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VLAN Configuration Guide

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Contents

Contents of Figure

Contents of Table

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.

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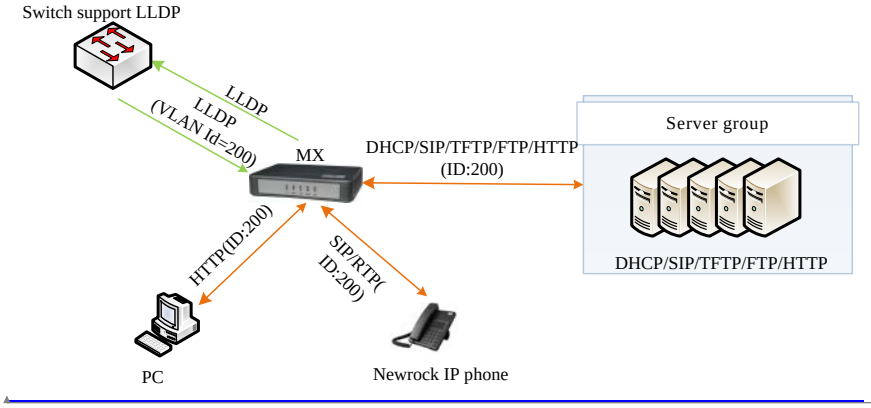

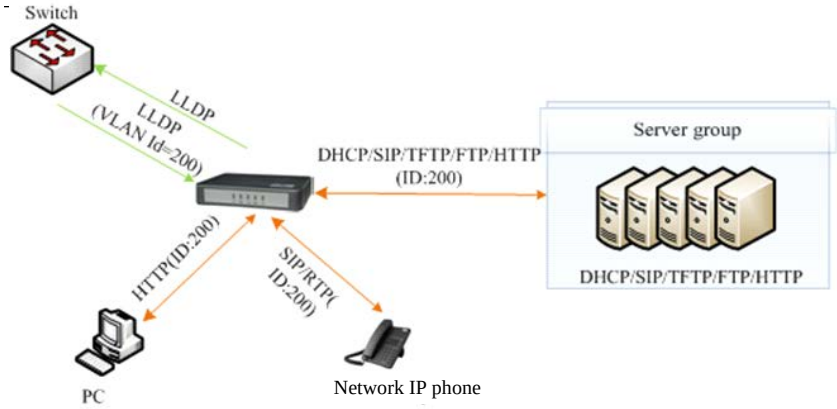

Figure 1-1 System composition

The process consists of the following steps:

1. 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.

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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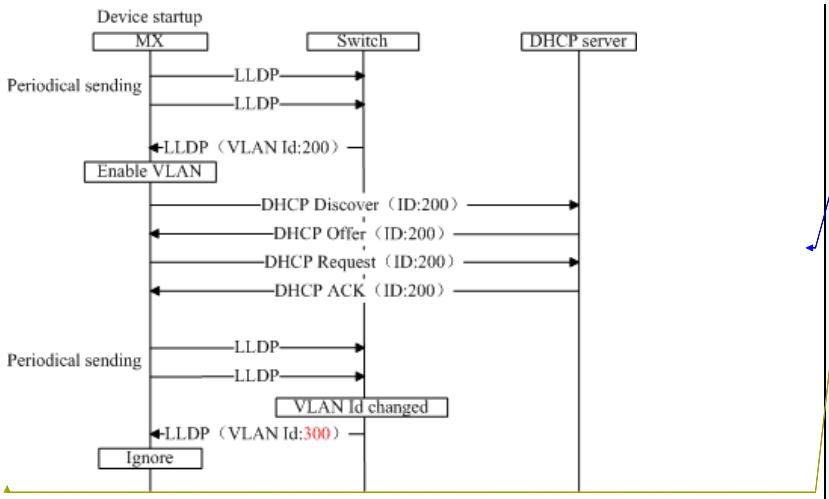
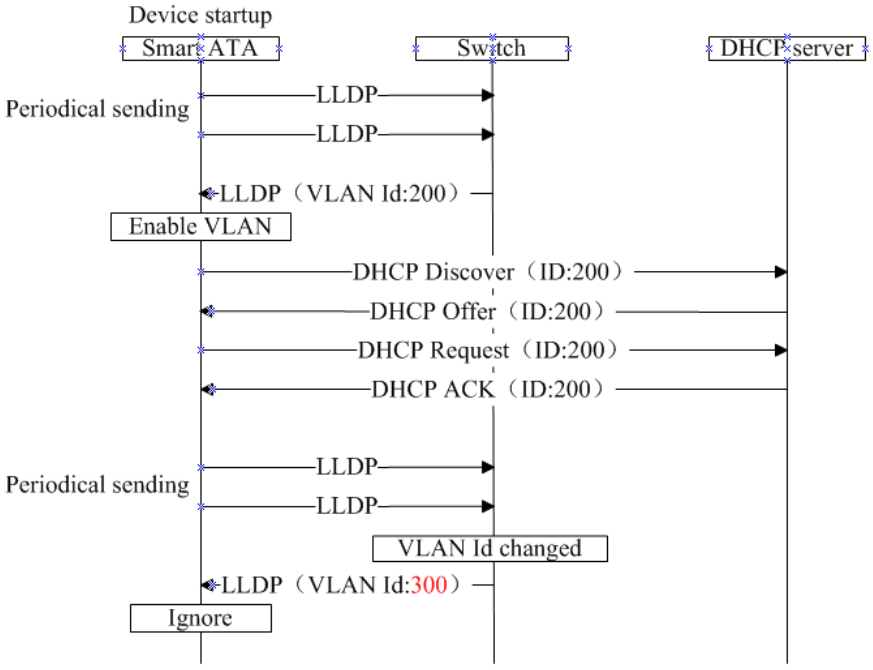
Figure 1-2 Procedure of handling LLDP message carrying a VLAN ID





