: Shanghai_00:26:90 (00:0e:a9:00:26:90), Dst: Shanghai_26:02:69 (00:0e:a9:26:02:69) # 802.10 virtual LAN, PRI: 5, CFI: 0, ID: 300 101</pre>	
n Frame 37: 216 bytes on wire (1744 bits), 216 bytes captured (1744 bits) on interface 0 B Ethernet II, Src: Shanghal_00:26:90 (00:0e:a9:00:26:90), Dst: Shanghal_26:02:69 (00:0e:a9:26:02:69) B02.1Q Vitual LAN, PRI: 5, CFI: 0, ID: 300 101	
<pre>tr Frame 37: 215 bytes on wire (1744 bits), 216 bytes captured (1744 bits) on interface 0 @ Ethernet II, Src: Shanghal_00:26:90 (00:0e:a9:00:26:90), Dst: Shanghal_26:02:69 (00:0e:a9:26:02:69) @ 002.1Q Virtual LAN, PRI: 5, CFI: 0, ID: 300 101</pre>	
<pre># Frame 37: 218 bytes on wire (1744 bits), 218 bytes captured (1744 bits) on interface 0 # Ethernet II, Src: Shanghai_00:26:90 (00:0e:a9:00:26:90), Dst: Shanghai_26:02:69 (00:0e:a9:26:02:69) # 802.1Q virtual LAN, PRI: 5, CFI: Q, ID: 300 101</pre>	
<pre>II Frame 37: 216 bytes on wire (1744 bits), 216 bytes captured (1744 bits) on interface 0 III thernet II, Src: Shanghal_00:26:90 (00:0e:a9:00:26:90), Dst: Shanghal_26:02:69 (00:0e:a9:26:02:69) III OIL</pre>	
<pre>n Frame 37: 218 bytes on wire (1744 bits), 218 bytes captured (1744 bits) on interface 0</pre>	
<pre>prame 37: 218 bytes on wire (1744 bits), 218 bytes captured (1744 bits) on interface 0 @ Ethernet II, Src: Shanghal_00:26:90 (00:0e:a9:00:26:90), Dst: Shanghal_26:02:69 (00:0e:a9:26:02:69) @ 00.101</pre>	
<pre>in Frame 37: 216 bytes on wire (1744 bits), 216 bytes captured (1744 bits) on interface 0 Bethernet II, Src: shanghal_00:26:90 (00:0e:a9:00:26:90), Dst: shanghal_26:02:69 (00:0e:a9:26:02:69) B02.1q Virtual LAN, PRI: 5, CFI: 0, ID: 300 101 erricitum: a CFI: Canonical (0) erricitum: a CFI: Canonical (0) Type: IP (0x0800) Ditternet Protocol Version 4, Src: 130.130.130.100 (130.130.100), Dst: 188.66.11.10 (188.66.11.10) User Datagram Protocol, Src Port: 10010 (10010), Dst Port: 10070 (10070) Real-Time Transport Protocol [Stream Setup by SDP (frame 32)] 10 eversion: RFC 1889 Version (2) </pre>	
<pre>n Frame 37: 218 bytes on wire (1744 bits), 218 bytes captured (1744 bits) on interface 0</pre>	
<pre>D Frame 37: 218 bytes on wire (1744 bits), 218 bytes captured (1744 bits) on interface 0 # Ethernet II, Src: shanghal_00:26:90 (00:0e:a9:00:26:90), DST: Shanghal_26:02:69 (00:0e:a9:26:02:69) 802.1Q Virtual LAN, PRI: 5, CFI: 0, IDI 300 101 = FrI: canonical (0) Outon 1000 1100 = ID: 300 Type: IP (0x0800) # Internet Protocol Version 4, Src: 130.130.130.100 (130.130.130.100), DST: 188.66.11.10 (188.66.11.10) # User Datagram Protocol, Src Port: 10010 (10010), DST Port: 10070 (10070) # [Stream stup by SDP (frame 32)] 10 = Version: RFC 1889 Version (2)0 = Padding: False0 = Extension: False </pre>	
<pre>H Frame 37: 216 bytes on wire (1744 bits), 216 bytes captured (1744 bits) on interface 0 # Ethernet II, Src: Shanghal_00:26:90 (00:0e:a9:00:26:90), Dst: Shanghal_26:02:69 (00:0e:a9:26:02:69) # 0.0 (00:00:00:00:00:00:00:00:00:00:00:00:00:</pre>	
