

Alcatel-Lucent Enterprise

Myriad and Halo Series DeskPhone

Administrator Guide



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1. Introduction

The ALE DeskPhone Administrator Guide provides general guidance on setting up phone network, provisioning and managing phones.

This guide is not intended for end users, but for administrators with experience in networking who understand the basics of open SIP networks and VoIP endpoint environments.

As an administrator, you can do the following with this guide:

- Set up a VoIP network and provisioning server.
- Provision the phone with features and settings.
- Upgrade and maintain phones.

This guide is applicable to the following ALE devices running firmware version R130 or above:

- Myriad series phones, including M3, M5, M7 and M8.
- Halo series phones, including H3P, H3G and H6.

2. Phone Network

The ALE Myriad Series phones operate on an Ethernet local area network (LAN) or wireless network.

2.1 IPv4 and IPv6 Network Settings

The ALE Myriad Series phones support IPv4 addressing mode and IPv6 addressing mode.

After connecting to the wired network, the phones can obtain the IPv4 or IPv6 network settings from a Dynamic Host Configuration Protocol (DHCP) server if your network supports it. To make it easier to manage IP settings, we recommend you use automated DHCP which can eliminate repetitive manual data entry.

You can also configure IPv4 or IPv6 network settings manually.

Note: The ALE Myriad Series phones comply with the DHCPv4 specifications documented in RFC 2131, and DHCPv6 specifications documented in RFC 3315.

In DHCP mode, if the phone cannot get IP address, the IP address in status menu will be displayed as "0.0.0.0" and prompt "network unavailable" message.

2.1.1 IP Addressing Mode Configuration

Parameter	DeviceNetworkIpStackMode	config.xml
Description	It configures the IP addressing mode.	
Permitted Values	IPv4 IPv6	
Default IPv4		
Phone UIMenu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network \rightarrow IP Stack \rightarrow Stack		→ IP Stack → IP
Web UI	Network \rightarrow IP Parameters \rightarrow Internet Port \rightarrow IP Stack Mode Note: Only the M8 phone supports IPv6 configuration in phone we	b.

The following table lists the parameters you can use to configure the IP addressing mode.

Note: If you change this parameter, the IP phone will reboot for the change to take effect.

2.1.2 IPv4 Configuration

The following table lists the parameters you can use to configure IPv4.

Parameter	DeviceNetworkDhcpMode	config.xml
Description	It configures the Internet port type for IPv4. Note: It works only if "DeviceNetworkIpStackMode" is set to IPv4.	
Permitted Values	Static Dynamic DynamicAlcatel	

Default	Dynamic		
Web UI	Network \rightarrow IP parameters \rightarrow DHCP Mode		
Phone UI	Menu → Advanced Setting (default password: 123456) → Network → IP Config → IPv4 Settings → IPv4 Mode		
Parameter	DeviceNetworkIpAddress	config.xml	
Description	It configures the IPv4 address. Note: It works only if "DeviceNetworkIpStackMode" is set to IPv4, and "DeviceNetworkDhcpMode" is set to Static.		
Permitted Values	IPv4 Address		
Default	0.0.0.0		
Web UI	Network \rightarrow IP parameters \rightarrow IP Address		
Phone UI	ne UI Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network \rightarrow IP Config \rightarrow IPv4 Settings \rightarrow IP		
Parameter	DeviceNetworkSubnetMask	config.xml	
Description	It configures the IPv4 subnet mask. Note: It works only if "DeviceNetworkIpStackMode" is set to IPv4, "DeviceNetworkDhcpMode" is set to Static.	. and	
Permitted Values	Subnet Mask		
Default	255.255.255		
Web UI	Network \rightarrow IP parameters \rightarrow Subnet Mask		
Phone UI	one UIMenu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network \rightarrow IP Config \rightarrow IPv4 Settings \rightarrow S/net		
Parameter	DeviceNetworkGateway	config.xml	
Description	It configures the IPv4 default gateway. Note: It works only if "DeviceNetworkIpStackMode" is set to IPv4, "DeviceNetworkDhcpMode " is set to Static.	. and	
Permitted Values	IPv4 Address		
Default	0.0.0.0		
Web UI	Network \rightarrow IP parameters \rightarrow Gateway		
Phone UI	Menu \rightarrow Advanced (default password: 123456) Setting \rightarrow Network \rightarrow IP Config \rightarrow IPv4 Settings \rightarrow Gateway		
Parameter	DeviceNetworkDns1	config.xml	



DescriptionIt configures the primary IPv4 DNS server.Note: It works only if "DeviceNetworkIpStackMode" is set to IPv4, and "DeviceNetworkDhcpMode" is set to Static.Old command line: DmEnetcfgDns1		, and	
Permitted Values	IPv4 Address		
Default	Blank		
Web UI	Network \rightarrow IP parameters \rightarrow DNS1		
Phone UI	Menu \rightarrow Advanced (default password: 123456) Setting \rightarrow Network \rightarrow IP Config \rightarrow IPv4 Settings \rightarrow DNS1		
Parameter	DeviceNetworkDns2 config.xml		
Description	It configures the secondary IPv4 DNS server. Note: It works only if "DeviceNetworkIpStackMode" is set to IPv4 "DeviceNetworkDhcpMode " is set to Static. Old command line: DmEnetcfgDns2	, and	
Permitted Values	IPv4 Address		
Default	fault Blank		
Web UI	UI Network \rightarrow IP parameters \rightarrow DNS2		
Phone UIMenu \rightarrow Advanced (default password: 123456) Setting \rightarrow Network \rightarrow IPv4 Settings \rightarrow DNS2		c → IP Config →	

Note: If you change this parameter, the IP phone will reboot for the change to take effect.

2.1.3 IPv6 Configuration

To configure the network settings on the phone for an IPv6 network, you can set up an IP address for the phone by using SLAAC (ICMPv6), DHCPv6 or by manually entering an IP address. Ensure that your network environment supports IPv6. Contact your ISP for more information.

When you enable both SLAAC and DHCPv6 on the phone, the server can specify the IP phone to obtain the IPv6 address and other network settings either from SLAAC or from DHCPv6. If the SLAAC server is not working, the IP phone will try to obtain the IPv6 address and other network settings via DHCPv6.

Parameter	DeviceNetworkIpv6DhcpMode	config.xml
Description	It configures the Internet port type for IPv6. Note: It works only if "DeviceNetworkIpStackMode" is set to IPv6.	
Permitted Values	Permitted Static Values Dynamic	

The following table lists the parameters you can use to configure IPv6.

Default	Dynamic	
Phone UI	Menu \rightarrow Advanced (default password: 123456) Setting \rightarrow Network \rightarrow IP Config \rightarrow IPv6 Settings \rightarrow IPv6 Mode	
Web UI	Network \rightarrow IP Parameters \rightarrow IPv6 \rightarrow DHCP Mode Note: Only the M8 phone supports the IPv6 configuration in phone web.	
Parameter	DeviceNetworkIpv6Address	config.xml
Description	It configures the IPv6 address. Note: It works only if "DeviceNetworkIpStackMode" is set to IPv6, and "DeviceNetworkIpv6DhcpMode " is set to Static.	
Permitted IPv6 Address		
Default		
Phone UI	Phone UIMenu \rightarrow Advanced (default password: 123456) Setting \rightarrow Network \rightarrow IP ConfigIPv6 Settings \rightarrow IP	
Web UI	Network \rightarrow IP Parameters \rightarrow IPv6 \rightarrow IP Address Note: Only the M8 phone supports the IPv6 configuration in phone web.	
Parameter	DeviceNetworkIpv6PrefixLen config.xml	
Description	It configures the IPv6 prefix. Note: It works only if "DeviceNetworkIpStackMode" is set to IPv6 "DeviceNetworkIpv6DhcpMode " is set to Static.	, and
Permitted Integer from 0 to 128		
Default	64	
Phone UIMenu \rightarrow Advanced (default password: 123456) Setting \rightarrow Network \rightarrow IF IPv6 Settings \rightarrow Prefix6		c → IP Config →
Web UI	Network \rightarrow IP Parameters \rightarrow IPv6 \rightarrow IPv6 Prefix (0~128) Note: Only the M8 phone supports the IPv6 configuration in phone web.	
Parameter	neter DeviceNetworkIpv6Gateway config.xml	
Description	It configures the IPv6 default gateway. Note: It works only if "DeviceNetworkIpStackMode" is set to IPv6 "DeviceNetworkIpv6DhcpMode" is set to Static.	, and
Permitted Values IPv6 Address		
values		

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Phone UI Menu → Advanced (default password: 123456) Setting → Network → IP Co IPv4 Settings → Router		ϕ → IP Config →
Weblit	Network \rightarrow IP Parameters \rightarrow IPv6 \rightarrow Gateway	
WED OI	Note: Only the M8 phone supports the IPv6 configuration in phor	ne web.
Parameter	DeviceNetworkIpv6Dns1	config.xml
Description	It configures the primary IPv6 DNS server. Note: It works only if "DeviceNetworkIpStackMode" is set to IPv6, and "DeviceNetworkIpv6DhcpMode" is set to Static.	
Permitted Values	Permitted Values IPv6 Address	
Default	Default ::	
Phone UI	Menu \rightarrow Advanced (default password: 123456) Setting \rightarrow Network \rightarrow IP Config \rightarrow IPv6 Settings \rightarrow DNS1	
Web LIT	Network \rightarrow IP Parameters \rightarrow IPv6 \rightarrow DNS1	
	Note: Only the M8 phone supports the IPv6 configuration in phor	ne web.
Parameter	Parameter DeviceNetworkIpv6Dns2 config.xml	
Description	escription It configures the secondary IPv6 DNS server. Note: It works only if "DeviceNetworkIpStackMode" is set to IPv6, and "DeviceNetworkIpv6DhcpMode" is set to Static.	
Permitted Values	Permitted Values	
Default	Blank	
Phone UIMenu \rightarrow Advanced (default password: 123456) Setting \rightarrow Network \rightarrow IPIPv6 Settings \rightarrow DNS2		↔ IP Config →
Weblu	Network \rightarrow IP Parameters \rightarrow IPv6 \rightarrow DNS2	
	Note: Only the M8 phone supports the IPv6 configuration in pho	ne web.

Note: If you change this parameter, the IP phone will reboot for the change to take effect.

Starting from version 2.14.15, we have separated wired and wireless parameters to meet more scenarios. The following is a list of wired and wireless parameters.

Wired	Wifi
DeviceNetworkDns1	DeviceWifiDns1
DeviceNetworkDns2	DeviceWifiDns2
DeviceNetworkDns3	DeviceWifiDns3

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DeviceNetworkIpv6Dns1	DeviceWifiIpv6Dns1
DeviceNetworkIpv6Dns2	DeviceWifiIpv6Dns2
DeviceNetworkIpv6Dns3	DeviceWifiIpv6Dns3
DeviceNetworkIpStackMode	DeviceWifiIpStackMode
DeviceNetworkDhcpMode	DeviceWifiDhcpMode
DeviceNetworkIpAddress	DeviceWifiIpAddress
DeviceNetworkIpv6Address	DeviceWifiIpv6Address
DeviceNetworkSubnetMask	DeviceWifiSubnetMask
DeviceNetworkGateway	DeviceWifiGateway
DeviceNetworkIpv6DhcpMode	DeviceWifiIpv6DhcpMode
DeviceNetworkIpv6PrefixLen	DeviceWifiIpv6PrefixLen
DeviceNetworkIpv6Gateway	DeviceWifiIpv6Gateway
DeviceNetworkStaticDnsEnable	DeviceWifiStaticDnsEnable

Alcatel • Lucen Enterprise	t 🕖	Web Based Management	M8		efault password
	Œ	IP Parameters			
窗 Account	~	Internet Port			
Network	^	IP Stack Mode:	IPv6	~ 0	
IP Parameter					
Web Server		IPv6			
Port		DHCP Mode:	Dynamic	× 0	
LLDP		IP Address:		0	
OpenVPN		IPv6 Prefix(0~128):	64	0	
Wi-Fi		Gateway:		0	
Frovision	~	Static DNS:	0		
Phone Keys	~	advanced			

2.2 DHCP Options for IPv4

The IP phone can obtain IPv4-related parameters in an IPv4 network via DHCP option.

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Note: For more information about DHCP options, refer to RFC 2131 or RFC 2132.

2.2.1 Supported DHCP Options for IPv4

The following table lists common DHCP options for IPv4 supported by the ALE Myriad Series phones.

Parameters	DHCP Option
Provision URL	Option 66
Provision URL	Option 67
Provision URL	Option 43 \rightarrow Option 66
Provision URL	Option 43 \rightarrow Option 67
DNS server	Option 6
Hostname	Option 12
Domain name	Option 15
SNTP Server	Option 42
802.1Q VLAN ID.	Option 132
802.1p LAYER 2 Priority	Option 133
Timezone	Option 100

2.2.2 DHCP Option 66/Option 67/Option 43 with Sub-Option 66/67

The usage scenarios for DHCP options 66 and 67 are listed below for reference:

Option 66	Option 67	Option 43		Pocult
		Option 66	Option 67	Kesult
<u>http(s)://172.24.</u> <u>190.159</u>				http(s)://172.24.190.15 9/
<u>http(s)://172.24.</u> <u>190.159</u>	/provisioning			http(s)://172.24.190.15 9/provisioning
http(s)://172.24. 190.159	<u>http(s)://172.24.</u> <u>190.160</u>			http(s)://172.24.190.15 9/
<u>172.24.190.159</u>	172.24.190.160	no data		https://172.24.190.159/
<u>172.24.190.159</u>	http(s)://172.24. 190.160			<u>http(s)://172.24.190.16</u> <u>0</u>
	/provisioning Or 172.24.190.160			https://provisioning Or https://172.24.190.160

	http://172.24.19 0.160			http://172.24.190.160
		http://172.24.190 .161		http://172.24.190.161
		http://172.24.190 .161	/provisioning	http://172.24.190.161/ provisioning
any data		http://172.24.190 .161	http://172.24.19 0.162	http://172.24.190.161
		<u>172.24.190.161</u>	172.24.190.162	https://172.24.190.161
		<u>172.24.190.161</u>	http://172.24.19 0.162	http://172.24.190.162
			/provisioning	https://provisioning
			http://172.24.19 0.162	http://172.24.190.162

Note: If the user configures a relative path with only IP address or domain name for DHCP option 66/67, the default https protocol will be added to the provisioning URL.

2.2.3 DHCP Option 42

The ALE Myriad Series phones support using the NTP server address provided by DHCP.

DHCP option 42 is used to specify a list of NTP servers available to the client by IP address.

The following table lists the parameters you can use to configure DHCP option 42 for NTP server address.

Parameter	SettingSntpServer	config.xml
Description	It configures the primary NTP server.	
Permitted Values	IPv4 Address	
Default	0.pool.ntp.org	
Web UI	Setting \rightarrow Time & Date \rightarrow SNTP Address	
Parameter	SettingSntpServer2	config.xml
Description	It configures the secondary NTP server.	
Permitted Values	IPv4 Address	
Default	time.nist.gov	
Web UI	Setting \rightarrow Time & Date \rightarrow SNTP Secondary Address	



2.2.4 DHCP Option 12

You can specify a hostname for the phone when using DHCP. The DHCP client uses option 12 to send a predefined hostname to the DHCP registration server. The name may or may not be qualified with the local domain name (based on RFC 2132). See RFC 1035 for character phone restrictions.

2.2.5 DHCP Option 132

The ALE Myriad Series phones support configuring DHCP option 132 to define 802.1Q VLAN ID.

2.2.6 DHCP Option 133

The ALE Myriad Series phones support configuring DHCP option 133 to define 802.1p LAYER 2 priority for SIP/RTP.

2.2.7 DHCP Option 100

The IP phones support configuring DHCP option 100 to define time zone.

The format of the POSIX specifier is <name><offset><dst name><dst offset><dstrule>

- <name> is the name of the timezone when not in daylight savings (e.g., GMT, PST, NZST)
- <offset> is the offset added to the local time to get UTC, specified as [+|-]hh[:mm[:ss]] (eg 0, 8, -12)
- <dst name> is the name of the timezone when in daylight savings (eg BST, PDT, NZDT)
- <dst offset> is the offset added to the local time to get UTC during daylight savings, similarly specified as [+|-]hh[:mm[:ss]]

Examples:

- London: GMT0BST1,M3.5.0/1:00:00,M10.5.0/2:00:00
- Los Angeles: PST8PDT,M3.2.0/2:00:00,M11.1.0/2:00:00
- New Zealand: NZST-12NZDT,M9.5.0/2:00:00,M4.1.0/3:00:00

2.2.8 VCI Definition

You can define the VCI by the parameter below in the configuration file:

Parameter	DeviceNetworkVciValue	config.xml
Description	It configures the phone VCI information.	
Permitted Value	ТЕХТ	
Default	aledevice	

2.3 DHCP Options for IPv6

The IP phone can obtain IPv6-related parameters in an IPv6 network via DHCP option.

Parameters	DHCP Option	Description
Provision URL	Option 59	One provisioning URL address or FQDN
Provision URL	Option 17	Full path provisioning URL



DNS server	Option 23	
Hostname	Option 39	
Domain name	Option 24	
SNTP server	Option 31	

2.3.1 DHCP Option 17 and Option 59

During the startup, the phone will automatically detect Option 17 or Option 59 for obtaining the provisioning server address. The priority of obtaining the provisioning server address is as follows: option $17 \rightarrow$ option 59.

2.4 VLAN

The purpose of VLAN configurations on the IP phone is to insert a tag with VLAN information to the packets generated by the IP phone. When VLAN is properly configured for the ports (Internet port and PC port) on the IP phone, the IP phone will tag all packets from these ports with the VLAN ID. The switch receives and forwards the tagged packets to the corresponding VLAN according to the VLAN ID in the tag as described in IEEE Std 802.3.

VLAN on IP phones allows simultaneous access to a regular PC. This feature allows a PC to be daisy chained to an IP phone and the connection for both PC and IP phone to be trunked through the same physical Ethernet cable.

In addition to manual configuration, the IP phone also supports automatic discovery of VLAN via LLDP or DHCP. The assignment takes effect in this order: assignment via LLDP, assignment via DHCP, and then manual configuration.

2.4.1 LLDP Configuration

LLDP (Linker Layer Discovery Protocol) is a vendor-neutral link layer protocol, which allows IP phones to receive and/or transmit device-related information from/to directly connected devices on the network that are also using the protocol and store the information about other devices.

When LLDP feature is enabled on IP phones, the IP phones periodically advertise their own information to the directly connected LLDP-enabled switch. The IP phones can also receive LLDP packets from the connected switch. When the application type is "voice", the IP phones decide whether to update the VLAN configurations obtained from the LLDP packets. When the VLAN configurations on the IP phones are different from the ones sent by the switch, the IP phones perform an update and reboot. This allows the IP phones to plug into any switch, obtain their VLAN IDs, and then start communications with the call control.

Parameter	DeviceNetworkLldpVlanEnable	config.xml
Description	It enables or disables the LLDP (Linker Layer Discovery Protocol) f phone.	eature on the IP

The following table lists the parameters you can use to configure LLDP.



Permitted Values	true - enable false - disable
Default	true
Web UI	Network \rightarrow LLDP \rightarrow VLAN Acquirement
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network \rightarrow LLDP \rightarrow VLAN Acquirement

2.4.2 Manual VLAN Configuration

VLAN is disabled on IP phones by default. You can configure VLAN for the Internet port and PC port manually. Before configuring VLAN on the IP phone, you need to obtain the VLAN ID from your network administrator.

The following table lists the parameters you can use to configure VLAN manually.

Parameter	DeviceNetworkLanVlanEnable	config.xml
Description	It enables or disables the VLAN for the Internet port.	
Permitted	true - enable	
Values	false - disable	
Default	false	
Web UI	Network \rightarrow IP Parameters \rightarrow LAN VLAN	
Phone UI	Menu → Advanced Setting (default password: 123456) → Networ Vlan → Vlan Config → Use VLAN	k → IP Config →
Parameter	DeviceNetworkLanVlanNumber	config.xml
Description	It configures the VLAN ID for the Internet port. Note: It works only if "DeviceNetworkLanVlanEnable" is set to tru	e.
Permitted Values	Integer from 0 to 4095	
Default	4095	
Web UI	Network \rightarrow IP Parameters \rightarrow LAN VLAN Number	
Phone UI	Menu → Advanced Setting (default password: 123456) → Network Vlan → Vlan Config → ID	< → IP Config →
Parameter	DeviceNetworkPcVlanEnable	config.xml
Description	It enables or disables the VLAN for the PC port.	
Permitted	true - enable	
Values	false - disable	
Default	false	

Web UI	Network \rightarrow IP Parameters \rightarrow PC VLAN		
Phone UI	Menu → Advanced Setting (default password: 123456) → Network → IP Config → Vlan → Data Vlan Config → Use VLAN		
Parameter	DeviceNetworkPcVlanNumber config.xml		
Description	It configures the VLAN ID for the PC port. Note: It works only if "DeviceNetworkPcVlanEnable" is set to true.		
Permitted Values	Integer from 0 to 4094		
Default	0		
Web UI	Network \rightarrow IP Parameters \rightarrow PC VLAN Number		
Phone UI	Menu → Advanced Setting (default password: 123456) → Network → IP Config → Vlan → Data Vlan Config → ID		

2.4.3 DHCP VLAN

The ALE Myriad Series phones support VLAN discovery via DHCP. The predefined Option $43 \rightarrow$ Option 58 is used to supply the VLAN ID by default. And Option 58 has higher priority than Option 132.

2.4.4 CDP Configuration

Cisco Discovery Protocol (CDP) is a private binary-layer networking protocol developed by Cisco. It is automatically loaded by most Cisco devices upon startup. By using CDP, Cisco devices can share information such as operating system software version, device identifiers, address tables, port identifiers, and performance metrics among themselves and their direct connected devices.

Like HP's LLDP and Huawei/H3C's NDP protocols, CDP uses a set of rules and filters to discover and enumerate all network devices on the local network. The main difference between CDP and these other protocols is that CDP provides a more private and secure way to discover and enumerate network devices on a local network.

In addition to the direct sharing of device information, CDP also supports the discovery of other network devices. When a device is connected to a network, it notifies the local device of the presence of other network devices and allows the local device to discover these devices. This allows for a more seamless and secure network operation.

Overall, CDP is a powerful networking protocol that allows Cisco devices to work together more seamlessly and securely on the local network.

Parameter	DeviceNetworkCdpEnable	config.xml		
Description	t enables or disables the CDP (Cisco Discovery Protocol) feature on the IP phone.			
Permitted	true - enable			
Values	false - disable			

The following table lists the parameters you can use to configure CDP.



Default	true	
Web UI	Network \rightarrow LLDP \rightarrow CDP \rightarrow Enable	
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network	$k \rightarrow CDP \rightarrow enable$
Parameter	DeviceNetworkCdpPacketInterval	config.xml
Description	It configures the interval for sending CDP packets	
Permitted Values	1-3600 seconds	
Default	60	
Web UI	Network \rightarrow LLDP \rightarrow CDP \rightarrow Packet Interval	
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network Interval	$x \rightarrow CDP \rightarrow Packet$

The WBM interface:

WBM Based	Management M5		
	LLDP		
	LLDP		
	VLAN Acquirement:	•	
	Power Management:	0	
	Inventory Publication:	0	
	CDP		
	Enable:	0	
	Packet Interval:	60	0
			Submit

The MMI interface:

CDP						
CDP	Enabled 🔹					
Packet Interval	60					
Back	Switch	Save				

2.5 Wi-Fi

Wi-Fi feature enables you to connect the phones to the organization's wireless network. The wireless network is more convenient and cost-effective than the wired network. Wi-Fi features are applicable to the ALE Myriad Series phones.

When the Wi-Fi feature is enabled, the IP phone will automatically scan the available wireless networks. All the available wireless networks will display in scanning list on the phone screen.

You can store up to 5 frequently used wireless networks on your phone.

You can configure for the ALE Myriad Series phones: Basic Setting \rightarrow Wi-Fi \rightarrow Wi-Fi Manager (phone user interface).

Note: To use Wi-Fi feature on the ALE Myriad Series phones M3/M5/M7/H6, make sure the Wi-Fi USB dongle is properly connected to the USB port on the phone. The Wi-Fi USB dongle should be purchased separately.

For M8, Wi-Fi is built in. Wi-Fi USB dongle which is connected to the phone USB port is not supported for M8.

The M3/M5/M7/M8 phones support storing up to 5 frequently used wireless networks on your phone and specifying the priority for them. You can configure the priority of AP by pressing the "Move up" or "Move down" button as indicated in the following screenshots.

Wi-Fi Manager			Option			Wi-Fi Manager					
alpha			Edit			lungma10					
lungma10		Move up		alpha							
				Move dov	wn						
				Delete							
Back	Add	Connect	Option	Back			Ok	Back	Add	Connect	Option

The phones also provide the Wi-Fi status showing the information of currently connected Wi-Fi.

Wi-Fi				Wi-Fi Status			
Wi-Fi		Enabled	< >	Wi-Fi Status Conn		Connecte	d
Wi-Fi Status: lungma10 Connected			ted	SSID lungma		lungma10	D
Wi-Fi Manager				Security		WPA[2] P	sк
🛜 lungma10		Channel		1 (2412 K	Hz(T3))		
Back		Scan	Enter	Back			



The following table lists the parameters you can use to configure Wi-Fi.

Parameter	DeviceWifiFunctionEnable	config.xml			
Description	It enables or disables the Wi-Fi feature.				
Permitted	false - disabled				
Values	true – enable				
Default	true				
Parameter	DeviceWifiEnable	config.xml			
Description	It activates or deactivates the Wi-Fi mode.				
Permitted	false - disabled				
Values	true - enable				
Default	true				
	Note : For the M8 phone, the default value is false.				
Phone UI	Basic Setting → Wi-Fi → Enable WiFi				
Web UI	Network → Wi-Fi				
Parameter	DeviceNetworkRedundancyMode	config.xml			
Description	It configures preferentially network type.				
Dormittod	0 - Wi-Fi only				
Values	1 - Wi-Fi preferentially				
	2 - Wired preferentially				
Default	1				
	Note : For the M8 phone, the default value is 2.	[
Parameter	DeviceWifi[1-5]Ssid	config.xml			
Description	It configures the AP SSIDs.				
Permitted Values	Strings				
Default	Blank				
Phone UI	Basic Setting → Wi-Fi → Wi-Fi Manager				
Web UI	Network → Wi-Fi				
Parameter	DeviceWifi[1-5]AuthMode	config.xml			
Description	It configures the authentication method of AP.				
Downstate	0 - NONE				
Permitted Values	1 - WPA/WPA2 PSK				
	2 - WEP				

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Default	0			
Phone UI	Basic Setting → Wi-Fi → Wi-Fi Manager			
Web UI	Network → Wi-Fi			
Parameter	DeviceWifi[1-5]Password	config.xml		
Description	If "WPA/WPA2 PSK" is chosen, this will be used. The length should If "WEP" is chosen, this will be used. This should be 5 ASCII for WI for WEP128.	d be >=8 and <=63. EP64 and 13 ASCII		
Permitted Values	password			
Default	empty			
Phone UI	Basic Setting → Wi-Fi → Wi-Fi Manager			
Web UI	Network → Wi-Fi			
Parameter	DeviceWifi[1-5]Priority	config.xml		
Description	It configures the priority for the wireless network for the IP phone 5 is the highest priority, and 1 is the lowest priority.	e.		
Permitted Values	1 - 1 2 - 2 3 - 3 4 - 4 5 - 5			
Default	1			
Phone UI	Basic Setting → Wi-Fi → Wi-Fi Manager			
Web UI	Network → Wi-Fi			

The M8 phone supports configuring the Wi-Fi feature on phone WBM (Network \rightarrow Wi-Fi).

	Image preview	- 🗆 ×
Wi-Fi		
Wi-Fi		
Wi-Fi Enable		
SSID	Security Mode	Operation
	No Data	



Wi-Fi						
Wi-Fi	_					
Wi-Fi Enable 💿 💿		Add Ne	ew Wi-Fi		×	
SSID	SSID	ALE		0		Operation
	Security Mode	WP4/WP42 PSK		٩		
Change Priority Delete	coounty mode			U		
	Password			0		
		ОК	Cancel			
		Image preview				- 🗆 ×

W	i-Fi								
	Wi-Fi								
	Wi-Fi Ena	able	0						
		SSID	Security Mode	Operation					
		ALE	WPA/WPA2 PSK	Edit Delete					
	Change Priority Delete Add								

2.5.1 IPv4 Configuration

The following table lists the parameters you can use to configure wifi network for IPv4.

Parameter	DeviceWifiDhcpMode	config.xml
Description	It configures the Internet port type for wifi IPv4. Note: It works only if "DeviceWifiIpStackMode" is set to IPv4.	
Permitted Values	Static Dynamic DynamicAlcatel	
Default	Dynamic	
Web UI	Network \rightarrow Wi-Fi \rightarrow DHCP Mode	
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network Stack \rightarrow IPv4 Mode	< → Wi-Fi Port → IP
Parameter	DeviceWifiIpAddress	config.xml
Description	It configures the wifi IPv4 address. Note: It works only if "DeviceWifiIpStackMode" is set to IPv4, and DeviceWifiDhcpMode" is set to Static.	"
Permitted Values	IPv4 wifi Address	
Default	0.0.0.0	



Web UI	Network \rightarrow Wi-Fi \rightarrow IP Address				
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network \rightarrow Wi-Fi Port \rightarrow IP Config \rightarrow IPv4 Settings \rightarrow IP				
Parameter	DeviceWifiSubnetMask config.xml				
Description	It configures the IPv4 subnet mask. Note: It works only if "DeviceWifiIpStackMode" is set to IPv4, and DeviceWifiDhcpMode" is set to Static.	Π			
Permitted Values	Subnet Mask				
Default	255.255.255				
Web UI	Network \rightarrow Wi-Fi \rightarrow Subnet Mask				
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network Config \rightarrow IPv4 Settings \rightarrow S/net	 ↔ Wi-Fi Port → IP 			
Parameter	DeviceWifiGateway	config.xml			
Description	It configures the IPv4 default gateway. Note: It works only if "DeviceWifiIpStackMode" is set to IPv4, and DeviceWifiDhcpMode" is set to Static.	II			
Permitted Values	IPv4 Address				
Default	0.0.0.0				
Web UI	Network \rightarrow Wi-Fi \rightarrow Gateway				
Phone UI	Menu \rightarrow Advanced (default password: 123456) Setting \rightarrow Network Config \rightarrow IPv4 Settings \rightarrow Gateway	c → Wi-Fi Port → IP			
Parameter	DeviceWifiDns1	config.xml			
Description	It configures the primary IPv4 DNS server. Note: It works only if "DeviceWifiIpStackMode" is set to IPv4, and DeviceWifiDhcpMode" is set to Static.	"			
Permitted Values	IPv4 Address				
Default	Blank				
Web UI	Network \rightarrow Wi-Fi \rightarrow DNS1				
Phone UI	Menu \rightarrow Advanced (default password: 123456) Setting \rightarrow Network Config \rightarrow IPv4 Settings \rightarrow DNS1	a → Wi-Fi Port → IP			
Parameter	DeviceWifiDns2	config.xml			

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Description	It configures the secondary IPv4 DNS server. Note: It works only if "DeviceWifiIpStackMode" is set to IPv4, and " DeviceWifiDhcpMode" is set to Static.s2
Permitted Values	IPv4 Address
Default	Blank
Web UI	Network \rightarrow Wi-Fi \rightarrow DNS2
Phone UI	Menu → Advanced (default password: 123456) Setting → Network → Wi-Fi Port → IP Config → IPv4 Settings → DNS2

Note: If you change this parameter, the IP phone will reboot for the change to take effect.

2.5.2 IPv6 Configuration

The following table lists the parameters you can use to configure wifi network for IPv6.

Parameter	DeviceWifiIpv6DhcpMode	config.xml		
Description	It configures the Internet port type for IPv6. Note: It works only if "DeviceWifiIpStackMode" is set to IPv6.			
Permitted Values	Static Dynamic			
Default	Dynamic			
Phone UI	Menu \rightarrow Advanced (default password: 123456) Setting \rightarrow Network Config \rightarrow IPv6 Settings \rightarrow IPv6 Mode	< → Wi-Fi Port → IP		
Web UI	Network \rightarrow Wi-Fi \rightarrow IPv6 \rightarrow DHCP Mode			
Parameter	DeviceWifiIpv6Address config.xml			
Description	It configures the IPv6 address. Note: It works only if "DeviceWifiIpStackMode" is set to IPv6, and DeviceWifiIpv6DhcpMode " is set to Static.	"		
Permitted Values	IPv6 Address			
Default				
Phone UI	Menu \rightarrow Advanced (default password: 123456) Setting \rightarrow Network Config \rightarrow IPv6 Settings \rightarrow IP	< → Wi-Fi Port → IP		
Web UI	Network \rightarrow Wi-Fi \rightarrow IPv6 \rightarrow IP Address			
Parameter	DeviceWifiIpv6PrefixLen	config.xml		



Description	It configures the IPv6 prefix. Note: It works only if "DeviceWifiIpStackMode" is set to IPv6, and DeviceWifiIpv6DhcpMode " is set to Static.	"
Permitted Values	Integer from 0 to 128	
Default	64	
Phone UI	Menu \rightarrow Advanced (default password: 123456) Setting \rightarrow Network Config \rightarrow IPv6 Settings \rightarrow Prefix6	a → Wi-Fi Port → IP
Web UI	Network \rightarrow Wi-Fi \rightarrow IPv6 \rightarrow IPv6 Prefix (0~128)	
Parameter	DeviceWifiIpv6Gateway	config.xml
Description	It configures the IPv6 default gateway. Note: It works only if "DeviceWifiIpStackMode" is set to IPv6, and DeviceWifiIpv6DhcpMode " is set to Static	Π
Permitted Values	IPv6 Address	
Default	::	
Phone UI	Menu \rightarrow Advanced (default password: 123456) Setting \rightarrow Network Config \rightarrow IPv4 Settings \rightarrow Router	c → Wi-Fi Port → IP
Web UI	Network \rightarrow Wi-Fi \rightarrow IPv6 \rightarrow Gateway	
Parameter	DeviceWifiDns1	config.xml
Description	It configures the primary IPv6 DNS server. Note: It works only if "DeviceWifiIpStackMode" is set to IPv6, and DeviceWifiIpv6DhcpMode " is set to Static	Π
Permitted Values	IPv6 Address	
Default		
Phone UI	Menu \rightarrow Advanced (default password: 123456) Setting \rightarrow Network Config \rightarrow IPv6 Settings \rightarrow DNS1	x → Wi-Fi Port → IP
Web UI	Network \rightarrow Wi-Fi \rightarrow IPv6 \rightarrow DNS1	
Parameter	DeviceWifiDns2	config.xml
Description	It configures the secondary IPv6 DNS server. Note: It works only if "DeviceWifiIpStackMode" is set to IPv6, and DeviceWifiIpv6DhcpMode " is set to Static	"
Permitted Values	IPv6 Address	

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Default	Blank
Phone UI	Menu \rightarrow Advanced (default password: 123456) Setting \rightarrow Network \rightarrow Wi-Fi Port \rightarrow IP Config \rightarrow IPv6 Settings \rightarrow DNS2
Web UI	Network \rightarrow Wi-Fi \rightarrow IPv6 \rightarrow DNS2

2.6 Network Address Translation (NAT)

Network Address Translation (NAT) is a function that allows multiple devices to share the same public routable IP address to establish connections over the Internet. NAT is present in many broadband access devices to translate public and private IP addresses.

The ALE Myriad Series phones can work with Rport type of NAT.

2.6.1 Rport Configuration

The ALE Myriad Series phones support Rport described in RFC 3581. It allows a client to request that the server sends the response back to the source port from which the request came.

Rport feature needs support from SIP server.

Parameter	AccountXRportEnable	config.xml	
	It enables or disables the NAT Rport feature.		
Description	Note: X means account ID and it can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.		
Permitted	false - disable		
Values	true - enable		
Default	false		
Web UI	Account \rightarrow Advanced \rightarrow Rport		

The following table lists the parameter you can use to configure Rport.

2.7 Internet Port and PC Port

The ALE Myriad Series phones support two Ethernet ports: Internet port and PC port. You can enable or disable the PC port on the IP phones.

2.7.1 Supported Transmission Methods

Three methods of configuration transmission for IP phone Internet port and PC port:

- Auto-negotiate
- Half-duplex
- Full-duplex

Auto-negotiate is configured for both Internet port and PC port on the IP phone by default.



2.7.2 Internet Port and PC Port Configuration

Parameter	DeviceNetworkLanAutoEnable	config.xml	
Description	It configures the transmission method for Internet port.		
Permitted	false - disable		
Values	true - enable		
Default	true		
Web UI	Network \rightarrow Port \rightarrow LAN Auto		
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network \rightarrow Auto	ork → Ethernet → LAN	
Parameter	DeviceNetworkLanSpeed	config.xml	
Description	It configures the transmission method for Internet port. Note: It works only if "DeviceNetworkLanAutoEnable" is set to f	ālse.	
Permitted	10		
Values	100		
Default	1000		
Web UI	Network \rightarrow Port \rightarrow LAN Speed		
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network \rightarrow Ethernet \rightarrow LAN \rightarrow LAN speed		
Parameter	DeviceNetworkLanDuplexType	config.xml	
Description	It configures the transmission method for Internet port.		
	Note: It works only if "DeviceNetworkLanAutoEnable" is set to f	alse.	
Permitted	Half		
Values	Full		
Default	Full		
Web UI	Network \rightarrow Port \rightarrow Lan Duplex		
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network \rightarrow Ethernet \rightarrow LAN \rightarrow LAN duplex		
Parameter	DeviceNetworkPcAutoEnable	config.xml	
Description	It configures the transmission method for PC port.		
Permitted	false - disable		
Values	true - enable		
Default	true		

The following table lists the parameters you can use to configure Internet port and PC port.

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Web UI	Network \rightarrow Port \rightarrow PC Auto				
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network \rightarrow Ethernet \rightarrow PC \rightarrow Auto				
Parameter	DeviceNetworkPcSpeed config.xml				
Description	It configures the transmission method for PC port. Note: It works only if "DeviceNetworkPcAutoEnable" is set to false.				
Permitted Values	10 100				
Default	-				
Web UI	Network \rightarrow Port \rightarrow PC Speed				
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network \rightarrow Ethernet \rightarrow PC \rightarrow PC speed				
Parameter	DeviceNetworkPcDuplexType	config.xml			
Description	It configures the transmission method for PC port. Note: It works only if "DeviceNetworkPcAutoEnable" is set to fa	lse.			
Permitted	Half				
Values	Full				
Default	Full				
Web UI	Network \rightarrow Port \rightarrow PC Duplex				
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Netwo \rightarrow PC duplex	ork → Ethernet → PC			

2.8 OpenVPN

The ALE Myriad Series phones use OpenVPN to achieve VPN features. After you configure VPN feature on the IP phone, the IP phone will act as a VPN client and use the certificates or username to authenticate with the VPN server.