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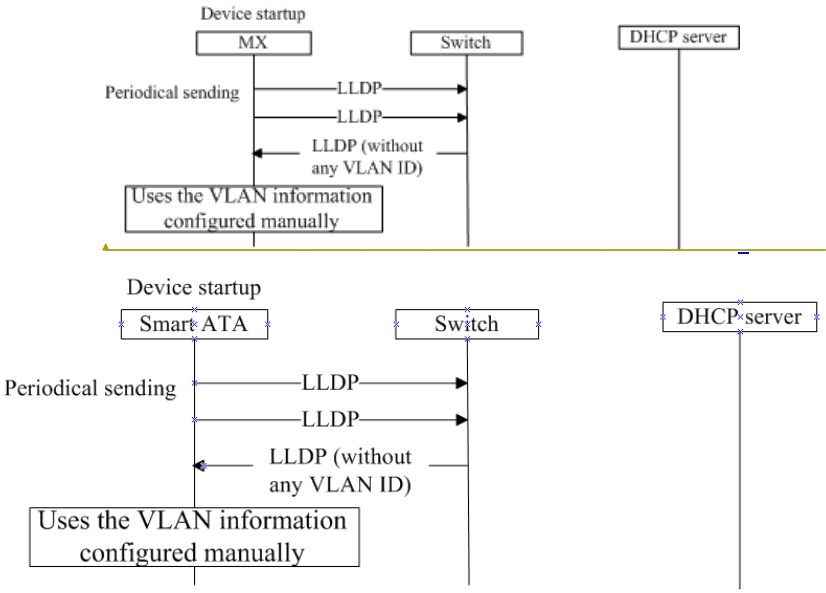
1.2.1 LLDP Message with no VLAN ID

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



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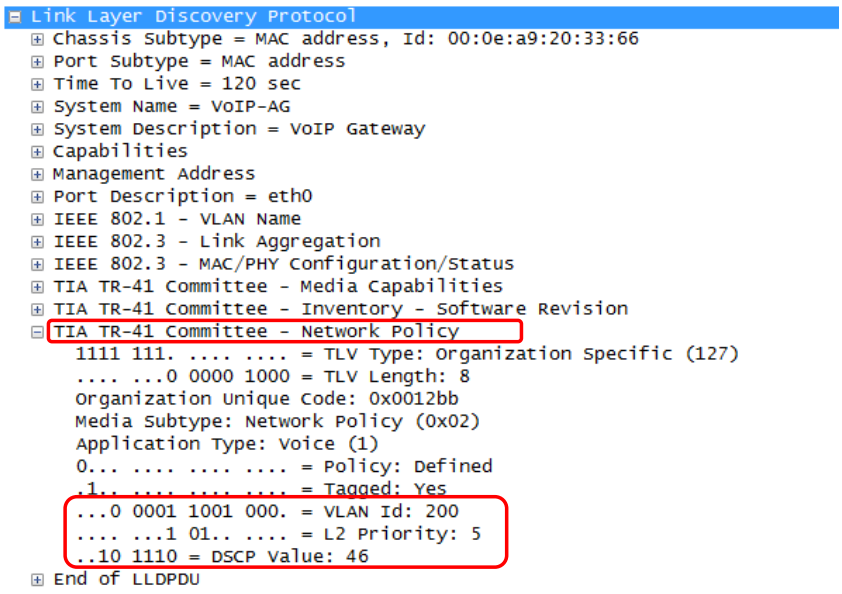
1.2.2 The LLDP Message

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.