<pre>B Frame 37: 218 bytes on wire (1744 bits), 218 bytes captured (1744 bits) on interface 0 B Ethernet II, Src: Shanghal_00:26:90 (00:0e:a9:00:26:90), Dst: Shanghal_26:02:69 (00:0e:a9:26:02:69) B02.1Q Virtual LAN, PRI: 5, CFI: 0, ID: 300 101 = Priority: Video, < 100ms latency and jitter (5) 0001 0010 1100 = ID: 300 Type: IP (0x0800) B Internet Protocol version 4, Src: 130.130.130.100 (130.130.130.100), Dst: 188.66.11.10 (188.66.11.10) B User Datagram Protocol, Src Port: 10010 (10010), Dst Port: 10070 (10070) B (Stream setup by SDP (frame 32)] 10 = Padding: False 000. = Contributing source identifiers count: 0 0 = Marker: False Bayled type: ITUE (5, 71 BCML (0)) </pre>	
<pre>n Prame 37: 218 bytes on wine (1744 bits), 218 bytes captured (1744 bits) on interface 0 # Ethernet II, Src: shanghal_00:26:90 (00:0e:a9:00:26:90), bst: shanghal_26:02:69 (00:0e:a9:26:02:69) 802.1Q Vitual LAN, PRI: 5, CFL: 0, ID: 300 101</pre>	
<pre>H Frame 37: 216 bytes on wire (1744 bits), 216 bytes captured (1744 bits) on interface 0 # Ethernet II, Src: Shanghal_00:26:90 (00:0e:a9:00:26:90), Dst: Shanghal_26:02:69 (00:0e:a9:26:02:69) # 00:10 (10:0e:a9:26:02:69) # 00:10 (10:00:a9:26:02:69) # 00:10 (10:10:10:10:10:10:10:10:10:10:10:10:10:1</pre>	
<pre>D Frame 37: 218 bytes on wire (1744 bits), 218 bytes captured (1744 bits) on interface 0 @ thernet II, Src: shanghal_00:26:90 (00:0e:a9:00:26:90), DST: Shanghal_26:02:69 (00:0e:a9:26:02:69) @ 101</pre>	
<pre>n FPame 37: 216 bytes on wire (1744 bits), 216 bytes captured (1744 bits) on interface 0 @ Ethernet II, Src: Shanghal_00:26:90 (00:0e:a9:00:26:90), Dst: Shanghal_26:02:69 (00:0e:a9:26:02:69) @ 0101</pre>	
<pre>B Frame 37: 216 bytes on wire (1744 bits), 216 bytes captured (1744 bits) on interface 0 B Ethernet II, Src: Shanghal_00:26:90 (00:0e:a9:00:26:90), Dst: Shanghal_26:02:69 (00:0e:a9:26:02:69) B 02.1Q Virtual LAN, PRI: 5, CFI: 0, IDI 300 101 = Priority: Video, < 100ms latency and jitter (5) 0001 0010 1100 = ID: 300 Type: IP (0x0800) B Internet Protocol Version 4, Src: 130.130.130.100 (130.130.130.100), Dst: 188.66.11.10 (188.66.11.10) B User Datagram Protocol, Src Port: 10010 (10010), Dst Port: 10070 (10070) B [Stream Setup by SDP (frame 32)] 10 = Version: RFC 1889 Version (2) 0 = Padding: False 0 = Marker: False Pavload type: ITU-T G.711 PCMU (0) </pre>	
<pre>prame 37: 215 bytes on wire (1744 bits), 218 bytes captured (1744 bits) on interface 0 # thernet II, Src: shanghal_00:26:90 (00:0e:a9:00:26:90), pst: shanghal_26:02:69 (00:0e:a9:26:02:69) 802.1Q virtual LAN, PRI: 5, CFL: 0, IDI 300 101</pre>	
<pre>n Prame 37: 216 bytes on wire (1744 bits), 216 bytes captured (1744 bits) on interface 0 Bethernet II, Src: shanghal_00:26:90 (00:0e:a9:00:26:90), pst: shanghal_26:02:69 (00:0e:a9:26:02:69) B02.1Q virtual LAN, PRI: 5, CFL: 0, ID: 300 101 = Priority: Video, < 100ms latency and jitter (5) 0001 0010 1100 = ID: 300 Type: IP (0x0800) Internet Protocol version 4, Src: 130.130.130.100 (130.130.130.100), pst: 188.66.11.10 (188.66.11.10) User Datagram Protocol, Src Port: 10010 (10010), pst Port: 10070 (10070) Extension: RFC 1889 Version (2) 0000 = contributing source identifiers count: 0 0000 = contributing source identifiers count: 0 = Marker: False Pavload type: ITU-T G.711 PCMU (0) check that tag 200 of the management VLAN is carried in the HTTP packet in the PC magement of the Smart ATA UI.</pre>	