2.8.1 OpenVPN Related Files

The OpenVPN-related files include certificates (ca.crt and client.crt), key (client.key), userinfo (user.txt) and the configuration file (vpn.cnf) of the OpenVPN client.

The following table lists the unified directories of the OpenVPN certificates and key in the configuration file (vpn.cnf) for the ALE Myriad Series phones:

OpenVPN Files	Description	Unified Directories
ca.crt	CA certificate	/config/cert/openvpn/openvpn-ca.crt
client.crt	Client certificate	/config/cert/openvpn/openvpn-client.crt

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client.key	Private key of the client	/config/cert/openvpn/openvpn-client.key
User.txt	Username and password file	/config/cert/openvpn/openvpn-user.txt

2.8.2 OpenVPN Configuration

You can configure the OpenVPN feature via the Web UI path: Network \rightarrow OpenVPN for the ALE Myriad Series phones.

In addition, you can import vpn certificates and configuration files in batches by using compressed packages.

Alcatel-Lucent 🕖	WBM Based Management M5					
Ξ	OpenVPN					
Status	OpenVPN					
Version	Enable:	0				
Accounts	Server Address:	0.0.0.0	0			
Network	Server Port:	1194	0			
🔂 Account 🛛 🗸	Transport Protocol:	UDP ~	0			
Network ^	User Name:		?			
IP Parameter	Password:	*****	0			
Web Server						
Port			Submit			
LLDP	Upload Customer Certificate					
OpenVPN	CA Certificate:		Select	Upload	Remove	
Net Diagnose	VPN Certificate:		Select	Upload	Remove	
Wi-Fi	VPN Key Certificate:		Select	Upload	Remove	
Provision	VPN Configuation File:		Select	Import	Export	Remove

If the username and password are downloaded as an auto-p file, should use the following format:

(1) unix file format

(2) username on the first line and the password on the second line, for example:



(3) Inside the OPENVPN configuration files need to add a line:

auth-user-pass /config/cert/openvpn/openvpn-user.txt

• Compressed packet mode:

You can refer to the following example, after all the files of the vpn are named according to the convention, the unified compression into a tar file, and then upload the compressed package through the auto-p way, you can import it at one time.



1 🗉 🖂	📕 openvpn5-1.tar
名称	
—	
openvpn-c	a.crt
openvpn-c	ert.crt
📄 openvpn-k	ey.key
openvpn-u	ser.txt
📓 openvpn-v	pn.cnf

2.8.3 OpenVPN Parameters List

The following table lists the parameters you can use to configure openvpn.

Parameter	DeviceNetworkOpenVpnEnable config.xml				
Description	It configures openvpn switch.				
Permitted	false:disable				
Values	true:enable				
Default	false				
Web UI	NetWork \rightarrow OpenVPN \rightarrow Enable				
Parameter	DeviceNetworkOpenVpnServerAddr config.xml				
Description	It configures openvpn server address.				
Permitted Values	String within 256 characters.				
Default	0.0.0.0				
Web UI	NetWork \rightarrow OpenVPN \rightarrow Server Address				
	DeviceNetworkOpenVpnServerPort config.xml				
Parameter	DeviceNetworkOpenVpnServerPort	config.xml			
Parameter Description	DeviceNetworkOpenVpnServerPort It configures openvpn server port.	config.xml			
Parameter Description Permitted Values	DeviceNetworkOpenVpnServerPort It configures openvpn server port. 1-65535	config.xml			
Parameter Description Permitted Values Default	DeviceNetworkOpenVpnServerPort It configures openvpn server port. 1-65535 1194	config.xml			
Parameter Description Permitted Values Default Web UI	DeviceNetworkOpenVpnServerPortIt configures openvpn server port.1-655351194NetWork → OpenVPN → Server Port	config.xml			
Parameter Description Permitted Values Default Web UI Parameter	DeviceNetworkOpenVpnServerPort It configures openvpn server port. 1-65535 1194 NetWork → OpenVPN → Server Port DeviceNetworkOpenVpnTransport	config.xml config.xml			
Parameter Description Permitted Values Default Web UI Parameter Description	DeviceNetworkOpenVpnServerPortIt configures openvpn server port.1-655351194NetWork → OpenVPN → Server PortDeviceNetworkOpenVpnTransportIt configures openvpn transport protocot	config.xml config.xml			
Parameter Description Permitted Values Default Web UI Parameter Description Permitted	DeviceNetworkOpenVpnServerPortIt configures openvpn server port.1-655351194NetWork → OpenVPN → Server PortDeviceNetworkOpenVpnTransportIt configures openvpn transport protocotUDP	config.xml config.xml			
Parameter Description Permitted Values Default Web UI Parameter Description Permitted Values	DeviceNetworkOpenVpnServerPortIt configures openvpn server port.1-655351194NetWork → OpenVPN → Server PortDeviceNetworkOpenVpnTransportIt configures openvpn transport protocotUDPTCP	config.xml config.xml			
Parameter Description Permitted Values Default Web UI Parameter Description Permitted Values Default	DeviceNetworkOpenVpnServerPortIt configures openvpn server port.1-655351194NetWork → OpenVPN → Server PortDeviceNetworkOpenVpnTransportIt configures openvpn transport protocotUDPTCPUDP	config.xml			

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Parameter	DeviceNetworkOpenvpnAuthFileUrl	со	config.xml	
Description	It configures openvpn username and password file.			
Permitted Values	String within 256 characters. Note: Based on the openvpn standard format, the text is in unix format. The first line is the username, and the second line is the password.			
Default	Blank			
Web UI	NetWork \rightarrow OpenVPN \rightarrow Username & Password			
Parameter	DeviceNetworkOpenvpnCaCertUrl	со	onfig.xml	
Description	It configures download url of openvpn ca file.	·		
Permitted Values	String within 256 characters.			
Default	BLANK			
Web UI	NetWork \rightarrow OpenVPN \rightarrow CA Certificate			
Parameter	DeviceNetworkOpenvpnClientCertUrl config.xml			
Description	It configures download url of openvpn client cert file.			
Permitted Values	String within 256 characters.			
Default	BLANK			
Web UI	NetWork \rightarrow OpenVPN \rightarrow VPN Certificate			
Parameter	DeviceNetworkOpenvpnClientKeyUrl config.xml			
Description	It configures download url of openvpn client cert key file.			
Permitted Values	String within 256 characters.			
Default	BLANK			
Web UI	NetWork \rightarrow OpenVPN \rightarrow VPN Key Certificate			
Parameter	DeviceNetworkOpenvpnConfigFileUrl config.xml			
Description	It configures download url of openvpn config file.			
Permitted Values	String within 256 characters.			
Default	BLANK			
Web UI	NetWork \rightarrow OpenVPN \rightarrow VPN Configuation File			
Parameter	DeviceNetworkOpenvpnUrl	config.xml	I	



Description	Add a compressed package to import all OpenVPN certificates and files at one time to complete deployment.
	The compressed package contains CA certificate, VPN certificate, VPN private key, VPN configuration file, and auth file.
	The file name must be strictly matched:
	openvpn-ca.crt
	openvpn-cert.crt
	openvpn-key.key
	openvpn-user.txt
	openvpn-vpn.cnf
Permitted Values	String within 256 characters.
Default	BLANK

2.9 Quality of Service (QoS)

VoIP is extremely bandwidth- and delay-sensitive. QoS is a major issue in VoIP implementations regarding how to guarantee that packet traffic is not delayed or dropped due to interference from other lower priority traffic. VoIP can guarantee high-quality QoS only if the voice and the SIP packets are given priority over other kinds of network traffic. IP phones support the 802.1P/DiffServ model of QoS.

Voice QoS

To make VoIP transmissions intelligible to receivers, voice packets should not be dropped, excessively delayed, or made to suffer from varying delay. DiffServ model can guarantee high-quality voice transmission when the voice packets are configured to a higher DSCP value.

SIP QoS

SIP protocol is used for creating, modifying, and terminating two-party or multi-party sessions. To ensure good voice quality, SIP packets emanated from IP phones should be configured with a high transmission priority.

DSCPs for voice and SIP packets can be specified respectively.

2.9.1 Voice and SIP QoS Configuration

The following table lists the parameters you can use to configure voice QoS and SIP QoS.

Parameter	Setting8021pPriority	config.xml		
Description	It configures audio 802.1p priority.			
Permitted Values	[0-7]			
Default	5			



Web UI	Setting \rightarrow Audio \rightarrow 802.1P Priority					
Parameter	SettingAudiodiffserv config.xml					
Description	It configures audio TOS/Diffserv.					
Permitted Values	[0-63]					
Default	46					
Parameter	Setting8021pUserPriority	config.xml				
Description	It configures 802.1P User Priority for SIP messages.					
Permitted Values	[0-7]					
Default	5					
Parameter	SIPDscp config.xr					
Description	It configures TOS/Diffserv for SIP messages.					
Permitted Values	[0-63]					
Default	40					

2.10 802.1x Authentication

The ALE Myriad Series phones support the following protocols for 802.1X authentication:

- EAP-MD5
- EAP-TLS (requires Device and CA certificates, requires no password)

You can configure the 802.1x feature via Phone UI path:

```
Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network \rightarrow 802.1x
```

802.1x		802.1x Login							
802.1x Lo	gin		MAC@ to	login	Disabled	l <>			
MD5 profile		Login		ALCICT					
TLS Profile	2								
Back		Enter	Back		Switch	Save			
802.1x MD5				TLS Profile					
------------	--------	----------	-----	-------------	-----------	-----	----------	-----	----
Use 802.1	1x MD5	Disabled	1	<>	Use TLS		Enabled		<>
Password:					Server Au	uth	Disabled	ł	<>
					TLS 1.0		Disabled	ł	<>
					TLS 1.2		Enabled		<>
Back		Switch	Sav	e	Back		Switch	Sav	ve

2.11 TR-069 Device Management

TR-069 is a technical specification defined by the Broadband Forum, which defines a mechanism that encompasses secure auto-configuration of a CPE (Customer-Premises Equipment) and incorporates other CPE management functions into a common framework. TR-069 uses common transport mechanisms (HTTP and HTTPS) for communication between CPE and ACS (Auto Configuration Servers). The HTTP (S) messages contain XML-RPC methods defined in the standard for configuration and management of the CPE.

2.11.1 RPC Methods

The following table provides a description of RPC methods supported by IP phones.

RPC Method	Description	
GetRPCMethods	Used for discovering supported methods by CPE.	
PhoneParameterValues	Used for modifying the value of one or more CPE parameters.	
GetParameterValues	Used for obtaining the value of one or more CPE parameters.	
etParameterNames	Used for discovering the parameters accessible on a specific CPE.	
GetParameterAttributes	Used for reading the attributes associated with one or more CPE parameters.	
PhoneParameterAttributes	Used for modifying attributes associated with one or more CPE parameters.	
Reboot	Used for rebooting CPE.	
Download	Used for downloading a file from the server. Supported file types: • Firmware Image • Configuration File	
Upload	Used for uploading a file to the server. Supported file types: Configuration File Log File	
ScheduleInform	Used for requesting the CPE to schedule information.	

FactoryReset	Used for resetting to factory.
TransferComplete	This method informs the ACS of the completion (either successful or unsuccessful) of a file transfer initiated by an earlier Download or Upload method call.
AddObject	Use for adding a new instance of an object defined on the CPE.
DeleteObject	Use for removing a specific instance of an object.

2.11.2 TR069 Configuration

The following table lists the parameters you can use to configure TR069.

Parameter	DeviceTr069Enable	config.xml
Description	It enables or disables the TR069 feature.	
Permitted	false - disable	
Values	true - enable	
Default	true	
Web UI	Provision \rightarrow TR069 \rightarrow Enable TR069	
Parameter	DeviceTr069ThirdPartyAcsUrl	config.xml
Description	It configures third party ACS server URL.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Provision \rightarrow TR069 \rightarrow ACS URL	
Parameter	DeviceTr069AcsUsername	config.xml
Description	It configures ACS account username.	
Permitted Values	String within 128 characters	
Default	easycwmp	
Web UI	Provision \rightarrow TR069 \rightarrow ACS Username	
Parameter	DeviceTr069AcsPwd	config.xml
Description	It configures ACS account password.	
Permitted Values	String within 64 characters	
Default	Blank	
Web UI	Provision \rightarrow TR069 \rightarrow ACS Password	



Parameter	DeviceTr069AcsPeriodicEnable	config.xml
Description	It enables ACS Periodic informing.	
Permitted	true - enable	
Values	false - disable	
Default	false	
Web UI	Provision \rightarrow TR069 \rightarrow ACS Periodic Enable	
Parameter	DeviceTr069AcsPeriodicInterval	config.xml
Description	It configures ACS Periodic Interval inform timer.	
Permitted Values	Integer	
Default	1000	
Web UI	Provision \rightarrow TR069 \rightarrow ACS Periodic Interval	
Parameter	DeviceTr069AcsConnectionUsername	config.xml
Description	It configures client account username.	
Permitted Values	String within 128 characters	
Default	easycwmp	
Web UI	Provision \rightarrow TR069 \rightarrow ACS Connection Username	
Parameter	DeviceTr069AcsConnectionPwd	config.xml
Description	It configures client account password.	
Permitted Values	String within 64 characters	
Default	Blank	
Web UI	Provision \rightarrow TR069 \rightarrow ACS Connection Password	
Parameter	DeviceTr069StunEnable	config.xml
Description	It enables https STUN function.	
Permitted	true - enable	
Values	false - disable	
Default	true	
Web UI	Provision \rightarrow STUN \rightarrow STUN Enable	
Parameter	DeviceTr069StunServerAddress	config.xml
Description	It configures STUN server address.	



Permitted Values	IP address or domain name	
Default	stun.l.google.com	
Web UI	Provision \rightarrow STUN \rightarrow STUN Server Address	
Parameter	DeviceTr069StunServerPort	config.xml
Description	It configures STUN server port.	
Permitted Values	Integer from 1024 to 65535	
Default	19302	
Web UI	Provision \rightarrow STUN \rightarrow STUN Server Port	



3. Phone Provisioning

This chapter provides basic instructions for setting up your IP phones with a provisioning server.

The M3/M5/M7/M8/H3P/H3G/H6 phones support the download of configuration files and binary files using TFTP, HTTP and HTTPS protocols.

3.1 Web User Interface

You can configure IP phones via web user interface, a web-based interface that is especially useful for remote configuration.

Because features and configurations vary by phone models and firmware versions, options available on each page of the web user interface can vary as well. Note that the features configured via web user interface are limited. Therefore, you can use the web user interface in conjunction with a central provisioning method and phone user interface.

When configuring IP phones via web user interface, you are required to enter a username and password for access.

The default username/password is admin/123456.

3.1.1 Accessing the Web User Interface

Procedures:

- Step 1: Find the ALE Myriad Series phone's IP address. Press the OK key when the phone is idle.
- Step 2: Enter the IP address in the address bar of a web browser on your PC. For example, for IPv4: https://192.168.0.10; for IPv6: https://[2005:1:1:1:215:65ff:fe64:6e0a]
- Step 3: Enter the username and password.
- Step 4: Click Login.

3.1.2 Navigating the Web User Interface

When you log into the web user interface successfully, the phone status is displayed on the first page of the web user interface. You can click the navigation bar to customize or click Log Out to log out of the web user interface.

The following shows an example of navigating to Setting \rightarrow General:

Alcatel-Lucen		Web Based Management M5	X	Using default password.
	=	General		
密 Account	~	General		
(SIP Features	~	Key As Send :		~ 0
Network	81	Auto Dial Out Timer,	5	۲
Provision	×.	Stutter Tone Enable	•	
해 Phone Keys	- 1940 1	Dialing Tone Enabled:	ا ا	
Setting	- Av	Call Number Filter:	-0	۲
General		Call Waiting Tone Enable:	ە	
Time&Date		Web Session Expire Time(s):	600	0
Call Display		Ring Back Timeout	60.	0

3.1.3 Web Server Type Configuration

The ALE Myriad Series phones support both HTTP and HTTPS protocols when accessing the web user interface. You can configure the web server type. Web server type determines the protocol used for accessing the web user interface. If you disable access to the web user interface using the HTTP/HTTPS protocol, both you and the user cannot access the web user interface.

The following table lists the parameters you can use to configure web server type.

Parameter	DeviceNetworkHttpEnable	config.xml	
Description	It enables or disables the http protocol to access the web interface.		
Permitted	false - disable		
Values	true - enable		
Default	true		
Web UI	Network \rightarrow Web Server		
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network \rightarrow Web Server		
Parameter	DeviceNetworkHttpPort	config.xml	
Description	It configures the http port to access the web interface.		
Permitted	1~65535		
Values			
Default	80		
Web UI	Network \rightarrow Web Server		
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network	$x \rightarrow$ Web Server	

Parameter	DeviceNetworkHttpsEnable	config.xml
Description	It enables or disables the https protocol to access the web interfa	ce.
Permitted	false - disable	
Values	true - enable	
Default	true	
Web UI	Network \rightarrow Web Server	
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network	\leftrightarrow Web Server
Parameter	DeviceNetworkHttpsPort	config.xml
Description	It configures the http port to access the web interface.	
Permitted Values	1~65535	
Default	443	
Web UI	Network \rightarrow Web Server	
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Network	\leftrightarrow Web Server
Parameter	DeviceNetworkHttpsDefaultEnable	config.xml
Description	It enables or disables access to the web user interface of the IP ph HTTPS protocol by default.	none using the
Permitted	false - disable	
Values	true - enable	
Default	true	

3.2 Phone User Interface

Phone user interface makes configurations available to users and administrators; but the Advanced/Advanced Settings option is only available to administrators and requires an administrator password (default: 123456).

3.3 Configuration Files

The ALE Myriad Series phones support three configuration template files: Common config file, MAC-Oriented config file and Device config file.

3.3.1 Common Config File

A common CFG file, named config.xml, contains parameters that affect the basic features of the IP phone, such as setting language and volume. It will be effective for all IP phones. The common Config file has a fixed name for each phone model.



3.3.2 MAC-Oriented Config File

MAC-Oriented CFG file is named after the MAC address of the IP phone. For example, if the MAC address of an IP phone is 3C28A6200088, the name of MAC-Oriented CFG file is config. 3C28A6200088.xml.

It contains parameters unique to a specific phone, such as account registration. It will only be effective for a MAC-specific IP phone.

3.3.3 Device Config File

Device Config file is named after the device model of the IP phone. For example, if the device model of an IP phone is M7, the name of Device CFG file is config.M7.xml.

It contains common parameters that affect the same model IP phones. The Device CFG file has a fixed name for each phone model.

3.4 EDS (Easy Deployment Server)

EDS (Easy Deployment Server) is a server which provides the information for ALE SIP devices to connect to the provisioning server. It is a redirect provisioning server and has a web-based interface for the user to manage such information. Please find the <u>EDS user manual</u> for more information.

3.5 Provisioning Methods

The ALE Myriad Series phones provide two ways to provision your phones:

- Manual Provisioning: provisioning via the local phone user interface or web user interface.
- Central Provisioning: provisioning through configuration files stored in a central provisioning server.

Key factor for choosing which method is used depends on how many phones need to be deployed and what features and settings need to be configured. Manual provisioning on the web or phone user interface does not contain all the phone settings available for the centralized method. You can use the web user interface method in conjunction with a central provisioning method and phone user interface method. We recommend using centralized provisioning as your primary provisioning method when provisioning multiple phones.

3.6 Auto Provisioning Process

3.6.1 Auto Provisioning Process

The auto provisioning process will be executed after finishing the initialization. After the phone boots up, it will request configuration files through the acquired URL in sequence. The sequence of auto provisioning execution is DHCP \rightarrow Local \rightarrow EDS \rightarrow RDDS. At any of the five steps, once the phone can download the configuration files successfully, the phone will exit auto provisioning process.

Note: If the phone downloads a configuration file in wrong format during the auto provisioning process, parsing fails, and the phone will continue auto provisioning process.

In order to make the deployment more flexible, we made the pnp process independent, not limited by priority, and also to support long listening.







3.6.2 Relative Path of Configuration File

The following table lists the parameters which you can use for configuring the customized configuration file.

Parameter	DeviceProvisionFileFirst	config.xml
Description	It configures the first requested configuration file.	
Permitted Values	String within 511 characters	
Default	config.xml	
Parameter	DeviceProvisionFileSecond	config. xml
Description	It configures the second requested configuration file.	
Permitted Values	String within 511 characters	
Default	config.\$model.xml	
Parameter	DeviceProvisionFileThird	config.xml
Description	It configures the third requested configuration file.	
Permitted	String within E11 characters	
Values	Sumg within STT Characters	
Default	config.\$mac.xml	

When the phone is performing the auto provisioning process via a relative URL, the phone will request the following three default configuration files in turn.

- config.xml
- config.\$model.xml
- config.\$mac.xml

If you want to customize the configuration file, you can create some new files by making a copy and renaming the configuration template file, then save the configuration file and place it on the provisioning server. The IP phone will request the customized file.

For example, set the **DeviceProvisionFileFirst** to 1.xml, set the **DeviceProvisionFileSecond** to 2.xml, and set the **DeviceProvisionFileThird** to 3.xml, the phone will request the following three configuration files in turn.

- 1.xml
- 2.xml
- 3.xml

Note: The ALE Myriad Series phones only support the xml format config file.

3.6.3 Timeout Mechanisms

In the process of auto provisioning, there are two kinds of timeout mechanisms for some abnormal scenarios. It provides a clearer definition of some behaviors of the phone when there are network issues and can also improve the efficiency of the auto provisioning process.

The following table lists the parameters you can use to configure the settings of timeout in auto provisioning process.

Parameter	DeviceNetworkConnectExpiredTime	config.xml		
Description	It configures the timeout interval (in seconds) to transfer a file for HTTP/HTTPS connection. Note: When the HTTP/HTTPS connection cannot be successfully established within the configured time, the phone will exit the current auto provisioning process and perform the next one.			
Permitted Values	Integer from 1 to 20			
Default	10			
Parameter	DeviceProvisionAttemptExpiredTime	config.xml		
Description	It configures the timeout interval (in seconds) to transfer a file via auto provisioning. Note: When the phone cannot complete the downloading of configuration file within the configured time, it will exist the current auto provisioning process and execute the next one.			
Permitted Values	Integer from 1 to 300			
Default	20			

3.6.4 Multistage Request Mechanism

To deal with the issue (e.g. the phone may loop indefinitely to perform the auto provisioning process) caused by the parameter **DeviceProvisionServerUrl** in the configuration file, a new parameter **DeviceProvisionImmediateUpdateTimes** has been added.

When the parameter **DeviceProvisionImmediateUpdateTimes** is set to default value :0, the phone, after getting the configuration file, will not execute the auto provisioning process for the acquired URL, but will save the new URL to replace the old one.

When the parameter **DeviceProvisionImmediateUpdateTimes** is not default value 0 but value 2, after getting the configuration file which includes auto provisioning url1 (file1), the phone will request the auto provisioning url1 to download file1 which includes auto provisioning url2 (file2). After the phone requests the auto provisioning url2 to download the file2 which includes auto provisioning url3 (file3) successfully, the phone will finally request the auto provisioning url3 to download the file3 which includes auto provisioning url4 (file4). At this time, the auto provisioning request reached 3

(n+1) times, so the phone will exit the auto provisioning process and save the auto provisioning url4 to replace auto provisioning url3.

During the whole multistage request process, if the newly acquired URL is the same as one of the records in the list, for example, URL 2 is same as URL1, the device will exit the auto provisioning process directly after getting the file2.

The following table lists the parameters you can use to configure the settings for multistage request mechanism.

Parameter	DeviceProvisionImmediateUpdateTimes	config.xml	
Description	It configures the times of auto provisioning the phone executes if the phone gets the new auto provisioning URL.		
Permitted Values	Integer from 0 to 20		
Default	0		

3.6.5 Restoring Default Value

The Myriad phones support restoring the parameters to default values via auto provisioning. When you want to restore several parameters to default values, you do not need to factory reset the phone. Instead, you just need to modify the parameters in the configuration file as following format:

Original:

```
<setting id="FeatureDndEnable" value="true" />
```

Change:

```
<setting id="FeatureDndEnable" define="default" />
```

After the phone downloads the configuration file, the parameter of FeatureDndEnable will be changed to default value.

3.7 Keeping User's Personalized Settings after Auto Provisioning

Generally, the system administrators deploy phones in batches and timely maintain company phones via auto provisioning, however, there are some users would like to keep personalized settings after auto provisioning.

Parameter	DeviceProvisionUserConfigProtectEnable config.xml	
It enables or disables the IP phone to keep user's personalized settings after au provisioning.		ttings after auto
Description	If enabled, the <mac>-local.xml file will be generated automatical personalized settings configured via the web or phone user interfafter auto provisioning.</mac>	lly, and ace will be kept

The following table lists the parameters you can configure to keep user's personalized settings.



Permitted	false - disable	
Values	true - enable	
Default	false	
Parameter	DeviceProvisionUserConfigSyncEnable	config.xml
Description	It enables or disables the IP phone to upload the <mac>-local.xml file to the server each time the file is updated, and to download the <mac>-local.xml file from the server during auto provisioning. Note: It works only if "DeviceProvisionUserConfigProtectEnable" is set to true (Enabled). The upload/download path is configured by the parameter "DeviceProvisionUserConfigSyncPath".</mac></mac>	
Permitted Values	false - disable true - enable	
Default	false	
Parameter	DeviceProvisionUserConfigSyncPath config.xml	
Description	It configures the URL for uploading/downloading the <mac>-loca Note: It works only if "DeviceProvisionUserConfigSyncEnable" is a (Enabled).</mac>	l.xml file. set to true
Description Permitted Values	It configures the URL for uploading/downloading the <mac>-loca Note: It works only if "DeviceProvisionUserConfigSyncEnable" is a (Enabled). URL within 511 characters</mac>	l.xml file. set to true
Description Permitted Values Default	It configures the URL for uploading/downloading the <mac>-loca Note: It works only if "DeviceProvisionUserConfigSyncEnable" is a (Enabled). URL within 511 characters Blank</mac>	l.xml file. set to true
Description Permitted Values Default Parameter	It configures the URL for uploading/downloading the <mac>-loca Note: It works only if "DeviceProvisionUserConfigSyncEnable" is a (Enabled). URL within 511 characters Blank DeviceProvisionUserConfigUploadMethod</mac>	l.xml file. set to true config.xml
Description Permitted Values Default Parameter Description	It configures the URL for uploading/downloading the <mac>-local Note: It works only if "DeviceProvisionUserConfigSyncEnable" is a (Enabled). URL within 511 characters Blank DeviceProvisionUserConfigUploadMethod It configures the way the IP phone uploads the <mac>-local.xml f (for HTTP/HTTPS server only).</mac></mac>	l.xml file. set to true config.xml ile to the server
Description Permitted Values Default Parameter Description Permitted Values	It configures the URL for uploading/downloading the <mac>-local Note: It works only if "DeviceProvisionUserConfigSyncEnable" is so (Enabled). URL within 511 characters Blank DeviceProvisionUserConfigUploadMethod It configures the way the IP phone uploads the <mac>-local.xml for (for HTTP/HTTPS server only). 0 - PUT 1 - POST</mac></mac>	l.xml file. set to true config.xml ile to the server

3.8 Supported Provisioning Server Discovery Methods

After the phone has established a network connection, a provisioning server address should be obtained for configuration settings.

The IP phone supports the following methods to discover the provisioning server address:

PnP: PnP feature allows IP phones to discover the provisioning server address by broadcasting the PnP SUBSCRIBE message during startup. And also support out of dialog notify.

DHCP: DHCP option can be used to provide the address or URL of the provisioning server to IP phones. When the IP phone requests an IP address using the DHCP protocol, the response may

contain option 66 (for IPv4)/option 59 (for IPv6) or the custom option (if configured) that contains the provisioning server address.

Static: You can manually configure the server address via phone user interface or web user interface.

3.8.1 PnP Provisioning Configuration

The following table lists the parameters you can use to configure PnP provisioning.

Parameter	DeviceProvisionPnPEnable	config.xml
Description	It enables or disable PNP function.	
Permitted Values	false - disable true - enable	
Default	true	
Web UI	Provision \rightarrow Auto Provision	
Parameter	DeviceProvisionPnpPort	config.xml
Description	Configure pnp srouce port.	
Permitted Values	Integer from 1 to 65535	
Default	5082	
Web UI	None	

3.8.2 DHCP Provisioning Configuration

You can choose IPv4 or IPv6 custom DHCP option according to your network environment. The IPv4 or IPv6 custom DHCP option must be in accordance with the one defined in the DHCP server.

The following table lists the parameters you can use to configure DHCP provisioning.

Parameter	DeviceProvisionDHCPEnable	config.xml
Description	It enables or disable DHCP option for acquiring auto provisioning server URL.	
Permitted	false - disable	
Values	true - enable	
Default	true	
Web UI	Provision \rightarrow Auto Provision	
Parameter	DeviceProvisionDHCPCustomOption	config.xml
Description	It configures the IPv4 custom DHCP option for requesting provision address.	oning server



Permitted Values	Integer from 128-254 Multiple options are separated by ";".	
Default	Blank	
Web UI	Provision \rightarrow Auto Provision	
Parameter	DeviceProvisionDHCPCustomOptionIPv6 config.xml	
Description	It configures the IPv6 custom DHCP option for requesting provision address.	oning server
Permitted Values	Integer from 135-65535, except 143 Multiple options are separated by ";".	
Default	Blank	
Web UI	Provision \rightarrow Auto Provision	

3.8.3 Static Provisioning Configuration

Users can manually configure the server address via phone user interface or web user interface.

 Configure the auto provisioning URL on phone user interface by path: Menu → Advanced Setting (default password: 123456) → Auto Provision

Auto Provision			
URL			
URL BAK			
Username			
Password			
Back	Bkspc	123	Save

• Configure the auto provisioning URL via the Web UI path: Provision \rightarrow Auto Provision

Alcatel·Lucen Enterprise	t 🕢	Web Based Management M5			Using default password. Ple
III Status	<u>ت</u> ^	Auto Provision			
Version		Auto Provision			
Accounts		DHCP Provision:	0		
Network		IPv4 Custom Option:		0	
🕿 Account	~	IPv6 Custom Option:		0	
Network	~	PnP Provision:	0		
		DM URL:		0	
Provision	^	Backup DM URL:		0	
Auto Provision		Username:		0	
TR069		Password:		0	
🖉 Phone Keys	~	Polling By Interval:	0		
Settings	~	Polling Timeout(Second):	86400	0	
/≡ Features	~	Polling By Weekdays:	0		

• Configure the auto provisioning URL by parameters.

The following	a table lists the	parameters	vou can use t	o confiaure	Static provisioning.
	9		,		e co. c. e p. e t. e. e

Parameter	DeviceProvisionServerUrl	config.xml
Description	It configures the DM URL.	
Permitted Values	Strings	
Default	Blank	
Web UI	Provision \rightarrow Auto Provision	
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Auto Pro	ovision
Parameter	DeviceProvisionBackupServerUrl	config.xml
Description	It configures the DM backup URL.	
Permitted Values	Strings	
Default	Blank	
Web UI	Provision \rightarrow Auto Provision	
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Auto Pro	ovision
Parameter	DeviceProvisionServerUsername config.xml	
Description	It configures the username used for http authentication.	
Permitted Values	Strings	

Default	Blank		
Web UI	Provision \rightarrow Auto Provision		
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Auto Pro	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Auto Provision	
Parameter	DeviceProvisionServerPassword config.xml		
Description	It configures the password used for http authentication.		
Permitted Values	Strings		
Default	Blank		
Web UI	Provision \rightarrow Auto Provision		
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Auto Pro	ovision	

3.8.4 Provisioning Polling Configuration

Users can configure the polling time so that the phone can download the configuration file periodically once the time is reached. Furthermore, the IP phone also allows users to define the phone downloading the configuration files weekly.

• Configure the polling time via the Web UI path: Provision → Auto Provision. The default value of interval time is 86400 seconds.

Alcatel-Lucent 🕖	Web Based Management M5			
Ξ	DHCP Provision:	0		
Status	IPv4 Custom Option:		0	
Version	IPv6 Custom Option:		0	
Accounts	PnP Provision:	0		
Network	DM URL:		0	
🖀 Account 🛛 🗸	Backup DM URL:		0	
Metwork ~	Usemame:		0	
🔓 Provision 🔷	Password:		0	
Auto Provision	Polling By Interval:	0		
TR069	Polling Timeout(Second):	86400	0	
🚰 Phone Keys 🛛 🗸	Polling By Weekdays:	0		
Settings	Polling Time:	© 02:00 © 06:00	0	
Time&Date	Polling Day Of Week:	Sunday		
Call Display		 Monday Tuesday 		
Audio		 ✓ Wednesday ⑦ ✓ Thursday 		
Display		 Friday Saturday 		
Ringing		Auto Provision Now		
Dialing Rule				
Phone Lock		s	ubmit	

• Configure the auto provisioning polling settings by parameters.



The following table lists the parameters you o	can use to configure polling mechanism.
--	---

Parameter	DeviceProvisionPollingByIntervalEnable	config.xml	
Description	It enables or disables configuration file polling periodly.		
Permitted	false - disable		
Values	true - enable		
Default	false		
Web UI	Provision \rightarrow Auto Provision		
Parameter	DeviceProvisionPollingInterval	config.xml	
Description	It configures update process polling period. The unit is second.		
Permitted Values	Numeric [60 – 86400]		
Default	86400		
Web UI	Provision \rightarrow Auto Provision		
Parameter	DeviceProvisionPollingByWeekdaysEnable	config.xml	
Description	It enables or disables polling weekly.		
Permitted	false - disable		
Values	true - enable		
Default	false		
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Auto P	Provision	
Parameter	DeviceProvisionPollingBeginTime	config.xml	
Description	It configures polling begin time.		
Permitted Values	Time from 00:00 to 23:59		
Default	02:00		
Web UI	Provision \rightarrow Auto Provision		
Parameter	DeviceProvisionPollingEndTime	config.xml	
Description	It configures polling end time.		
Permitted Values	Time from 00:00 to 23:59		
Default	06:00		
Web UI	Provision \rightarrow Auto Provision		
Parameter	DeviceProvisionPollingDayofWeek	config.xml	



	It configures polling day of week.
Description	Note: It works only if the value of "DeviceProvisionPollingByWeekdaysEnable" is
	true.
	0,1,2,3,4,5,6 or a combination of these digits
	0 - Sunday
	1 - Monday
Permitted	2 - Tuesday
Values	3 - Wednesday
	4 - Thursday
	5 - Friday
	6 - Saturday
Default	0123456
Web UI	Provision \rightarrow Auto Provision



4. Firmware Upgrade

There are three methods of firmware upgrade:

- Manually, from the local system for a single phone via web user interface.
- Automatically, from the provisioning server for a batch of phones.
- USB upgrade

4.1 Firmware

You can <u>download</u> the latest firmware online.

The M3/M5/M7 DeskPhones share the same firmware. There are two files included in the package. bin9000N is used for bootloader module upgrading. sip9000N is used for SIP module upgrading.

Generally, the two files should be uploaded to the phone at the same time for upgrading.

4.2 Firmware Upgrade Configuration

4.2.1 Firmware Upgrade from Provisioning Server with Configuration File

The following table lists the parameters you can use to upgrade firmware.

Parameter	DeviceFirmwareUpgradeUrl	config.xml
Description	It configures the access URL of the firmware file.	
Permitted Values	URL within 511 characters	
Default	Blank	

4.2.2 Firmware Upgrade via Web User Interface

Before upgrading firmware, you need to know the following:

- Do not close and refresh the browser when the IP phone is upgrading firmware.
- Do not unplug the network cables and power cables when the IP phone is upgrading firmware.



⊆ X= Foaturor	Firmware Upgrade	
	Firmware Upgrade	
🔰 Contact Manager 🛛 👋	Upload Firmware(sip*):	Select
💥 Maintenance 🔷	Upload Firmware(bin*):	Select
Firmware Upgrade		lladata
Config File		opuate
Reboot&Restore	EM	
Log Collection	EM Upgrade(em*):	Select
Certificate Management	1	Update
Change Password		
Security		

4.3 Firmware Upgrade via USB disk

Procedures:

- Step 1: Prepare a USB disk in FAT32 format.
- Step 2: Create a folder and name it "upgrade".
- Step 3: Put the firmware binary files into upgrade folder.

Name	Date modified	Туре
퉬 upgrade	5/21/2021 8:38 AM	File folder

- Step 4: Plug USB disk into the phone's USB port when the phone is powered off.
- Step 5: Power on the phone.
- Step 6: During step 1 of initialization process, pressing "4" + "7" + "8" +" *" keys at the same time. Release all keys until all the LEDs are lighting on.
- Step 7: Phone will reboot and start upgrading process.



5. Security Features

This chapter provides information about configuring the security features of the phone.

5.1 User and Administrator Identification

By default, some menu options are protected by different privilege levels: user and administrator. You can also customize the access permission for the web user interface and phone user interface.

The ALE Myriad Series phones support access levels of admin, var and user.

When logging into the web user interface or accessing advanced settings on the phone, as an administrator, you need an administrator password, then you will be able to access various menu options. The default username and password for administrator is "admin/123456". The default username and password for users is "user/user". Both "administrator" and "user" can log into the web user interface, and administrator will see all the user options. The default username and password for the user is "user".

For security reasons, you'd better change the default user or administrator password. Since advanced menu options are strictly used by the administrator, users can configure them only if they have administrator privileges.

5.1.1 User and Administrator Identification Configuration

The following table lists the parameters you can use to configure the user and administrator identification.

Parameter	DeviceSecurityUserName config.xml			
Description	It configures the username of the user.			
Permitted Values	String within 32 characters			
Default	user			
Parameter	DeviceSecurityVarName	config.xml		
Description	It configures the username of the var.			
Permitted Values	String within 32 characters			
Default	var			
Parameter	DeviceSecurityAdminName	config.xml		
Description	It configures the username of the admin.			
Permitted Values	String within 32 characters			
Default	admin			
Parameter	DeviceSecurityUserPwd	config.xml		



Description	It configures the password of the user	
Permitted Values	String of 3 to 32 characters	
Default	user	
Parameter	DeviceSecurityVarPwd	config.xml
Description	It configures the password of the var	
Permitted Values	String of 3 to 32 characters	
Default	var	
Parameter	DeviceSecurityAdminPwd	config.xml
Description	It configures the password of the admin.	
Permitted Values	String of 4 to 32 characters	
Default	Blank	
Web UI	Maintenance \rightarrow Change Password	
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Change	Password

5.1.2 User Access Level Configuration

The following table lists the parameters you can use to configure the user access level.