Figure 1-4 LLDP message

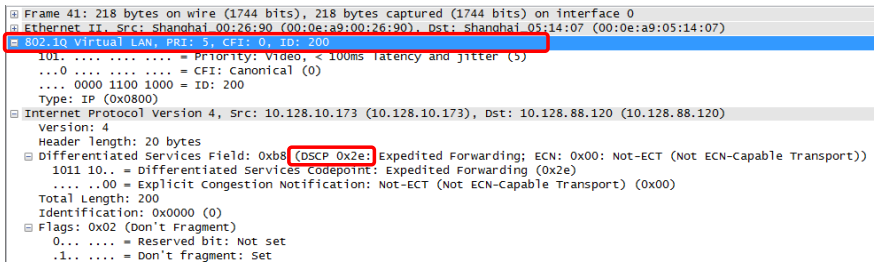


1.2.3 Sent Message with a VLAN ID

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

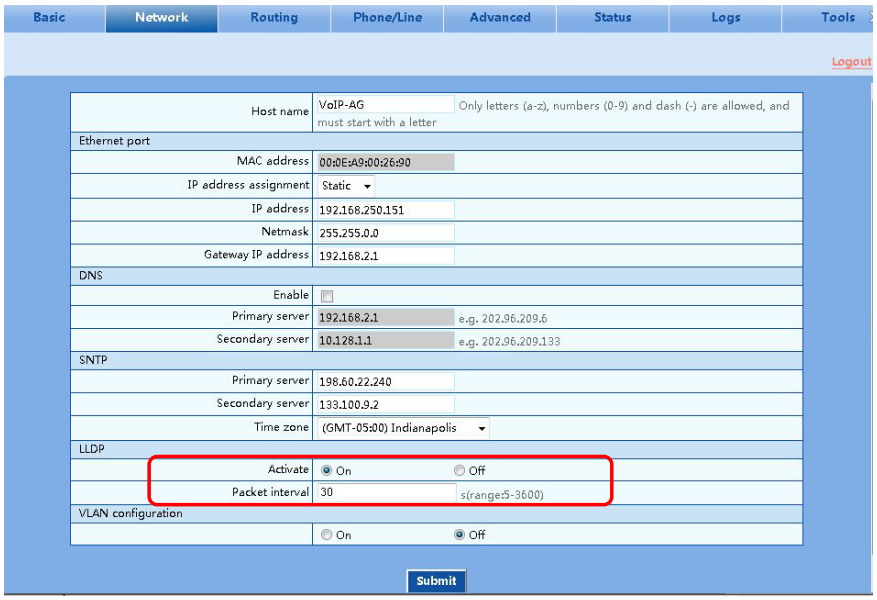

Table 1-1 LLDP configuration parameters

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

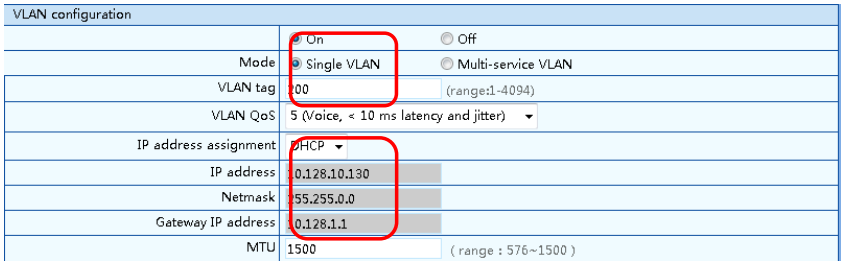
1.3.1 Single VLAN

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.