Figure 1-17 HTTP data packet carrying VLAN tag of the voice VLAN in the multiservice VLAN mode

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Configure with auto-provision	
2.1 Single VLAN mode ←	Formatted: Heading 1,heading 1
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LLDP_TX_INTERVAL = 60 //LLDP message sending period	
//Single vlan parameters	
DATA_VLAN = yes //Single vlan on/off	
DATA_VLAN_TAG = 200 //Single vlan id	
DATA_VLAN_QOS = 5 //Single vlan priority	
DATA_VLAN_GETIP = 1 //Single vlan IP get method,1:DHCP+_0:STATIC	
/When DATA_VLAN_GETIP=0, need to set static IP address	
DATA_IPADDR=192.168.2.218 //Single vlan IP address	
DATA_NETMASK=255.255.0.0 //Netmask	
DATA_GATEWAY=192.168.2.1 //Gateway	
2.2 Multiservice VLAN mode	Formatted: Normal
2.2.1 Mode 1 - Signaling (SIP) and media stream (RTP/T.38) are on the same VLAN	
-[NETWORK]	
DATA_VLAN = no //Single vlan should be disabled in Multiservice mode	
VOICE_VLAN = yes //Voice vlan on/off	
VOICE_VLAN_TAG = 200 //Voice vlan id	
VOICE_VLAN_QOS = 2 //Voice vlan priority_	
VOICE_VLAN_GETIP = 1 //Voice vlan IP get method,1:DHCP; 0:STATIC	
/When VOICE_VLAN_GETIP=0, need to set static IP address-	
VOICE_IPADDR = 10.128.10.33 //Voice vlan IP address	
VOICE_NETMASK = 255.255.255.0 //Voice vlan netmask	
VOICE_GATEWAY = 10.128.1.1 //Voice vlan gateway	
BOA MAN TAO 2000 (MAssessment Vian on/off	
BOA_VLAN_IAG = 300 //Management vlan id	
BUA_VLAN_QUD = 3 //Management vian priority ROA_VLAN_CETID = 1 //Management vian ID get method 4:DUCD = 0:STATIC	
BUA_VLAN_GETIF = 1 //Wahagement vian if get method, I:DHUF; U:STATIG	
//vhendum_vlAiv_uEhtf=u, heeu lu sel siallu if addfess-	

BOA_IPADDR = 192.128.10.33 //Management vlan IP address BOA_NETMASK = 255.255.255.0 //Management vlan netmask-BOA_GATEWAY = 192.128.1.1 //Management vlan gateway

2.2.2 Mode 2 - Signaling (SIP) and media stream (RTP/T.38) are on different VLANs

[NETWORK]

DATA_VLAN = no //Single vlan should be disabled in Multiservice mode

VOICE_VLAN = no //Voice vlan should be disabled in Multiservice mode 2

SIP_FG_VLAN = yes //mode 2 vlan on/off

SIP_VLAN_TAG = 200 //sip vlan id

SIP_VLAN_QOS = 4 //sip vlan priority

RTP_VLAN_TAG = 300 //rtp vlan id

RTP_VLAN_QOS = 3 //rtp vlan priority-

BOA_VLAN = yes //Management vlan on/off

BOA_VLAN_TAG = 300 //Management vlan id

BOA_VLAN_QOS = 3 //Management vlan priority-

BOA_VLAN_GETIP = 1 //Management vlan IP get method,1:DHCP; 0:STATIC

/When BOA_VLAN_GETIP=0, need to set static IP address

BOA_IPADDR = 192.128.10.33 //Management vlan IP address

BOA_NETMASK = 255.255.255.0 //Management vlan netmask

BOA_GATEWAY = 192.128.1.1 //Management vlan gateway

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3_2_Appendix

3.1-2.1 Parameter Description and Captured Files

Figure 2-1 VLAN configuration interface

VLAN configuration		
	On	Off
Mode	🔘 Single VLAN	Multi-service VLAN
Voice VLAN	Mode 1 👻	
VLAN tag	300	(range:1-4094)
VLAN QoS	5 (Voice, < 10 ms latency	/ and jitter) 👻
IP address assignment	DHCP -	
IP address		
Netmask		
Gateway IP address		
MTU	1500	(range: 576~1500)
Management VLAN		
VLAN tag	200	(range:1-4094)
VLAN QoS	1 (Background)	▼
IP address assignment	DHCP -	
IP address		
Netmask		
Gateway IP address		
MTU	1500	(range: 576~1500)