Parameter	DeviceUserAccessPermissionEnable config.xml				
Description	It enables or disables the 3-level access permissions (admin, var, user).				
Permitted Values	false - disable true - enable				
Default	false				
Parameter	DeviceUserAccessPermissionUrl config.xml				
Description	It configures the access URL of the file, which defines 3-level acces	ss permissions.			
Permitted Values	URL within 512 characters				
Default	Blank				
Parameter	DeviceDefaultAccessLevel	config.xml			
Description	It configures the default access level to access the phone user into Note: It works only if "DeviceUserAccessPermissionEnable" is set	erface. to true (Enabled).			



Permitted Values	0 - user 1 - var 2 - admin
Default	0

5.1.3 Access Permissions Specification

Access permissions of all configuration items available on phones' web user interface and phone user interface can be defined in a fixed UserAccessPermission.xml file.

Each configuration item in the file is formatted as:

ItemName = X1X2

The valid values of X1, X2 include 0, 1, 2 and 3.

X1 is used for specifying the access level. The access levels: 2 = admin, 1 = var, 0 = user, 3 = none.

X2 is used for defining the access permission. 2 means the configuration item is read-only for X1 and higher access levels, the highest is always writable. 1 means the configuration item is read- only for X1 access level and writable for higher access levels. 0 means the configuration item is writable for X1 and higher access levels. 3 means the configuration item is read-only for X1 and higher access levels.

The following table lists the possible values of X1X2 and the configuration results with different access levels: (W: writable; R: read only; N: hidden)

Value	admin	var	user
0	WR	WR	WR
1	WR	WR	Ν
2	WR	Ν	Ν
3	Ν	Ν	Ν
00	WR	WR	WR
01	WR	WR	R
02	WR	R	R
03	R	R	R
10	WR	WR	Ν
11	WR	WR	Ν
12	WR	R	Ν
13	R	R	Ν
20	WR	Ν	Ν
21	WR	Ν	Ν
22	WR	Ν	Ν

23	R	Ν	Ν
30/31/32/33	Ν	Ν	Ν

Note: The phone user interface currently does not support read-only (R), only writable-read (WR) or hidden (N).

Customizing UserAccessPermission.xml

You can contact your interface person of Alcatel-Lucent Enterprise for the template file "UserAccessPermission.xml".

Web User Interface

The following parameters show the configuration for the web user interface in the UserAccessPermission.xml file for reference.

Note: If you change the web user interface permission parameters, the IP phone will reboot to make the changes take effect.

Example: Configuration items in the UserAccessPermission.xml for navigation bar settings of the Features for web user interface:

```
<?xml version="1.0" encoding="UTF-8" ?>
<settings>
<setting id="WBMFeatureGeneral" value="0" override="true"/>
<setting id="WBMFeatureForward" value="0" override="true"/>
<setting id="WBMFeatureDnd" value="0" override="true"/>
<setting id="WBMFeatureIntercom" value="0" override="true"/>
<setting id="WBMFeatureMulticast" value="1" override="true"/>
<setting id="WBMFeatureHotLine" value="1" override="true"/>
<setting id="WBMFeatureTransfer" value="1" override="true"/>
<setting id="WBMFeatureAcd" value="2" override="true"/>
<setting id="WBMFeatureSip" value="2" override="true"/>
<setting id="WBMFeatureGeneral" value="2" override="true"/>
<setting id="WBMFeatureAcd" value="2" override="true"/>
<setting id="WBMFeatureAcd" value="2" override="true"/>
<setting id="WBMFeatureGeneral" value="2" override="true"/>
<setting id="WBMFeatureAcd" value="2" override="true"/>
<setting id="WBMFeatureAcdionUrl" value="2" override="true"/>
</setting id="WBMFeatureActionUrl" value="2" override="true"/>
</settings>
```

Based on the above configuration of access level:

When logging in the web user interface with user access level, the web user interface will be displayed as follows:

		Web Based Ma	nagement M5		
	Ē	Gene	eral		
(i) Status	~	Con	oral		
窗 Account	~	Key	As Send :	# ~	0
Network	~	Auto	o Dial Out Timer:	5	0
👸 Phone Keys	~	Stut	tter Tone Enable:	0	
🔅 Settings	~	Dial	ing Tone Enabled:	0	
Æ Features	^	Call	Number Filter:	,-0	?
General		Call	Waiting:	•	
Forward		Call	Waiting On Code:		0
DND		Call	Waiting Off Code:		0
Intercom		Call	Waiting Tone:	•	
HotLine		Web	b Session Expire Time(s):	6000	0
Contact Manager	~	Rin	g Back Timeout:	60	0
X Maintenance	~	Call	Completion:	0	

When logging in the web user interface with var access level, the web user interface will be displayed as follows:

	Web Basec	I Management M5		
Ξ		General		
③ Status	~	Cancerd		
🗟 Account	~	General	#	٥
Network	~	Auto Dial Out Timer:	5	0
Phone Keys	~	Stutter Tone Enable:	0	
🔅 Settings	~	Dialing Tone Enabled:	• •	
Æ Features	^	Call Number Filter:	,=O	0
General		Call Waiting:	•	
Forward		Call Waiting On Code:		0
DND		Call Waiting Off Code:		0
Intercom		Call Waiting Tone:	0	
Multicast Paging		Web Session Expire Time(s):	6000	0
HotLine		Ring Back Timeout:	60	0
Contact Manager	~	Call Completion:	0 0	
X Maintenance	~	Auto Redial:	• •	

When logging in the web user interface with admin access level, the web user interface will be displayed as follows:

	Web Based Management M5		
🖻 🖉 Account	General		
Network	General		
Provision	Key As Send :	# ~	0
Phone Keys	Auto Dial Out Timer:	5	0
🏟 Settings 🛛 🗸 🗸	Stutter Tone Enable:	0	
Features	Dialing Tone Enabled:	0	
General	Call Number Filter:	0	0
Forward	Call Waiting:		0
DND	Call Waiting Off Code:		0
Intercom	Call Waiting Tone:	0	
Multicast Paging	Web Session Expire Time(s):	6000	0
HotLine	Ring Back Timeout:	60	0
Sip	Call Completion:	0	
Action URL	Auto Redial:	0 0	
Remote Control	Auto Redial Interval(1~60s):	10	0
🔰 Contact Manager 🛛 🗸	Auto Redial Times(1~10):	> 	1
X Maintenance	Confidential Dial Prefix:		0

Phone User Interface

The following shows configuration parameters for the phone user interface in the UserAccessPermission.xml file for reference.

Note: The phone user interface currently does not support read-only (R), only writable-read (WR) or hidden (N).

Example: Configuration items in the UserAccessPermission.xml for call forward menu and its submenu settings for phone user interface:

```
<?xml version="1.0" encoding="UTF-8" ?>
<settings>
<setting id="MMIFeatureForward" value="0" override="true"/>
<setting id="MMIFeatureAlwaysForward" value="0" override="true"/>
<setting id="MMIFeatureBusyForward" value="1" override="true"/>
```



<setting id="MMIFeatureNoAnswerForward" value="2" override="true"/>

</settings>

According to the above configuration of access level:

When logging in the phone user interface with user access level, the access permission of each submenu is displayed as follows:

Busy forward submenu and no answer forward submenu are hidden for user access level.

	Call Fo	rward	
Always Fo	rward		
Back	- 5		Enter

When logging in the phone user interface with var access level, the access permission of each submenu is displayed as follows:

No answer forward submenu is hidden for var access level.

	Call Fo	orward	
Always Fo	orward		
Busy Fon	ward		
Back			Enter

When logging in the phone user interface with admin access level, the access permission of each submenu is displayed as follows:



Call F	orward	
Always Forward		
Busy Forward		
No Answer Forward	İ	
Back		Enter

5.1.4 Logging in the Web/Phone User Interface with Different Access Levels

When the user access level is enabled, you can log in to the web/phone user interface with different access levels.

To login in the web user interface with different access levels:

- 1. Enter the IP address in the address bar of the web browser on your PC and then press the **Enter** key.
- 2. Enter the username (admin/var/user) and password (admin/var/user) in the login page.
- 3. Click **Login** to log in.

When logging in with different access levels, you will have corresponding permissions of the web user interface.

To login in the phone user interface with different access levels:

- 1. Press Menu \rightarrow User Mode
- 2. Press the left or right navigation button, or the **Switch** soft key to select the desired access level in the User Type field.
- 3. Enter the password in the Password field.



4. Press the Save soft key to accept the change.

You will have corresponding permissions of the phone user interface when logging in with different access levels.

5.2 Auto Logout

Auto logout time (default 5 minutes) defines the time interval of logging out the web user interface automatically when you do not perform any action on web user interface. Once logged out, you must re-enter username and password for web access authentication, and then log in again.

Alcatel·Lucent 🎻	Web Based Management M5		Using default password. Plo
프 Display	General		
Ringing	General		
Dialing Rule	Key As Send :	# ~	0
Phone Lock	Auto Dial Out Timer:	5	0
Softkey Layout	Stutter Tone Enable:	0	
≆⊟ Features	Dialing Tone Enabled:	0	
General	Call Number Filter:	0-,	0
Forward	Call Waiting:	0	
DND	Call Waiting On Code:		0
Intercom	Call Waiting Off Code:		0
Multicast Paging	Call Waiting Tone:	0	_
HotLine	Web Session Expire Time(s):	600	Ø
ACD	Ring Back Timeout:	60	0

5.3 Phone Lock

You can lock the IP phone to prevent it from unauthorized use. Once the IP phone is locked, you must enter the password to unlock it. The default password is "0000".

You can set waiting time intervals for locking the phone automatically.

Note: Once the phone is locked, the user can input the password "0000" to unlock the phone.

But if the default password is changed and lost, the user can reset the parameter "SettingPhoneUnlockPwd" in the configuration file over auto provisioning.

5.3.1 Operation Behaviors on Locked Phone

When the phone is locked, you can only initiate an emergency call.

The following table lists the parameters you can use to configure the emergency number.

Parameter	SettingEmergencyNumber	config.xml
Description	It configures the emergency phone numbers when screen is locke	ed.
Permitted Values	Numeric	
Default	112,911,110	



Web UI	Setting \rightarrow Phone Lock \rightarrow Emergency Call
--------	---

5.3.2 Phone Lock Configuration

The following table lists the parameters you can use to configure the phone lock.

Parameter	SettingPhoneAutoLockEnable	config.xml
Description	It enables or disables the phone lock feature.	
Permitted Values	false - disable true - enable	
Default	false	
Web UI	Setting \rightarrow Phone Lock \rightarrow Automatic Lock	
Phone UI	Menu \rightarrow Basic Setting \rightarrow Phone Lock	
Parameter	SettingPhoneAutoLockTimeout	config.xml
Description	It configures screen saver timeout.	
Permitted Values	Numeric [60,18000]	
Default	300	
Web UI	Setting \rightarrow Phone Lock \rightarrow Automatic Lock Time	
Phone UI	Basic Setting → Display → Screen Saver → Wait Time	
Parameter	SettingPhoneUnlockPwd	config.xml
Description	It configures screen lock password.	
Permitted Values	Integer	
Default	0000	
Web UI	Setting \rightarrow Phone Lock \rightarrow Unlock Password	

5.4 Transport Layer Security (TLS)

TLS is a commonly used protocol for providing communications privacy and managing the message transmission security, allowing IP phones to communicate with other remote parties and connect to the HTTPS URL for provisioning in a way that is designed to prevent eavesdropping and tampering.

The ALE Myriad Series phones support TLS versions 1.0, 1.1 and 1.2. When TLS is enabled for an account, the SIP message of this account will be encrypted.

5.4.1 Supported Cipher Suites

A cipher suite is a named combination of authentication, encryption, and message authentication code (MAC) algorithms used to negotiate the security settings for network connection using the TLS/SSL network protocol.



The ALE Myriad Series phones support the following cipher suites:

- DHE-RSA-AES256-SHA
- DHE-DSS-AES256-SHA
- AES256-SHA
- EDH-RSA-DES-CBC3-SHA
- EDH-DSS-DES-CBC3-SHA
- DES-CBC3-SHA
- DES-CBC3-MD5
- DHE-RSA-AES128-SHA
- DHE-DSS-AES128-SHA
- AES128-SHA
- RC2-CBC-MD5
- IDEA-CBC-SHA
- DHE-DSS-RC4-SHA
- RC4-SHA
- RC4-MD5
- RC4-64-MD5
- EXP1024-DHE-DSS-DES-CBC-SHA
- EXP1024-DES-CBC-SHA
- EDH-RSA-DES-CBC-SHA
- EDH-DSS-DES-CBC-SHA
- DES-CBC-SHA
- DES-CBC-MD5
- EXP1024-DHE-DSS-RC4-SHA
- EXP1024-RC4-SHA
- EXP1024-RC4-MD5
- EXP-EDH-RSA-DES-CBC-SHA
- EXP-EDH-DSS-DES-CBC-SHA
- EXP-DES-CBC-SHA
- EXP-RC2-CBC-MD5
- EXP-RC4-MD5
- ECDHE

5.4.2 Supported Trusted and Server Certificates

The IP phone can serve as a TLS client or a TLS server. The phone supports the dual-authentication method. These are also known as CA and device certificates.

The TLS requires the following security certificates to perform the TLS handshake:

• Trusted Certificate: When the IP phone requests a TLS connection with a server, the IP phone should verify the certificate sent by the server to decide whether it is trusted based on the trusted certificates list. The IP phone has 58 built-in trusted certificates. You can upload 10 custom certificates at most. The format of the trusted certificate files must be *.pem,*.cer,*.crt and *.der and the maximum file size is 5MB.

- Server Certificate: When clients request a TLS connection with the IP phone, the IP phone sends the server certificate to the clients for authentication. The IP phone has two types of built-in server certificates: a unique server certificate and a custom server certificate. You can only upload one server certificate to the IP phone. The old server certificate will be overridden by the new one. The format of the server certificate files must be *.p12 and *.pfx and the maximum file size is 5MB.
- A unique server certificate: It is unique to an IP phone (based on the MAC address) and issued by the ALE Certificate Authority (CA).
- A custom server certificate: Users can upload the custom certificate for authentication.

The IP phone can authenticate the server certificate based on the trusted certificates list. The trusted certificates list and the server certificates list contain the default and custom certificates.

Common Name Validation feature enables the IP phone to mandatorily validate the common name of the certificate sent by the connecting server. The Security verification rules are compliant with RFC 2818.

The ALE Myriad Series phones trust the following CAs by default:

- entrust_g2_ca.pem
- CybertrustPublicSureServerSVCA.pem
- SFSRootCAG2.pem
- GeoTrust_Primary_CA_G2_ECC.pem
- AddTrustExternalCARoot.pem
- comodosslca.pem
- DigiCertHighAssuranceEVRootCA.pem
- GeoTrust_Global_CA.pem
- thawte_Primary_Root_CA.pem
- DSTRootCAX3.pem
- DigiCert_Global_Root_CA.pem
- letsencryptauthorityx2.pem
- isrgrootx1.pem
- SVRSecureG3.pem
- GeoTrust_Primary_CA.pem
- Root_R2.pem
- sfroot_g2.pem
- TCTrustCenterClass3CAII.pem
- Root_R1.pem
- TCTrustCenterClass4CAII.pem
- DigiCertGlobalRootG2.pem
- Thawte_Personal_Freemail_CA.pem
- BaltimoreCyberTrustRoot.pem
- entrust_ev_ca.pem
- Thawte_Server_CA.pem
- AmazonRootCA2.pem
- DigiCertTrustedRootG4.pem
- VeriSign_Class_3_Public_Primary_Certification_Authority_G4.pem

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- DigiCertAssuredIDRootG3.pem
- DigiCert_SHA2_Secure_Server_CA.pem
- StartComCertificationAuthorityG2.pem
- GeoTrust_Universal_CA2.pem
- AmazonRootCA3.pem
- comodorsadomainvalidationsecureserverca.pem
- Thawte_Premium_Server_CA.pem
- DigiCertAssuredIDRootG2.pem
- TCTrustCenterClass2CAII.pem
- GeoTrust_Universal_CA.pem
- StartComCertificationAuthority.pem
- entrust_2048_ca.pem
- DigiCertAssuredIDRootCA.pem
- VeriSign_Class_3_Public_Primary_Certification_Authority_G5.pem
- letsencryptauthorityx1.pem
- thawte_Primary_Root_CA_G3_SHA256.pem
- VeriSign_Class_4_Public_Primary_Certification_Authority_G3.pem
- VeriSign_Universal_Root_Certification_Authority.pem
- thawte_Primary_Root_CA_G2_ECC.pem
- VeriSign_Class_3_Public_Primary_Certification_Authority_G3.pem
- TCTrustCenterUniversalCAI.pem
- AmazonRootCA1.pem
- comodorsacertificationauthority.pem
- VeriSign_Class_2_Public_Primary_Certification_Authority_G3.pem
- DigiCertGlobalRootG3.pem
- AmazonRootCA4.pem
- Geotrust_PCA_G3_Root.pem
- VerizonPublicSureServerCAG14_SHA2.pem
- VeriSign_Class_1_Public_Primary_Certification_Authority_G3.pem
- EquifaxSecureGlobaleBusinessCA1.pem

Note: ALE endeavors to maintain a built-in list of the most commonly used CA Certificates. If you are using a certificate from a commercial Certificate Authority, which is not in the list above, you can send a request to ALE technical support team, and ALE will evaluate if this certificate could be added into later firmware release. At this point, you can also upload your specific CA certificate into your phone.

5.4.3 TLS Configuration

The following table lists the parameters you can use to configure TLS.

Parameter	AccountXServer1Transport	config.xml
Description	It configures the type of transport protocol.	
Permitted	0 - UDP	
Values	1 - TCP 2 - TLS	
	2 - TLS	



	3 - DNS-NAPTR. If no server port is given, the IP phone performs t	the DNS NAPTR and
	SRV queries for the service type and port.	
Default	0	
Web UI	Account \rightarrow Basic \rightarrow Transport Mode	
Parameter	SIPTIsVersion	config.xml
Description	It configures the TLS version the IP phone uses to authenticate w	ith the server.
-	0 - All	
Permitted	1 - TLS1.0	
values	2 - TLS1.2	
Default	0	
Parameter	SIPTIsPeerVerify	config.xml
Parameter Description	SIPTIsPeerVerify It enables or disables the peer verify for sip server.	config.xml
Parameter Description Permitted	SIPTIsPeerVerifyIt enables or disables the peer verify for sip server.false - disable	config.xml
Parameter Description Permitted Values	SIPTIsPeerVerifyIt enables or disables the peer verify for sip server.false - disabletrue - enable	config.xml
Parameter Description Permitted Values Default	SIPTIsPeerVerify It enables or disables the peer verify for sip server. false - disable true - enable false	config.xml
Parameter Description Permitted Values Default Web UI	SIPTIsPeerVerifyIt enables or disables the peer verify for sip server.false - disabletrue - enablefalseSIP Features → General → SIPs Peer Verify	config.xml
Parameter Description Permitted Values Default Web UI Parameter	SIPTIsPeerVerify It enables or disables the peer verify for sip server. false - disable true - enable false SIP Features → General → SIPs Peer Verify SIPCertificateUrl	config.xml config.xml
Parameter Description Permitted Values Default Web UI Parameter Description	SIPTIsPeerVerifyIt enables or disables the peer verify for sip server.false - disabletrue - enablefalseSIP Features → General → SIPs Peer VerifySIPCertificateUrlIt configures the URL to download SIP server certificate.	config.xml config.xml
Parameter Description Permitted Values Default Web UI Parameter Description Default	SIPTIsPeerVerifyIt enables or disables the peer verify for sip server.false - disabletrue - enablefalseSIP Features → General → SIPs Peer VerifySIPCertificateUrlIt configures the URL to download SIP server certificate.Blank	config.xml config.xml

5.5 Secure Real-Time Transport Protocol (SRTP)

Secure Real-Time Transport Protocol (SRTP) encrypts the audio streams during VoIP phone calls to avoid interception and eavesdropping. The parties participating in the call must enable SRTP feature simultaneously. When this feature is enabled on both phones, the type of encryption to use for the session is negotiated between the IP phones. This negotiation process is compliant with RFC 4568.

When you place a call on the enabled SRTP phone, the IP phone sends an INVITE message with the RTP/RTCP encryption algorithm to the destination phone. As described in RFC 3711, RTP/RTCP streams may be encrypted using an AES (Advanced Encryption Standard) algorithm.

Example of the RTP encryption algorithm carried in the SDP of the INVITE message:
m=audio 6000 RTP/SAVP 0 8 18 9 101 a=crypto:1 AES_CM_128_HMAC_SHA1_80 inline:NzFINTUwZDk2OGVIOTc3YzNkYTkwZWVkMTM1YWFj a=crypto:2 AES_CM_128_HMAC_SHA1_32 inline:NzkyM2FjNzQ2ZDgxYjg0MzQwMGVmMGUxMzdmNWFm a=crypto:3 F8_128_HMAC_SHA1_80 inline:NDIiMWIzZGE1ZTAwZjA5ZGFhNjQ5YmEANTMzYzA0 a=rtpmap:0 PCMU/8000 a=rtpmap:8 PCMA/8000 a=rtpmap:18 G729/8000 a=fmtp:18 annexb=no a=rtpmap:9 G722/8000 a=fmtp:101 0-15 a=rtpmap:101 telephone-event/8000 a=ptime:20 a=sendrecv

The callee receives the INVITE message with the RTP encryption algorithm, and then answers the call by responding with a 200 OK message which carries the negotiated RTP encryption algorithm.

Example of the RTP encryption algorithm carried in the SDP of the 200 OK message:

m=audio 6000 RTP/SAVP 0 101
a=rtpmap: 0 PCMU/8000
a=rtpmap:101 telephone-event/8000
a=crypto:1 AES_CM_128_HMAC_SHA1_80 inline:NGY4OGViMDYzZjQzYTNiOTNkOWRiYzRlMjM0Yzcz
a=sendrecv
a=ptime:20
a=fmtp:101 0-15

When SIP-TLS/SRTP is enabled on both IP phones, RTP streams will be encrypted, and a lock icon appears on the LCD screen of each IP phone after successful negotiation.

The following table lists the parameters you can use to configure the SRTP.

Parameter	SIPGroup1SrtpWorkingMode	config.xml
Description	It configures whether to use voice encryption service.	
	0 - None	
Permitted	1 - Best effort	
Values	2 - Strict	
	3 - OSRTP	
Default	0	
Web UI	Account \rightarrow Advanced \rightarrow SRTP Working Mode	



5.6 SSH Activation

It is possible to open a secure remote connection through SSH to access the phone for Further operation test and debug purposes. SSH Connection is disable by default.

Parameter	DeviceSecuritySshEnable	config.xml
Description	It enables or disable the SSH session.	
Permitted Values	false - disable true - enable	
Default	false	
Web UI	Maintenance \rightarrow Security \rightarrow SSH Activation	
Parameter	DeviceSecuritySshPort	config.xml
Description	It configures the ssh port.	
Permitted Values	0-65535	
Default	22	
Web UI	None	

The following table lists the parameters you can use to configure the SSH session.

5.7 HTTPS Peer Verification

When the phone downloads the common configuration file from the provisioning server, the IP phone can enable or disable the authentication of the server certificate based on the trusted certificates list.

The following table lists the parameters you can use to configure the HTTPS peer verification.

Parameter	DeviceSecurityHttpsPeerVerifyEnable	config.xml
Description	It enables or disable HTTPS peer verification.	
Permitted Values	0 - NO 1 - YES	
Default	1	
Web UI	Maintenance \rightarrow Certificate Management \rightarrow HTTPS Peer Verify	

5.8 Encrypting and Decrypting Files

Myriad IP phones support downloading encrypted config.xml/config.xml file(s) from http/https server. To encrypt/decrypt files, you may have to configure an AES key.

The following table lists the parameters you can use to configure the encryption and decryption.

Parameter	DeviceSecurityEncryptionAesKey	config.xml
-----------	--------------------------------	------------

Alcatel · Lucent

Description	It configures the plaintext AES key for encrypting/decrypting the config/config.xml file.
Permitted Values	string
Default	Blank
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Auto Provision \rightarrow AES Key

6. Directory

The ALE Myriad Series phones provide several types of phone directories.

6.1 Local Directory

The ALE Myriad Series phones maintain a local directory that you can use to store contacts. The local directory can store up to 1000 contacts and 50 groups.

Contacts and groups can be added manually or imported in batch with a contact file. The ALE Myriad Series phones support *.xml format contact files.

6.1.1 Local Contact File Customization

You can download local contact template from the phone Web UI.

Alcatel-Lucent	Ð	WBM Based Mar	nagement	M5						
	≖	Local Directo	ory							
Accounts		Search				A	udd 🛛 Delete 🗸	Add to Fav Move	to V Import Export V	
Network		Last Name	First Name	Office Number	Mobile Number	Other Number	ALL	~ P	Operation	
🗟 Account	^									
Basic										
Codec										
Advanced										
Network	Ý					No Data				
🔰 Provision	~									
讲 Phone Keys	~									
🔅 Settings	~									
🚝 Features	~									
U Contact Manager	^									
Local Directory										

You can add local contact from the phone MMI. From R140, we also support the binding of contact and ring tone, so that the contact call ring is more personalized.

Add Contact								
Mobile								
Other								
Account		А	ccount 1	<>				
Ring		А	uto	<>				
Back			Switch	Save				



6.1.1.1 Local Contact File Elements and Attributes

The following table lists the elements and attributes you can use to add groups or contacts in the local contact file. We recommend you do not edit these elements and attributes.

Elements	Attributes	Description
Group	GroupNamo	Specify the group name.
Group	Groupivanie	For example: All Contacts, Blacklist or Friend
	FirstName/ LastName	Specify the FirstName and LastName
	OfficeNumber	Specify the Office number
	MobileNumber	Specify the mobile number
	OtherNumber	Specify the other number
	HomeNumber	Specify the home number
		Specify a registered line for this contact for calling.
	line Account	Valid Values: 1~15/1~8.
		The ALE Myriad Series phones support 8 accounts.
		Specify which group the contact adds to.
	GroupName	Built-in group:
		All Contacts, External Directory (supported by only M7)
		Custom group:
Contact		XXX (for example, Friend)
		Built-in avatar:
	AvatarSmall	Resource: avatar name
		Value: default, image1~image20
		Built-in avatar:
	AvatarBig	Resource: avatar name
		Value: default, image1~image20
		Specify: tag following contact
	Favorite	Value: True/False
		Default: False/Null
		Set the pairing of the user with the ringtone.
	CustomorPing	Value:
	Melody	ring00,ring01,ring02,ring03,ring04,ring05,ring06,ring07,ring08,ring0 9,ring10,ring11,ring12,ring13,ring14,ring15,ring16,ring17,ring18,ring 19



6.1.1.2 Customizing Local Contact File

Procedures:

- 1. Download a contact template from Web UI.
- 2. Open the contact template.
- 3. Add a group by adding <GroupName>Fn</GroupName> to the configuration file. Each starts on a new line.

For XML example:

<?xml version="1.0" encoding="utf-8"?>

<!--Phonebook generated at Tue Mar 28 10:28:14 2023-->

<PhoneDirectory>

<Contacts>

<Contact>

<FirstName>TA</FirstName>

<LastName>testA</LastName>

<Account>1</Account>

<GroupName>All Contacts</GroupName>

<AvatarSmall>avatar_small_default</AvatarSmall>

<AvatarBig>avatar_large_default</AvatarBig>

<OfficeNumber>123456789</OfficeNumber>

<MobileNumber></MobileNumber>

<OtherNumber></OtherNumber>

<HomeNumber></HomeNumber>

<Favorite>False</Favorite>

<CustomerRingMelody></CustomerRingMelody>

</Contact>

</Contacts>

<Groups>

<Group>

<GroupName>All Contacts</GroupName>

</Group>

<Group>

<GroupName>Blacklist</GroupName>

</Group>



<Group>

<GroupName>Whitelist</GroupName>

```
</Group>
```

<Group>

<GroupName>AAA</GroupName>

</Group>

<Group>

<GroupName>BBB</GroupName>

</Group>

<Group>

<GroupName>CCC</GroupName>

</Group>

</Groups>

</PhoneDirectory> For CSV example:

19	$ \cdot $: $\times \checkmark f_x$												
	Α	В	С	D	E	F	G	н	I.	J	K	L	
1	#FirstName	LastName	Account	GroupName	AvatarSmall	AvatarBig	OfficeNumber	MobileNumber	HomeNumber	OtherNumber	Favorite	CustomerRingMelody	
2	TA	testA	1	All Contacts	avatar_small_default	avatar_large_default	123456789				FALSE		
3													
4													
5													
6													
7													

4. Save the changes and upload this file to the phone Web UI or place this file to the provisioning server.

6.1.2 Local Contact File Upload

On the ALE Myriad Series phones, you can upload multiple contacts by a contact file at the same time.

The following table lists the parameters you can use to upload the local contact files and resources.

Parameter	LocalContactUploadUrl	config.xml
Description	It configures the access URL of the local contact file (*.xml).	
Permitted Values	URL within 511 characters	
Default	Blank	

6.1.3 Add Contacts Using a Contact File

The following example shows the configuration for customizing a local contact file.

Customize the contact file "contact.xml" and place the contact file "contact.xml" to the provisioning server <u>http://192.168.10.25</u>.

Example:

<setting id="LocalContactUploadUrl" value="http://192.168.10.25/directory.xml" override="true"/>

During auto provisioning, the IP phone connects to the provisioning server "192.168.10.25" and downloads the local contact file "directory.xml". You can view the contacts on the phone and specify the avatar for a contact.

The following images show the added contact Lily wang with the corresponding avatar displayed on the phone screen:

Local Directory	Ad	Mobile:				
Group(0)	Avatar:	•	Other:			
wang Lily 4504	First name:	Lily	Account:		Account 1	
	Last name:	wang	Group:		All Contacts	
Back AddGrp Add Enter	Office:	4504	Back	Bkspc	123	Save

6.2 Lightweight Directory Access Protocol (LDAP)

LDAP is an application protocol for accessing and maintaining information services for the distributed directory over an IP network. You can configure the IP phones to interface with a corporate directory server that supports LDAP version 2 or 3. The following LDAP servers are supported:

- Microsoft Active Directory
- Sun ONE Directory Server
- Open LDAP Directory Server
- Microsoft Active Directory Application Mode (ADAM)

6.2.1 LDAP Attributes

The following table lists the most common attributes used to configure the LDAP lookup on IP phones.

Abbreviation	Name	Description	
gn	givenName	First name	
cn	commonName	LDAP attribute is made up from given name	
CIT	commoniante	joined to surname.	
sn	surname	Last name or family name	
dn	distinguishedName	Unique identifier for each entry	
dc	dc	Domain component	
-	company	Office phone number	
-	telephoneNumber	Company or organization name	
mobile	mobilephoneNumber	Mobile or cellular phone number	
ipPhone	IPphoneNumber	Home phone number	

6.2.2 LDAP Configuration

The following table lists the parameters you can use to configure LDAP.

Parameter	LdapEnable	config.xml
Description	It enables or disables the LDAP feature on the IP phone.	



Permitted	false - disable				
Values	true - enable				
Default	false				
Web UI	Contact Manager \rightarrow LDAP \rightarrow LDAP Enable				
Parameter	LdapServerUrl	config.xml			
Description	It configures the LDAP Server URL.				
Permitted Values	URL within 511 characters				
Default	Blank				
Web UI	Contact Manager \rightarrow LDAP \rightarrow LDAP Server URL				
Parameter	LdapSearchBase	config.xml			
Description	It configures the LDAP base DN used for searching.				
Permitted Values	String within 99 characters				
Default	o=Alcatel,o=directoryRoot				
Web UI	Contact Manager \rightarrow LDAP \rightarrow LDAP Search Base				
Parameter	LdapFieldsMapping	config.xml			
Description	It configures LDAP Fields Mapping.				
Default	{"firstname":"givenname", "name":"sn", "officephone":"telephonenumber"}				
	String within 99 characters				
Permitted Values	Support key: sn; telephoneNumber; givenName; mobileNumber; firstname; name; officephone; department;title. Can customize the mapping using the above key.	otherNumber;			
Permitted Values Web UI	Support key: sn; telephoneNumber; givenName; mobileNumber; firstname; name; officephone; department;title. Can customize the mapping using the above key. Contact Manager \rightarrow LDAP \rightarrow LDAP Fields Mapping	otherNumber;			
Permitted Values Web UI Parameter	Support key: sn; telephoneNumber; givenName; mobileNumber; firstname; name; officephone; department;title. Can customize the mapping using the above key. Contact Manager \rightarrow LDAP \rightarrow LDAP Fields Mapping LdapFilter	otherNumber; config.xml			
Permitted Values Web UI Parameter Description	Support key: sn; telephoneNumber; givenName; mobileNumber; firstname; name; officephone; department;title. Can customize the mapping using the above key. Contact Manager \rightarrow LDAP \rightarrow LDAP Fields Mapping LdapFilter It configures LDAP searching rules.	otherNumber; config.xml			
Permitted Values Web UI Parameter Description Permitted Values	Support key: sn; telephoneNumber; givenName; mobileNumber; firstname; name; officephone; department;title. Can customize the mapping using the above key. Contact Manager \rightarrow LDAP \rightarrow LDAP Fields Mapping LdapFilter It configures LDAP searching rules. String within 99 characters	otherNumber; config.xml			
Permitted Values Web UI Parameter Description Permitted Values Default	Support key: sn; telephoneNumber; givenName; mobileNumber; firstname; name; officephone; department;title. Can customize the mapping using the above key. Contact Manager \rightarrow LDAP \rightarrow LDAP Fields Mapping LdapFilter It configures LDAP searching rules. String within 99 characters ((givenName=*%1*)(sn=*%1*))	otherNumber; config.xml			
Permitted Values Web UI Parameter Description Permitted Values Default Web UI	Support key: sn; telephoneNumber; givenName; mobileNumber; firstname; name; officephone; department;title. Can customize the mapping using the above key. Contact Manager \rightarrow LDAP \rightarrow LDAP Fields Mapping LdapFilter It configures LDAP searching rules. String within 99 characters ((givenName=*%1*)(sn=*%1*)) Contact Manager \rightarrow LDAP \rightarrow LDAP Filter	otherNumber; config.xml			



Description	This login is used in conjunction with the password if the LDAP server requires authentication.				
Permitted Values	String within 99 characters				
Default	Blank				
Web UI	Contact Manager \rightarrow LDAP \rightarrow LDAP User Name	_			
Parameter	LdapPassword	config.xml			
Description	This password is used in conjunction with the LDAP login, if the LI authentication.	DAP server requires			
Permitted Values	String within 99 characters				
Default	Blank				
Web UI	Contact Manager \rightarrow LDAP \rightarrow LDAP Password	_			
Parameter	LdapSearchTimeout	config.xml			
Description	It configures the LDAP search timeout.				
Permitted Values	NUMERIC[1,30]				
Default	5				
Web UI	Contact Manager \rightarrow LDAP \rightarrow LDAP Search Timeout (1-30s)				
Parameter	LdapConnectionTimeout	config.xml			
Description	It configures the LDAP connection timeout.				
Permitted Values	NUMERIC[1,30]				
Default	3				
Web UI	Contact Manager \rightarrow LDAP \rightarrow LDAP Connection Timeout (1-30s)				
Parameter	LdapMaxHits	config.xml			
Description	It configures the maximum matched number of LDAP query.				
Permitted Values	NUMERIC [1,1000]				
Default	50				
Web UI	Contact Manager \rightarrow LDAP \rightarrow LDAP Max Hits (1-1000)				
	LdapCallOuervEnable config.xml				
Parameter	LdapCallQueryEnable	config.xml			



Permitted	false - disable					
Values	true - enable					
Default	false					
Web UI	Contact Manager \rightarrow LDAP \rightarrow LDAP Call Query Enable					
Parameter	LdapExtraDisplay	config.xml				
	Configure additional LDAP attributes to be displayed on the conv	ersation.				
- • ··	After the configuration, additional properties are displayed after the name of the call screen and call screen.					
Description	Support key: sn; telephoneNumber; givenName; mobileNumber; otherNumber; firstname; name; officephone; department;title.					
	Note: If you want to configure more parameters,you need user ",	".				
Permitted Values	String within 126 characters					
Default	Blank					
Web UI	NA					
Parameter	LdapFieldsMapping	config.xml				
	It configures additional LDAP attributes to be displayed on the po	wer module page.				
Description	It configures multiple attributes separated by commas (,), such as title.	department and				
	It configuration, additional properties are displayed after the nam and the name of the call screen. The display sequence is based or value.	ne of the call screen In the configured				
Permitted Values	String within 126 characters.					
Default	BLANK					

6.2.3 LDAP Number

LDAP feature has been optimized and the optimization is aimed at adding softkeys "Detail" and "Option" in phone MMI and displaying up to 15 numbers for each contact on the server. There are three types of number attributes for each contact, i.e. Office number, Mobile number, and home number. For each attribute, MMI can display up to 5 numbers.

The image below shows the display of an LDAP number which has multiple numbers for each attribute.



	Search			Detail			Detail				
				Name:				Office 4:		10004	
Ohuar	Phuangxr 78901234567		1234567	Office 1:	1	10001		Office 5:		10005	
Imy 10001		10001	Office 2:	1	10002		Mobile 1:		20001		
you10 3356		3356	Office 3:	1	10003	_	Mobile 2:		20002		
Back	Call	Detail	Option	Back				Back			Call
	De	tail		ſ	De	etail	9				
Mobile 3:		20003		Home 2:		30002					
Mobile 4:		20004		Home 3:		30003					
Mobile 5:		20005		Home 4:		30004					
Home 1:		30001		Home 5:		30005					
Back			Call	Back		6	Call	1			

When adding a contact from LDAP to Local contacts, Blacklists or Favorites, the number can be added to office, mobile or other options. Press Switch or Left/Right key on the "Add to xxx" page to select numbers.

6	Add to Contacts				Add to Contacts				
Avatar:		8)	Mobile:		2	0001		<>
First name	e:			Other:		3	0001		<>
Last name	name: Imy			Account: A		A	Account 1		<>
Office:	1	0001	<>	Group:	_	All Contacts			<>
Back		Switch	Save	Back			Switch	Sav	/e

6.2.4 LDAP custom call display policy

Scenario:

Employee: ALETEST1; number 10012; Position: Test Engineer.