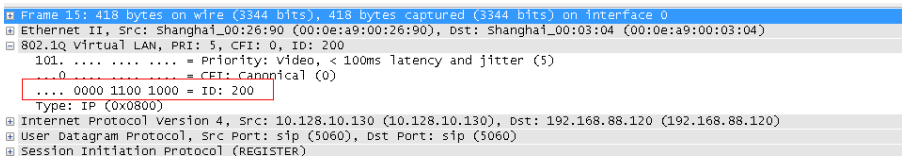
Figure 1-7 Configuring the single VLAN



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

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**

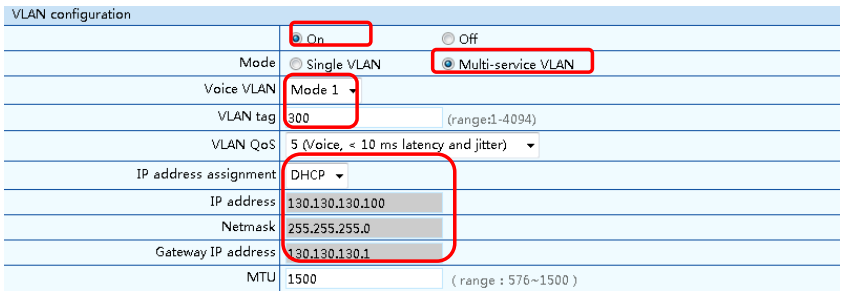
Note

In this mode, the voice VLAN can be configured with a separate IP address.

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



Note

In this mode, the voice VLAN cannot be configured with a separate address but shares the IP address of the VLAN interface of the device.

Mode 2 - SIP Signaling and Media on Different VLANs

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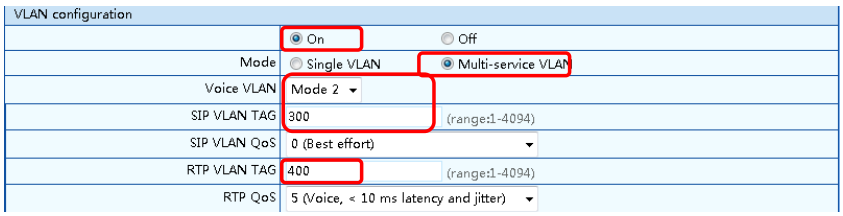
Figure 1-10 Configuring voice VLAN to work in mode 2



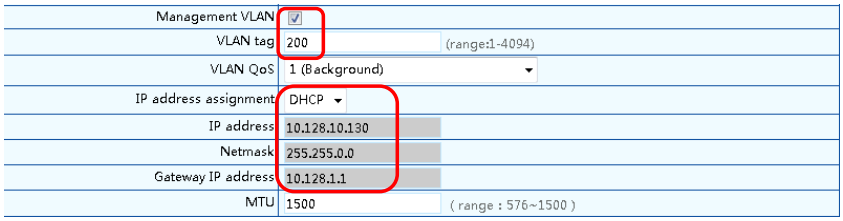
1.3.2.2 Configuring Management VLAN

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.

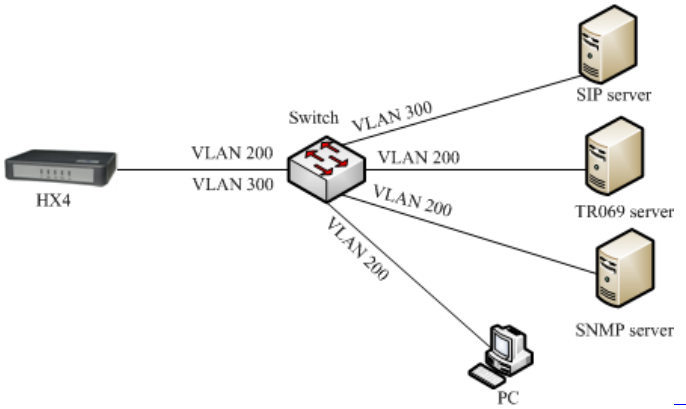
Figure 1-11 Configuring Management VLAN

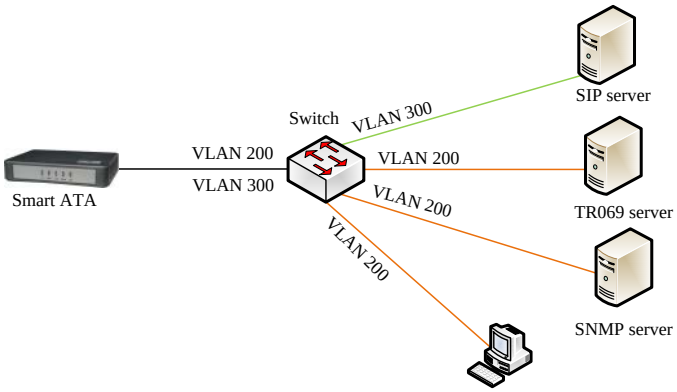


1.3.2.3 Scenario

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.