Table 2-1 Description of parameters in the VLAN configuration interface

Parameter	Description
VLAN switch	On: enable VLAN
	Off: disable VLAN
VLAN Mode	• Single VLAN: All services of the device are on the same VLAN, and the device receives only data packets carrying the VLAN and includes the VLAN tag in all sent data packets.
	 Multi-service VLAN: The device can configure different VLAN information for the voice service (SIP signaling and RTP/T.38 media stream) and the management service (HTTP, Telnet, TR069, and SNMP) and includes a different VLAN tag in a data packets of a different service.
VLAN tag	Tag of the VLAN. The value ranges from 1 to 1094.
VLAN Qos	Priority of the VLAN. The value ranges from 0 to 7. A large value indicates a higher priority of a to-be-sent data packet.
Voice VLAN	VLAN to which the voice service (SIP signaling and RTP media stream) belongs.
	None: disable the voice VLAN
	Mode 1: SIP and RTP are on thesame VLAN
	Mode 2: SIP and RTP are on different VLANs

2-10

Parameter	Description
Management VI AN	Selected: enable the management VLAN
	Deselected: disable the management VLAN
Network type	Type for obtaining the IP address of the VLAN interface.
	Static: set the IP address to a static IP address
	DHCP: automatically obtain an IP address by using the DHCP protocol
IP address	IP address of the VLAN interface
Netmask	Subnet mask of the VLAN interface
Gateway IP address	IP address of the gateway of the VLAN interface
MTU	Maximum Transmission Unit value of the VLAN interface. The value ranges from 576 to 1500. The default value is 1500.

Captured packet files relevant to the document:





3.2 2.2 Acronyms

DHCP – The **Dynamic Host Configuration Protocol (DHCP)** is a <u>standardized</u> networking protocol used on <u>Internet Protocol</u> (IP) networks for dynamically distributing network configuration parameters, such as <u>IP addresses</u> or interfaces and services. With DHCP, computers request IP addresses and networking parameters automatically from a DHCP server, reducing the need for a <u>network administrator</u> or a user to configure these settings manually.¹

LLDP: Link-Layer Discovery Protocol -- LLDP is a vendor-neutral <u>link-layer</u> protocol in the <u>Internet</u> <u>Protocol Suite</u> used by network devices for advertising their identity, capabilities, and neighbors on an <u>IEEE 802</u> local -area network, principally wired <u>Ethernet</u>. The protocol is formally referred to by the IEEE as *Station and Media Access Control Connectivity Discovery* specified in standards document **EEE 802.1AB**.²