Default behavior and optimization behavior (LdapExtraDisplay set as title)

T10014	1/1 Conversation		T10014	1/1 Conversation	
L T10014			📞 T10014		
	(~)			(^)	
	HD			**	
	ALETEST4			ALETEST4 TestEngineer	
	10012		•••	10012	
	00:03	1234		00:32	1234
Hold	Transfer Conf	End	Hold	Transfer Conf	End

6.3 External Directory

After a cellphone is paired with a desktop phone via Bluetooth, for the M7 phone, the contacts in cellphone will be synchronized to desktop phone automatically. For the M8 phone, users could choose

synchronizing of contacts or not. In addition, manual synchronizing of contacts is also supported after a cellphone has been paired. After synchronizing contacts automatically or manually, all the contacts from the cellphone are grouped into a special group named "External Directory".

This feature is supported by the M7/M8 phones.

During pairing with cellphone process, the M7 phone screens will be displayed as follows:

- 1. When the deskphone is pairing with a cellphone, the cellphone will prompt you whether to enable contact synchronization rights. If agreed, the desktop phone will synchronize contacts automatically. If not, the phone won't synchronize contacts after being paired.
 - Synchronizing automatically



Synchronizing manually

	Galax	y S10		Paired Bluetooth Device			
Sync BT (Contacts			😳 Gala	xy S10	90:63:3B	AA:1E:AE
				Synchro	onizing con	itacts is on	going
Back			Enter	Back	Scan	Delete	More

2. Synchronizing is ongoing.



3. Synchronizing is done.



Paired Bluetooth Device						
🎭 Galaxy S10 90:63:3B:AA:1E:AE						
Enter	Detail	Delete all	More			

4. Special directory group "External Directory" for cellphone.

Directory						
Local Directory						
External [lirectory					
Back		Search	Enter			

5. Contacts display in group "External Directory".

External Directory							
790	03	79003					
() 791:	3aa	7913					
791	5aa	7915					
🕑 ASB		02136054	4510				
Back	Call	Delete	More				

During pairing with cellphone process, the M8 phone could accept or reject synchronizing of contacts.



For M8, after pairing process, user can go into the below phone UI to enable or disable synchronizing BT contacts, select the paired cellphone, press detail, and then enable/disable sync BT contacts.

 $\mathsf{Menu} \rightarrow \mathsf{Basic} \ \mathsf{Setting} \rightarrow \mathsf{Bluetooth} \rightarrow \mathsf{Paired} \ \mathsf{Bluetooth} \ \mathsf{Device}$



Ga	laxy S10				
Name:	Galaxy S10				
MAC	24:5a:b5:0f:90:db				
Sync BT contacts Enabled 🔇					
Sync BT contacts	Enabled <>				
Back	Switch	Save			

6.4 Directory Search Settings

The feature is implemented as follows:

- If the first character is digit, the IP phone will search whether phoneNumber1/phoneNumber2/phoneNumber3/firstName/lastName contain/start with the entered character(s).
- If the first character is not digit, the IP phone will search whether firstName/lastName contain/start with the entered character(s).

The following table lists the parameters you can use to configure directory search settings.

Parameter	SettingDirectorySearchType config.xml			
Description	It configures the search type when searching the contact in Local Directory or Remote Phone Book.			
Permitted Values	0 - contains 1 - startwith			
Default	0			

6.5 Remote Phone Book

The remote phone book is a centrally maintained phone book, stored on the remote server. Users only need to configure the access URL of the remote phone book. The IP phone can establish a connection with the remote server and download the phone book, and then display the remote phone book entries on the phone. The ALE Myriad Series IP phones support up to 6 remote phone book groups.

The following table lists the parameters you can use to configure the remote phone book.

Parameter	RemotePhoneBookEnable config.xml			
Description	It configures whether to enable or disable the remote phone boo	k feature.		
Permitted Values	false - disable true - enable			
Default	false			
Web UI	Contact Manager \rightarrow Remote Phone Book \rightarrow RemotePB Enable			

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Parameter	RemotePhoneBookForceUpdateMode config.xml			
Description	It configures whether to enable or disable the forced update mod	le.		
Permitted	0 - disable the forced update mode			
Values	1 - enable the forced update mode			
Default	0			
Parameter	RemotePhoneBookPeriodUpdateEnable config.xml			
Description	It configures whether to enable or disable the periodic update mo	ode.		
Permitted	false - disable			
Values	true - enable			
Default	false			
Web UI	Contact Manager \rightarrow Remote Phone Book \rightarrow Periodically Update E	nable		
Parameter	RemotePhoneBookInterval	config.xml		
Description	It configures the update interval.			
Permitted Values	Numeric [60 – 3600]			
Default	3600			
Web UI	Contact Manager \rightarrow Remote Phone Book \rightarrow Periodically Update Interval (Seconds)			
Parameter	RemotePhoneBookXGroupName config.xml			
Description	It configures the name of the specific group remote phone book. If set, it is displayed on MMI. X can be 1~6.			
Permitted Values	Strings			
Default	Blank			
Phone UI	Directory \rightarrow Remote Directory			
Web UI	Contact Manager \rightarrow Remote Phone Book \rightarrow Display Name			
Parameter	RemotePhoneBookXUrl	config.xml		
Description	It configures the download address of the specific group of remo	te phone books.		
Description	X can be 1~6.			
Permitted Values	Strings			
Default	Blank			
Web UI	Contact Manager \rightarrow Remote Phone Book \rightarrow Remote Phone Book	URL		
Parameter	RemotePhoneBookXAuthName config.xml			



Description	It configures the authenticated account of remote phone book. X can be 1~6.				
Permitted Values	Strings				
Default	Blank				
Parameter	RemotePhoneBookXAuthPwd config.xml				
Description	It configures the authentication password of remote phone book. X can be 1~6.				
Permitted Values	Strings				
Default	Blank				

6.6 Contact Backup

The IP phone will automatically upload contact files at regular intervals to the provisioning server or a specific server. If the contact file exists on the server, it will be overwritten. The IP phone will request to download the contact <MAC> file according to its MAC address from the server during auto provisioning.

The following table	lists the parameters	you can use to bacl	k up the local contacts.
---------------------	----------------------	---------------------	--------------------------

Parameter	DeviceBackupUploadTime config.xml				
Description	It configures the interval time between uploading a backup file.				
Permitted Values	Numeric [60 - 3600]				
Default	3600				
Parameter	DeviceBackupUrl	config.xml			
Description	It configures the URL which is used to upload and download t	It configures the URL which is used to upload and download the backup file.			
Permitted Values	Strings				
Default	Blank				
Parameter	DeviceBackupUploadMethod	config.xml			
Description	It configures the way to upload files (post/put).				
Permitted Values	0 - put 1 - post				
Default	0				
Parameter	DeviceContactBackupEnable	config.xml			



Description	It configures whether to enable or disable contactBackup.		
Permitted Values	false - disable true - enable		
Default	false		

6.7 Blacklist

When the user never wants to receive calls from somebody, the phone number can be added into the blacklist of directory. Then all calls from this phone number which is included in the blacklist will be refused automatically.

On the phone, go to the directory via path: Menu \rightarrow Directory \rightarrow Blacklist, and then press "Add" key to add one contact in Blacklist.

Directory			Blacklist					Add Contact					
Local Directory			123456 1		123456			Avatar:		8			
Blacklist				~	1911	16	19116			First nan	ne:		
External D	irectory				🕑 ltft		123580			Last nam	ie:		
2										Office:			
Back		Search	Enter	Ì	Back	Call	Add	More	Ì	Back		Switch	Save

6.8 Directory List for Directory/Dir Soft Key

Users can access frequently used directory lists by pressing the Directory/Dir soft key when the IP phone is idle. The lists include Local Directory by default.

You can add the desired lists to the directory list using a config file (config.xml) or the Web UI.

The following table lists the parameters you can use to configure the directory list.

Parameter	DirectoryList	config.xml	
Description	It configures directory list display contents by pressing the Directory/Dir softkey. If RemotePhoneBookEnable is false, Remote Phone Book will not be displayed. If LdapEnable is false, LDAP will not be displayed. If SettingBluetoothEnable is false, External Directory will not be displayed. Example: DirectoryList = 0;1;2, RemotePhoneBookEnable = true, LdapEnable = true. Local Directory, Remote Phone Book and LDAP will be displayed when pressing the Directory/Dir soft key		
Permitted Values	0 - Local Directory 1 - Remote Phone Book 2 - LDAP 3 - Blacklist 4 - Favorites 5 - External Directory		

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	6 - Network Contacts
Default	0
Web UI	Contact Manager \rightarrow Settings \rightarrow Directory List

6.9 Favorite Contacts

User can mark local contacts as favorite contacts when this feature enabled. The favorite contacts will be stored in the Favorites directory and the phone will automatically assign Speed Dial keys for these favorite contacts.

The following images show three favorite contacts:

In the Favorites directory:

Favorites						
	hen K	1560	1753722			
OTom			79001			
Ovivia	n Jia	11116933721				
Back	Call	Add	Option			

On the idle screen:



6.9.1 Favorites Configuration

The following table lists the parameters you can use to configure the favorites.

Parameter	DirectoryFavoriteMode	config.xml	
Description	It enables or disables generating speed dial key for favorite contact automatically.		
Permitted	0 - Not generate speed dial key for favorite contact automatically		
Values	1 - Generate speed dial key for favorite contact automatically		
Default	0		



6.10 History List Display in Web UI

On the Web UI the user can check the call history of the phone via path: Contact Manager \rightarrow History.

Alcatel·Lucent 🐠	Web Based Management M5					se change! English Logout (්)
Ξ	History					NOTES
HotLine	History					It records all the phone calls of the device and can be filtered according to
ACD				All C	Calls ~	different rules.
Sip	Date	Time	Local Identity	Name	Number	
Action URL	1 😻 Thursday, May 13	10:45 AM	Account 1	30.1.201.63	30.1.201.63	
Remote Control						
Contact Manager ^	2 🥲 Thursday, May 13	3:00 AM	Account 1	30.1.201.64	30.1.201.64	
Local Directory		Total 2	10/page v Previou:	s Page 1 Nex	t Page Go to 1	
LDAP						
Remote Phone Book						
History						



7. Audio Features

This chapter describes the audio sound quality features and options you can configure for the IP phone.

7.1 Dial Tone

You can configure whether to enable or disable the dialing tone.

7.1.1 Dialing Tone Configuration

The following table lists the parameters you can use to enable or disable the dialing tone.

Parameter	FeatureDialingToneEnable	config.xml	
Description	It enables or disables the dialing tone.		
Permitted Values	false - disable true - enable		
Default	true		
Web UI	Features \rightarrow General \rightarrow Dialing Tone Enable		

7.2 Stutter Tone

The phone can play a specific dial tone when it has new/unread voice messages received.

Parameter	SettingStutterEnable	config.xml
Description	It enables or disables the stutter tone.	
Permitted Values	false - disable true - enable	
Default	true	
Web UI	Features \rightarrow General \rightarrow Stutter Tone Enable	

7.3 Ring Tones

Ring tones are used to play for internal/external incoming calls. You can select a built-in ring tone for the phone system or specific account registration. To set the custom ring tones, you need to upload the custom ring tones to the IP phone in advance.

You can also specify a period of time after which the IP phone will stop ringing if the call is not answered.

7.3.1 Custom Ringtone Limit

Phone Model	Format Single File Size		Note
M3/M5/M7/M8/H3P/H3G/H6	Wav, zip	Wav file 200kb, zip file 1.2M	

7.3.2 Ringtone Configuration

The following table lists the parameters you can use to configure the ringtone.

ALE Myriad and Halo Series DeskPhone Administrator Guide



Parameter	SettingRingInternal	config.xml	
Description	It configures internal call ring melody.		
Permitted Values	String (within 511 Characters)		
Default	Cold River		
Web UI	Setting \rightarrow Ringing \rightarrow Internal Melody		
Phone UI	Basic Setting → Sound → Ringing → Int Melody		
Parameter	SettingRingExternal	config.xml	
Description	It configures external call ring melody.		
Permitted Values	String (within 511 Characters)		
Default	Cold River		
Web UI	Setting \rightarrow Ringing \rightarrow External Melody		
Phone UI	Basic Setting \rightarrow Sound \rightarrow Ringing \rightarrow Ext Melody		
Parameter	SettingRingProgressive	config.xml	
Description	It configures ring progressive (only 0, 2 supported).		
Permitted	0 - NoProgressive		
Values	1 - NormalProgressive		
Default	0		
Web UI	Setting \rightarrow Ringing \rightarrow Progressive Ringing		
Phone UI	Basic Setting → Sound → Ringing → Ring mode → Progressive Ring	nging	
Parameter	SettingRingSilentEnable	config.xml	
Description	It enables or disables ring silent mode.		
Permitted	false - disable		
Values	true - enable		
Default	false		
Web UI	Setting \rightarrow Ringing \rightarrow Silent Mode		
Phone UI	Basic Setting → Sound → Ringing → Ring mode → Silent mode		
Parameter	SettingRingBeep config.xml		
Description	It configures ring beep (only support 0, 1, 3).		
Permitted Values	0 - BeepNone 1 - BeepSingle		



	2 - BeepDouble		
	3 - BeepTriple		
Default	0		
Web UI	Setting \rightarrow Ringing \rightarrow Beeps Before Ringing		
Phone UI	Basic Setting \rightarrow Sound \rightarrow Ringing \rightarrow Beep		
Parameter	SettingRingtoneUploadUrl	config.xml	
Description	It configures the URL that phone can download the custom ringtone.		
Permitted Values	String (within 511 Characters)		
Default	Blank		
Web UI	Settings \rightarrow Ringing \rightarrow Custom Melody		
Parameter	SettingRingtoneDelete	config.xml	
Description	It configures the name of the custom ringtone that to be deleted.		
Permitted	/all - delete all customized ringtones		
Values	Text – delete specific ringtone		
Default	Blank		
Web UI	Settings \rightarrow Ringing \rightarrow Custom Melody		

7.3.3 Custom Ringtone

This feature allows users to upload and delete the custom ringtone(s) to the phone. Users can upload and delete customized ringtone(s) through the config file or Web UI for the phone.

Upload/Delete custom ringtone(s) by config file:
 <setting id="SettingRingtoneUploadUrl " value="http://x.x.x.x/xxx.wav" override="true"/><setting id="SettingRingtoneDelete" value="" override="true"/>

When uploading ringtone(s) by config file, .wav and .zip file can be supported. To upload a .wav ring file, the file size should be less than 200kb, and the upper limit is 5 ringtones. The zip file should not exceed 1.2M, and the phone will ignore the file when the size is more than 1.2M. If there are more than 5 ringtones, the phone will only save the first 5 ringtones.

When deleting a ringtone by config file you can either enter the ringtone name to delete the customized ringtone from the phone or enter "/all" to delete all customized ringtones.

• Upload/Delete custom ringtone(s) through WEB:

Login in the phone web interface, go to Settings \rightarrow Ringing \rightarrow Custom Melody:

	Web Based	l Management M5			
Ξ		Ringing			
 Status 	~	Ringing			
🗟 Account	~	Ring Device:	Handsfree \vee	0	
Network	~	Progressive Ringing:	Normal Ring 🗸	0	
Provision	~	Internal Melody:	Cold River \vee	0	
🚰 Phone Keys	~	External Melody:	Cold River \checkmark	0	
🔅 Settings	~	Custom Melody:	V Upload Delete	0	
Time&Date		Beeps Before Ringing:	No Beep ~	0	
Call Display		Silent Mode:			
Audio		Internal Ring Text1#:		0	
Display		Internal Ring File1#:	Cold River ~	0	
Ringing		Internal Ring Text2#:		0	

Buttons "Upload" and "Delete" can be used to upload or delete ringtone(s), only wav file is supported on WBM, and the upper limit is also 5 ringtones.

7.4 Distinctive Ring Tones

The feature of distinctive ring tones allows certain incoming calls to trigger IP phones to play distinctive ring tones. The IP phone inspects the INVITE request for an "Alert-Info" header when receiving an incoming call. If the INVITE request contains an "Alert-Info" header, the IP phone strips out the URL or keyword parameter and maps it to the appropriate ring tone.

7.4.1 Supported Alert-Info Headers Format

The Desktop phone supports four types of alert-info message header fields: Bellcore-drN, ringtone-N (or MyMelodyN), and info=info text; x-line-id=0.

Note: If the Alert-Info header contains multiple types of keywords, the IP phone will process the keywords in the following order:

<urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr><urr</ti><urr</ti><urr</ti><urr<urr</ti><urr<urr<urr<urr<urr<urr<urr<urr<urr<urr<urr<urr<urr<urr<urr<urr</ur>

When desktop phone receives an INVITE message with Alert-info (Alert-info: internal/external), the phone will play a preset ringtone.

Parameter	SettingRingerTextX	config.xml
Description	It configures internal ringer text X. The X can be 1-10.	
Permitted Values	Strings	
Default	Blank	

The following table lists the parameters you can use to configure the ringtone.



Web UI	Setting \rightarrow Ringing \rightarrow Internal Ring TextX		
Parameter	SettingRingerFileX config.xml		
Description	It configures internal call ring melody X. The X can be 1-10.		
	Cold river		
	Disco		
	Neture		
	Street dance		
	Xylofun		
	Sunrise		
	Doing Doing		
Permitted	Baby piano		
Values	Transatlantic		
	Moon Light		
	Submarine		
	Classic		
	Jazzy		
	Party		
	Zen		
	Orchid		
Default	Blank		
Web UI	Setting \rightarrow Ringing \rightarrow Internal Ring FileX		

You can configure the distinctive ring tones via the phone's Web UI.

Configuration as shown below:

When receiving an INVITE Message with Alert-info (Alert-Info: <http://127.0.0.1>; info=internal), the phone will play the "Doing Doing" ringtone.

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Alcatel-Lucent 🕢 Web Base		Web Based Ma	nagement M5		
	☲	Ring	ing		
 Status 	~	Ring	jing		
🗟 Account	~	Ring	j Device:	Handsfree ~	0
Wetwork	~	Proţ	gressive Ringing:	Normal Ring 🗸 🗸	0
Provision	~	Inte	rnal Melody:	Cold River 🗸	0
🚰 Phone Keys	~	Exte	ernal Melody:	Cold River V	0
🗱 Settings	^	Cus	tom Melody:	✓	0
Time&Date		Вее	ps Before Ringing:	No Beep	0
Call Display		Sile	nt Mode:		
Audio		Inter	rnal Ring Text1#:	internal	0
Display		Inter	rnal Ring File1#:	Doing Doing V	0
Ringing		Inter	- rnal Ring Text2#:		0
Dialing Rule		Inte	rnal Ring File?#	Cold River	٩
Dhana kask		inte.			

7.4.1.1 Alert-Info: Bellcore-drN

When the Alter-Info header contains the keyword "Bellcore-drN", the IP phone will play the desired ring tone.

The following table identifies the corresponding ring tone:

Value of N	Ring Tone (features.alert_info_tone = 1)	Ring Tone (features.alert_info_tone = 0)
0	Bellcore-dr0	ring00
1	Bellcore-dr1	ring01
2	Bellcore-dr2	ring02
3	Bellcore-dr3	ring03
4	Bellcore-dr4	ring04
5	Bellcore-dr5	ring05
6	Bellcore-dr6	ring06
7	Bellcore-dr7	ring07
8	Bellcore-dr8	ring08
9	Bellcore-dr9	ring09
10	Bellcore-dr10	ring10

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11	Bellcore-dr11	ring11
12	Bellcore-dr12	ring12
13	Bellcore-dr13	ring13
14	Bellcore-dr14	ring14
N<1 or N>15		ring00

Examples:

Alert-Info: test/Bellcore-dr1 Alert-Info: Bellcore-dr1 Alert-Info: Bellcore-dr1;x-line-id=1

7.4.1.2 Alert-Info: Ringtone

When the Alter-Info header contains the keyword "ringtone-N/ringtone-RingN" or "MyMolodyN/MyMelodyRingN", the IP phone will play the corresponding local ring tone (RingN.wav) or play the first local ring tone (Ring1.wav) in about 10 seconds if "N" is greater than 15 or less than 1.

Examples:

Alert-Info: ringtone-2 Alert-Info: ringtone-Ring2.wav Alert-Info: ringtone-2;x-line-id=1 Alert-Info: MyMelody2 Alert-Info: MyMelodyRing2.wav Alert-Info: MyMelody2;x-line-id=1

The following table identifies the corresponding local ring tone:

Value of N	Ring Tone
0	ring00
1	ring01
2	ring02
3	ring03
4	ring04
5	ring05
6	ring06
7	ring07
8	ring08
9	ring09

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10	ring10
11	ring11
12	ring12
13	ring13
14	ring14
N<1 or N>15	ring00

7.4.1.3 Alert-Info: info=info text; x-line-id=0

When the Alert-Info header contains an info text, the IP phone will map the text with the Internal Ringer Text preconfigured on the IP phone, and then play the ring tone associated with the Internal Ringer Text (the ring tone can be configured by the parameter). If there are no internal ringer text maps, the IP phone will play the preconfigured local ring tone in about 10 seconds.

Example:

Alert-Info: info=family; x-line-id=0

7.4.1.4 Alert Info for Auto Answer

If the INVITE request contains the following type of strings, the IP phone will answer incoming calls automatically without playing the ring tone:

- Answer-Mode: Auto
- Alert-Info: info = alert-autoanswer
- Call-Info: answer-after = 0 (or Call-Info: Answer-After = 0)

7.5 Ringer Device

IP phones support ringing from speaker or headset or both. You can configure which ringer device to be used when receiving an incoming call.

For example, if the ringer device is configured on speaker, the ring tone will be played through loudspeaker.

If the ringer device is configured on headset or Headset & Speaker, the headset should be connected to the IP phone and the Headset mode also should be activated in advance.

The following table lists the parameters you can use to configure ringer device.

Parameter	SettingRingDevice	config.xml		
Description	It configures Audio Ring Device.			
Permitted Values	0 - handsfree 1 - Headset 2 - handsfree_plus_Headset			
Default	0			
Web UI	Setting \rightarrow Ringing \rightarrow Ring Device			

Phone UI Basic Setting \rightarrow Sound \rightarrow Ringing \rightarrow Ring Device

7.6 Tones

When receiving a message, the IP phone will play a warning tone. You can customize tones or select specialized tone phones (varying from country to country) to indicate the different status of the IP phone.

7.6.1 Supported Country Tones

The default country tone is UK. Available list as follows:

- UK
- France
- Germany
- Italy
- Spain
- Dutch
- Portugal
- Canada
- US
- Hungary
- Czec
- Slovakia
- Slovenia
- Estonia
- Poland
- Lithuania
- Latvia
- Turkey
- Greece
- Russia
- China (Mainland)
- China (Hongkong)
- China (Taiwan)
- Thailand
- Korea
- Japan

7.6.2 Tones Configuration

The following table lists the parameters you can use to configure tones.

Parameter	SettingCountryTone	config.xml
Description	It configures country standard for call progress tone.	
Permitted Values	0 - UK 1 - France	



	2 - Germany
	3 - Italy
	4 - Spain
	5 - Dutch
	6 - Portugal
	7 - Canada
	8 - US
	9 - Hungary
	10 - Czec
	11 - Slovakia
	12 - Slovenia
	13 - Estonia
	14 - Poland
	15 - Lithuania
	16 - Latvia
	17 - Turkey
	18 - Greece
	19 - Russia
	20 – China (Mainland)
	21 – China (Hongkong)
	22 – China (Taiwan)
	23 - Thailand
	24 - Korea
	25 – Japan
	99 - Custom
Default	0

7.6.3 Custom tone Configuration

Although we have prefabricated a complete set of audio configuration options for different regions, you may want to customize your own audio to be more local, such as different frequencies, different duration, custom customer audio is a good way to meet this requirement.

Custom Tone example:

Tone = Freq/Duration[;Freq/Duration][; Freq/Duration]... Freq = Freq1[+Freq2][+Freq3][+Freq4]

Description:

Freq/Duration indicates a group of frequencies. A Tone can contain a maximum of eight frequencies.
 A group of frequencies supports the juxtaposition of a maximum of two frequencies.

3. Freq ranges from 200 to 4000 Hz, Duration ranges from 0 to 30000ms; Freq=0 indicates that the mute Duration is not played. You can set the mute duration by 0/Duration.

4. Setting example: SettingDialTone = 200/1000; 0/1000; 200+2000/1000: After the Dial Tone is triggered, the frequency of 200Hz is played for 1s, and then the frequency of 200Hz and 2000Hz is muted for 1s, and then the two frequencies are played for 1s at the same time.

5. Special value description:



a. Freq without /Duration indicates the frequency of the group. For example, 200/1000; 300 means that the frequency of 200Hz is played for 1s, and then the frequency of 300Hz is played all the way. b. Tone with "!" It is played only once. For example: ! 200/1000; 0/1000; 200+300/1000, which means to play 1s at 200Hz, then mute 1s, then play 1s at both 200Hz and 300Hz, and then end Tone play. WEB interface: Path: Setting-Audio

Tone		
Tone		
Select Country:	Custom	~ @
Dial:		0
Ring Back:		0
Busy:		0
Call Waiting:		0
Auto Answer:		0
Hold:		0
Stutter:		0
	Submit	

Tones Configuration

The following table lists the parameters you can use to configure tones.

Parameter	SettingDialTone	config.xml
Description	Configure dial tone.	
Permitted Values	String within 511 characters. Invalid value does not take effect.	
Default	Blank	
Parameter	SettingSecondaryDialTone	config.xml
Description	Configure secondary dial tone.	



Permitted	String within 511 characters.	
Values	Invalid value does not take effect.	
Default	Blank	
Parameter	SettingRingBackTone	config.xml
Description	Configure ring back tone.	
Permitted	String within 511 characters.	
Values	Invalid value does not take effect.	
Default	Blank	
Parameter	SettingBusyTone	config.xml
Description	Configure ring back tone.	
Permitted	String within 511 characters.	
Values	Invalid value does not take effect.	
Default	Blank	
Parameter	SettingCongestionTone	config.xml
Description	Configure congestion tone.	
Permitted	String within 511 characters.	
Values	Invalid value does not take effect.	
Default	Blank	
Parameter	SettingCallWaitingTone	config.xml
Description	Configure call waiting tone.	
Permitted	String within 511 characters.	
Values	Invalid value does not take effect.	
Default	Blank	
Parameter	SettingRecallDialTone	config.xml
Description	Configure recall dial tone.	
Permitted	String within 511 characters.	
Values	Invalid value does not take effect.	
Default	Blank	
Parameter	SettingStutterTone	config.xml
Description	Configure stutter tone.	
Permitted	String within 511 characters.	
Values	Invalid value does not take effect.	



Default	Blank	
Parameter	SettingAutoAnswerTone	config.xml
Description	Configure auto answer tone.	
Permitted	String within 511 characters.	
Values	Invalid value does not take effect.	
Default	Blank	
Parameter	SettingMessageTone	config.xml
Description	Configure Message tone.	
Permitted	String within 511 characters.	
Values	Invalid value does not take effect.	
Default	Blank	
Parameter	SettingSpecialInfoTone	config.xml
Description	Configure special information tone.	
Permitted	String within 511 characters.	
Values	Invalid value does not take effect.	
Default	Blank	

7.7 Audio Codecs

Codec is an abbreviation of Compress-Decompress, capable of coding or decoding a digital data stream or signal by implementing an algorithm. The object of the algorithm is to represent the highfidelity audio signal with a minimum number of bits while retaining the quality. This can effectively reduce the frame size and the bandwidth required for audio transmission.

The audio codec that the phone uses to establish a call should be supported by the SIP server. When placing a call, the IP phone will offer the enabled audio codec list to the server and then use the audio codec negotiated with the called party according to the priority.

7.7.1 Supported Audio Codecs

The following table summarizes the supported audio codecs on IP phones:

Codec	Algorithm	Reference	Bit Rate	Sample Rate	Packetization Time
G722	G722	RFC 3551	64 Kbps	16 Ksps	20ms
PCMA	PCMA G.711 a-law	RFC 3551	64 Kbps	16 Ksps	20ms
PCMU	G.711 u-law	RFC 3551	64 Kbps	16 Ksps	20ms
G729	G729	RFC 3551	8 Kbps	16 Ksps	20ms



iLBC_15_	2kbps	iLBC	RFC 3952	15.2 Kbps	8 Ksps	20ms
iLBC_13_	33kbps	iLBC	RFC 3952	13.33 Kbps	8 Ksps	30ms
				8-12 Kbps	8 Ksps	
opus		opus	RFC 6716	28-40 Kbps	16 Ksps	20ms
				64-128 Kbps	48 Ksps	
G726-16		G726-16	RFC 3351	16 Kbps	16 Kbps	20ms
G726-24		G726-24	RFC 3351	24 Kbps	24 Kbps	20ms
G726-32		G726-32	RFC 3351	32 Kbps	32 Kbps	20ms
G726-40		G726-40	RFC 3351	40 Kbps	40 Kbps	20ms

The Opus codec supports various audio bandwidths, defined as follows:

Abbreviation	Audio Bandwidth	Sample Rate (Effective)
NB (narrowband)	4 kHz	8 kHz
WB (wideband)	8 kHz	16 kHz
FB (fullband)	20 kHz	48 kHz

The following table lists the audio codecs supported by each phone model:

Phone Model	Supported Audio Codecs	Default Audio Codecs
Myriad Series	pcmu;pcma;g729AB;g722;iLBC;opus	pcmu;pcma;g729AB;g722;iLBC

7.7.2 Audio Codecs Configuration

The following table lists the parameters you can use to configure the audio codecs.

Note: X means account ID and it can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXAudioCodec	config.xml
Description	It configures the codec list which is supported by phone for accountX.	
	8 - pcma	
	0 - pcmu	
Permitted	9 - g722	
Values	18 - g729AB	
	98 - iLbc	
	125 - opus	
Default	0;8;18;9;98	
Web UI	Account \rightarrow Codec \rightarrow Audio Codec	



Parameter	AccountXOpusBandwidth	config.xml
Description	It configures OPUS bandwith for accountX.	
Permitted Values	0 - Narrow Band 1 - Wide Band 2 - Super Wide Band	
Default	1	
Web UI	Account \rightarrow Codec \rightarrow OPUS Bandwidth	
Parameter	AccountXIlbcFrameMode	config.xml
Description	It configures iLBC frame length for accountX.	
Permitted Values	20 - 20 30 - 30	
Default	30	
Web UI	Account \rightarrow Codec \rightarrow ILBC Frame Mode	

7.8 Packetization Time (PTime)

PTime is a measurement of the duration (in milliseconds) of the audio data in each RTP packet sent to the destination and defines how much network bandwidth is used for the RTP stream transfer. Before establishing a conversation, codec and ptime are negotiated through SIP signaling. The valid values of ptime range from 10 to 60, in increments of 10 milliseconds. The default ptime is 20ms.

7.8.1 Supported PTime of Audio Codec

The following table summarizes the valid values of PTime for each audio codec:

Codec	Packetization Time (Minimum)	Packetization Time (Maximum)
G722	10ms	40ms
РСМА	10ms	40ms
PCMU	10ms	40ms
G729	10ms	80ms
iLBC	20ms	30ms
iLBC_15_2kpbs	20ms, 40ms, 60ms	
iLBC_13_33kpbs	30ms, 60ms	
opus	10ms	20ms

7.8.2 PTime Configuration

The following table lists the parameters you can use to configure the PTime.



Note: X means account ID and it can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXPtime	config.xml
Description	It configures array of RTP packet interval (in ms) of 6 codecs (PCMU/PCMA/G729AB/G722/ILBC/OPUS) in sequence for certain accounts. X means account ID and can be 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.	
Permitted Values	10 20 30 40 50 60	
Default	20;20;20;20;20;20	
Web UI	Account \rightarrow Codec \rightarrow Ptime	

7.9 Early Media

The early media refers to the media played to the caller before a SIP call is established. Current implementation supports early media through the 183 messages. When the caller receives a 183 message with SDP before the call is established, a media channel is established. This channel is used to provide an early media stream for the caller.

7.10 Acoustic Clarity Technology

To optimize the audio quality of your network, the ALE Myriad Series phones support the acoustic clarity technology: Acoustic Echo Cancellation (AEC), Background Noise Suppression (BNS), Automatic Gain Control (AGC), Voice Activity Detection (VAD), Comfort Noise Generation (CNG) and jitter buffer.

7.10.1 Acoustic Echo Cancellation (AEC)

The ALE Myriad Series phones employ advanced AEC for hands-free operation. The AEC feature can remove the echo of the local loudspeaker from the local microphone without removing the near-end speech.

7.10.2 Noise Suppression

The impact noise in the room is picked-up, including paper rustling, coffee mugs, coughing, typing, and silverware striking plates. These noises, when transmitted to remote participants, can be very distracting. It is enabled on the ALE Myriad Series phones by default.

7.10.3 Background Noise Suppression (BNS)

Background noise suppression (BNS) is designed primarily for hands-free operation and reduces background noise to enhance communication in noisy environments.


7.10.4 Automatic Gain Control (AGC)

Automatic Gain Control (AGC) is applicable to the hands-free operation and is used to keep audio output at nearly a constant level by adjusting the gain of signals in some circumstances. This increases the effective user-phone radius and helps with the intelligibility of soft-talkers.

7.10.5 Voice Activity Detection (VAD)

VAD can avoid unnecessary coding or transmission of silence packets in VoIP applications, saving on computation and network bandwidth.

The following table lists the parameters you can use to configure VAD.

Note: X means account ID. It can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXVad	config.xml
Description	It enables or disables audio VAD for account.	
Permitted Values	false - disable true - enable	
Default	false	
Web UI	Account \rightarrow Codec \rightarrow VAD	

7.10.6 Comfort Noise Generation (CNG)

Comfort Noise Generation (CNG) is used to generate background noise for voice communications during periods of silence in a conversation.

7.10.7 Jitter Buffer

The ALE Myriad Series phones support fixed type of jitter buffers. A fixed jitter buffer with corresponding fixed delay to voice packets.

7.11 DTMF

DTMF (Dual Tone Multi-frequency) tone better known as touch tone. DTMF is the signal sent from the IP phone to the network, which is generated when pressing the IP phone's keypad during a call. Each key pressed on the IP phone generates one sinusoidal tone of two frequencies. One is generated from a high-frequency group and the other from a low-frequency group. Currently we support the DTMF code:0-9 * # ABCD.

Five methods of transmitting DTMF digits on SIP calls:

- RFC 2833 DTMF digits are transmitted by RTP Events compliant with RFC 2833. You can configure the payload type and sending times of the end RTP Event packet. The RTP Event packet contains 4 bytes. The 4 bytes are distributed over several fields denoted as Event, End bit, R-bit, Volume and Duration. If the End bit is set to 1, the packet contains the end of the DTMF event. You can configure the sending times of the end RTP Event packet.
- RFC 4733 The RCF 4744 is optimized based on RFC 2833 framework, it specifically differs from RFC 2833 by removing the requirement that all compliant implementations support the DTMF

events. Instead, compliant implementations taking part in out-of-band negotiations of media stream content indicate what events they support. It adds three new procedures to the RFC 2833 framework: subdivision of long events into segments, reporting of multiple events in a single packet, and the concept and reporting of state events.

- INBAND DTMF digits are transmitted in the voice band. It uses the same codec as your voice and is audible to conversation partners.
- SIP INFO DTMF digits are transmitted by SIP INFO messages. DTMF digits are transmitted by the SIP INFO messages when the voice stream is established after a successful SIP 200 OK-ACK message sequence. The SIP INFO message can transmit DTMF digits in three ways: DTMF, DTMF-Relay and Telephone-Event.
- SIP INFO + RFC 2833 DTMF digits are transmitted SIP INFO and RTP (RTP EVENT).
- SIP_INFO or RFC4733 DTMF digits are transmitted SIP INFO and RTP (RTP EVENT).

The following table lists the parameters for configuring the transmitting DTMF digit:

Note: X means account ID and it can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXDtmfMode	config.xml
Description	It configures the mode for server GroupX when sending DTMF.	
	0 - None	
	1 - InBand	
Dormittod	2 - RFC2833	
Values	3 - RFC4733	
	4 - SIP_INFO	
	5 - SIP_INFO+RFC2833	
	6 - SIP_INFO or RFC4733	
Default	2	
Web UI	Account \rightarrow Advanced \rightarrow DTMF Mode	
Parameter	SettingDtmfDuration	config.xml
Description	It configures the DTMF duration.	
	1 - 80ms	
Permitted	2 - 100ms	
Values	3 - 200ms	
	4 - 250ms	
Default	2	
Parameter	SettingDtmfFeedbackEnable	config.xml
Description	It enables or disables DTMF feedback.	

Permitted Values	false - disable true - enable	
Default	true	
Web UI	Setting \rightarrow Audio \rightarrow Enable DTMF Feedback	
Parameter	SettingDtmfLevel	config.xml
Description	It configures bias value of DTMF tone level.	
Permitted Values	[-6,6]	
Default	0	
Web UI	Setting \rightarrow Audio \rightarrow DTMF Level	

7.12 Voice Quality Monitoring (VQM)

Voice quality monitoring feature allows the IP phones to generate various quality metrics for listening quality and conversational quality. These metrics can be sent to a specific server in RTCP-XR packets. These metrics can also be sent in SIP PUBLISH messages to a central voice quality report collector.

7.12.1 RTCP-XR

The RTCP-XR mechanism, compliant with RFC 3611-RTP Control Extended Reports (RTCP XR), provides the metrics contained in RTCP-XR packets for monitoring the quality of calls. These metrics include network packet loss, delay metrics, analog metrics, and voice quality metrics.

7.12.2 VQ-RTCPXR

The VQ-RTCPXR mechanism, compliant with RFC 6035, sends the service quality metric reports contained in SIP PUBLISH messages to the central report collector.

A wide range of performance metrics are generated in the following three ways:

- Based on current values, such as jitter, jitter buffer max and round-trip delay.
- Covers the time period from the beginning of the call until the report is sent, such as network packet loss.
- Computed using other metrics as input, such as listening Mean Opinion Score (MOS-LQ) and conversational Mean Opinion Score (MOS-CQ).

The following table lists the parameters you can use to configure the Central Report Collector.