Figure 1-12 Network environment





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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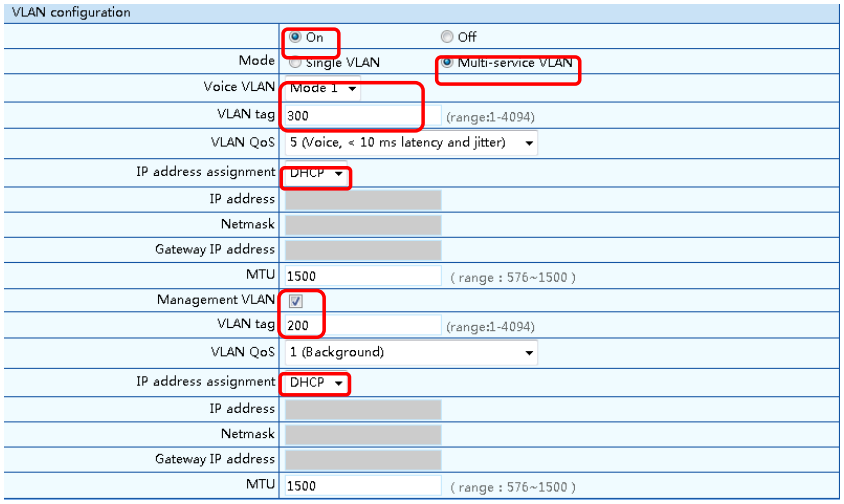
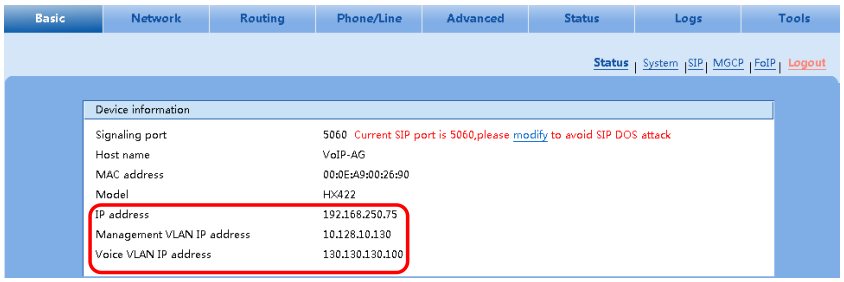
Figure 1-13 Configuring multiservice VLAN



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.

Figure 1-14 IP addresses of the device in multiservice 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.

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

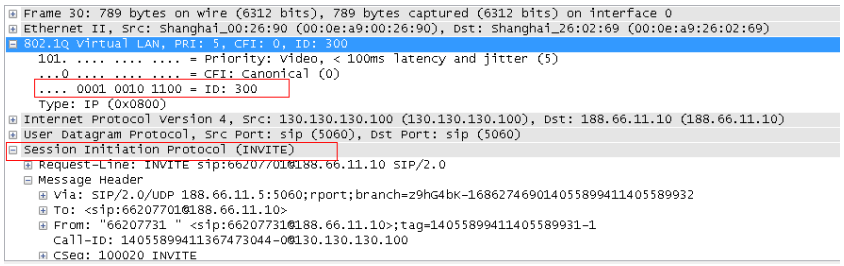
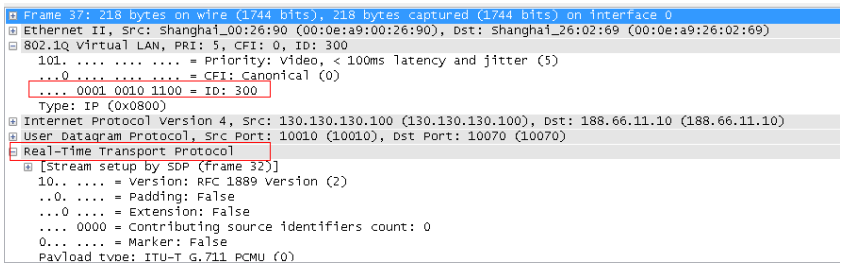
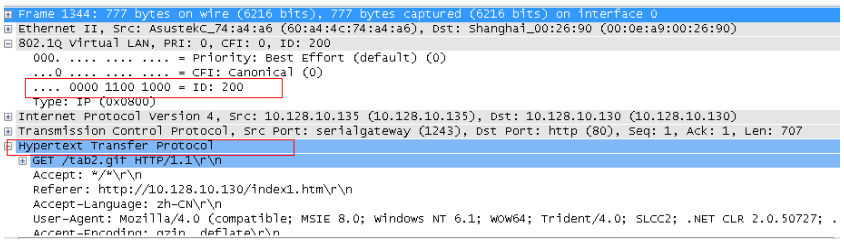