¹ Wikipedia

² Wikipedia

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Virtual LAN – In	computer networking, a	single layer-2 network	may be <u>partitioned</u> through		Formatted: Font: 9 pt
software to create only pass betweer network, virtual LA	e multiple distinct <u>broadcas</u> n them via one or more <u>rou</u> N or VLAN.	<u>st domains</u> that are mutual <u>uters</u> ; such a domain is ref	ly isolated so that packets can erred to as a virtual local area		Formatted: None, Space After: 0 pt, Line spacing: single, No bullets or numbering, Don't keep with next, Don't compress initial punctuation, Tab stops:
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	DATA_VLAN_QO	Single vlan priority	<u>1-7</u>	\checkmark	Formatted
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<u>e</u>	Parameter	Description	Value		Formatted	
	BOA_VLAN_TAG	Management vlan ID	<u>1-4094</u>	-	Formatted	
		Management vien	17	•	Formatted	
	BUA_VLAN_QUS		<u>1-7</u>		Formatted	
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	<u>P.</u>	obtain method	<u>0:STATIC</u>	\mathcal{M}	Formatted	
	BOA_IPADDR	Management vlan IP	<u>0.0.0.0 -</u>	<u> </u>	Formatted	
		address	255.255.255.255		Formatted	
	BOA NETMASK	Management vlan	0.0.0		Formatted	
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	BOA GATEWAY	Management vlan	<u>0.0.0.0 -</u>		Formatted	
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	SIP_FG_VLAN	Changing multiservice	Parameter value		Formatted	
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			mode 1		Formatted	
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	SIP_VLAN_TAG	Signal vlan ID	<u>1-4094</u>	— <u>]</u>]][[]	Formatted	
	SIP VLAN QOS	Signal vlan priority	<u>1-7.</u>		Formatted	
	RTP VI AN TAC	RTP vlan ID	1-4094	-11	Formatted	
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	<u>G = 200 //Single vlan id</u>			NNN/	Formatted	
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ATA_VLAN_TA	S = 5 //Single vian priority			110 M C		
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ATA_VLAN_TA ATA_VLAN_QC ATA_VLAN_QC ATA_VLAN_GE Ahen DATA_VL ATA_IPADDR= ATA_NETMASH	35 = 5 //Single vian priority TIP = 1 //Single vian IP get r .AN_GETIP=0 , need to set s 192.168.2.218 //Single vian I <=255.255.0.0 //Netmask	nethod,1:DHCP:_0:STATIC <u>static IP address_</u> <u>P address</u>			Formatted Formatted Formatted Formatted	
ATA_VLAN_TA ATA_VLAN_QC ATA_VLAN_QC ATA_VLAN_GE When DATA_VL ATA_IPADDR= ATA_NETMASH ATA_GATEWA	TIP = 1 //Single vlan priority TIP = 1 //Single vlan IP get r AN_GETIP=0 , need to set a 192.168.2.218 //Single vlan I (=255.255.0.0 //Netmask (=192.168.2.1 //Gateway	nethod,1:DHCP;_0:STATIC <u>static IP address_</u> <u>P address</u>			Formatted Formatted Formatted Formatted Formatted	
ATA_VLAN_TA	75 = 5 //Single vian priority TIP = 1 //Single vian IP get r AN_GETIP=0 , need to set r 192.168.2.218 //Single vian I (=255.255.0.0 //Netmask (=192.168.2.1 //Gateway	nethod,1:DHCP;-0:STATIC <u>static IP address-</u> <u>P address</u>			Formatted Formatted Formatted Formatted Formatted	
ITA_VLAN_TA ITA_VLAN_QC ITA_VLAN_GE /hen_DATA_VI ITA_IPADDR= ITA_NETMASH ITA_GATEWA	25 = 5 //Single vlan priority TIP = 1 //Single vlan IP get r AN_GETIP=0 , need to set : 192.168.2.218 //Single vlan I (=255.255.0.0 //Netmask (=192.168.2.1 //Gateway	nethod,1:DHCP: 0:STATIC <u>static IP address</u> P address			Formatted Formatted Formatted Formatted Formatted Formatted	
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TA_VLAN_TA	25 = 5 //Single vian priority TIP = 1 //Single vian IP get r .AN_GETIP=0 , need to set s 192.168.2.218 //Single vian I <=255.255.0.0 //Netmask <=192.168.2.1 //Gateway	nethod,1:DHCP:-0:STATIC static IP address P address	NetGen Communications,	nc.	Formatted Formatted Formatted Formatted Formatted Formatted Formatted	
ATA_VLAN_TA	25 = 5 //Single vian priority TIP = 1 //Single vian IP get r .AN_GETIP=0 , need to set s 192.168.2.218 //Single vian I <=255.255.0.0 //Netmask (=192.168.2.1 //Gateway	nethod,1:DHCP:_0:STATIC static IP address_ P address	NetGen Communications,	nc.	Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted	
ATA_VLAN_TA ATA_VLAN_QC ATA_VLAN_QC ATA_VLAN_GE Vhen DATA_VI ATA_IPADDR= ATA_NETMASH ATA_GATEWAY	TIP = 1 //Single vlan priority TIP = 1 //Single vlan IP get r AN_GETIP=0 , need to set : 192.168.2.218 //Single vlan I (=255.255.0.0 //Netmask (=192.168.2.1 //Gateway	nethod,1:DHCP;_0:STATIC static IP address_ P address	NetGen Communications,	nc.	Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted	
ATA_VLAN_TA ATA_VLAN_QC ATA_VLAN_GE When DATA_VL ATA_IPADDR= ATA_NETMASH ATA_GATEWAY	25 = 5 //Single vlan priority TIP = 1 //Single vlan IP get r AN_GETIP=0 , need to set : 192.168.2.218 //Single vlan I (=255.255.0.0 //Netmask (=192.168.2.1 //Gateway	nethod,1:DHCP:-0:STATIC static IP address P address	NetGen Communications,	 nc.	Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted	
ATA_VLAN_TA ATA_VLAN_QC ATA_VLAN_QC ATA_VLAN_GE When DATA_VL ATA_IPADDR= ATA_NETMAS ATA_GATEWA	25 = 5 //Single vlan priority TIP = 1 //Single vlan IP get r .AN_GETIP=0 , need to set : 192.168.2.218 //Single vlan I (=255.255.0.0 //Netmask (=192.168.2.1 //Gateway	nethod,1:DHCP:-0:STATIC static IP address P address	NetGen Communications,	nc.	Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted	
-114	<u>S = 5 //Single vlan priority</u> <u>TIP = 1 //Single vlan IP get r</u> <u>AN_GETIP=0 , need to set :</u> <u>192.168.2.218 //Single vlan I</u> <u>(=255.255.0.0 //Netmask</u> <u>(=192.168.2.1 //Gateway</u>	nethod,1:DHCP:-0:STATIC static IP address P address	NetGen Communications,	nc.	Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted	
	<u>S = 5 //Single vlan priority</u> <u>TIP = 1 //Single vlan IP get r</u> <u>AN_GETIP=0 , need to set :</u> <u>192.168.2.218 //Single vlan I</u> <u><=255.255.0.0 //Netmask</u> <u><=192.168.2.1 //Gateway</u>	nethod,1:DHCP:-0:STATIC static IP address P address	NetGen Communications,	nc.	Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted Formatted	