Note: X means account ID. It can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXVoIPTicketsCollector	config.xml
Description	The VoIP ticket collector name is used for publishing VoIP tickets. PUBLISH request will be sent at the end of each call.	If Blank, no
Description	Note: X means account ID. It can be number 1-8 for M3/M5/M7, 1 H3P/H3G, 1-4 for H6, 1-3 for H3P/H3G, 1-4 for H6.	-20 for M8, 1-3 for



Permitted Values	String within 128 characters
Default	Blank
Web UI	Account \rightarrow Advanced \rightarrow SIP VoIP Tickets Collector

7.13 Suppress DTMF Display

Suppress DTMF Display allows IP phones to suppress the display of DTMF digits during an active call. DTMF digits are displayed as "*" on the phone screen. Suppress DTMF Display delay defines whether to display the DTMF digits for a short period of time before displaying as "*".

The following table lists the parameters you can configure to suppress DTMF display.

Parameter	FeatureDtmfHideEnable	config.xml
Description	It enables or disables the IP phone to suppress the display of DTM active call.	1F digits during an
Permitted Values	false - disable true - enable	
Default	false	
Parameter	FeatureDtmfHideDelay	config.xml
Description	The DTMF number will be hidden after a few seconds.	
Permitted Values	[0,5]	
Default	1	



8. Multiple SIP Accounts

This chapter introduces how to configure the account settings and register to SIP server on the ALE Myriad Series phones.

8.1 Account Registration

Registering an account makes it easier for the IP phones to receive an incoming call or dial an outgoing call. The ALE Myriad Series phones support registering multiple accounts on a phone, each account requires an extension or phone number.

8.1.1 Supported Accounts

The ALE M3/M5/M7 DeskPhones support 8 accounts maximum, and M8 support 20 accounts maximum, and H3P/H3G support 3 accounts, and H6 support 4 accounts.

8.1.2 SIP Accounts Registration Configuration

The following table lists the parameters you can use to register SIP accounts:

Note: X means account ID. It can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXEnable	config.xml
Description	It enables or disables to certain account.	
Permitted Values	true- disable. false - enable	
Default	true	
Web UI	Account→Basic	
Parameter	AccountXLabel	config.xml
Description	It configures the label name.	
Permitted Values	String within 64 characters	
Default	Blank	
Web UI	Account \rightarrow Basic \rightarrow SIP Label Name	
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Accor Label Name	unt \rightarrow AccountX \rightarrow
Parameter	AccountXDisplayName	config.xml
Description	It configures the display name.	
Permitted Values	String within 64 characters	

Default	Blank	
Web UI	Account \rightarrow Basic \rightarrow Display Name	
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Accordisplay name	unt \rightarrow AccountX \rightarrow
Parameter	AccountXRegName	config.xml
Description	It configures the register name.	
Permitted Values	String within 64 characters	
Default	Blank	
Web UI	Account \rightarrow Basic \rightarrow Register Name	
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Acco Register name	unt \rightarrow AccountX \rightarrow
Parameter	AccountXPassword	config.xml
Description	It configures the register password.	
Permitted Values	String within 64 characters	
Default	Blank	
Web UI	Account \rightarrow Basic \rightarrow Password	
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Acco Password	unt \rightarrow AccountX \rightarrow
Parameter	AccountXUserName	config.xml
Description	It configures the username.	
Permitted Values	String within 64 characters	
Default	Blank	
Web UI	Account \rightarrow Basic \rightarrow Username	
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Acco Username	unt \rightarrow AccountX \rightarrow
Parameter	AccountXServer1Address	config.xml
Description	It configures the IP address or domain name of the SIP server.	
Permitted Values	String within 256 characters	

Default	Blank	
Web UI	Account \rightarrow Basic \rightarrow Sip Server	
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Account \rightarrow AccountX \rightarrow Sip server1	
Parameter	AccountXServer1Port	config.xml
Description	It configures the port of SIP server.	
Permitted Values	Integer from 0 to 65535	
Default	5060	
Web UI	Account \rightarrow Basic \rightarrow SIP Server Port	
Parameter	AccountXOutboundProxy1Address	config.xml
Description	It configures the IP address or domain name of the outbound proxy server.	
Permitted Values	String within 256 characters	
Default	Blank	
Web UI	Account \rightarrow Basic \rightarrow OutBound Proxy Address	
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Account \rightarrow AccountX \rightarrow Outbound proxy1	
Parameter	AccountXOutboundProxy1Port	config.xml
Description	It configures the port of the outbound proxy server for accoun	tX.
Permitted Values	Integer from 0 to 65535	
Default	5060	
Web UI	Account \rightarrow Basic \rightarrow OutBound Proxy Port	
Parameter	AccountXServer1Expire	config.xml
Description	It configures the registration expiration time (in seconds) of SI accountX.	P server for
Permitted Values	Integer from 60 to *	
Default	3600	
Web UI	Account \rightarrow Basic \rightarrow Register Expire Time	



8.1.3 Registration Settings Configuration

The following table lists the parameters to configure the registration settings:

Note: X means account ID. It can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXSendUserPhoneEnable	config.xml
Description	It enables or disables the IP phone to add "user=phone" to the SI INVITE message.	IP header of the
Permitted Values	false - disable true - enable	
Default	false	
Web UI	Account \rightarrow Advance \rightarrow Send User=Phone	
Parameter	AccountXServerType config.xml	
Description	It configures the type of the SIP server.	
Permitted Values	0 - Default 1 - OXE 2 - OXO 6 - Broadsoft 10 - Metaswitch	
Default	0	
Web UI	Account \rightarrow Advanced \rightarrow Server Type	
Parameter	AccountXRedirectMessageProcessingPriority	config.xml
Description	It configures how to set the priority for SIP phones to process rec with multiple addresses.For example:UDP;TLS;TCP or UDP;TCP or	direction messages - TCP;TLS;UDP
Permitted Values	Supported configuration: UDP.;TCP; TLS the one or more. For example:UDP;TLS;TCP or UDP;TCP or TCP;TLS;UDP.	
Default	Blank, it is means use [UDP;TCP;TLS]	
Web UI	None	
Parameter	AccountXRegisterRenewalIntervalProportion	config.xml
Description	It configures the policy for phone register renewal. The default value is 50%. You can modify the renewal interval.	
Permitted Values	Integers 1 to 99.	
Default	50	

8.2 Server Redundancy

Server redundancy is often required in VoIP deployments to ensure continuity of phone service, for example, the call server offline for maintenance, the server crashes, or the connection between the IP phone and the server fails.

Two types of redundancy are possible. In some cases, a combination of the two may be deployed:

- **Failover**: In this mode, the full phone system functionality is preserved by having a second equivalent capability call server take over from the one that has gone down/off-line. After the IP phone fails to register to the primary server, it will send the register message to secondary server.
- **Fallback**: Compared with failover mode, fallback mode supports the policy of primary server first, which means IP phone always attempts to register to the primary server, it will return to the primary server once the primary server is available.

8.2.1 Registration Method of Failover/Fallback Mode with Outbound Proxy

Currently there is a binding relationship between SIP server and outbound proxy address. That means if you configure outbound proxy address1, the IP phone always sends SIP request message with server1 parameter to outbound proxy address1; when the outbound proxy address1 is not available, the phone will send SIP request message with server2 parameter to outbound proxy address2.

8.2.2 Failover/Fallback Mode Configuration

The following table lists the parameters you can use to configure failover/fallback server redundancy.

Note: X means account ID. It can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	SIPFailOverEnable	config.xml
Description	It configures the failover or fallback mode	
Permitted Values	true - failover false - fallback	
Default	true	
Web UI	Features \rightarrow SIP \rightarrow Account Server Failover Enable	
Parameter	AccountXServer2Address	config.xml
Description	It configures the IP address or domain name of the secondary s account X is registered.	server in which the
Permitted Values	String within 256 characters	
Default	Blank	



Web UI	Account \rightarrow Basic \rightarrow Secondary SIP Server	
Phone UI	Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Accou Server2	nt → AccountX → SIP
Parameter	AccountXServer2Port	config.xml
Description	It configures the port of secondary server in which the account	K use to register.
Permitted Values	Integer from 0 to 65535	
Default	5060	
Web UI	Account \rightarrow Basic \rightarrow Secondary SIP Port	
Parameter	AccountXServer2Expire config.xml	
Description	It configures the registration expiration time (in seconds) of sec accountX.	condary server for
Permitted Values	Integer from 60 to *	
Default	3600	
Web UI	Account \rightarrow Basic \rightarrow Secondary Register Expire Time	
_	AccountXOutboundProxy2Address config.xml	
Parameter	AccountXOutboundProxy2Address	config.xml
Parameter Description	AccountXOutboundProxy2Address It configures the IP address or domain name of the secondary of for accountX.	config.xml
Parameter Description Permitted Values	AccountXOutboundProxy2Address It configures the IP address or domain name of the secondary of for accountX. String within 256 characters	config.xml
Parameter Description Permitted Values Default	AccountXOutboundProxy2Address It configures the IP address or domain name of the secondary of for accountX. String within 256 characters Blank	config.xml
Parameter Description Permitted Values Default Web UI	AccountXOutboundProxy2Address It configures the IP address or domain name of the secondary of for accountX. String within 256 characters Blank Account → Basic → Secondary Outbound Proxy Address	config.xml
Parameter Description Permitted Values Default Web UI Phone UI	AccountXOutboundProxy2Address It configures the IP address or domain name of the secondary of for accountX. String within 256 characters Blank Account → Basic → Secondary Outbound Proxy Address Menu → Advanced Settings → Account → AccountX → Outbound	config.xml outbound proxy server d Proxy2
Parameter Description Permitted Values Default Web UI Phone UI Parameter	AccountXOutboundProxy2Address It configures the IP address or domain name of the secondary of for accountX. String within 256 characters Blank Account → Basic → Secondary Outbound Proxy Address Menu → Advanced Settings → Account → AccountX → Outbound AccountXOutboundProxy2Port	config.xml butbound proxy server d Proxy2 config.xml
Parameter Description Permitted Values Default Web UI Phone UI Parameter Description	AccountXOutboundProxy2Address It configures the IP address or domain name of the secondary of for accountX. String within 256 characters Blank Account → Basic → Secondary Outbound Proxy Address Menu → Advanced Settings → Account → AccountX → Outbound AccountXOutboundProxy2Port It configures the IP address or domain name of the secondary of for accountX.	config.xml outbound proxy server d Proxy2 config.xml outbound proxy server
Parameter Description Permitted Values Default Web UI Phone UI Parameter Description Permitted Values	AccountXOutboundProxy2Address It configures the IP address or domain name of the secondary of for accountX. String within 256 characters Blank Account → Basic → Secondary Outbound Proxy Address Menu → Advanced Settings → Account → AccountX → Outbound AccountXOutboundProxy2Port It configures the IP address or domain name of the secondary of for accountX. Integer from 0 to 65535	config.xml outbound proxy server d Proxy2 config.xml outbound proxy server
Parameter Description Permitted Values Default Web UI Phone UI Parameter Description Permitted Values Default	AccountXOutboundProxy2Address It configures the IP address or domain name of the secondary of for accountX. String within 256 characters Blank Account → Basic → Secondary Outbound Proxy Address Menu → Advanced Settings → Account → AccountX → Outbound AccountXOutboundProxy2Port It configures the IP address or domain name of the secondary of for accountX. Integer from 0 to 65535 5060	config.xml outbound proxy server d Proxy2 config.xml outbound proxy server
Parameter Description Permitted Values Default Web UI Phone UI Parameter Description Permitted Values Default Web UI	AccountXOutboundProxy2Address It configures the IP address or domain name of the secondary of for accountX. String within 256 characters Blank Account → Basic → Secondary Outbound Proxy Address Menu → Advanced Settings → Account → AccountX → Outbound AccountXOutboundProxy2Port It configures the IP address or domain name of the secondary of for accountX. Integer from 0 to 65535 5060 Account → Basic → Secondary Outbound Proxy Port	config.xml outbound proxy server d Proxy2 config.xml outbound proxy server



Description	It configures whether to re-subscribe immediately after registering different IP addresses.
Permitted Values	false - Do not rely on registration to trigger updates true - Rely on registration to re-subscribe
Default	false
Web UI	None

8.3 SIP Server Name Resolution

If a domain name is configured for a server, the IP address associated with that domain name will be resolved through DNS as specified by RFC 3263. The DNS query involves NAPTR, SRV and A queries, which allow the IP phone to adapt to various deployment environments. The IP phone performs NAPTR query for the NAPTR pointer and transport protocol (UDP, TCP and TLS), the SRV query on the record returned from the NAPTR for the target domain name and the port number, and the A query for the IP addresses.

If an explicit port (except 0) is specified, A query will be performed only. If a server port is 0 and then the transport type is DNS-NAPTR, NAPTR and SRV queries will be tried before falling to A query. If no port is found through the DNS query, 5060 will be used.

The following table lists the parameters you can use to configure SIP server name resolution.

Note: X means account ID. It can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXServer1Transport	config.xml
Description	It configures the type of transport protocol.	
Permitted Values	0 - UDP 1 - TCP 2 - TLS 3 - DNS NAPTR Note: If no server port is given, the IP phone performs the DN queries for the service type and port.	IS NAPTR and SRV
Default	0	
Web UI	Account \rightarrow Basic \rightarrow Transport Mode	

8.4 SIP Default Account

When multiple accounts are configured, you can specify the default account to set the default outgoing number and modify the display policy on home bar to display the default account information.

Note: The phone support number 1~8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	SIPDefaultAccount	config.xml
-----------	-------------------	------------



Description	It configures the SIP phone default account.		
	1 - Account 1		
	2 - Account 2		
	3 - Account 3		
	4 - Account 4		
	5 - Account 5		
	6 - Account 6		
	7 - Account 7		
	8 - Account 8		
	9 - Account 9		
Permitted	ed 10 - Account 10 11 - Account 11		
Values			
	12 - Account 12		
	13 - Account 13		
	14 - Account 14		
	15 - Account 15		
	16 - Account 16		
	17 - Account 17		
	18 - Account 18		
	19 - Account 19		
	20 - Account 20		
Default	1		
Web UI	features \rightarrow sip \rightarrow Default Account		
Parameter	SettingDefaultAccountDisplayMode	config.xml	
	It configures set whether to display default account informatic	on on	
Description	home bar.		
Permitted	0 – Do not display default account on home bar.		
Values	1 – Display default account on home bar.		
Default	0		
Web UI	None		

The following is an example of whether the default account is displayed on home bar.







9. Call Log

All call logs are divided into All Calls/Missed Calls/Placed Calls/Received Calls/Forwarded Calls.

The five types of call logs are displayed via five tabs in the Local History page. Users can switch the tabs by pressing the left/right keys.

9.1 Call Log Display

You can access the call history information via phone user interface by the History soft key on homepage.

All Call	s Mis	sed Calls	1/5 🔇
🤡 30.1.71.45			19/11
V 30.1	.71.45		19/11
V 10.4.34.104			19/11
੯ 10.4.34.104 19/1			19/11
Back	Call	Delete	Option

9.2 Call Log Configuration

The following table lists the parameters for call log settings:

Parameter	CallHistorySave	config.xml
Description	It enables or disables the IP phone to save the call logs (for missed calls, placed calls, and received calls).	
Permitted Values	0 - Not save 1 - Save all	
Default	1	



10. Call Features

This chapter shows you how to configure call features for the ALE Myriad Series phones:

10.1 Dial Plan

Dial plan is a string of characters that governs the way IP phones process the inputs received from the IP phone's keypads. You can use the regular expression to define the dial plan.

10.1.1 Dial Plan Defined by Dialing Rule

The ALE Myriad Series phones support user-defined dialing rules, the parameters you can configure such as Country code, Area code, External Prefix and so on. They defined what the number would eventually dial out.

The following table lists the parameters you can use to configure dialing rule.

Note: X means account ID and it can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXDialingRuleCountryCode	config.xml
Description	It configures the country code for accountX.	
Permitted Values	ISO 3166 country code (Alpha-2)	
Default	Blank	
Web UI	Setting \rightarrow Dialing Rule \rightarrow Country Code	
Parameter	AccountXDialingRuleAreaCode	config.xml
Description	It configures the area code for accountX.	
Permitted Values	String within 16 characters	
Default	Blank	
Web UI	Setting \rightarrow Dialing Rule \rightarrow Area Code	
Parameter	AccountXDialingRuleExternalPrefix	config.xml
Description	It configures the external prefix for accountX.	
Permitted Values	String within 16 characters	
Default	Blank	
Web UI	Setting \rightarrow Dialing Rule \rightarrow External Prefix	
Parameter	AccountXDialingRuleMinNumberLength	config.xml
Description	It configures the minimum length of number for accountX.	

Permitted Values	Integer from 0 to 120		
Default	Blank		
Web UI	Setting \rightarrow Dialing Rule \rightarrow Min Number Len		
Parameter	AccountXDialingRuleExternalPrefixExceptions	config.xml	
Description	It configures list of exceptions while adding the external pr	efix.	
Permitted Values	String within 64 characters		
Default	Blank		
Web UI	Setting \rightarrow Dialing Rule \rightarrow External Prefix Exception		
Parameter	AccountXDialingRuleInHistoryEnable	config.xml	
Description	It enables or disables dialing rule in history. Note: It includes: 1. Dial from History tab 2. Select a number in dialing screen by right key, which is provided by Call log. 3. Select a number on dialing screen by left key, which is provided by Call log, then choose "Call" or "Forward" key. 4. Dial by press redial key		
Permitted Values	true - enable false - disable		
Default	false		
Web UI	Setting \rightarrow Dialing Rule \rightarrow Dialing Rule Enabled in History \rightarrow	Enable/Disable	
Parameter	AccountXDialingRuleInContactEnable	config.xml	
Description	It enables or disables dialing rule works in contact Note: It includes: 1. Dial from contacts tab 2. Select a number in dialing screen by right key, which is provided by contact. 3. Select a number on dialing screen by left key, which is provided by contact, then choose "Call" or "Forward" key.		
Permitted Values	true - enable false - disable		
Default	true		
Web UI	Setting \rightarrow Dialing Rule \rightarrow Dialing Rule Enabled in Contact \rightarrow Enable/Disable		
Parameter	AccountXDialingRuleInManualEnable config.xml		

Description	It enables or disables dialing rule works in manual Note: It includes Input number directly / off-hook then dialing / handsfree then dialing.
Permitted Values	true - enable false - disable
Default	false
Web UI	Setting \rightarrow Dialing Rule \rightarrow Dialing Rule Enabled in Manual \rightarrow Enable/Disable

10.1.2 Dial Plan Defined by Digit Map

Digit maps, described in RFC 3435, are defined by a single string or a list of strings. If a number entered matches any string of a digit map, the call is automatically placed. If a number entered matches no string - an impossible match - you can specify the phone's behavior. You can specify the digit map timeout, the period of time before the entered number is dialed out.

10.1.2.1 Basic Regular Expression Syntax for Digit Map

You need to know the following basic regular expression syntax when creating a new dial plan:

	The dot "." can be used as a placeholder or multiple placeholders, including zero, of occurrences of the preceding construct.
	Examples: "123.T" would match "123", "1233", "12333", "123333", and so on. "x.T" would match an arbitrary number. "[x*#+].T" would match an arbitrary character. Note: If the string ends with a dot (e.g., 123.), a match will occur immediately after inputting the characters before the dot (e.g.123) since the dot allows for zero occurrences of the preceding construct. Therefore, we recommend that you add a letter "T" after the dot (for example, 123.T)
	for inputting more characters.
x	The "x" can be used as a placeholder for any digit from 0 to 9. Example: "12x" would match "121", "122", "123", and so on.
-	The dash "-" can be used to match a range of digits within the brackets. Example: "[35-7]" would match the number "3", "5", "6" or "7". Note: The digits must be concrete. For example, [3-x] is invalid.
1	The comma "," can be used as a separator to generate a secondary dial tone. Example: "9, xx": After entering digit "9", secondary dial tone plays, and you can complete the remaining two-digit numbers.

[]	The square bracket "[]" can be used as a placeholder for a single character which matches any of a set of characters. Example: "91[5-7]1234" would match "9151234", "9161234", and "9171234".
т	The timer letter "T" indicates a timer expiry. If "T" is used alone (for example, 123T), the default timeout value of 3 will be used. If "T" is not used alone (for example, 123Tx, x can be a digit from 0 to 99), a complete match occurs when waiting x seconds after inputting 123. If "T" is not used (for example, 123), a complete match occurs immediately after inputting 123.
R	The letter "R" indicates that certain matched strings are replaced. Using an RRR syntax, you can replace the digits between the first two Rs with the digits between the last two Rs. Example: "R12R234R" would replace 12 with 234.
i	The exclamation mark "!" can be used to prevent users from dialing out specific numbers. It can only be put last in each string of the digit map. Example: "235x!" would match "2351", "2352", "2353", and so on. The number starting with 235 will be blocked to dial out.

10.1.2.2 Digit Map for All Accounts Configuration

The following table lists the parameters you can use to configure all accounts digit map:

Parameter	DigitMapEnable	config.xml
Description	It enables or disables the digit map feature. Note: Compatible rules for Digit Map and Old Dialing Rule: When enabling Digit Map, the Dialing rules defined by Digit Map are used instead of the old Dialing Rule.	
Permitted Values	true - enable false - disable	
Default	false	
Parameter	DigitMap config.xml	
Description	It configures the digit map pattern used for the dial plan.	
Permitted Values	String within 2048 characters	
Default	[2-9]11;0T;+011xxx.T;0[2-9]xxxxxxxx;+1[2-9]xxxxxxx;[2-9]xxxxxxx;[2-9]xxxT	
Parameter	DigitMapTimer config.xml	



Description	It configures the dial rule to match the timeout (the value of T), in seconds.	
Permitted Values	0-18	
Default	3	
Parameter	DigitMapInHistoryEnable	config.xml
Description	It enables or disables the digit map to be applied to the numbers (received calls or missed calls) dialed from the call history list.	
Permitted Values	true - enable false - disable	
Default	true	
Parameter	DigitMapInDirectoryEnable	config.xml
Description	It enables or disables the digit map to be applied to the numb directory.	ers dialed from the
Permitted Values	true - enable false - disable	
Default	true	
Parameter	DigitMapInForwardEnable	config.xml
Description	It enables or disables the digit map to be applied to the numb forward to when performing call forward.	ers that you want to
Permitted Values	true - enable false - disable	
Default	true	
Parameter	DigitMapInManualEnable	config.xml
Description	It enables or disables the entered number to match the predefined string of the digit map after pressing a send key. It is only applicable to the off-hook dialing.	
Permitted Values	true - enable false - disable	
Default	true	

10.1.2.3 Digit Map for a Specific Line Configuration

The following table lists the parameters you can use to specific account digit map:

Note: X means account ID and it can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.



Parameter	AccountXDigitMapEnable	config.xml
Description	It enables or disables the digit map feature for a specific acco	ount.
Permitted Values	true - enable false - disable	
Default	true	
Parameter	AccountXDigitMap	config.xml
Description	It enables or disables the digit map feature for a specific acco	ount.
Permitted Values	String within 2048 characters	
Default	Blank	
Parameter	AccountXDigitMapTimer	config.xml
Description	It configures the dial rule to match the timeout (the value of	T) in seconds.
Permitted Values	0-18	
Default	Blank	
Parameter	AccountXDigitMapInHistoryEnable	config.xml
Description	It enables or disables the digit map to be applied to the num missed calls) dialed from the call history list.	bers (received calls or
Permitted Values	true - enable false - disable	
Default	true	
Parameter	AccountXDigitMapInDirectoryEnable	config.xml
Description	It enables or disables the digit map to be applied to the num directory.	bers dialed from the
Permitted Values	true - enable false - disable	
Default	true	
Parameter	AccountXDigitMapInForwardEnable	config.xml
Description	It enables or disables the digit map to be applied to the num forward to when performing call forward.	bers that you want to

Permitted Values	true - enable false - disable	
Default	true	
Parameter	AccountXDigitMapInManualEnable config.xml	
Description	It enables or disables the entered number to match the predefined string of the digit map after pressing a send key. It is only applicable to the off-hook dialing.	
Permitted Values	true - enable false - disable	
Default	true	

10.2 Hotline

Hotline, sometimes referred to as hot dialing, is a point-to-point communication link in which a call is automatically directed to the preset hotline number. If you lift the handset, press the loudspeaker key or the account key, and do nothing for a specified time interval, the IP phone will automatically dial out the hotline number that you configured.

Note: Hotline doesn't discriminate the accounts and you can configure only one hotline number.

Parameter	FeatureHotlineEnable	config.xml
Description	It enables or disables the phone to use hotline feature.	
Permitted Values	true - enable false - disable	
Default	false	
Web UI	Features \rightarrow Hotline \rightarrow Hotline	
Phone UI	Menu \rightarrow Features \rightarrow Hotline	
Parameter	FeatureHotlineNumber	config.xml
Description	It configures the hotline number that the IP phone automatically dials out when you lift the handset, press the loudspeaker key or the account key.	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Features \rightarrow Hotline \rightarrow Hotline Number	
Phone UI	Menu \rightarrow Features \rightarrow Hotline \rightarrow Number	

The following table lists the parameters you can use to configure hotline.



Parameter	FeatureHotlineDelayTimeout	config.xml	
It configures the waiting time (in seconds) for the IP phon out the preset hotline number.		o automatically dial	
Description	Note: If it is set to 0, the IP phone will dial out the configured hotline number immediately when you lift the handset, press the loudspeaker key or press the account key		
Permitted Values	Integer from 0 to 10		
Default	0		
Web UI	Features \rightarrow Hotline \rightarrow Delay Time		
Phone UI	Menu \rightarrow Features \rightarrow Hotline \rightarrow Delay		

10.3 Recall

Recall, also known as last call return, allows you to dial the last received call. Recall is implemented on IP phones using a programming key.

The following table lists the parameter you can use for recall configuration:

Note: X means programmable key ID and it can be number 1-20 for M3, 1-28 for M5/M7, 1-36 for M8, 1-8 for H3P/H3G, 1-12 for H6.

```
<?xml version="1.0" encoding="UTF-8" ?>
<settings>
<setting id=" PhoneProgKey4Type" value="18" override="true"/>
<setting id=" PhoneProgKey4Label " value="Recall" override="true"/>
</settings>
```

After configuration, a recall key is available on the phone.

🕖 Jul 1	1	06:06	
🛜 Myri	ad5	Headset 🔿	
	ReCall 🛕		eCall 🕿
			1234
Menu	DND	History	Directory

When you press the recall key, the phone will dial the last received call.

10.4 Speed Dial

Speed dial allows you to speed up dialing the contacts on the phone's idle screen using dedicated programmable keys.



The following table lists the parameter you can use to speed dial configuration:

Note: X means programmable key ID and it can be number 1-20 for M3, 1-28 for M5/M7, 1-36 for M8, 1-8 for H3P/H3G, 1-12 for H6.

```
<?xml version="1.0" encoding="UTF-8" ?>
<settings>
<setting id="PhoneProgKey6Type" value="1" override="true"/>
<setting id="PhoneProgKey6Account " value="1" override="true"/>
<setting id="PhoneProgKey6Number" value="1234" override="true"/>
<setting id=" PhoneProgKey6Label " value="SpeedDail" override="true"/>
</settings>
```

After correct configuration, a Speed Dial key is available on the phone.



You can configure multiple Speed Dial keys for different contacts which are used frequently or hard to remember.

10.5 Call Timeout

Call timeout defines a specific period of time after which the IP phone will cancel the dialing if the call is not answered.

Parameter	FeatureRingBackTimeout	config.xml
Description	It configures the duration time (in seconds) in the ringback state. If you set it to 60s, the phone will cancel the dialing when the call is not answered after 60 seconds.	
Permitted Values	Integer from 0 to 120	
Default	60	

The following table lists the parameter you can use to configure call timeout.

10.6 Auto Dial Out Timer

It configures the timer when the phone dials out the number after inputting the last digit.

The following table lists the parameters you can use to configure the auto dial out timer.

Parameter	FeatureAutoDialOutTimer	config.xml
Description	It configures the timer when the phone dials out the number after inputting the last digit.	
Permitted Values	Integer from 0 to 18	
Default	5	
Web UI	Features \rightarrow General \rightarrow Auto Dial Out Timer	

10.7 Anonymous Call

Anonymous Call allows the caller to conceal the identity information shown to the caller. The callee's phone LCD screen prompts an incoming call from anonymity (there is no name, number or other information displayed).

Anonymous calls can be performed locally or on the server. When performing an anonymous call on local, the IP phone sends an INVITE request message with a call source "From: Anonymous <sip:anonymous@anonymous.invalid>;tag=878106cc5e". If performing an anonymous call on a specific server, you may need to configure the anonymous call on code and off code to activate and deactivate the function of anonymous call on the server side.

The following table lists the parameters to configure an anonymous call.

Note: X means account ID and it can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXAnonymousCallEnable	config.xml	
Description	It enables or disable the anonymous call feature for account.		
Permitted Values	true - enable false - disable		
Default	false		
Web UI	Account \rightarrow Advanced \rightarrow Anonymous Call		
Phone UI	Menu \rightarrow Features \rightarrow Anonymous \rightarrow AccountX \rightarrow Anonymous		
Parameter	AccountXAnonymousCallOnCode config.xml		
Description	It configures the on code for accountX to activate anonymous call feature on the server side. Note: The parameter AccountXAnonymousCallEnable must set to true, the phone will send the on code to server.		
Permitted Values	String within 32 characters		

Default	Blank	
Web UI	Account \rightarrow Advanced \rightarrow Anonymous Call On Code	
Phone UI	Menu \rightarrow Features \rightarrow Anonymous \rightarrow AccountX \rightarrow On Code	
Parameter	AccountXAnonymousCallOffCode config.xml	
Description	It configures the off code for accountX to deactivate anonymous call feature on server side. Note: The parameter AccountXAnonymousCallEnable must set to false, the phone will send the off code to server.	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Account \rightarrow Advanced \rightarrow Anonymous Call Off Code	
Phone UI	Menu \rightarrow Features \rightarrow Anonymous \rightarrow AccountX \rightarrow Off Code	2

10.8 Anonymous Call Rejection

Anonymous call rejection allows an IP phone to automatically reject incoming calls from callers whose identity has been deliberately concealed.

Anonymous call rejection can be performed locally or on the server. If performing anonymous call rejection on a specific server, you may need to configure anonymous call rejection on code and off code to activate and deactivate server-side anonymous call rejection feature.

The following table lists the parameters to configure anonymous call rejection.

Note: X means account ID. It can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXAnonymousCallRejectionEnable	config.xml
Description	It enables or disables the anonymous call rejection feature.	
Permitted	true - enable	
Values	false - disable	
Default	false	
Web UI	Account \rightarrow Advanced \rightarrow Anonymous Rejection	
Phone UI	Menu \rightarrow Features \rightarrow Anonymous Reject \rightarrow Account X	
Parameter	AccountXAnonymousCallRejectionOnCode	config.xml
	It configures the anonymous call rejection on code.	
Description	The IP phone will send the code to activate anonymous call rejection feature or	
	server side when you activate it on the IP phone.	

Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Account \rightarrow Advanced \rightarrow Anonymous Rejection On Code	
Phone UI	Menu \rightarrow Features \rightarrow Anonymous Reject \rightarrow Account X	
Parameter	AccountXAnonymousCallRejectionOffCode	config.xml
Description	It configures the anonymous call rejection off code. The IP phone will send the code to deactivate anonymous call rejection feature on server side when you deactivate it on the IP phone.	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Account \rightarrow Advanced \rightarrow Anonymous Rejection Off Code	
Phone UI	Menu \rightarrow Features \rightarrow Anonymous Reject \rightarrow Account X	

10.9 Call Number Filter

Call number filter feature allows an IP phone to filter designated characters automatically when dialing.

The following table lists the parameters you can use to configure the call number filter.

Parameter	FeatureCallNumberFilter	config.xml
Description	It configures the characters that the IP phone will filter when dialing. If the dialed number contains configured characters, the IP phone will automatically filter these characters when dialing. If you dial 10-1, the IP phone will filter the character - and then dial out 101.	
Permitted Values	String within 32 characters	
Default	,-()	
Web UI	Setting \rightarrow General \rightarrow Call Number Filter	

10.10 IP Address Call

You can configure the phone whether to receive or place an IP call.

10.10.1 IP Address Call Configuration

The following table lists the parameter you can use to configure an IP address call.



Parameter	SIPIpCallEnable	config.xml
Description	It enables or disables IP address call feature. Note: The parameter can only control the outgoing IP address call. If you don't want to answer the IP address call, you should set the parameter "SIPIpCallEnable" to false.	
Permitted Values	true - enable false - disable	
Default	false	
Web UI	SIP Features \rightarrow SIP \rightarrow Allow IP Call	

10.10.2 Accept SIP Trust Server Only Configuration

Accept SIP Trust Server Only enables the IP phone to only accept the SIP messages from your SIP server and outbound proxy server. It can prevent the phone from receiving ghost calls from random numbers. If you enable this feature, the IP phone cannot accept an IP address call.

Parameter	SIPPeerFilterEnable	config.xml
Description	It enables or disables filtering the IP address call. Note: The parameter can only control the incoming IP address call. If you want to make an outgoing IP address call, you should set the parameter "SIPIpCallEnable" to true.	
Permitted Values	true - enable false - disable	
Default	false	
Web UI	Features \rightarrow SIP \rightarrow SIP Peer Filter	

The following table lists the parameters to configure the Accept SIP Trust Server Only feature.

10.11 Auto Answer

The ALE Myriad Series phones support answering a SIP call or an IP address call automatically. Auto answer is configurable on a per-line basis, while IP address call is not.

By default, the IP phones will not automatically answer the incoming call during a call even if auto answer is enabled; and the incoming call will not be automatically answered after you end the current call.

The following table lists the parameters you can use to configure auto answer.

Note: X means account ID. It can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.



Parameter	AccountXAutoAnswerEnable	config.xml	
Description	It enables or disables auto answering a SIP call for accountX. Note: The IP phone cannot automatically answer the incoming call during a call even if auto answer is enabled.		
Permitted Values	true - enable false - disable		
Default	false		
Web UI	Account \rightarrow Advanced \rightarrow Auto Answer		
Phone UI	Menu \rightarrow Features \rightarrow Auto answer \rightarrow AccountX \rightarrow Enable/Disable		
Parameter	FeatureAutoAnswerDelay config.xml		
Description	The automatic call answer delay is set. Note: This parameter is only valid if AccountXAutoAnswerEnable = true.		
Permitted Values	1-60, Unit: second		
Default	1		
Web UI	None		
Phone UI	None		
Parameter	FeatureAutoAnswerToneEnable	config.xml	
Description	It configures the auto answer whether the prompt tone is played.		
Permitted Values	true - enable false - disable		
Default	false		
Web UI	None		
Phone UI	None		

10.12 Call Waiting

While Call waiting feature enabled, the phone will be able to answer the second call when there is already an active call on your phone. If it is disabled, the second incoming call will be rejected automatically.

You can enable the call waiting feature and configure the phone to play a warning tone to avoid missing important calls during a call. They may vary on different servers.

You can activate and deactivate the call waiting feature by On Code and Off Code which generally also requests server to support call waiting feature.



Note: In R140, we have optimized the reminder of multiple calls. When there is an incoming call or talking, we will use 182 to respond to the second call when call waiting is enabled.

Parameter	FeatureCallWaitingEnable	config.xml
Description	It enables or disables the call waiting feature.	
Permitted Values	true - enable false - disable	
Default	true	
Parameter	FeatureCallWaitingToneEnable	config.xml
Description	It enables or disables the IP phone to play the call waiting tone when the IP phone receives an incoming call during a call. Note: It works only if "SIPMaxCall" is set to 2 (Enabled).	
Permitted	0 - disable	
Values	1 - enable	
Default	1	
Web UI	Features \rightarrow General \rightarrow Call Waiting Tone Enable	
Parameter	FeatureCallWaitingOnCode config.xml	
Description	It configures the On Code of the call waiting feature. The phone will send on code number to server to enable call waiting function on server.	
Permitted Values	String (within 32 characters)	
Default	Blank	
Web UI	Features \rightarrow General \rightarrow Call Waiting on Code	
Parameter	FeatureCallWaitingOffCode	config.xml
Description	It configures the Off Code of the call waiting feature. The phone will send on code to server to enable call waiting function on server.	
Permitted Values	String (within 32 characters)	
Default	Blank	
Web UI	Features \rightarrow General \rightarrow Call Waiting Off Code	
Parameter	FeatureKeepCallWaitingEnable	config.xml
Description	It configures to enable or disable Call Waiting after a call ends.	

The following table lists the parameters you can use to configure call waiting.

	After the function is activated, you can set program key to call waiting to realize	
	more flexible switch operation. You can also operate during a call, which satisfies	
	the more flexible DND function.	
Permitted	false: Disable the keep call waiting feature.	
Values	true: Enable the keep call waiting feature.	
Default	true	

10.13 Do Not Disturb (DND)

DND feature enables the phone to reject all incoming calls automatically when you do not want to be interrupted. You can choose to implement DND locally on the phone or on the server side.

Usually, you can activate DND when the phone is idle. The phone stays in the DND state until you deactivate DND manually.

10.13.1 DND Settings Configuration

You can change the following DND settings:

- Choose a DND mode. You can configure DND for all accounts (Phone mode) or specific account (Custom mode).
- The IP phone displays a DND icon on the idle screen or program key for account when the DND feature is enabled. It helps users to clearly view that DND is activated or not.

The following table lists the parameters you can use to configure DND setting.

Parameter	FeatureDndMode	config.xml
Description	It configures the DND mode for the IP phone.	
Permitted Values	0: Phone. DND feature is effective for the phone system. 1: Custom. You can configure DND feature for each or all accounts.	
Default	0	
Web UI	Features \rightarrow DND \rightarrow DND Mode	

10.13.2 DND Feature Configuration

After you choose a DND mode, you can configure the DND feature for all lines or a specific line. It depends on the DND mode:

- **Phone** (default): DND feature is effective for all lines.
- **Custom**: DND feature can be configured for a specific line or multiple lines.

The IP phones also support 2 methods to activate and deactivate server-side DND feature. They may vary on different servers.

• **Prefix mode:** (default) The IP phone will send on code or off code to synchronize the status of the DND between the IP phone and the server.

• **Subscribe mode:** The IP phone will send subscribe message to synchronize the status of the DND between the IP phone and the server when forward states change. With this phone, you don't need to configure on code or off code on IP phone.

10.13.3 DND in Phone Mode Configuration

The following table lists the parameters you can use to configure DND in Phone mode.