Figure 1-16 RTP data packet carrying VLAN tag of the voice VLAN in the multiservice VLAN mode



4. Check that tag 200 of the management VLAN is carried in the HTTP packet in the PC management of the Smart ATA UI.

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



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2 Configure with auto-provision

2.1 Single VLAN mode

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[NETWORK]
//LLDP parameters
LLDP_ENABLE = on //LLDP on/off
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

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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_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

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

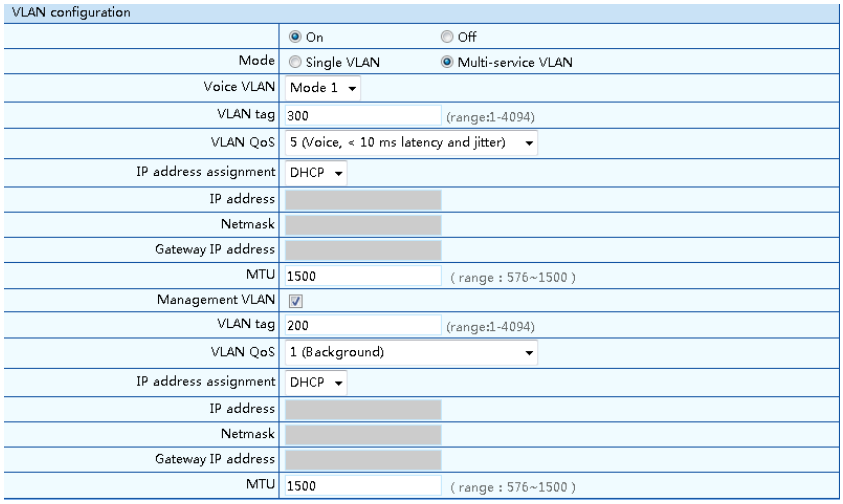

Table 2-1 Description of parameters in the VLAN configuration interface

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 the same VLAN ● Mode 2: SIP and RTP are on different VLANs

Parameter	Description
Management VLAN	● 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 standardized networking protocol used on Internet Protocol (IP) networks for dynamically distributing network configuration parameters, such as IP addresses or interfaces and services. With DHCP, computers request IP addresses and networking parameters automatically from a DHCP server, reducing the need for a network administrator or a user to configure these settings manually.[1]

LLDP: Link-Layer Discovery Protocol -- LLDP is a vendor-neutral link-layer protocol in the Internet Protocol Suite used by network devices for advertising their identity, capabilities, and neighbors on an IEEE 802 local -area network, principally wired Ethernet. 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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~~3.3~~ 2.3 VLAN introduction

Virtual LAN – In **computer networking**, a single **layer-2 network** may be **partitioned** **through software** to create multiple distinct **broadcast domains** that are mutually isolated so that packets can only pass between them via one or more **routers**; such a domain is referred to as a virtual local area network, virtual LAN or VLAN.

Attached below is a packet capturing file for LLDP messages with VLAN ID.

Netgen. pcapng

2.4 Configure VLAN via auto-provision

Node	Parameter	Description	Value
[NETWORK]	LLDP_ENABLE	Enabling LLDP	Parameter value should be on or off CFG_UPGRADE = on to enable LLDP CFG_UPGRADE = off to disable LLDP
	LLDP_TX_INTERVAL	LLDP message sending interval	The default value is 60 seconds.
	DATA_VLAN	Enabling single vlan	Parameter value should be yes or no DATA_VLAN = yes to enable single VLAN DATA_VLAN = no to disable single VLAN Single vlan should be disabled in Multiservice mode.
	DATA_VLAN_TAG	Single vlan ID	1-4094
	DATA_VLAN_QOS	Single vlan priority	1-7