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3.4 <u>Multiservice VLAN mode</u>	Formatted: Normal
3.4.1 Mode 1 - Signaling (SIP) and media stream (RTP/T.38) are on the same VLAN	
DATA VI AN = no //Single vian should be disabled in Multiservice mode	
VOICE VI AN = ves //Voice vian on/off	
VOICE VI AN TAG = 200 ///oice vian id	
$\frac{VOICE}{VI AN OOS} = 2 / Voice vian priority$	
VOICE VLAN GETIP = 1 //Voice vlan IP get method.1:DHCP: 0:STATIC	
/When VOICE_VLAN_GETIP=0, need to set static IP address	
VOICE IPADDR = 10.128.10.33 //Voice vlan IP address	
VOICE NETMASK = 255.255.255.0 //Voice vlan netmask	
VOICE GATEWAY = 10.128.1.1 //Voice vlan gateway	
BOA VLAN = ves //Management vlan on/off	
BOA_VLAN_TAG = 300 //Management vlan id	
BOA_VLAN_QOS = 3 //Management vlan priority_	
BOA_VLAN_GETIP = 1 //Management vlan IP get method, 1:DHCP+ 0:STATIC	
/When BOA_VLAN_GETIP=0, need to set static IP address	
BOA_IPADDR = 192.128.10.33 //Management vlan IP address	
BOA_NETMASK = 255.255.255.0 //Management vlan netmask_	
BOA_GATEWAY = 192.128.1.1 //Management vlan gateway	
3.4.2 Mode 2 - Signaling (SIP) and media stream (RTP/T.38) are on different VLANs	
INETWORKI	
DATA_VLAN = no //Single vlan should be disabled in Multiservice mode	
VOICE VLAN = no //Voice vlan should be disabled in Multiservice mode 2	
<u>SIP_FG_VLAN = ves //mode 2 vlan on/off</u>	
<u>SIP_VLAN_TAG = 200 //sip_vlan_id</u>	
SIP_VLAN_QOS = 4 //sip vlan priority_	
RTP_VLAN_TAG = 300 //rtp vlan id	
RTP_VLAN_QOS = 3 //rtp vlan priority_	
<u>BOA_VLAN = yes //Management vlan on/off</u>	
BOA_VLAN_TAG = 300 //Management vlan id	
BOA_VLAN_QOS = 3 //Management vlan priority_	
BOA_VLAN_GETIP = 1 //Management vlan IP get method,1:DHCP:_0:STATIC	
/When BOA_VLAN_GETIP=0, need to set static IP address	
BOA_IPADDR = 192.128.10.33 //Management vlan IP address	
<u>BOA_IPADDR = 192.128.10.33 //Management vlan IP address</u> BOA_NETMASK = 255.255.255.0 //Management vlan netmask_	

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