Parameter	FeatureDndEnable	config.xml	
Description	It turns on or off the DND feature. Note: It works only if "FeatureDndMode" is set to 0 (Phone).		
Permitted Values	false - disable true - enable: The IP phone will reject incoming calls on all accounts.		
Default	false		
Web UI	Features \rightarrow DND \rightarrow Enable DND		
Phone UI	Menu \rightarrow Features \rightarrow DND		
Parameter	FeatureDndOnCode config.xml		
Description	It configures the DND on code to activate the server-side DND feature. The IP phone will send the DND on code to the server when you activate DND feature on the IP phone. Note: It works only if "FeatureDndMode" is set to 0 (Phone).		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features \rightarrow DND \rightarrow On Code		
Phone UI	Menu \rightarrow Features \rightarrow DND \rightarrow On Code		
Parameter	FeatureDndOffCode	config.xml	
Description	It configures the DND off code to deactivate the server-side DND feature. The IP phone will send the DND off code to the server when you deactivate DND feature on the IP phone. Note: It works only if "FeatureDndMode" is set to 0 (Phone).		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features \rightarrow DND \rightarrow Off Code		
Phone UI	Menu \rightarrow Features \rightarrow DND \rightarrow Off Code		

10.13.4 DND in Custom Mode Configuration

The following table lists the parameters you can use to configure DND in Custom mode.

Note: X means account ID. It can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXDndEnable	config.xml	
Description	It turns on or off the DND feature. Note: It works only if "FeatureDndMode" is set totrue1 (Custom).		
Permitted Values	false - disable		
Dofault	falso		
Web UI	Features \rightarrow DND \rightarrow Account ID \rightarrow Enable DND		
Phone UI	Menu \rightarrow Features \rightarrow DND \rightarrow Account ID \rightarrow DND Status		
Parameter	AccountXDndOnCode config.xml		
Description	It configures the DND on code to activate the server-side DND feature. The IP phone will send the DND on code to the server when you activate DND feature on the IP phone. Note: It works only if "FeatureDndMode" and "FeatureDndEnable2" are both set to 1 (Custom).		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features \rightarrow DND \rightarrow Account ID \rightarrow On Code		
Phone UI	Menu → Features → DND → Account ID → On Code		
Parameter	AccountXDndOffCode	config.xml	
Description	It configures the DND off code to deactivate the server-side DND feature. The IP phone will send the DND off code to the server when you deactivate DND feature on the IP phone. Note: It works only if "FeatureDndMode" set to 1 (Custom) and "FeatureDndEnable2" set to false.		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features \rightarrow DND \rightarrow Account ID \rightarrow Off Code		

Phone UI Menu \rightarrow Features \rightarrow DND \rightarrow Account ID \rightarrow Off Code

10.13.5 DND Synchronization for Server-side Configuration

DND synchronization feature provides the capability to synchronize the status of the DND features between the IP phone and the server.

If the DND is activated in Phone mode, the DND status changing locally will be synchronized to registered default accounts on the server.

If the DND is activated in Custom mode, the DND status changing locally will be synchronized to the specific accounts on the server.

The IP phone supports 2 methods to synchronize the status of the DND between the IP phone and the server.

Prefix mode:

The IP phone will send on code or off code to synchronize the status of the DND between the IP phone and the server.

Subscribe mode:

The IP phone will send subscribe message to synchronize the status of the DND between the IP phone and the server when forward states change.

With Subscribe mode the IP phone doesn't need config on code or off code.

The following table lists the parameters you can use to configure DND synchronization for the server side.

Note: X means account ID. It can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	FeatureDNDMethod	config.xml
Description	It configures the DND method for the IP phone. Note: It works only if "DNDModeAccount" is set to 0 (Phone).	
Permitted Values	0: Prefix 1: Subscribe. The IP phone sends a SUBSCRIBE message with event "as-feature- event" to the server.	
Default	0	
Web UI	Features \rightarrow DND \rightarrow DND method	
Parameter	AccountXDndMethod config.xml	
Description	It configures the DND method for the IP phone accountX. Note: It works only if "DNDModeAccount" is set to 1 (Custom).	
Permitted Values	0: Prefix	



	1: Subscribe. The IP phone sends a SUBSCRIBE message with event "as-feature- event" to the server.
Default	0
Web UI	Features \rightarrow DND \rightarrow DND method

10.13.6 DND Enable/Disable Prompt Enhancement

The following table lists the parameters you can use to configure DND enable/disable prompt enhancement.

Parameter	FeatureDNDPromptMode	config.xml
Description	It enables or disables the IP phone to display a large DND icon on the idle screen. Note: It works only if "FeatureDNDPromptMode" is set to 1 (Enabled).	
Permitted Values	0 - default mode 1 - string prompt mode	
Default	0	

10.14 Call Forward

You can forward calls from any line on your phone to a contact. There are two ways of forwarding your calls:

- Forward calls in special situations, such as when the phone is busy or there is no answer or forwarding all incoming calls to a contact immediately.
- Manually forward an incoming call to a number.

10.14.1 Call Forward Setting Configuration

You can change the following call forward settings:

- Choose a call forward mode. You can configure call forward for all lines (Phone mode) or specific lines (Custom mode).
- Allow or disallow users to forward an incoming call to a telephone number.

The following table lists the parameters you can use to configure DND setting.

Parameter	FeatureFwdMode	config.xml
Description	It configures the FWD mode for the IP phone.	
Permitted Values	0: Phone. Call forward feature is effective for the phone system.1: Custom. You can configure call forward feature for each or all accounts.	
Default	0	
Web UI	Features \rightarrow Forward \rightarrow Forward Mode	



10.14.2 Call Forward Feature Configuration

After you choose a forward mode, you can configure the call forward feature for all accounts or a specific account. It depends on the forward mode:

- Phone (default): Call forward feature is effective for all accounts.
- **Custom**: Call forward feature can be configured for a specific account or multiple accounts.

The IP phones also support call forward on code and off code to activate and deactivate server-side call forward feature. They may vary on different servers.

10.14.3 Call forward in Phone Mode Configuration

The following table lists the parameters you can use to configure call forward in Phone mode.

Parameter	FeatureImmFwdEnable	config.xml	
Description	It triggers the always forward feature to on or off on a phone basis. Note: It works only if "FeatureFwdMode" is set to 0 (Phone).		
Permitted Values	false - disable true - enable: Incoming calls are forwarded to the destination number (configured by the parameter "FeatureImmFwdNumber") immediately.		
Default	false		
Web UI	Features \rightarrow Forward \rightarrow Immediate FWD \rightarrow On/Off		
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow Always Forward \rightarrow Always Forward		
Parameter	FeatureImmFwdNumber	config.xml	
Description	It configures the destination number of the always forward on a phone basis. Note: It works only if "FeatureFwdMode" is set to 0 (Phone).		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features \rightarrow Forward \rightarrow Immediate FWD Phone Number		
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow Always Forward \rightarrow Forward To		
Parameter	FeatureImmFwdOnCode	config.xml	
Description	It configures the always forward on code to activate the server-side always forward feature. The IP phone will send the always forward on code and the pre-configured destination number (configured by the parameter "FeatureImmFwdNumber") to the server when you activate always forward feature on a phone basis. Note: If default account is account 2 and the value of the parameter "FeatureFwdMode" is set to 0 (Phone).		

Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features \rightarrow Forward \rightarrow On Code (under Immediate FWD)		
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow Always Forward \rightarrow On Code		
Parameter	FeatureImmFwdOffCode	config.xml	
Description	It configures the always forward off code to deactivate the server-side always forward feature. The IP phone will send the always forward off code to the server when you deactivate always forward feature on the IP phone. Note: If default account is account 2 and the value of the parameter "FeatureFwdMode" is set to 0 (Phone).		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features \rightarrow Forward \rightarrow Off Code (under Immediate FWD)		
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow Always Forward \rightarrow Off Code		
Parameter	FeatureBusyFwdEnable	config.xml	
Description	It turns on or off the busy forward feature on a phone basis. Note: It works only if "FeatureFwdMode" is set to 0 (Phone).		
Permitted Values	false - disable true - enable: Incoming calls are forwarded to the destination number (configured by the parameter "FeatureBusyFwdNumber") when the callee is busy.		
Default		the callee is busy.	
	false	the callee is busy.	
Web UI	false Features \rightarrow Forward \rightarrow Busy FWD \rightarrow On/Off	the callee is busy.	
Web UI Phone UI	false Features \rightarrow Forward \rightarrow Busy FWD \rightarrow On/Off Menu \rightarrow Features \rightarrow Call Forward \rightarrow Busy Forward \rightarrow	the callee is busy. Busy Forward	
Web UI Phone UI Parameter	false Features → Forward → Busy FWD → On/Off Menu → Features → Call Forward → Busy Forward → FeatureBusyFwdNumber	the callee is busy. Busy Forward config.xml	
Web UI Phone UI Parameter Description	false Features → Forward → Busy FWD → On/Off Menu → Features → Call Forward → Busy Forward → FeatureBusyFwdNumber It configures the destination number of the busy forw Note: It works only if "FeatureFwdMode" is set to 0 (the callee is busy. Busy Forward config.xml ward feature on a phone basis. Phone).	
Web UI Phone UI Parameter Description Permitted Values	false Features → Forward → Busy FWD → On/Off Menu → Features → Call Forward → Busy Forward → FeatureBusyFwdNumber It configures the destination number of the busy forw Note: It works only if "FeatureFwdMode" is set to 0 (String within 32 characters	busy Forward config.xml ward feature on a phone basis. Phone).	
Web UI Phone UI Parameter Description Permitted Values Default	false Features → Forward → Busy FWD → On/Off Menu → Features → Call Forward → Busy Forward → FeatureBusyFwdNumber It configures the destination number of the busy for Note: It works only if "FeatureFwdMode" is set to 0 (String within 32 characters Blank	busy Forward config.xml ward feature on a phone basis. Phone).	
Web UI Phone UI Parameter Description Permitted Values Default Web UI	false Features → Forward → Busy FWD → On/Off Menu → Features → Call Forward → Busy Forward → FeatureBusyFwdNumber It configures the destination number of the busy for Note: It works only if "FeatureFwdMode" is set to 0 (String within 32 characters Blank Features → Forward → Busy FWD Phone Number	busy Forward config.xml ward feature on a phone basis. Phone).	
Web UIPhone UIParameterDescriptionPermittedValuesDefaultWeb UIPhone UI	falseFeatures \rightarrow Forward \rightarrow Busy FWD \rightarrow On/OffMenu \rightarrow Features \rightarrow Call Forward \rightarrow Busy Forward \rightarrow FeatureBusyFwdNumberIt configures the destination number of the busy for Note: It works only if "FeatureFwdMode" is set to 0 (String within 32 charactersBlankFeatures \rightarrow Forward \rightarrow Busy FWD Phone NumberMenu \rightarrow Features \rightarrow Call Forward \rightarrow Busy Forward \rightarrow	the callee is busy. Busy Forward config.xml ward feature on a phone basis. Phone). Forward To	
Alcatel Lucent

Description	It configures the busy forward on code to activate the server-side busy forward feature. The IP phone will send the busy forward on code and the pre-configured destination number (configured by the parameter "FeatureBusyFwdNumber") to the server when you activate busy forward feature on a phone basis. Note: It works only if "ForwardModeAccount" is set to 0 (Phone).	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Features \rightarrow Forward \rightarrow On Code (under Busy FWD)	
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow Busy Forward \rightarrow	• On Code
Parameter	FeatureBusyFwdOffCode	config.xml
Description	It configures the busy forward off code to deactivate the server-side busy forward feature. The IP phone will send the busy forward off code to the server when you deactivate busy forward feature on the IP phone. Note: It works only if "ForwardModeAccount" is set to 0 (Phone).	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Features \rightarrow Forward \rightarrow Off Code (under Busy FWD)	
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow Busy Forward \rightarrow	· Off Code
Parameter	FeatureNoReplyFwdEnable	config.xml
Description	It turns on or off the no answer forward feature on a phone basis. Note: It works only if "FeatureFwdMode" is set to 0 (Phone).	
Permitted Values	false - disable true - enable: Incoming calls are forwarded to the destination number (configured by the parameter "FeatureNoReplyFwdNumber") after a period of ring time.	
Default	false	
Web UI	Features \rightarrow Forward \rightarrow No Reply FWD \rightarrow On/Off	
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow No reply Forward \rightarrow No Reply Forward	
Parameter	FeatureNoReplyFwdNumber	config.xml
Description	It configures the destination number of the no answer forward feature on a phone basis. Note: It works only if "FeatureFwdMode" is set to 0 (Phone).	
Permitted Values	String within 32 characters	



Default	Blank	
Web UI	Features \rightarrow Forward \rightarrow No Reply FWD Phone Number	
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow No Reply Forward \rightarrow Forward To	
Parameter	FeatureNoReplyFwdOnCode	config.xml
Description	It configures the no answer forward on code to activate the server-side no answer forward feature. The IP phone will send the no answer forward on code and the pre-configured destination number (configured by the parameter "FeatureNoReplyFwdNumber") to the server when you activate no answer forward feature on a phone basis. Note: If the default account is account 2, set the value of the parameter "FeatureFwdMode to 0 (Phone).	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Features \rightarrow Forward \rightarrow On Code (under No Reply FW	D)
Phone UI	Menu → Features → Call Forward → No Answer Forward → On Code	
Parameter	FeatureNoReplyFwdOffCode config.xml	
Description	It configures the no answer forward off code to deactivate the server-side no answer forward feature. The IP phone will send the no answer forward off code to the server when you deactivate no answer forward feature on the IP phone. Note: If the default account is account 2, set the value of the parameter "FeatureFwdMode" to 0 (Phone).	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Features \rightarrow Forward \rightarrow Off Code (under No Reply FW	(D)
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow No Reply Forwa	rd → Off Code
Parameter	FeatureNoReplyFwdDuration	config.xml
Description	The incoming calls will be forwarded when not answered after M (M is configurable by "FeatureNoReplyFwdDuration") seconds.	
Permitted Values	Integer from 10 to 60	
Default	10	
Web UI	Features \rightarrow Forward \rightarrow Forward Duration No reply (under No Reply FWD)	



Parameter	FeatureNoReplyFwdInterval	config.xml
	It configures Single ring interval.	
	For example:	
	1. After FWD synchronization is enabled, the IP phone calculates No Reply Forward Duration based on the ringcount (N) sent by the server and Interval (M) configured	
Description	locally. The specific rule is Duration=N x M. Duration calculated is written directly to the arguments.	
	2. Similarly, if the Duration is changed locally, calculate the ringcount based on the	
	5.3, and the ringcount is 6.	t s a decimal, round it up, like
Permitted Values	Integer from 1 to 60. The unit is seconds.	
Default	5	
Web UI	None	

10.14.4 Call Forward in Custom Mode Configuration

The following table lists the parameters you can use to configure call forward in Custom mode.

Note: X means account ID. It can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXImmFwdEnable	config.xml
Description	It triggers the always forward feature to on or off on a phone basis. Note: It works only if "FeatureFwdMode" is set to 1 (Custom).	
Permitted Values	false - disable true - enable: Incoming calls are forwarded to the destination number (configured by the parameter "AccountXImmFwdNumber") immediately.	
Default	false	
Web UI	Features → Forward → Immediate FWD → On/Off	
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow Always Forward \rightarrow account ID \rightarrow Always Forward	
Parameter	AccountXImmFwdNumber	config.xml
Description	It configures the destination number of the always forward feature on a phone basis. Note: It works only if "FeatureFwdMode" is set to 1 (Custom).	
Permitted Values	String within 32 characters	

Default	Blank	
Web UI	Features \rightarrow Forward \rightarrow Immediate FWD Phone Number	
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow Always Forward \rightarrow account ID \rightarrow Forward To	
Parameter	AccountXImmFwdOnCode	config.xml
Description	It configures the always forward on code to activate the server-side always forward feature. The IP phone will send the always forward on code and the pre-configured destination number (configured by the parameter "AccountXImmFwdNumber") to the server when you activate always forward feature on a phone basis. Note: It work only if "FeatureFwdMode" is set to 1 (Custom).	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Features \rightarrow Forward \rightarrow On Code (under Immediate F	WD)
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow Always Forward	→ account ID → On Code
Parameter	AccountXImmFwdOffCode config.xml	
Description	It configures the always forward off code to deactivate the server-side always forward feature. The IP phone will send the always forward off code to the server when you deactivate always forward feature on the IP phone. Note: It work only if "FeatureFwdMode" is set to 1 (Custom).	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Features \rightarrow Forward \rightarrow Off Code (under Immediate F	WD)
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow Always Forward	→ account ID → Off Code
Parameter	AccountXBusyFwdEnable	config.xml
Description	It turns on or off the busy forward feature on a phon Note: It work only if "FeatureFwdMode" is set to 1 (C	e basis. Tustom).
Permitted Values	false - disable true - enable: Incoming calls are forwarded to the destination number (configured by the parameter "AccountXBusyFwdNumber") when the callee is busy.	
Default	false	
Web UI	Features \rightarrow Forward \rightarrow Busy FWD \rightarrow On/Off	
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow Busy Forward \rightarrow	• account ID \rightarrow Busy Forward
Parameter	AccountXBusyFwdNumber	config.xml



Description	It configures the destination number of the busy forward feature on a phone basis. Note: It work only if "FeatureFwdMode" is set to 1 (Custom).		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features \rightarrow Forward \rightarrow Busy FWD Phone Number		
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow Busy Forward \rightarrow	• account ID \rightarrow Forward To	
Parameter	AccountXBusyFwdOnCode	config.xml	
Description	It configures the busy forward on code to activate the server-side busy forward feature. The IP phone will send the busy forward on code and the pre-configured destination number (configured by the parameter "AccountXBusyFwdNumber") to the server when you activate busy forward feature on a phone basis. Note: It work only if "FeatureFwdMode" is set to 1 (Custom).		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features \rightarrow Forward \rightarrow On Code (under Busy FWD)		
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow Busy Forward \rightarrow	account ID \rightarrow On Code	
Parameter	AccountXBusyFwdOffCode	config.xml	
Description	It configures the busy forward off code to deactivate the server-side busy forward feature. The IP phone will send the busy forward off code to the server when you deactivate busy forward feature on the IP phone. Note: It work only if "FeatureFwdMode" is set to 1 (Custom).		
Permitted Values	String within 32 characters		
Default	Blank		
Web UI	Features \rightarrow Forward \rightarrow Off Code (under Busy FWD)		
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow Busy Forward \rightarrow account ID \rightarrow Off Code		
Parameter	AccountXNoReplyFwdEnable	config.xml	
Description	It turns on or off the no answer forward feature on a phone basis. Note: It work only if "FeatureFwdMode" is set to 1 (Custom).		
Permitted Values	false - disable true - enable: Incoming calls are forwarded to the destination number (configured by the parameter "AccountXNoReplyFwdNumber") after a period of ring time.		

Default	false	
Web UI	Features \rightarrow Forward \rightarrow No Reply FWD \rightarrow On/Off	
Phone UI	Menu → Features → Call Forward → No reply Forward → account ID → No Reply Forward	
Parameter	AccountXNoReplyFwdNumber	config.xml
Description	It configures the destination number of the no answ basis. Note: It work only if "FeatureFwdMode" is set to 1 (0	er forward feature on a phone Custom).
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Features \rightarrow Forward \rightarrow No Reply FWD Phone Numbe	r
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow No Reply Forwa	rd → account ID → Forward To
Parameter	AccountXNoReplyFwdOnCode config.xml	
Description	 It configures the no answer forward on code to activate the server-side no answer forward feature. The IP phone will send the no answer forward on code and the pre-configured destination number (configured by the parameter "AccountXNoReplyFwdNumber") to the server when you activate no answer forward feature on a phone basis. Note: It work only if "FeatureFwdMode" is set to 1 (Custom). 	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Features \rightarrow Forward \rightarrow On Code (under No Reply FW	D)
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow No Answer Forw	vard \rightarrow account ID \rightarrow On Code
Parameter	AccountXNoReplyFwdOffCode	config.xml
Description	It configures the no answer forward off code to deactivate the server-side no answer forward feature. The IP phone will send the no answer forward off code to the server when you deactivate no answer forward feature on the IP phone. Note: It work only if "FeatureFwdMode" is set to 1 (Custom).	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Features \rightarrow Forward \rightarrow Off Code (under No Reply FW	/D)
Phone UI	Menu \rightarrow Features \rightarrow Call Forward \rightarrow No Reply Forwa	rd → account ID → Off Code



You can configure the no reply forward waiting time via web or Phone UI.

• Configure no reply forward time via web

Alcatel-Lucer Enterprise	nt 🕢	Web Based Management M5		
		Forward		
(j) Status	^	Forward		
Version		E	N	
Accounts		Forward Mode:	Phone	(3)
Network		Forward Method:	Prefix	0
Account	~	Immediate FWD:		
Network	~	Busy FWD:	0	
		No Reply FWD:	0	
Provision	~	No Reply FWD Phone Number:		0
🚰 Phone Keys	Ý	Forward Duration Noreply (1~60s) :	10	0
Settings	~	On Code:		0
₽ Features	^	Off Code:		0
General				
Forward			Sul	bmit
DND				

• Configure no reply time via Phone UI

	No Answe	r Forward	
Delay 10			
Deele	DISCO	400	Carlos Carlos

10.14.5 Call Forward Synchronization for Server-side Configuration

Call forward synchronization feature provides the capability to synchronize the status of the call forward features between the IP phone and the server.

If the call forward is activated in phone mode, the forward status changing locally will be synchronized to registered default accounts on the server.



If the call forward is activated in custom mode, the forward status changing locally will be synchronized to the specific accounts on the server. But if the forward status of the specific account is changed on the server, the forward status locally will be changed.

The IP phone supports 2 methods to synchronize the status of the call forward between the IP phone and the server.

Prefix mode:

The IP phone will send on code or off code to synchronize the status of the call forward between the IP phone and the server.

Subscribe mode:

The IP phone will send subscribe message to synchronize the status of the call forward between the IP phone and the server when forward states change.

The following table lists the parameters you can use to configure call forward synchronization for server-side.

Note: X means account ID and it can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	FeatureFwdMethod	config.xml
Description	It configures the FWD method for the IP phone. Note: It works only if "FeatureFwdMode" is set to 0 (Phone).	
Permitted Values	0 - Prefix 1 - Subscribe, the IP phone send a SUBSCRIBE message with event "as-feature-event" to the server.	
Default	0	
Web UI	Features \rightarrow Forward \rightarrow Forward method	
Parameter	AccountXFwdMethod config.xml	
Description	It configures the FWD method for the IP phone account X. Note: It works only if "FeatureFwdMode" is set to 1 (Custom).	
Permitted Values	0: Prefix 1: Subscribe. The IP phone sends a SUBSCRIBE message with event "as-feature- event" to the server.	
Default	0	
Web UI	Features \rightarrow Forward \rightarrow Forward method	

10.15 DND & FWD Synchronization

After the function synchronization is enabled, the DND&FWD on the phone side and the DND&FWD on the server side can be synchronized with each other. The user can conveniently turn on or off DND&FWD on the phone side or the web page.



The following table lists the parameters you can use to configure this feature.

Note: X means account ID. It can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXDndSyncServerLocalProcessingEnable config.xml	
Description	In the case of server synchronization, it configures the phone's each account to handle the local DND.	
	Note: It only works when FeaturedDndMethod is set to AccountXDndMethod is set to 1 (Custom mode).	o 1 (Phone mode) or
Permitted	false - disable	
Values	true - enable	
Default	false	
Parameter	AccountXDndShareLineSyncServerEnable	config.xml
	It configures shared line account DND sync.	
Description	Note: Only works when FeaturedDndMethod = 1 (Phone mode) or	
	AccountXDndMethod = 1 (Custom mode).	
Permitted	false - disable	
Values	true - enable	
Default	true	
Parameter	AccountXFwdSyncServerLocalProcessingEnable	config.xml
	It configures share line account Forward sync.	
Description	Note: It only works when FeatureFwdMethod = 1 (Phone mode) or Account[1-	
	8]FwdMethod = 1 (Custom mode).	
Permitted	false - disable	
Values	true - enable	
Default	false	

10.16 Multiple Call Appearances

You can enable each registered line to support multiple concurrent calls. For example, you can place one call on hold, switch to another call on the same registered line, and have both calls displayed.

You can set the maximum number of concurrent calls per line key on all-lines basis or a per-line basis. For example, if you specify 3 concurrent-calls for account 1, you can only have three call appearances on a corresponding line key. The additional incoming calls will be rejected.

You can specify the maximum concurrent-call numbers per line key.

The following table lists the parameters you can use to configure multiple call appearances.

Parameter

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Description	It configures the maximum number of concurrent calls for all registered accounts.
Permitted	NUMERIC [1,4]
Values	Note : For M8, the permitted value for this parameter is NUMERIC [1,11].
Default	2
	Note : For M8, the default value for this parameter is 11.
Web UI	Features \rightarrow SIP \rightarrow SIP MAX Call

10.17 Call Hold

Call hold provides a service of placing an active call on hold. It enables you to pause activity on an active call so that you can use the phone for another task, for example, to place or receive another call.

When a call is placed on hold, the IP phones send an INVITE request with HOLD SDP to request remote parties to stop sending media and to inform them that they are being held. The IP phones support two call hold methods. One is RFC 3264, which has the "a" (media attribute) in the SDP to sendonly, recvonly or inactive (for example, a=sendonly). The other is RFC 2543, which has the "c" (connection addresses for the media streams) in the SDP to zero (for example, c=0.0.0.0).

When you place an active call on hold or the call is held by remote party, a call hold tone or held tone alerts you after a specific period of time that a call is still on hold or is still held by the remote party. You can configure the call hold tone and held tone.

10.17.1 Call Hold Configuration

Parameter	SIPRfc2543HoldEnable	config.xml
Description	It enables or disables the IP phone to use RFC 2543 (c=0.0.0.0) outgoing hold signaling.	
Permitted Values	False - SDP media direction attributes (such as a=sendonly) per RFC 3264 is used when placing a call on hold. True - SDP media connection address c=0.0.0.0 per RFC 2543 is used when placing a call on hold.	
Default	false	
Web UI	Features \rightarrow SIP \rightarrow RFC2543 Hold Enable	
Parameter	AudioCHoldTone	config.xml
Description	It configures the tone for the IP phone to play the initial call hold tone.	
Permitted Values	LIST[NUMERIC[-60,*],8,74]	
Default	0;4;-1;200;420;335;-37;-37;-1;200;0;0;0;0;-1;200;420;335;-37;-37;-1;5000;0;0;0;0	
Parameter	FeatureHoldUseInactiveEnable	config.xml

The following table lists the parameters you can use to configure Call Hold.



Description	It enables or disables the phone to inactive outgoing hold signaling.		
Permitted	false - disable		
Values	true - enable		
Default	false		
Parameter	FeaturePlayHoldToneEnable	config.xml	
Description	It enables or disables the IP phone to play the call hold hold.	tone when you place a call on	
Permitted	false - disable		
Values	true - enable		
Default	true		
Parameter	FeaturePlayHoldToneDelay	config.xml	
Description	It configures the time (in seconds) to wait for the IP phone to play the initial call hold tone. If it is set to 30 (30s), the IP phone will wait 30 seconds to play the initial call hold		
	tone after you place a call on hold. Note: It works only if "FeaturePlayHoldToneEnable" is set to true (Enabled).		
Permitted Values	Integer from 3 to 3600		
Default	30		
Parameter	FeaturePlayHoldToneInterval	config.xml	
Description	It configures the time (in seconds) between subsequent call hold tones. If it is set to 3 (3s) and "FeaturePlayHoldToneDelay" is set to 30 (30s), the IP phone will begin to play a hold tone after you place a call on hold for 30 seconds and repeat the call hold tone every 3 seconds. Note: It works only if "FeaturePlayHoldToneEnable" is set to true (Enabled).		
Permitted Values	Integer from 3 to 3600		
Default	30		
Parameter	FeaturePlayHeldToneEnable	config.xml	
Description	It enables or disables the IP phone to play the call held tone when a call is held by the other party.		
Permitted Values	false - disabled true - enabled		
I.			
Default	false		



Description	It configures the time (in seconds) to wait for the IP phone to play the initial call held tone. If it is set to 30 (30s), the IP phone will wait 30 seconds to play the initial call held tone after you are held by the other party. Note: It works only if the Music on Hold feature is disabled and "FeaturePlayHeldToneEnable" is set to true (Enabled).	
Permitted Values	Integer from 3 to 3600	
Default	30	
Parameter	FeaturePlayHeldToneInterval	config.xml
Description	It configures the time (in seconds) between subsequent call held tones. If it is set to 3 (3s) and "FeaturePlayHeldToneDelay" is set to 30 (30s), the IP phone will begin to play a held tone after a call is held by the other party for 30 seconds, and repeat the call held tone every 3 seconds. Note: It works only if the Music on Hold feature is disabled and "FeaturePlayHeldToneEnable" is set to true (Enabled).	
Permitted Values	Integer from 3 to 3600	
Default	30	

10.17.2 Music on Hold

When a call is placed on hold, the IP phone will send an INVITE message to the specified MoH server account according to the SIP URI. The MoH server account automatically responds to the INVITE message and immediately plays audio from some source located anywhere (LAN, Internet) to the held party. For more information, refer to RFC worley-service-example.

10.17.3 How to Hold call

When party A is in an active call with party B, party A can Hold this call by pressing "Hold". Then, party B will be held on. Party A can resume this call by pressing "Retrieve".



10.18 Call Mute

You can mute the microphone of the active audio device (handset, headset or speakerphone) on ALE phones during an active call or when the phone is on the calling/ringing screen. The call is automatically muted when setting up successfully. Muting before a call is answered prevents the other party from hearing local discussion. You can activate the mute feature by pressing the MUTE key.

Normally, the mute feature is automatically deactivated when the active call ends. You can use the keep mute feature to keep the mute state persisting across the calls. In a call center or meeting room, if incoming calls are answered automatically, the callers may hear the local discussion. Therefore, you can mute the phone in an idle state to prevent unintended situations. The mute state persists across calls until you unmute the microphone manually or until the phone restarts. You can activate the mute feature by pressing the MUTE key in idle/ dial/ringing/calling/talking state.

The following table lists the parameter you can use to enable or disable keep mute.

Parameter	FeatureKeepMuteEnable	config.xml
Description	It configures the keep mute feature for the IP phone.	
Permitted Values	false - disable true - enable	
Default	false	

10.19 Call Transfer

Call transfer enables the IP phones to transfer an existing call to a third party. For example, if party A is in an active call with party B, party A can transfer this call to party C (the third party). Then, party B will begin a new call with party C, and party A will disconnect.

The ALE Myriad Series phones support call transfer using the REFER method specified in RFC 3515 and offer two types of transfer:

- **Blind Transfer** Transfer a call directly to another party without consulting. Blind transfer is implemented by a simple REFER method without Replaces in the Refer-To header.
- **Attended Transfer (Consultative Transfer)** Transfer a call with prior consulting. Attended transfer is implemented by a REFER method with Replaces in the Refer-To header.
- **Semi-attended Transfer** Transfer a call without consulting but need ringing. Attended transfer is implemented by a REFER method with Replaces in the Refer-To header.

10.19.1 Call Transfer Configuration

The following table lists the parameters you can use to configure call transfer.

Parameter	TelephonyTransferAllowed	config.xml
Description	It enables or disables the transfer feature of the IP phone.	
Permitted	false - disable	
Values	true - enable	



Default	true	
Parameter	TelephonyBlindTransferAllowed	config.xml
Description	It enables or disables the blind transfer.	
Permitted	false - disable	
Values	true - enable	
Default	true	
Parameter	FeatureBlindTransferOnHookEnable	config.xml
Description	Enable and disable the blind transfer operation when hanging up.	
Permitted	false:disable feature	
Values	true:enable feature	
Default	true	
Parameter	FeatureAttendedTransferOnHookEnable	config.xml
Description	Enable and disable the attended transfer operation when hanging up.	
Permitted	false:disable feature	
Values	true:enable feature	
Default	true	
Parameter	FeatureTransAfterConfEnable	config.xml
	It configures the meeting initiator to hang up the phone and allow the	
	other two parties to continue the conversation.	
Description	Note:It is takes effect only for Local conferences.	
Permitted	false:disable feature	
Values	true:enable feature	
Default	false	
Parameter	FeatureTransProgKeyDealType	config.xml
Description	It configures the behavior after the Programmable key is pressed durin	ng a call.
	0: New Call	
	1: Attended Transfer	
Permitted	2: Blind Transfer	
Values	3: Blind Transfer Optional	
Default	2	
Parameter	SIPTranSuccessfulNotify	config.xml
Description	It configures enable or disable the Semi-attend Transfer function.	



Permitted	false:disable feature	
Values	true:enable feature	
Default	false	
Parameter	SIPTranSuccessfulNotify	config.xml
	It configures after the Transfer operation is configured, which signalin	g is received,
Description	indicates that the Transfer is successful, and the transfer process ends	
	0 - NOTIFY containing a 2xx Status-Line	
	1 - NOTIFY containing a 100 Status-Line	
Permitted	2 - NOTIFY containing a 180 Status-Line	
Values	3 - REFER's 202 response	
Default	0	

10.19.2 How to Make a Transfer Call

• **Blind Transfer call**: When in an active call with party B, party A presses "Transfer" to input party C Number, and then party A can transfer this call to party C (the third party) by pressing "B Trsf". Party B will begin a new call with party C, and party A will disconnect.



• **Consultative Transfer call**: When in an active call with party B, party A presses "Transfer" to input party C Number, and party A will begin a new call with party C by pressing "Call". Then, party A can transfer this call to party B (the third party) by pressing "Transfer", and party A will disconnect.



• Semi-attended Transfer call: When in an active call with party B, party A presses "Transfer" to input party C Number, and party A will begin a new call with party C by pressing "Call". Then, party A can transfer this call to party B (the third party) by pressing "Transfer" without party C answering the call, and party A will disconnect.



• **Option Transfer call**: When DUT configuration FeatureTransProgKeyDealType = 3, call press BLF key, pop-up function selection interface (does not affect the current call status), can use the direction key + the Select (OK) key choose corresponding call operation; Or click Cancel (C key) to exit the selection screen and return to the call screen (Hard keys for other functions do not take effect).

Ð	1/1 Conversation 00:	01
L	Attended Transfer	O
	Blind Transfer	
	New Call	
		34
Sel	ect	Cancel

10.19.3 Transfer Mode Configuration for Programmable Key

You can configure the transfer mode for the IP phone when transferring the current call via a specified programmable key. The ALE Myriad Series phones support the transfer modes: New Call, Blind Transfer.

The following table lists the parameters you can use to configure the transfer mode for a programmable key.

Parameter	FeatureTransferKeyAsBlindTransferEnable	config.xml
Description	It configures the transfer mode for a programmable key. When DSS Key during a call, the programmable key behavior depends mode.	the user presses the on the transfer
Permitted Values	false - disable true - enable	
Default	false	

10.20 Conference

The ALE Myriad Series phones support three-way local conference and multi-way network conference.

10.20.1 Local Conference Configuration

The local conference requires a host phone to process the audio of all parties. The ALE Myriad Series phones support up to 3 parties (5 parties for the M7 IP phone) (12 parties for the M8 IP phone) (including yourself) in a local conference call.

You can enable or disable the local conference feature and configure the way to set up a local conference.

For the ALE Myriad Series deskphones, you can merge two calls into a conference directly by pressing the Conf soft key or Conf hard key.

For a local three-way conference, if the conference initiator leaves the conference, all parties are disconnected and the conference call ends. You can enable Transfer on Conference Hang Up feature and allow the other two parties to remain connected when the conference initiator drops the conference call.

The following table lists the parameters you can use to configure local conferences.

Note: X means account ID. It can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXLocalConfEnable	config.xml
Description	It enables or disables the local conference feature of the IP phone.	
Permitted Values	false - disable true - enable	
Default	true	
Web UI	Features \rightarrow SIP \rightarrow Local Conference Enable	

10.20.1.1 Transfer on Conference

You can enable Transfer on Conference Hang Up feature and allow the other two parties to remain connected when the conference initiator drops the conference call.



10.20.1.2 Conference Manage

Support for local conference management capabilities, the ability to control hold and mute for each participant.





10.20.2 Network Conference Configuration

Network conference, also known as a centralized conference, provides you with the flexibility of call with multiple participants (more than three). The IP phones implement network conference using the REFER method specified in RFC 4579. This feature depends on the support from a SIP server.

For network conference, if any party leaves the conference, the remaining parties are still connected.

The following table lists the parameters you can use to configure network conference.

Note: X means account ID. It can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXNConfUri	config.xml
Description	It configures the network conference URI for a specific account.	
Description	Note: Network conference URI takes effect only when local conference is set to false.	
Permitted	TEXT	
Values		
Default	Blank	
Web UI	Account \rightarrow Advanced \rightarrow N-conference URI	
Parameter	AccountXNConfMethod	config.xml
Description	It configures the network conference method.	
Permitted	0: Send refer to peer call.	
Values	1: Direct call out.	
Default	0	
Web UI	None	

10.21 Keep Mute

The user can mute the phone in an idle state to prevent unintended situations. The mute state remains during the calls until the user unmutes the microphone manually or until the phone restarts.

The following table lists the parameters you can use to enable or disable Keep Mute.

Parameter FeatureKeepMuteEnable config.xit	nl
--	----



Description	It configures the Keep Mute feature of the IP phone.
Permitted Values	false - disable true - enable
Default	false

10.22 Auto Redial

You can configure the phone to automatically redial the last dialed number when the call is temporarily unavailable. Both the number of attempts and waiting time between redials are configurable.

Parameter	FeatureAutoRedialEnable	config.xml	
Description	It enables or disables the IP phone to automatically redial the last dialed number when the callee is temporarily unavailable.		
Permitted Values	false - disable true - enable		
Default	false		
Web UI	Features \rightarrow General \rightarrow Auto Redial		
Phone UI	Menu \rightarrow Features \rightarrow Auto Redial		
Parameter	FeatureAutoRedialTimes config.xml		
Description	It configures the interval (in seconds) for the IP phone to wait between redials. The IP phone redials the last dialed number at regular intervals till the callee answers the call.		
Permitted Values	Integer from 1 to 10		
Default	5		
Web UI	Features → General → Auto Redial Times (1~10)		
Phone UI	Menu \rightarrow Features \rightarrow Auto Redial		
Parameter	FeatureAutoRedialIntervalconfig.xmlNote: This feature is only for Myriad phones.config.xml		
Description	It configures the auto redial times when the callee is temporarily unavailable. The IP phone tries to redial the callee as many times as configured till the callee answers the call.		
Permitted Values	Integer from 1 to 60		
Default	10		

The following table lists the parameters you can use to configure auto redial.



Web UI	Features \rightarrow General \rightarrow Auto Redial Interval (1~60s)
Phone UI	Menu → Features → Auto Redial

10.23 USB Recording

10.23.1 USB Recording switch

ALE phones support manual recording during a call or automatic recording once the call is set up. Before recording, ensure that the USB disk has been connected to the IP phone. This is for devices that have USB A ports on them. Currently, support FAT32 and NFTS format. Supports a maximum of 64 GB memory space.