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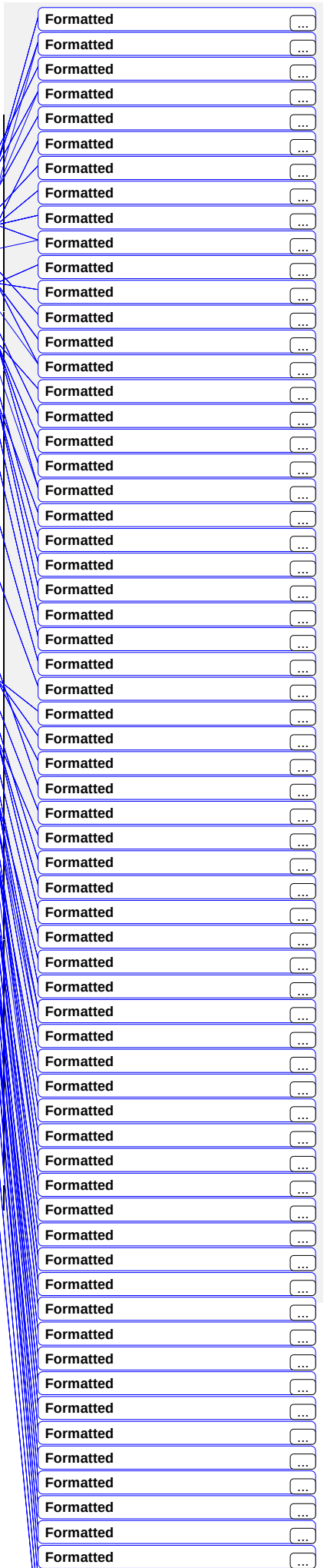
Node	Parameter	Description	Value
	DATA_VLAN_GETIP	Single vlan IP obtain method	1:DHCP； 0:STATIC
	DATA_IPADDR	Single vlan IP address	0.0.0.0 - 255.255.255.255
	DATA_NETMASK	Single vlan netmask	0.0.0.0 - 255.255.255.255
	DATA_GATEWAY	Single vlan gateway	0.0.0.0 - 255.255.255.255
	VOICE_VLAN	Enabling voice VLAN	Parameter value should be yes or no VOICE_VLAN = yes to enable voice VLAN VOICE_VLAN = no to disable voice VLAN Voice vlan should be disabled in Multiservice mode 2
	VOICE_VLAN_TAG	Voice vlan ID	1-4094
	VOICE_VLAN_QOS	Voice vlan priority	1-7
	VOICE_VLAN_GETIP	Voice vlan IP obtain method	1:DHCP； 0:STATIC
	VOICE_IPADDR	Voice vlan IP address	0.0.0.0 - 255.255.255.255
	VOICE_NETMASK	Voice vlan netmask	0.0.0.0 - 255.255.255.255
	VOICE_GATEWAY	Voice vlan gateway	0.0.0.0 - 255.255.255.255
	BOA_VLAN	Enabling management VLAN	Parameter value should be yes or no BOA_VLAN = yes to enable voice VLAN BOA_VLAN = no to disable voice VLAN



VLAN Auto Configuration via LLDP

Node	Parameter	Description	Value
	BOA_VLAN_TAG	Management vlan ID	1-4094
	BOA_VLAN_QOS	Management vlan priority	1-7
	BOA_VLAN_GETIP	Management vlan IP obtain method	1:DHCP；0:STATIC
	BOA_IPADDR	Management vlan IP address	0.0.0.0 - 255.255.255.255
	BOA_NETMASK	Management vlan netmask	0.0.0.0 - 255.255.255.255
	BOA_GATEWAY	Management vlan gateway	0.0.0.0 - 255.255.255.255
	SIP_FG_VLAN	Changing multiservice mode	Parameter value should be yes or no SIP_FG_VLAN = yes to enable multiservice mode 2 SIP_FG_VLAN = no to enable multiservice mode 1
	SIP_VLAN_TAG	Signal vlan ID	1-4094
	SIP_VLAN_QOS	Signal vlan priority	1-7
	RTP_VLAN_TAG	RTP vlan ID	1-4094
	RTP_VLAN_QOS	RTP vlan priority	1-7

```
[NETWORK]
//LLDP parameters
LLDP_ENABLE = on //LLDP on/off
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
```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3.4 Multiservice VLAN mode

3.4.1 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_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

3.4.2 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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