Parameter	FeatureUsbCallRecordingEnable	config.xml	
Description	It enables or disables the call recording (using a USB flash drive) feature of the IP phone.		
Permitted Values	false - disable true - enable		
Default	false		
Parameter	FeatureAutoRecordingEnable	config.xml	
Description	It enables or disables the automatic recording feature of the IP phor	ne.	
Permitted Values	false - disable true - enable		
Default	false		

10.23.2 USB Recording file upload

ALE phones support backup recording file to server.

After the upload function is enabled, the phone can use http or https to upload files using put or post to back up files to the server. It also supports automatic upload and manual upload for easy operation.

Parameter	FeatureRecordingUploadEnable	config.xml
Description	It configures to enable the local automatic recording upload function.	
Permitted	false: Disable the phone recording file upload function.	
Values	true: Enable the phone recording file upload function	
Default	false	
Parameter	FeatureRecordingUploadServerUrl	config.xml
Description	It configures the IP address of the server for uploading local recording	ng files is specified
Permitted	URL within 511 characters	
Values	Note: It is valid only the FeatureRecordingUploadEnable is true.	



Default	Blank		
Parameter	FeatureRecordingUploadServerUsername	config.xml	
Description	It configures the authentication username of the server where the local recording file uploaded is specified. Note: It is valid only the FeatureRecordingUploadEnable is true.		
Permitted Values	String within 64 characters		
Default	Blank		
Parameter	FeatureRecordingUploadServerPassword	config.xml	
Description	It configures the authentication password of the server where the local recording file uploaded is specified. Note: It is valid only the FeatureRecordingUploadEnable is true.		
Permitted Values	String within 64 characters		
Default	Blank		
Parameter	FeatureRecordingUploadAutoEnable config.xml		
Description	It configures to enable the automatic uploading of local recording files to the server immediately after the generation of local recording files.		
Permitted Values	false: Disable the phone immediately auto recording file upload function. true: Enable the phone immediately auto recording file upload function. Note: It is valid only the FeatureRecordingUploadEnable is true.		
Default	false		
Parameter	FeatureRecordingUploadDailyEnable	config.xml	
Description	It configures to enable the scheduled upload of local recording files.		
Permitted Values	false: Disable the phone recording file scheduled upload function. true: Enable the phone recording file scheduled upload function. Note: It is valid only the FeatureRecordingUploadEnable is true.		
Default	false		
Parameter	FeatureRecordingUploadBeginTime config.xml		
Description	It configures to enable the scheduled upload of local recording files start time.		
Permitted Values	Time from 00:00 to 23:59 Note: It is valid only the eatureRecordingUploadDailyEnable is true.		
Default	00:00		

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Parameter	FeatureRecordingUploadEndTime	config.xml	
Description	It configures to enable the scheduled upload of local recording files end time.		
Permitted	Time from 00:00 to 23:59		
Values	Note: It is valid only the FeatureRecordingUploadDailyEnable is true.		
Default	00:00		
Parameter	FeatureRecordingAutoDeleteEnable	config.xml	
Description	It configures enable or disable the function of automatically deleting		
Description	USB flash drive recording files.		
Permitted	false – Disable		
Values	true - Enable		
Default	false		
Parameter	FeatureRecordingAutoDeleteThreshold config.xml		
Description	It configures the remaining capacity of the USB flash drive, the earliest		
Description	recording files are automatically deleted.		
Permitted Values	The integer ranges from 0 to 1024. The unit is MB.		
Default	20		
Parameter	FeatureRecordingFileDeleteMethod	config.xml	
Description	It configures the method for automatically deleting recording files.	elete or not delete	
Description	recording files after uploading successfully.		
Dormittad	0: Do not delete local recording files.		
Values	1: Delete recording files after uploading successfully.		
	Note: It is valid only the FeatureRecordingUploadEnable is true.		
Default	0		
Parameter	FeatureRecordingUploadRetryTimes config.xml		
Description	It configures retry times when recording file upload failed.		
Devesitted	0-5		
Values	Note: zero is meads that do not retry.		
	Note: It is valid only the FeatureRecordingUploadEnable is true.		
Default	2		

10.23.3 USB Recording interface information

A. When you insert the USB drive, you can see a USB directory appears under the Menu item. This directory can access the recording files generated during your call.



Menu			
History			
Basic Setting			
Advanced Setting			
USB Record			
Back			Enter

B. On this screen, you can view the recording file in .wav format. The recording file contains the call time and the called and called account information as the file name. ALE Phones maximum of 1000 entries are supported.

USB Record			
File Upload L	ist		
20230310-023648-10014-10019.wav			
20230310-015316-10019-10014.wav			
20230310-015226-10014-10019.wav			
Back		* *	Enter

C. When you select the relevant recording information, we can see that soft key supports delete, details, and play functions.

1. You press "Delete" key to delete a record.



2. You can press "Option" key to view more option information, for example: Delete all, Upload, Detail.....



Option			
Detail			
Upload			
Upload All			
Delete all			
Back			ок

3.You can press "Play" to play record file.

20230310-023648-10014-10019.wav			
File Size			64.38 KB
Playing			00:00:02
Back			

4.The "File Upload List" will tell you success or fail the record file upload to server.

File Upload List			
10019-10014.wav		Succ	essful
20230310-023648		Failure	
Back		Delete	Delete all

5. If the upload takes a while, you can see an upload icon in idle, indicating that the upload is in progress.





10.24 Confidential Dial and Incoming call

Password dial/incoming call feature allows the peer number to be partially displayed on the IP phone when placing a call or receiving a call. The hidden digits are displayed as asterisks on the phone screen. The number in the placed/received call list is also partially displayed on the IP phone. This feature is especially useful for users who often place important and confidential calls.

Parameter	FeatureConfidentialDialEnable	config.xml
Description	It configures whether to enable or disable the password dial feature	
Permitted	false - disable	
Values	true - enable	
Default	false	
Web UI	Setting \rightarrow General \rightarrow Confidential Dial Enable	
Parameter	FeatureConfidentialDialPrefix	config.xml
Description	It configures the prefix of the number that needs to be partially disp	layed.
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Features \rightarrow General \rightarrow Confidential Dial Prefix	
Parameter	FeatureConfidentialDialLength	config.xml
Description	It configures how many digits need to be displayed as asterisks.	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	Features \rightarrow General \rightarrow Confidential Dial Length (0-32)	

The following table lists the parameters you can use to configure password dial.

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Parameter	FeatureConfidentialIncomingCallEnable	config.xml
Description	It configures whether to enable or disable the confidential incoming	call feature.
Permitted	false - disable	
Values	true - enable	
Default	false	
Web UI	None	
Parameter	FeatureConfidentialIncomingCallPrefix	config.xml
	It configures the prefix of the number that needs to be partially disp	layed.
Description	It only in FeatureConfidentialIncomingCallEnable is true is valid.	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	None	
Parameter	FeatureConfidentialIncomingCallLength	config.xml
	It configures how many digits need to be displayed as asterisks.	
Description	It only in FeatureConfidentialIncomingCallEnable is true is valid.	
Permitted Values	String within 32 characters	
Default	Blank	
Web UI	None	

10.25 Multicast Paging

Multicast Paging allows you to broadcast instant audio announcements easily and quickly to users who are listening to a specific multicast group on a specific channel.

The ALE Myriad Series phones support the following 26 channels:

0 to 25: Broadcasts are sent to channel 0 to 25.

The IP phones can only send and receive broadcasts to/from the listened channels. Other channels' broadcasts will be ignored automatically by the IP phone.

10.25.1 Multicast Paging Group Configuration

The ALE Myriad Series phones support up to 25 groups for paging. You can assign multicast IP addresses with a channel for each group, and specify a label to each group to identify the phones in the group, such as All, Sales, or HR.

Tip: You can set a Program key as Multicast Paging key or Paging list key on the phone, which allows you to send announcements to the phones with the pre-configured multicast address(es) on the specific channel(s).



Parameter	MulticastPagingAddress[1-25]	config.xml
Description	It configures the IP address and port number of the multicast paging gr	oup in the paging list.
Permitted Values	IP address: port (224.0.0.1-239.255.255.255 port: 1-65535)	
Default	Blank	
Web UI	Features \rightarrow Multicast Paging \rightarrow Paging List	
Parameter	MulticastPagingAddress[1-25]Label	config.xml
Description	It configures the name of the multicast paging group to be displayed in It will be displayed on the phone screen when placing the multicast pag	the paging list. ing calls.
Permitted Values	String within 64 characters	
Default	Blank	
Web UI	Features \rightarrow Multicast Paging \rightarrow Paging List	
Parameter	MulticastPagingAddress[1-25]Channel	config.xml
Description	It configures the channel of the multicast paging group in the paging lis	t.
Permitted Values	0-25	
Default	1	
Web UI	Features \rightarrow Multicast Paging \rightarrow Paging List	

The following table lists the parameters you can use to configure a multicast paging group.

10.25.2 Multicast Listening Group Configuration

The ALE Myriad Series phones support up to 25 groups for listening. You can assign multicast IP addresses with a channel for each group, and specify a label to each group to identify the phones in the group, such as All, Sales, or HR.

The following table lists the parameters you can use to configure the multicast listening group.

Parameter	MulticastListeningAddress[1-25]	config.xml
Description	It configures the multicast address and port number that the phone listens to.	
Permitted Values	IP address: port (224.0.0.1-239.255.255.255 port: 1-65535)	
Default	Blank	
Web UI	Features \rightarrow Multicast Paging \rightarrow Listening List	

Parameter	MulticastListeningAddress[1-25]Label	config.xml
Description	It configures the label to be displayed on the phone screen when receiving the multicast paging calls.	
Permitted Values	String within 64 characters	
Default	Blank	
Web UI	Features \rightarrow Multicast Paging \rightarrow Listening List	
Parameter	MulticastListeningAddress[1-25]Channel	config.xml
Description	It configures the channel that the phone listens to.	
Permitted Values	0-25	
Default	1	
Web UI	Features \rightarrow Multicast Paging \rightarrow Listening List	

10.25.3 Multicast Paging Settings

You can configure some general settings for multicast paging, for example, specify a codec, and configure the volume and audio device for listening to a paging call.

By default, all the listening groups are considered with a certain priority from 0 (lower priority) to 25 (higher priority). If you neither want to receive some paging calls nor miss urgent paging calls when there is a voice call or paging call, or when DND is activated, you can use the priority to define how your phone handles different incoming paging calls.

Paging Barge

You can set your phone to whether an incoming paging call interrupts an active call.

The Paging Barge defines the lowest priority of the paging group from which the phone can receive a paging call when there is a voice call (a normal phone call rather than a multicast paging call) in progress. You can specify a priority that the incoming paging calls with higher or equal priority are automatically answered, and the lower ones are ignored.

If it is disabled, all incoming paging calls will be automatically ignored.

Paging Priority

You can set your phone whether a new incoming paging call interrupts a current paging call.

The Paging Priority feature decides how the phone handles incoming paging calls when there is already a paging call on the phone. If enabled, the phone will ignore incoming paging calls with lower priorities, otherwise, the phone will answer incoming paging calls automatically and place the previous paging call on hold. If disabled, the phone will automatically ignore all incoming paging calls.

DND for Ignoring Paging Call

If you do not want to miss some urgent paging calls when DND is activated. You can use the Ignore DND feature to define the lowest priority of paging group from which the phone can receive an urgent paging call when DND is activated. You can specify a priority that the incoming paging calls with higher or equal priority are automatically answered, and the lower ones are ignored.

If it is disabled, all the incoming paging calls will be ignored when DND is activated in phone mode.

The following table lists the parameters you can use to change multicast paging settings.

Parameter	MulticastCodec	config.xml
Description	It configures the codec for multicast paging.	
	0 - PCMU mulaw	
Permitted	8 - PCMA alaw	
Values	9 - G722	
	18 - G729	
Default	9	
Web UI	Features \rightarrow Multicast Paging \rightarrow Multicast Paging Codec	
Parameter	MulticastReceiveCallBargePriority	config.xml
Description	It configures the priority of the voice call (a normal phone call i	rather than a multicast
Description	paging call) in progress.	
Permitted	0-25	
Values		
Default	0	
Web UI	Features \rightarrow Multicast Paging \rightarrow Paging Barge	
Parameter	MulticastReceiveIgnoreDndPriority	config.xml
It configures the lowest priority of the multicast paging call that can be		t can be received when
Description	DND is activated in phone mode.	
Permitted	0-25	
Values		
Default	0	
Web UI	Features \rightarrow Multicast Paging \rightarrow Ignore Dnd	
Parameter	MulticastReceivePriorityEnable	config.xml
Description	It enables or disables the phone to handle the incoming multic	ast paging calls when
	there is an active multicast paging call on the phone.	
Permitted	false - disable	
Values	true - enable	



Default	true	
Web UI	Features \rightarrow Multicast Paging \rightarrow Paging Priority	
Parameter	MulticastReceiveUseHandfree config.xml	
Description	It enables or disables the phone to always use the speaker as the audio device when receiving the multicast paging calls.	
Permitted	false - disable	
Values	true - enable	
Default	false	
Parameter	MulticastPagingAutoResumeEnable	config.xml
Description	It enables or disables the phone to automatically resume the held multicast paging call after the second multicast paging call or a new call end.	
Permitted	false - disable	
Values	true - enable	
Default	false	
Parameter	MulticastPagingCallId	config.xml
Description	Configure the Call ID to use for Multicast Paging	
Permitted Values	String within 13 characters	
Default	Pegasus	

10.26 Action URL

Action URL allows IP phones to interact with web server applications by sending an HTTP or HTTPS GET request.

You can specify a URL that triggers a GET request when a specified event occurs. Action URL can only be triggered by the pre-defined events (for example, Open DND). The valid URL format is: http(s)://IP address of the server/help.xml?.

An HTTP or HTTPS GET request may contain a variable name and a variable value, separated by "=". Each variable value starts with \$ in the query part of the URL. The valid URL format is: http(s)://IP address of server/help.xml?variable namee=\$ variable value. The variable name can be customized by users, while the variable value is pre-defined. For example, a URL

"http://192.168.1.10/help.xml?mac=\$mac" is specified for the event Mute, \$mac will be dynamically replaced with the MAC address of the IP phone when the IP phone mutes a call.

10.26.1 Pre-defined Events List

The following table lists the pre-defined events for action URL.

Event Description

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Setup Completed	When the IP phone completes startup.
Register Succeeded	When the IP phone successfully registers an account.
Unregistered	When the IP phone logs out of the registered account.
Register Failed	When the IP phone fails to register an account.
Off Hook	When the IP phone is off hook.
On Hook	When the IP phone is on hook.
Incoming Call	When the IP phone receives an incoming call.
Reject Incoming Call	When the IP phone rejects an incoming call.
Answer Incoming Call	When the IP phone answers a new call.
Outgoing Call	When the IP phone places a call.
Cancel Outgoing Call	When the phone cancels an outgoing call in the ring-back state.
Remote Busy	When an outgoing call is rejected.
Call Remote Canceled	When the remote party cancels the outgoing call in the ringing state.
Missed Call	When the IP phone misses a call.
Call Established	When the IP phone establishes a call.
Call Terminated	When the IP phone terminates a call.
DND Enabled	When the IP phone enables the DND mode. Note: When the DND mode is Phone, the phone sends the action URL for all accounts.
	URL for the corresponding account.
DND Disabled	When the IP phone disables the DND mode. Note: When the DND mode is Phone, the phone sends the action URL for all accounts. When the DND mode is Custom, the phone only sends the action URL for the corresponding account.
Immediate Forward Enabled	When the IP phone enables the always forward. Note: When the forward mode is Phone, the phone sends the action URL for all accounts. When the forward mode is Custom, the phone only sends the action URL for the corresponding account.
Immediate Forward Disabled	When the IP phone disables the always forward. Note: When the forward mode is Phone, the phone sends the action URL for all accounts.



	When the forward mode is Custom, the phone only sends the action URL for the corresponding account.
Busy Forward Enabled	 When the IP phone enables the busy forward. Note: When the forward mode is Phone, the phone sends the action URL for all accounts. When the forward mode is Custom, the phone only sends the action URL for the corresponding account.
Busy Forward Disabled	When the IP phone disables the busy forward. Note: When the forward mode is Phone, the phone sends the action URL for all accounts. When the forward mode is Custom, the phone only sends the action URL for the corresponding account.
No Reply Forward Enabled	When the IP phone enables the no answer forward. Note: When the forward mode is Phone, the phone sends the action URL for all accounts. when the forward mode is Custom, the phone only sends the action URL for the corresponding account.
No Reply Forward Disabled	When the IP phone disables the no answer forward. Note: When the forward mode is Phone, the phone sends the action URL for all accounts. When the forward mode is Custom, the phone only sends the action URL for the corresponding account.
Forward Incoming Call	When the IP phone forwards an incoming call.
Call Transfer	When the IP phone transfers a call.
Blind Transfer	When the IP phone performs the blind transfer.
Attended Transfer	When the IP phone performs the semi-attended/attended transfer.
Transfer Failed	When the IP phone fails to transfer a call.
Transfer Failed	When the IP phone completes transferring a call.
Call Waiting Enabled	When the IP phone enables the call waiting.
Call Waiting Enabled	When the IP phone disables the call waiting.
Call Hold	When the IP phone places a call on hold.
Call Resume	When the IP phone resumes a held call.
Mute	When the IP phone mutes a call.
UnMute	When the IP phone un-mutes a call.
IP Changed	When the IP address of the IP phone changes.

Idle To Busy	When the state of the IP phone changes from idle to busy.
Busy To Idle	When the state of phone changes from busy to idle.
Autop Start	When the IP phone starts auto provisioning.
Autop Finish	When the IP phone completes auto provisioning via power on.
Headset	When the IP phone presses the HEADSET key.
Handfree	When the IP phone presses the Speakerphone key.
Peripheral Information	When the accessory is unplugged or plugged.
VPN IP	When the phone IP address assigned by the VPN server changes.
Reboot	When the IP phone starts reboot.
Reset	When the IP phone starts reset.
Screen Active	When the IP phone screen is active.
Screen Inactive	When the IP phone screen is inactive.
Conference Established	When the IP phone establishes a conference.

10.26.2 Variable Values List

The following table lists pre-defined variable values.

Variable Value	Description
\$mac	The MAC address of the IP phone.
\$ip	The IP address of the IP phone.
\$model	The IP phone model.
\$firmware	The firmware version of the IP phone.
\$active_url	The SIP URI of the current account when the IP phone places a call, receives an incoming call or establishes a call.
\$active_user	The user part of the SIP URI for the current account when the IP phone places a call, receives an incoming call or establishes a call.
\$active_host	The host part of the SIP URI for the current account when the IP phone places a call, receives an incoming call or establishes a call.
\$local	The SIP URI of the caller when the IP phone places a call. The SIP URI of the callee when the IP phone receives an incoming call.
\$remote	The SIP URI of the callee when the IP phone places a call.



	The SIP URI of the caller when the IP phone receives an incoming call.
\$display_local	The display name of the caller when the IP phone places a call. The display name of the callee when the IP phone receives an incoming call.
\$display_remote	The display name of the callee when the IP phone places a call. The display name of the caller when the IP phone receives an incoming call.
\$call_id	The call-id of the active call.
\$callerID	The display name of the caller when the IP phone receives an incoming call.
\$calledNumber	The phone number of the callee when the IP phone places a call.
\$addon_number	The number of connected Addon.
\$udisk_number	The number of connected USB flash drives.
\$usbheadset_number	The number of connected USB headset devices.
\$vpn_ip	The phone IP address assigned by the VPN server.

10.26.3 Action URL Configuration

The following table lists the parameters you can use to configure action URL.

Parameter	ActionUrlSetupCompleted	config.xml
Description	It configures the action URL the phone sends after startup.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Setup Completed	
Parameter	ActionUrlRegisterSucceeded	config.xml
Description	It configures the action URL the phone sends after an account is	registered.
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Register Succeeded	



Parameter	ActionUrlRegisterFailed	config.xml	
Description	It configures the action URL the phone sends after registration fails.		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features \rightarrow Action URL \rightarrow Register Failed		
Parameter	ActionUrlUnregistered	config.xml	
Description	It configures the action URL the phone sends after an account is unregistered.		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features \rightarrow Action URL \rightarrow Unregistered		
Parameter	ActionUrlOffHook	config.xml	
Description	It configures the action URL the phone sends when off hook.		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features \rightarrow Action URL \rightarrow Off Hook		
Parameter	ActionUrlOnHook	config.xml	
Description	It configures the action URL the phone sends when on hook.		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features \rightarrow Action URL \rightarrow On Hook		
Parameter	ActionUrlIncomingCall	config.xml	
Description	It configures the action URL the phone sends when receiving an	incoming call.	
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features \rightarrow Action URL \rightarrow Incoming Call		
Parameter	ActionUrlRejectIncomingCall	config.xml	
Description	It configures the action URL the phone sends when rejecting an	incoming call.	

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Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features \rightarrow Action URL \rightarrow Reject Incoming Call		
Parameter	ActionUrlAnswerIncomingCall	config.xml	
Description	It configures the action URL the phone sends when answering a	new incoming call.	
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features \rightarrow Action URL \rightarrow Answer Incoming Call		
Parameter	ActionUrlOutgoingCall	config.xml	
Description	It configures the action URL the phone sends when placing a call.		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features \rightarrow Action URL \rightarrow Outgoing Call		
Parameter	ActionUrlCancelOutgoingCall	config.xml	
Description	It configures the action URL the phone sends when canceling the ring-back state.	e outgoing call in the	
Permitted			
Values	URL within 511 characters		
Values Default	URL within 511 characters Blank		
Values Default Web UI	URL within 511 characters Blank Features → Action URL → Cancel Outgoing Call		
Values Default Web UI Parameter	URL within 511 characters Blank Features → Action URL → Cancel Outgoing Call ActionUrlRemoteBusy	config.xml	
Values Default Web UI Parameter Description	URL within 511 characters Blank Features → Action URL → Cancel Outgoing Call ActionUrlRemoteBusy It configures the action URL the phone sends when the outgoing	config.xml g call is rejected.	
Values Default Web UI Parameter Description Permitted Values	URL within 511 characters Blank Features → Action URL → Cancel Outgoing Call ActionUrlRemoteBusy It configures the action URL the phone sends when the outgoing URL within 511 characters	config.xml g call is rejected.	
Values Default Web UI Parameter Description Permitted Values Default	URL within 511 characters Blank Features → Action URL → Cancel Outgoing Call ActionUrlRemoteBusy It configures the action URL the phone sends when the outgoing URL within 511 characters Blank	config.xml g call is rejected.	
Values Default Web UI Parameter Description Permitted Values Default Web UI	URL within 511 characters Blank Features → Action URL → Cancel Outgoing Call ActionUrlRemoteBusy It configures the action URL the phone sends when the outgoing URL within 511 characters Blank Features → Action URL → Remote Busy	config.xml g call is rejected.	
Values Default Web UI Parameter Description Permitted Values Default Web UI Parameter	URL within 511 characters Blank Features → Action URL → Cancel Outgoing Call ActionUrlRemoteBusy It configures the action URL the phone sends when the outgoing URL within 511 characters Blank Features → Action URL → Remote Busy ActionUrlCallRemoteCanceled	config.xml	
Permitted Values	URL within 511 characters		
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Default	Blank		
Web UI	Features \rightarrow Action URL \rightarrow Call Remote Canceled		
Parameter	ActionUrlMissedCall	config.xml	
Description	It configures the action URL the phone sends when missing a call.		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features \rightarrow Action URL \rightarrow Missed Call		
Parameter	ActionUrlCallEstablished	config.xml	
Description	It configures the action URL the phone sends when establishing	a call.	
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features \rightarrow Action URL \rightarrow Call Established		
Parameter	ActionUrlCallTerminated	config.xml	
Description	It configures the action URL the phone sends when terminating a call.		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features \rightarrow Action URL \rightarrow Call Terminated		
Parameter	ActionUrlDNDEnabled	config.xml	
Description	It configures the action URL the phone sends when DND feature is activated.		
Permitted Values	URL within 511 characters		
Default	Blank		
Web UI	Features \rightarrow Action URL \rightarrow DND Enabled		
Parameter	ActionUrlDNDDisabled	config.xml	
Description	It configures the action URL the phone sends when DND feature	e is deactivated.	
Permitted Values	URL within 511 characters		
Default	Blank		

Web UI	Features \rightarrow Action URL \rightarrow DND Disabled	
Parameter	ActionUrlImmediateForwardEnabled config.xml	
Description	It configures the action URL the phone sends when the always forward feature is activated.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Immediate Forward Enabled	
Parameter	ActionUrlImmediateForwardDisabled	config.xml
Description	It configures the action URL the phone sends when the always forward feature is deactivated.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Immediate Forward Disabled	
Parameter	ActionUrlBusyForwardEnabled	config.xml
Description	It configures the action URL the phone sends when the busy forward feature is activated.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Busy Forward Enabled	
Parameter	ActionUrlBusyForwardDisabled	config.xml
Description	It configures the action URL the phone sends when the busy forward feature is deactivated.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Busy Forward Disabled	
Parameter	ActionUrlNoReplyForwardEnabled	config.xml
Description	It configures the action URL the phone sends when the no answer forward feature is activated.	
Permitted Values	URL within 511 characters	



Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow No Reply Forward Enabled	
Parameter	ActionUrlNoReplyForwardDisabled	config.xml
Description	It configures the action URL the phone sends when the no answer forward feature is deactivated.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow No Reply Forward Disabled	
Parameter	ActionUrlForwardIncomingCall	config.xml
Description	It configures the action URL the phone sends when forwarding a	an incoming call.
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Forward Incoming Call	
Parameter	ActionUrlCallTransfer	config.xml
Description	It configures the action URL the phone sends when performing a transfer.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Call Transfer	
Parameter	ActionUrlBlindTransfer	config.xml
Description	It configures the action URL the phone sends when performing a blind transfer.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Blind Transfer	
Parameter	ActionUrlAttendedTransfer	config.xml
Description	It configures the action URL the phone sends when performing an attended/semi- attended transfer.	
Permitted Values	URL within 511 characters	
Default	Blank	



Web UI	Features \rightarrow Action URL \rightarrow Attended Transfer	
Parameter	ActionUrlTransferFailed config.xml	
Description	It configures the action URL the phone sends when transferring a call fails.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Transfer Failed	
Parameter	ActionUrlTransferFinished	config.xml
Description	It configures the action URL the phone sends when completing	a call transfer.
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Transfer Finished	
Parameter	ActionUrlCallWaitingEnabled	config.xml
Description	It configures the action URL the phone sends when the call waiting feature is enabled.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Call Waiting Enabled	
Parameter	ActionUrlCallWaitingDisabled	config.xml
Description	It configures the action URL the phone sends when the call waiting feature is disabled.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Call Waiting Disabled	
Parameter	ActionUrlCallHold	config.xml
Description	It configures the action URL the phone sends when placing a cal	ll on hold.
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Call Hold	



Parameter	ActionUrlCallUnhold	config.xml
Description	It configures the action URL the phone sends when resuming a hold call.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Call Resume	
Parameter	ActionUrlMute	config.xml
Description	It configures the action URL the phone sends when muting a call.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Mute	
Parameter	ActionUrlUnmute	config.xml
Description	It configures the action URL the phone sends when un-muting a call.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow UnMute	
Parameter	ActionUrlIpChanged	config.xml
Description	It configures the action URL the phone sends when changing the IP address of the phone.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow IP Changed	
Parameter	ActionUrlIdleToBusy	config.xml
Description	It configures the action URL the phone sends when changing the state of the IP phone from busy to idle.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Idle To Busy	
Parameter	ActionUrlBusyToIdle	config.xml



Description	It configures the action URL the phone sends when changing the state of the phone from idle to busy.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Busy To Idle	
Parameter	ActionUrlAutopStart	config.xml
Description	It configures the action URL the phone sends when starting auto provisioning.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Autop Start	
Parameter	ActionUrlAutopFinish	config.xml
Description	It configures the action URL the phone sends when completing auto provisioning via power on.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Autop Finish	
Parameter	ActionUrlHeadset	config.xml
Description	It configures the action URL the phone sends when pressing the HEADSET key.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Headset	
Parameter	ActionUrlHandfree	config.xml
Description	It configures the action URL the phone sends when pressing the	Speakerphone key.
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Handfree	
Parameter	ActionUrlPeripheralInformation	config.xml



Description	It configures the action URL the phone sends when you unplug	or plug the
•	accessory.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Peripheral Information	
Parameter	ActionUrlVpnIp	config.xml
Description	It configures the action URL the phone sends when the IP address assigned by the VPN server changes.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow VPN IP	
Parameter	ActionUrlReboot	config.xml
Description	It configures the action URL the phone sends when start to reboot.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Reboot	
Parameter	ActionUrlReset	config.xml
Description	It configures the action URL the phone sends when start to reset.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Reset	
Parameter	ActionUrlScreenActive	config.xml
Description	It configures the action URL the phone sends when the screen is active.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Screen Active	
Parameter	ActionUrlScreenInactive	config.xml
Description	It configures the action URL the phone sends when the screen is	s inactive.

Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Screen Inactive	
Parameter	ActionUrlConferenceEstablished config.xml	
Description	It configures the action URL the IP phone sends when establishing a conference.	
Permitted Values	URL within 511 characters	
Default	Blank	
Web UI	Features \rightarrow Action URL \rightarrow Conference Established	

10.27 Action URI

The ALE Myriad Series phones can perform the specified action by receiving and handling an HTTP or HTTPS GET request or accepting a SIP NOTIFY message with the "Event: ACTION-URI" header from a SIP proxy server.

10.27.1 Supported HTTP/HTTPS GET Request

Opposite to action URL, action URI allows IP phones to interact with web server application by receiving and handling an HTTP or HTTPS GET request. When receiving a GET request, the IP phone will perform the specified action and respond with a 200 OK message.

A GET request may contain a variable named as "key" and a variable value, which are separated by "=". The valid URI format is: http(s)://<phoneIPAddress>/servlet?key=variable value. For example: http://10.3.20.10/servlet?key=OK.

For security reasons, IP phones do not handle HTTP/HTTPS GET requests by default. You need to specify the trusted IP address for the action URI. When the IP phone receives a GET request from the trusted IP address for the first time, the phone screen prompts the message "Allow remote control?". Press the "OK" soft key on the phone to allow remote control.

You can specify one or more trusted IP addresses on the IP phone or configure the IP phone to receive and handle the URI from any IP address.

10.27.2 Supported SIP Notify Message

In addition, ALE Myriad Series phones can perform the specified action immediately by accepting a SIP NOTIFY message with the "Event: ACTION-URI" header from a SIP proxy server. The message body of the SIP NOTIFY message may contain a variable named as "key" and a variable value, which are separated by "=".

This method is especially useful for users who always work in the small office/home office where a secure firewall may prevent the HTTP or HTTPS GET request from the external network.

Note: If you want to only accept the SIP NOTIFY message from your SIP server and outbound proxy server, you have to enable the Accept SIP Trust Server Only feature.

If you use SIP NOTIFY message method, you do not need to specify the trusted IP address for action URI. However, you should enable the IP phone to receive the action URI requests. When the IP phone receives a SIP NOTIFY message with the "Event: ACTION-URI" header from a SIP proxy server for the first time, the LCD screen also prompts the message "Allow remote control?". Press the "OK" soft key on the phone to allow remote control.

Example of a SIP Notify with the variable value (OK):

NOTIFY sip:[toUsername]@[remote_ip]:[remote_port];transport=[transport] SIP/2.0		
Via: SIP/2.0/[transport] [local_ip]:[local_port];branch=[branch]		
From: <sip:[fromusername]@[remote_ip]:[remote_port]>;tag=452352542352354325</sip:[fromusername]@[remote_ip]:[remote_port]>		
To: <sip:[tousername]@[remote_ip]:[remote_port]>;[peer_tag_param]</sip:[tousername]@[remote_ip]:[remote_port]>		
Call-ID: [call_number]@[local_ip]		
CSeq: [cseq+1] NOTIFY		
Allow-Events: message-summary, refer, dialog, line-seize, presence, call-info, as-feature-event, calling-name, ua-profile		
Max-Forwards: 70		
Contact: <sip:[fromusername]@[local_ip]:[local_port];transport=[transport]></sip:[fromusername]@[local_ip]:[local_port];transport=[transport]>		
User-Agent:		
Event: ACTION-URI		
Content-Type: message/sipfrag		
Content-Length: [len]		
key=OK«		

10.27.3 Variable Values List

The ALE Myriad Series phones also support a combination of the variable values in the URI, but the order of the variable value is determined by the operation of the phone. The valid URI format is shown below:

http(s)://<phoneIPAddress>/servlet?key=variable value[;variable value].

Variable values are separated by a semicolon from each other.

Note: For M8, (F_) CONFERENCE/ F_ CONFERENCE_ LONGPRESS are replaced by (F_) HEADSET/ F_ HEADSET_ LONGPRESS.

Variable Value	Phone Action
(F_) OK	Short Press the OK key
(F_) UP/DOWN/LEFT/RIGHT/	Short Press the navigation keys
(F_) CANCEL	Short press the Cancel key
F_CANCEL_LONGPRESS	Long Press Cancel key

(F_) VOLUME_UP	Short press the Volume up key
(F_) VOLUME_DOWN	Short press the Volume down key
LX	M3 X(1-6), M5/M7X(1-8), M8 X(1-10),H3P/H3G(1-3),H6(1- 4) Short press the line key
F_LX_LONGPRESS	Long Press Line key M3 X(1-6), M5/M7 X(1-8), M8 X(1-10) ,H3P/H3G(1-3),H6(1-4) S
FX	M3/M5/M7 X(1-4), M8 X(1-5) ,H3P/H3G(1-3),H6(1-4) S Short press the SOFT key
(F_) 0-9/*/ F_STAR/F_POUND	Short press the number key
(F_) E{x}_{y}	X=AOM index y=Corresponding AOM key. For example: E1_1 = AOM 1 first key E2_2 = AOM 2 second key
F_ E{x}_{y}_LONGPRESS	X=AOM index y=Corresponding AOM key. For example: E1_1_LONGPRESS = Long press AOM 1 first key E2_2_LONGPRESS = Long press AOM 2 second key
E{x}_LEFT、E{x}_RIGHT、E{x}_HOME	X=AOM index. Press the bottom three buttons above the AOM.
(F_) RD	Short Press the RD/Redial key
(F_) HOLD	Short Press the Hold key
(F_) TRANSFER	Short Press the Transfer key
(F_) CONFERENCE	Short press the Conference key (for M3/M5/M7/H3P/H3G/H6)
F_ CONFERENCE_ LONGPRESS	Long Press Conference key (for M3/M5/M7/H3P/H3G/H6)
(F_) HEADSET	Short press the Conference key (for M8)
F_ HEADSET_ LONGPRESS	Short press the Conference key (for M8)
(F_) RELEASE	Short press the Release key
(F_) MUTE	Short press the Mute key
F_MUTE_LONGPRESS	Long Press Mute key
(F_) MESSAGE	Short press the Message key
(F_) HANDSFREE	Short press the Handsfree key
OFFHOOK	Pick up the handset.
ONHOOK	Hang up the handset
BACK_IDLE	Return the phone to idle

Reboot the phone
Reset factory
Set dnd on
Set dnd off
Answer a call
Perform a semi-attended/attended transfer to xxx.
Perform a blind transfer to xxx
Activate the call waiting feature
Deactivate the call waiting feature
End a call
Answer/end/hold/unhold a call (xxx refers to the call-id of the active call)
Activate an always/busy/no answer forward feature to xxx for the IP phone ("xxx" means the destination number)
Deactivate the always/busy/no answer forward feature for the IP phone
Use y call to xxx Eg: https://10.4.0.62/servlet?key=number=1000&outgoing_ uri=1001 Use 1001 call 1000
Perform auto provisioning
Gets the current screen capture Eg: <u>https://10.4.0.62/screencapture</u> <u>https://10.4.0.62/servlet?command=screencapture</u> If you want to download screen shots <u>https://10.4.0.62/screencapture/download</u>

10.27.4 Action URI Configuration

The following table lists the parameters you can use to configure action URI.

Parameter	FeatureActionUriEnable	config.xml
Description	It enables or disables the phone to receive action URI requests.	



Permitted	false - disable	
Values	true - enable	
Default	false	
Parameter	FeatureActionUriPromptEnable	config.xml
Description	It enables or disables the phone to pop up the Allow Remote Control prompt when receiving action URI requests.	
Permitted	false - disable	
Values	true - enable	
Default	true	
Parameter	FeatureActionUriLimitIp	config.xml
	It configures server address from which the phone receives the	action URI requests.
Description	Multiple addresses are separated by commas. For discontinuous IP addresses, multiple IP addresses are separated by commas.	
	For continuous IP addresses, the format likes *.*.*.* and the "*" stands for the values 0~255.	
	Note: It works only if "FeatureActionUriEnable " is set to true (Enabled).	
IP address		
Values	Blank - The phone will reject any HTTP GET request.	
	Any - The phone will accept, and handle HTTP GET requests from any IP address.	
Default	Blank	

10.28 Call display source

This section describes how to configure the call display source for ALE Myriad phone. Users can select user-defined rules to determine whether to use local contact information or sip signaling contact information when making a call. The priorities for local contact information are as follows:

Local Directory>Remote Phone Book>LDAP Directory>History

Note: X means account ID. It can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	CallDisplaySource	config.xml
Description	It configures a name matching priority policy for phone calls.	
Permitted Values	0 - Local Directory>Remote Phone Book>Network Contacts>LDAP Directory>Network signaling 1 - Network signaling / SIP signaling	rectory>Enterprise
Default	0	
Web UI	None	

Parameter	FeatureDiversionInfoEnable	config.xml
	It configures whether to display an incoming call with the Diversion h	neader
	information.	
Description	This scenario is mostly when the number is forwarded.	
Permitted	false:Do not display via information.	
Values	true:Display via information.	
Default	true	
Web UI	None	
Parameter	AccountXCallerSource	config.xml
	When a SIP phone receives an incoming call, it obtains the peer infor	mation
	from the corresponding fields in the configured header priority sequence and	
	displays the information.	
	Note: three parameters need to be sorted in order of priority, and no missing or	
Description	repeating is allowed	
	0:PAI	
Permitted	1:RPID	
Values	2:From/To	
Default	0;1;2	
Web UI	None	
Parameter	AccountXCalleeSource	config.xml
	When a SIP phone sends an outing call, it obtains the peer information	on
	from the corresponding fields in the configured header priority sequ	ence and
	displays the information.	
	Note: three parameters need to be sorted in order of priority, and no	o missing or
Description	repeating is allowed	
	0:PAI	
Permitted	1:RPID	
Values	2:From/To	
Default	0;1;2	
Web UI	None	

10.29 Call Refused Code

When traffic is busy in different scenarios, ALE phones can customize refused code in different scenarios so that the peer end can receive customized information.

Parameter	FeatureNormalRefuseCode	config.xml
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	It configures the return code for SIP response messages in case of ca	all rejection.
	Scenario coverage: Manually reject incoming calls, automatically reject incoming	
	calls from blacklisted numbers, and automatically reject incoming calls caused by	
Description	max call or call waiting off.	
	404 - 404(Not Found)	
	480 - 480(Temporarily Unavailable)	
	486 - 486(Busy Here)	
Permitted	600 - 600(Busy Everywhere)	
Values	603 - 603(Decline)	
Default	486	
Web UI	None	
Parameter	FeatureDndRefuseCode	config.xml
	It configures the return code of SIP response messages when DND e	nable
Description	rejects incoming calls.	
	404 - 404(Not Found)	
	480 - 480(Temporarily Unavailable)	
	486 - 486(Busy Here)	
Permitted	600 - 600(Busy Everywhere)	
Values	603 - 603(Decline)	
Default	486	
Web UI	None	
Parameter	FeatureNoAnswerCode	config.xml
Description	It configures the return code for SIP response messages when no an	swer times out.
	404 - 404(Not Found)	
	480 - 480(Temporarily Unavailable)	
	486 - 486(Busy Here)	
Permitted	600 - 600(Busy Everywhere)	
Values	603 - 603(Decline)	
Default	486	
Web UI	None	

11. Phone Customization

11.1 Multiple Languages

The IP phones support multiple languages. Languages used on the phone user interface and web user interface can be specified respectively as required.

11.1.1 Phone Language Configuration

The following table lists the parameters you can use to configure the phone setting language.



	27 - Hebrew
	28 – Russian
	30 – Thai
	99 - Customer
Default	0
Phone UI	Menu \rightarrow Basic Setting \rightarrow Language

11.1.2 Phone customer Language Configuration

To better satisfy the user's local language configuration and add user-defined functions, the current version has supported the customer language feature, user can modify or add the language.

Format:

- (1) It should be noted that the file is a txt format file.
- (2) The inner separator is the tab key, not the space key. Example: tab is between S_PLACED_CALLS and Chinese_simplified0
- (3) Only be one translation in a row.

Translation Source Country Name Translation Value Example:

```
S_PLACED_CALLS French AppelsAAA passés
S_PLACED_CALLS Chinese_simplified 呼叫
S_PLACED_CALLS English Place Call
S_PLACED_CALLS Custom Call
```

Description:

- A. S_PLACED_CALLS: This is the translation source, which corresponds to the id of the phone in it.
- B. French/Chinese_simplified: This is the language option identifier, which identifies the type of language that needs to be changed. In the example, four languages were changed.
- C. AppelsAAA passes / Place call: This is the last character you want to translate. The spacing between characters in this option is space, not tab.

Parameter	SettingCustomLanguageUploadUrl	config.xml
Description	It configures phone download custom language file url.	
Permitted Values	Configure a valid URL address format. Note: The function base parameter is set to SettingLanguage=99	
Default	BLANK	
Phone UI	None	

The following table lists the parameters you can use to configure the phone.

11.2 Screen Saver

The screen saver will automatically start when the IP phone is idle for the preset waiting time. You can stop the screen saver at any time by pressing any key. When your phone is idle again for a preset waiting time, the screen saver starts again.

By default, the phone screen displays a built-in image when the screen saver starts. The following shows the built-in screen saver displayed on the ALE Myriad Series phones:



You can also configure the display of time & date, certain status icons (for example, miss call, a new text message), or custom information (for example, company logo) on the screen saver.

Parameter	SettingScreensaverEnable	config.xml	
Descriptio n	It configures whether to enable or disable screensaver		
Permitted	false - disable		
Values	true - enable		
Default	true		
Web UI	Settings \rightarrow Display \rightarrow Screensaver		
Phone UI	Menu \rightarrow Basic Setting \rightarrow Display \rightarrow Screen saver \rightarrow Screen saver		
Parameter	SettingScreensaverTimeout	config.xml	
Descriptio	It configures the time (in seconds) to wait in the idle state before the screen saver		
n	starts.		
	60-1min		
	120-2min		
	300-5min		
Downsitted	600-10min		
Values	1800-30min		
Values	3600-1h		
	7200-2h		
	10800-3h		
	21600-6h		

The following table lists the parameters you can use to configure the screensaver.



Default	300-5min
Web UI	Display → Timeout
Phone UI	Menu \rightarrow Basic Setting \rightarrow Display

11.3 Backlight of LCD

You can change the backlight brightness of the LCD screen during phone activity and inactivity. The backlight brightness automatically changes when the phone is idle for a specified time.

You can change the screen backlight brightness and time in the following settings:

Active Level: The brightness level of the LCD screen when the phone is active. Digits (1-9) represent different brightness levels. 9 is the brightest level.

Inactive Level: The brightness of the LCD screen when the phone is inactive. You can select a low brightness or turn off the backlight.

Backlight Time: The delay time to change the brightness of the LCD screen when the phone is inactive. Backlight time includes the following settings you can choose from.

- Always On: Backlight is on permanently.
- Always,15s, 30s, 60s, 2min, 5min, 10min or 30min: Backlight is changed when the phone is inactive after the designated time (in seconds).

11.3.1 Supported Backlight Options

The following table lists available options to configure the backlight of phone models/expansion modules.

Phone Model (and the connected expansion module)	Configuration Options
	Inactive Level
Myriad Series IP phones	Active Level
	Backlight Time

11.3.2 Backlight Brightness and Time Configuration

The following table lists the parameters you can use to configure screen backlight brightness and time.

Parameter	SettingActiveBacklightLevel	config.xml
Description	It configures the intensity of the LCD screen when the phone is a	ctive.
Permitted Values	[1,9]	
Default	5	
Web UI	Setting \rightarrow Display \rightarrow Active Backlight Level	

Phone UI	Menu \rightarrow Basic Setting \rightarrow Display \rightarrow Backlight \rightarrow Active Level	
Parameter	SettingInactiveBackLightLevel	config.xml
Description	It configures the intensity of the LCD screen when the phone is inactive.	
Permitted Values	[1,9]	
Default	1	
Web UI	Setting \rightarrow Display \rightarrow Inactive Backlight Level	
Phone UI	Menu \rightarrow Basic Setting \rightarrow Display \rightarrow Backlight \rightarrow Inactive Level	
Parameter	SettingBacklightTimeout	config.xml
Description	It configures the delay time (in seconds) to change the intensity when the IP phone is inactive.	of the LCD screen
	0-Always On	
	15-15s	
	30-30s	
Permitted	60-1min	
Values	120-2min	
	300-5min	
	600-10min	
	1800-30min	
Default	300	
Web UI	Settings \rightarrow Display \rightarrow Backlight Timeout	
Phone UI	Menu \rightarrow Basic Setting \rightarrow Display \rightarrow Backlight \rightarrow Backlight Time	

11.4 Backlight of LED (Only for M8)

The M8 phone supports changing the LED backlight brightness for digital keys on dialing pad.

You can configure the display brightness level on phone UI or WBM.

Note: If the value of parameter "SettingLedSyncBacklightEnable" is true, the backlight brightness of LCD and LED will be adjusted synchronously.

11.4.1 Supported Backlight LED Options

The following table lists available options to configure the LED backlight of phone models/expansion modules.

Phone Model (and the connected expansion module)	Configuration Options
M8	LED Inactive Level

LED Active Level LED Backlight Time

11.4.2 LED Backlight Brightness and Time Configuration

The following table lists the parameters you can use to configure the LED backlight brightness and time.

Parameter	SettingLedSyncBacklightEnable	config.xml
Description	It configures whether synchronized with LCD backlight configuration	
Permitted	true	
Values	false	
Default	true	
Web UI	Settings \rightarrow Display \rightarrow LED Synchronize	
Phone UI	Menu \rightarrow Basic Setting \rightarrow Display \rightarrow Backlight \rightarrow LED Synchronize	
Parameter	SettingInactiveLedLevel	config.xml
Description	It configures the intensity of the LED backlight when the phone is	s inactive.
Permitted Values	[0,9]	
Default	1	
Web UI	Setting \rightarrow Display \rightarrow LED Inactive Level	
Phone UI	Menu \rightarrow Basic Setting \rightarrow Display \rightarrow Backlight \rightarrow LED Inactive Level	
Parameter	SettingActiveLedLevel	config.xml
Description	It configures the intensity of the LED backlight when the phone is active.	
Permitted Values	[0,9]	
Default	5	
Web UI	Settings \rightarrow Display \rightarrow LED Active Level	
Phone UI	Menu \rightarrow Basic Setting \rightarrow Display \rightarrow Backlight \rightarrow LED Active Level	
Parameter	SettingLedTimeout	config.xml
Description	It configures the delay time (in seconds) to change the intensity of the LED when the IP phone is inactive.	
	0-Always On	
Permitted	15-15s	
Values	30-30s	
	60-1min	



	120-2min
	300-5min
	600-10min
	1800-30min
Default	300
Web UI	Settings \rightarrow Display \rightarrow LED Timeout
Phone UI	Menu \rightarrow Basic Setting \rightarrow Display \rightarrow Backlight \rightarrow LED Working Time

11.5 ECO Mode (Only for M8)

The M8 phone supports the ECO (Ecology Conservation Optimization) mode. If the phone is set to ECO mode, the LED lights on digital keys will be off.

The following table lists the parameters you can use to configure ECO mode.

Parameter	SettingEcoModeEnable	config.xml
Description	It configures whether to enable or disable ECO mode of the M8 phone.	
Permitted	true	
Values	false	
Default	false	
Web UI	Settings \rightarrow Display \rightarrow ECO Mode	
Parameter	SettingEcoModeOffHourTimeout	config.xml
Description	It configures the delay time the phone enters ECO mode when in non-working time.	
Permitted Values	[1,10]	
Default	5	
Web UI	Settings \rightarrow Display \rightarrow Off Hour Timeout	
Parameter	SettingEcoModeOfficeHourTimeout	config.xml
Description	It configures the delay time the phone enters ECO mode when in working time.	
Permitted Values	[1,240]	
Default	120	
Web UI	Settings \rightarrow Display \rightarrow Office Hour Timeout	
Parameter	SettingEcoOfficeHourSunStartTime	config.xml
Description	It configures the start time of Sunday.	
Permitted Values	[0,23]	



Default	9	
Web UI	Settings \rightarrow Display \rightarrow Sunday	
Parameter	SettingEcoOfficeHourSunEndTime	config.xml
Description	It configures the end time of Sunday.	
Permitted Values	[0,23]	
Default	9	
Web UI	Settings \rightarrow Display \rightarrow Sunday	
Parameter	SettingEcoOfficeHourMonStartTime	config.xml
Description	It configures the start time of Monday.	
Permitted Values	[0,23]	
Default	9	
Web UI	Settings \rightarrow Display \rightarrow Monday	
Parameter	SettingEcoOfficeHourMonEndTime	config.xml
Description	It configures the end time of Monday.	
Permitted Values	[0,23]	
Default	17	
Web UI	Settings \rightarrow Display \rightarrow Monday	
Parameter	SettingEcoOfficeHourTuesStartTime	config.xml
Description	It configures the start time of Tuesday.	
Permitted Values	[0,23]	
Default	9	
Web UI	Settings \rightarrow Display \rightarrow Tuesday	
Parameter	SettingEcoOfficeHourTuesEndTime	config.xml
Description	It configures the end time of Tuesday.	
Permitted Values	[0,23]	
Default	17	
Web UI	Settings \rightarrow Display \rightarrow Tuesday	

Parameter	SettingEcoOfficeHourWedStartTime	config.xml
Description	It configures the start time of Wednesday.	
Permitted Values	[0,23]	
Default	9	
Web UI	Settings \rightarrow Display \rightarrow Wednesday	
Parameter	SettingEcoOfficeHourWedEndTime	config.xml
Description	It configures the end time of Wednesday.	
Permitted Values	[0,23]	
Default	17	
Web UI	Settings \rightarrow Display \rightarrow Wednesday	
Parameter	SettingEcoOfficeHourThurStartTime	config.xml
Description	It configures the start time of Thursday.	
Permitted Values	[0,23]	
Default	9	
Web UI	Settings \rightarrow Display \rightarrow Thursday	
Parameter	SettingEcoOfficeHourThurEndTime	config.xml
Description	It configures the end time of Thursday.	
Permitted Values	[0,23]	
Default	17	
Web UI	Settings \rightarrow Display \rightarrow Thursday	
Parameter	SettingEcoOfficeHourFriStartTime	config.xml
Description	It configures the start time of Friday.	
Permitted Values	[0,23]	
Default	9	
Web UI	Settings \rightarrow Display \rightarrow Friday	
Parameter	SettingEcoOfficeHourFriEndTime	config.xml
Description	It configures the end time of Friday.	

Permitted Values	[0,23]	
Default	17	
Web UI	Settings \rightarrow Display \rightarrow Friday	
Parameter	SettingEcoOfficeHourSatStartTime config.xml	
Description	It configures the start time of Saturday.	
Permitted Values	[0,23]	
Default	9	
Web UI	Settings \rightarrow Display \rightarrow Saturday	
Parameter	SettingEcoOfficeHourSatEndTime	config.xml
Description	It configures the end time of Saturday.	
Permitted Values	[0,23]	
Default	9	
Web UI	Settings \rightarrow Display \rightarrow Saturday	

11.6 Time and Date

The ALE Myriad Series phones maintain a local clock. You can choose to get the time and date from SNTP (Simple Network Time Protocol) time server to have the most accurate time and phone DST (Daylight Saving Time) to make better use of daylight and to conserve energy, or you can set the time and date manually. The time and date can be displayed in several formats on the idle screen.

11.6.1 Time Zone

Time Zone	Time Zone Name	
-11:00	Midway, Niue, Pago_Pago	
-10:00	Adak, Honolulu, Rarotonga, Tahiti	
-9:30	Marquesas	
-9:00	Anchorage, Gambier, Juneau, Metlakatla, Nome, Sitka, Yakutat	
-8:00	Dawson, Los_Angeles, Pacific-New, Pitcairn, Tijuana, Vancouver, Whitehorse	
-7:00	Boise, Cambridge_Bay, Chihuahua, Creston, Dawson_Creek, Denver, Edmonton, Fort_Nelson, Hermosillo, Inuvik, Ojinaga, Mazatlan, Phoenix, Yellowknife	
-6:00	Bahia_Banderas, Belize, Chicago, Costa_Rica, Easter, El_Salvador, Galapagos, Guatemala, Indiana/Knox, Indiana/Tell_City, Managua, Matamoros, Menominee, Merida, Mexico_City, Monterrey, North_Dakota/Beulah, North_Dakota/Center,	

	North_Dakota/New_Salem, Rainy_River, Rankin_Inlet, Regina, Resolute, Swift_Current, Tegucigalpa, Winnipeg
-5:00	Atikokan, Bogota, Cancun, Cayman, Detroit, Eirunepe, Grand_Turk, Guayaquil, Havana, Indiana/Indianapolis, Indiana/Marengo, Indiana/Petersburg, Indiana/Vevay, Indiana/Vincennes, Indiana/Winamac, Iqaluit, Jamaica, Kentucky/Louisville, Kentucky/Monticello, Lima, Nassau, New_York, Nipigon, Panama, Pangnirtung, Port- au-Prince, Rio_Branco, Thunder_Bay, Toronto
-4:00	Anguilla, Antigua, Aruba, Asuncion, Barbados, Bermuda, Blanc-Sablon, Boa_Vista, Campo_Grande, Caracas, Cuiaba, Curacao, Dominica, Glace_Bay, Goose_Bay, Grenada, Guadeloupe, Guyana, Halifax, Kralendijk, La_Paz, Lower_Princes, Manaus, Marigot, Martinique, Moncton, Montserrat, Port_of_Spain, Porto_Velho, Puerto_Rico, Santiago, Santo_Domingo, St_Barthelemy, St_Kitts, St_Lucia, St_Thomas, St_Vincent, Thule, Tortola
-3:30	St_Johns
-3:00	Araguaina, Argentina/Buenos_Aires, Argentina/Catamarca, Argentina/Cordoba, Argentina/Jujuy, Argentina/La_Rioja, Argentina/Mendoza, Argentina/Rio_Gallegos, Argentina/Salta, Argentina/San_Juan, Argentina/San_Luis, Argentina/Tucuman, Argentina/Ushuaia, Bahia, Belem, Cayenne, Fortaleza, Godthab, Maceio, Miquelon, Montevideo, Palmer, Paramaribo, Punta_Arenas, Recife, Rothera, Santarem, Sao_Paulo, Stanley
-2:00	Noronha, South Georgia
-1:00	Azores, Cape Verde
	GMT, UTC, Universal, Abidjan, Accra, Bamako, Banjul, Bissau, Canary, Conakry, Dakar,
0	GMT, UTC, Universal, Abidjan, Accra, Bamako, Banjul, Bissau, Canary, Conakry, Dakar, Danmarkshavn, Faroe, Freetown, Greenwich, Guernsey, Isle_of_Man, Jersey, Lisbon, Lome, London, Madeira, Monrovia, Nouakchott, Ouagadougou, Reykjavik, Sao Tome, St_Helena, Troll, Zulu
0	GMT, UTC, Universal, Abidjan, Accra, Bamako, Banjul, Bissau, Canary, Conakry, Dakar, Danmarkshavn, Faroe, Freetown, Greenwich, Guernsey, Isle_of_Man, Jersey, Lisbon, Lome, London, Madeira, Monrovia, Nouakchott, Ouagadougou, Reykjavik, Sao Tome, St_Helena, Troll, Zulu Algiers, Amsterdam, Andorra, Bangui, Belgrade, Berlin, Bratislava, Brazzaville, Brussels,
0 +1:00	 GMT, UTC, Universal, Abidjan, Accra, Bamako, Banjul, Bissau, Canary, Conakry, Dakar, Danmarkshavn, Faroe, Freetown, Greenwich, Guernsey, Isle_of_Man, Jersey, Lisbon, Lome, London, Madeira, Monrovia, Nouakchott, Ouagadougou, Reykjavik, Sao Tome, St_Helena, Troll, Zulu Algiers, Amsterdam, Andorra, Bangui, Belgrade, Berlin, Bratislava, Brazzaville, Brussels, Budapest, Busingen, Casablanca, Ceuta, Copenhagen, Douala, Dublin, El_Aaiun, Gibraltar, Kinshasa, Lagos, Libreville, Ljubljana, Longyearbyen, Luanda, Luxembourg, Madrid, Malabo, Malta, Monaco, Ndjamena, Niamey, Oslo, Paris, Podgorica, Porto-Novo, Prague, Rome, San_Marino, Sarajevo, Scoresbysund, Skopje, Stockholm, Tirane, Tunis, Vaduz, Vatican, Vienna, Warsaw, Zagreb, Zurich
0 +1:00	 GMT, UTC, Universal, Abidjan, Accra, Bamako, Banjul, Bissau, Canary, Conakry, Dakar, Danmarkshavn, Faroe, Freetown, Greenwich, Guernsey, Isle_of_Man, Jersey, Lisbon, Lome, London, Madeira, Monrovia, Nouakchott, Ouagadougou, Reykjavik, Sao Tome, St_Helena, Troll, Zulu Algiers, Amsterdam, Andorra, Bangui, Belgrade, Berlin, Bratislava, Brazzaville, Brussels, Budapest, Busingen, Casablanca, Ceuta, Copenhagen, Douala, Dublin, El_Aaiun, Gibraltar, Kinshasa, Lagos, Libreville, Ljubljana, Longyearbyen, Luanda, Luxembourg, Madrid, Malabo, Malta, Monaco, Ndjamena, Niamey, Oslo, Paris, Podgorica, Porto-Novo, Prague, Rome, San_Marino, Sarajevo, Scoresbysund, Skopje, Stockholm, Tirane, Tunis, Vaduz, Vatican, Vienna, Warsaw, Zagreb, Zurich Amman, Athens, Beirut, Blantyre, Bucharest, Bujumbura, Cairo, Chisinau, Damascus,
0 +1:00 +2:00	 GMT, UTC, Universal, Abidjan, Accra, Bamako, Banjul, Bissau, Canary, Conakry, Dakar, Danmarkshavn, Faroe, Freetown, Greenwich, Guernsey, Isle_of_Man, Jersey, Lisbon, Lome, London, Madeira, Monrovia, Nouakchott, Ouagadougou, Reykjavik, Sao Tome, St_Helena, Troll, Zulu Algiers, Amsterdam, Andorra, Bangui, Belgrade, Berlin, Bratislava, Brazzaville, Brussels, Budapest, Busingen, Casablanca, Ceuta, Copenhagen, Douala, Dublin, El_Aaiun, Gibraltar, Kinshasa, Lagos, Libreville, Ljubljana, Longyearbyen, Luanda, Luxembourg, Madrid, Malabo, Malta, Monaco, Ndjamena, Niamey, Oslo, Paris, Podgorica, Porto-Novo, Prague, Rome, San_Marino, Sarajevo, Scoresbysund, Skopje, Stockholm, Tirane, Tunis, Vaduz, Vatican, Vienna, Warsaw, Zagreb, Zurich Amman, Athens, Beirut, Blantyre, Bucharest, Bujumbura, Cairo, Chisinau, Damascus, Famagusta, Gaborone, Gaza, Harare, Hebron, Helsinki, Jerusalem, Johannesburg, Kaliningrad, Khartoum, Kiev, Kigali, Lubumbashi, Lusaka, Maputo, Mariehamn, Maseru,

+3:00	Addis_Ababa, Aden, Antananarivo, Asmara, Baghdad, Bahrain, Comoro, Dar_es_Salaam, Djibouti, Istanbul, Juba, Kampala, Kirov, Kuwait, Mayotte, Minsk, Mogadishu, Moscow, Nairobi, Qatar, Riyadh, Simferopol, Syowa
+3:30	Tehran
+4:00	Astrakhan, Baku, Dubai, Mahe, Mauritius, Muscat, Reunion, Samara, Saratov, Tbilisi, Ulyanovsk, Volgograd, Yerevan
+4:30	Kabul
+5:00	Aqtau, Aqtobe, Ashgabat, Atyrau, Dushanbe, Karachi, Kerguelen, Maldives, Mawson, Oral, Qyzylorda, Samarkand, Tashkent, Yekaterinburg
+5:30	Colombo, Kolkata
+5:45	Kathmandu
+6:00	Almaty, Bishkek, Chagos, Dhaka, Omsk, Qostanay, Thimphu, Urumqi, Vostok
+6:30	Cocos, Yangon
+7:00	Bangkok, Barnaul, Christmas, Davis, Ho_Chi_Minh, Hovd, Jakarta, Krasnoyarsk, Novokuznetsk, Novosibirsk, Phnom_Penh, Pontianak, Tomsk, Vientiane
+8:00	Brunei, Casey, Choibalsan, Hong_Kong, Irkutsk, Kuala_Lumpur, Kuching, Macau, Makassar, Manila, Perth, Shanghai, Singapore, Taipei, Ulaanbaatar
+8:45	Eucla
+9:00	Chita, Dili, Jayapura, Khandyga, Palau, Pyongyang, Seoul, Tokyo, Yakutsk
+9:30	Adelaide, Broken_Hill, Darwin
+10:00	Brisbane, Chuuk, Currie, DumontDUrville, Guam, Hobart, Lindeman, Melbourne, Port_Moresby, Saipan, Sydney, Ust-Nera, Vladivostok
+10:30	Lord_Howe
+11:00	Bougainville, Efate, Guadalcanal, Kosrae, Macquarie, Magadan, Norfolk, Noumea, Pohnpei, Sakhalin, Srednekolymsk
+12:00	Anadyr, Auckland, Fiji, Funafuti, Kamchatka, Kwajalein, Majuro, McMurdo, Nauru, Tarawa, Wake, Wallis
+12:45	Chatham
+13:00	Apia, Enderbury, Fakaofo, Tongatapu
+14:00	Kiritimati

The following table lists the parameters you can use to configure the time zone.

Parameter	SettingTimeZone	config.xml
Description	It configures the time zone.	



Permitted Values	CHOICE
Default	0
Web UI	Settings → Time & Date

11.6.2 NTP Settings and SIP Signaling Sync

You can configure an NTP time server for the desired area as required. The NTP time server address can be offered by the DHCP server or configured manually.

In addition to NTP synchronization time, we also added support for SIP signaling time synchronization. The phone used the time in sip signaling as the time to be synchronized through the 200 OK carried by the corresponding date header field returned by the server during registration.

Parameter	SettingTimeMethod	config.xml		
Description	Configure time synchronization through the NTP server or SIP si set the time.	ignaling or manually		
Permitted Values	0:SNTP(default) 1:SIP Server 2:Manual			
Default	0			
Web UI	Settings \rightarrow Time & Date \rightarrow Time Method			
Parameter	SettingSntpServer config.xml			
Description	It configures the IP address or the domain name of the NTP server. The IP phone will obtain the current time and date from the NTP server			
Permitted Values	IP_DOMAIN			
Default	0.pool.ntp.org			
Web UI	Settings \rightarrow Time & Date \rightarrow SNTP Address			
Parameter	SettingSntpServer2	config.xml		
Description	It configures the IP address or the domain name of the NTP server2. The IP phone will obtain the current time and date from the NTP server2			
Permitted Values	IP_DOMAIN			
Default	time.nist.gov			
Web UI	Settings \rightarrow Time & Date \rightarrow SNTP Secondary Address			

The following table lists the parameters you can use to configure the NTP.

Parameter	SettingSntpRefreshPeriod	config.xml
Description	It configures the interval (in seconds) at which the phone updates time and date from the NTP server.	
Permitted Values	NUMERIC[0,*]	
Default	3600	
Web UI	Settings \rightarrow Time & Date \rightarrow SNTP Refresh Period	

11.6.3 DST Settings

You can set DST for the desired area as required. By default, the DST is disabled. If set to Automatic, it can be adjusted automatically from the current time zone setting. The time zone and corresponding DST pre-configurations exist in the AutoDST file. If the DST is set to Automatic, the IP phone obtains the DST configuration from the AutoDST file.

11.6.3.1 DST Configuration

The following table lists the parameters you can use to configure DST.

Parameter	SettingDstEnable	config.xml		
Description	It configures the Daylight-Saving Time (DST) feature.			
	0 - Disabled			
Permitted	1 - Enabled			
Values	2 - Automatic			
Default	0			
Web UI	Settings \rightarrow Time & Date \rightarrow DST Enable			
Parameter	SettingTimeZoneLocation config.xml			
Description	It configures the Daylight-Saving Time (DST) Location.			
Description	Note: It works only if "SettingDstEnable" is set to 2 (Automatic).			
Permitted Values	Strings - country or area name			
Default	Universal			
Web UI	Setting \rightarrow Time & Date \rightarrow Location			
Parameter	SettingDstType	config.xml		
Description	It configures the Daylight-Saving Time (DST) Type.			
Description	Note: It works only if "SettingDstEnable" is set to 1 (Enabled).			
Permitted	week - By week			
Values	date - By date			



Default	week		
Web UI	Setting \rightarrow Time & Date \rightarrow DST Type		
Parameter	SettingDstStartDate config.xml		
Description	It configures the Daylight-Saving Time (DST) start date. Note: It works only if "SettingDstEnable" is set to 1 (Enabled) and SettingDstType is set to date		
Permitted Values	Strings		
Default	1		
Web UI	Setting \rightarrow Time & Date \rightarrow DST Start Date		
Parameter	SettingDstEndDate	config.xml	
Description	It configures the Daylight-Saving Time (DST) end date. Note: It works only if "SettingDstEnable" is set to 1 (Enabled) and SettingDstType is set to date.		
Permitted Values	Strings		
Default	30		
Web UI	Setting \rightarrow Time & Date \rightarrow DST End Date		
Parameter	SettingDstStartWeek	config.xml	
Description	It configures the Daylight-Saving Time (DST) start week. Note: It works only if "SettingDstEnable" is set to 1 (Enabled) and SettingDstType is set to week.		
Permitted Values	1 - First week 2 - Second week 3 - Third week 4 - Fourth week 5 - Last week		
Default	5		
Web UI	Setting \rightarrow Time & Date \rightarrow DST Start Date \rightarrow Week		
Parameter	SettingDstEndWeek	config.xml	
Description	It configures the Daylight-Saving Time (DST) end week. Note: It works only if "SettingDstEnable" is set to 1 (Enabled) a set to week.	and SettingDstType is	



	1 - First week		
Permitted	2 - Second week		
	3 - Third week		
Values	4 - Fourth week		
	5 - Last week		
Default	5		
Web UI	Setting \rightarrow Time & Date \rightarrow DST End Date \rightarrow Week		
Parameter	SettingDstStartHour config.xml		
	It configures the Daylight-Saving Time (DST) start hour.		
	Note: It works only if "SettingDstEnable" is set to 1 (Enabled) a	and SettingDstType is	
Description	set to week or day.		
Permitted Values	NUMERIC[0,23]		
Default	0		
Web UI	Setting \rightarrow Time & Date \rightarrow DST Start Date \rightarrow Hour		
Parameter	SettingDstEndHour	config.xml	
Parameter	SettingDstEndHour It configures the Daylight-Saving Time (DST) end hour.	config.xml	
Parameter Description	SettingDstEndHour It configures the Daylight-Saving Time (DST) end hour. Note: It works only if "SettingDstEnable" is set to 1 (Enabled) a set to week or day.	config.xml and SettingDstType is	
Parameter Description Permitted	SettingDstEndHour It configures the Daylight-Saving Time (DST) end hour. Note: It works only if "SettingDstEnable" is set to 1 (Enabled) a set to week or day.	config.xml and SettingDstType is	
Parameter Description Permitted Values	SettingDstEndHour It configures the Daylight-Saving Time (DST) end hour. Note: It works only if "SettingDstEnable" is set to 1 (Enabled) a set to week or day. NUMERIC[0,23]	config.xml and SettingDstType is	
Parameter Description Permitted Values Default	SettingDstEndHour It configures the Daylight-Saving Time (DST) end hour. Note: It works only if "SettingDstEnable" is set to 1 (Enabled) a set to week or day. NUMERIC[0,23] 23	config.xml and SettingDstType is	
Parameter Description Permitted Values Default Web UI	SettingDstEndHour It configures the Daylight-Saving Time (DST) end hour. Note: It works only if "SettingDstEnable" is set to 1 (Enabled) a set to week or day. NUMERIC[0,23] 23 Setting → Time & Date → DST End Date → Hour	config.xml	
Parameter Description Permitted Values Default Web UI Parameter	SettingDstEndHour It configures the Daylight-Saving Time (DST) end hour. Note: It works only if "SettingDstEnable" is set to 1 (Enabled) a set to week or day. NUMERIC[0,23] 23 Setting → Time & Date → DST End Date → Hour SettingDstOffset	config.xml	
Parameter Description Permitted Values Default Web UI Parameter	SettingDstEndHour It configures the Daylight-Saving Time (DST) end hour. Note: It works only if "SettingDstEnable" is set to 1 (Enabled) a set to week or day. NUMERIC[0,23] 23 Setting → Time & Date → DST End Date → Hour SettingDstOffset It configures the offset time (in minutes) of Daylight-Saving Time	config.xml and SettingDstType is config.xml ne (DST).	
Parameter Description Permitted Values Default Web UI Parameter Description	SettingDstEndHour It configures the Daylight-Saving Time (DST) end hour. Note: It works only if "SettingDstEnable" is set to 1 (Enabled) a set to week or day. NUMERIC[0,23] 23 Setting → Time & Date → DST End Date → Hour SettingDstOffset It configures the offset time (in minutes) of Daylight-Saving Time Note: It works only if "SettingDstEnable" is set to 1 (Enabled)	config.xml and SettingDstType is config.xml ne (DST).	
Parameter Description Permitted Values Default Web UI Parameter Description Permitted Values	SettingDstEndHour It configures the Daylight-Saving Time (DST) end hour. Note: It works only if "SettingDstEnable" is set to 1 (Enabled) a set to week or day. NUMERIC[0,23] 23 Setting → Time & Date → DST End Date → Hour SettingDstOffset It configures the offset time (in minutes) of Daylight-Saving Time Note: It works only if "SettingDstEnable" is set to 1 (Enabled) NUMERIC[-300,300]	config.xml and SettingDstType is config.xml ne (DST).	
Parameter Description Permitted Values Default Web UI Parameter Description Permitted Values Default	SettingDstEndHour It configures the Daylight-Saving Time (DST) end hour. Note: It works only if "SettingDstEnable" is set to 1 (Enabled) a set to week or day. NUMERIC[0,23] 23 Setting → Time & Date → DST End Date → Hour SettingDstOffset It configures the offset time (in minutes) of Daylight-Saving Tim Note: It works only if "SettingDstEnable" is set to 1 (Enabled) NUMERIC[-300,300] 60	config.xml and SettingDstType is config.xml ne (DST).	

11.6.4 Manual Configuration of Time and Date

You can configure the time and date manually if the phone cannot obtain the time and date from the NTP time server via Web or Phone UI.

• Configuration via Web UI

Aicatel-Lucen Enterprise	nt 🕖	WBM Based Management M5	;	Using default
	2	Time&Date		
Accounts		Time&Date		
Network		TimeMethod:	SNTP ~	0
🗟 Account	~	SNTP Address:	0.pool.ntp.org	0
Network	~	SNTP Secondary Address:	time.nist.gov	0
Provision	~	SNTP Refresh Period:	3600	0
🚰 Phone Keys	~	Time Zone:	0 - GMT,UTC,Universal,Abidjan,Accra,	0
🔅 Settings	^	DST Enable:	Disable	0
Time&Date		Date Format:	WWW MMM DD	0
Call Display		Time Format:	24H ~	0
Audio				Submit

• Configuration via Phone UI

You can set date and time manually on phone UI by path: Menu \rightarrow Basic Setting \rightarrow Time & Date \rightarrow General \rightarrow Manual Settings

Manual Settings						
Date(YMD) 2021] - [5		11	
Time(HMS	5) 9]:[16):[28	
Back Bkspc 123 Save						

11.6.5 Time and Date Format Configuration

You can customize the time and date by choosing between a variety of time and date formats, including options to date format with the day, month, or year, and time format in 12 hours or 24 hours, or you can also customize the date format as required.

The following table lists the parameters you can use to configure the time and date format.

Parameter	SettingTimeFormat	config.xml	
Description	It configures the time format.		
Permitted Values	0: Hour 12. The time will be displayed in 12-hour format with AM or PM specified. 1: Hour 24. The time will be displayed in 24-hour format (for example, 2:00 PM displays as 14:00).		
Default	0		
Web UI	Settings \rightarrow Time & Date \rightarrow Time Format		



Phone UI	Menu \rightarrow Basic Setting \rightarrow Time and Date \rightarrow Time		
Parameter	DateFormat	config.xml	
Description	It configures the date format.		
	0 - WWW MMM DD		
	1 - DD-MMM-YY		
	2 - YYYY-MM-DD		
	3 - DD/MM/YYYY		
	4 - MM/DD/YY		
Permitted	5 - DD MMM YYYY		
Values	6 - WWW DD MMM		
	7 - MM DD WWW		
	8 - YY-MM-DD		
	9 - YYYY/MM/DD		
	10 - YY/MM/DD		
	11 - YYYY MM DD		
Default	0		
Web UI	Settings \rightarrow Time & Date \rightarrow Date Format		
Phone UI	Menu \rightarrow Basic Setting \rightarrow Time and Date \rightarrow Date		

You can configure the time and date format through the WEB or on phone UI.

• Configure Time & Date Format through WEB

Alcatel-Lucer Enterprise	nt 🕖	Web Based Management M5		
	Ē	Time&Date		
 Status 	^	Time&Date		
Version		SNTP Address:	time.google.com	0
Accounts		SNTP Secondary Address:	time.nist.gov	0
Network		SNTP Refresh Period:	3600	0
🗟 Account	~	Manual Date:	2021-11-09	0
Network	~	Manual Time:	③ 12:00:35	0
Frovision	~	Time Zone:	0 - GMT,UTC,Universal,Abidjan,Accra,Ban	0
🔠 Phone Keys	~	DST Enable:	Disable	0
🔅 Settings	^	Date Format:	WWW MMM DD V	0
Time&Date		Time Format:	TIME	0
Call Display				Submit
Audio				

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• Configure Time & Date Format on phone UI

You can set date and time format manually on phone UI by path: Menu \rightarrow Basic Setting \rightarrow Time & Date \rightarrow Time & Date Format

Time & Date Format			
Date:	DD MMM YYYY	DD MMM YYYY	
Time:	12 Hour		
Back	Switch	Save	

11.7 Key as Send

Key As Send allows you to assign the pound key ("#") or asterisk key ("*") as the Send key.

The following table lists the parameters you can use to configure the Key as Send feature.

Parameter	FeatureKeyAsSend	config.xml
Description	It configures the "#" or "*" key as the Send key.	
Permitted Values	0: Disabled. Neither "#" nor "*" can be used as the Send key. 1: # key. The pound key is used as the Send key. 2: * key. The asterisk key is used as the Send key.	
Default	1	
Web UI	Features → General	
Phone UI	Menu \rightarrow Features \rightarrow Key as Send	

11.8 Bluetooth

The ALE Myriad Series M7/M8 phones support Bluetooth. You can pair and connect a Bluetooth Headset or Bluetooth-enabled mobile phone with the IP phone. After connecting the Bluetooth-Enabled mobile phone, you can choose to synchronize the mobile contacts to the IP phone. It is only applicable to the M7/M8 phones.

You can activate or deactivate the Bluetooth mode and personalize the Bluetooth device name for the IP phone. The pre-configured Bluetooth device name will be displayed in the scanning list of other devices. The Bluetooth device name helps the other Bluetooth devices to identify and pair with your IP phone.

The following table lists the parameters you can use to configure Bluetooth.

Parameter	SettingBluetoothDeviceName config.xml				
Description	It configures the Bluetooth device name.				
Description	Note: It works only for the M7/M8 phones.				
Permitted Values	Strings				
Default	M7 DeskPhone/M8 DeskPhone				
Phone UI	Menu \rightarrow Basic Setting \rightarrow Bluetooth \rightarrow Edit My Device Info				
Parameter	SettingBluetoothReconnectMode config.xml				
	It enables or disables the phone to prompt users to confirm the reconnection				
Description	request from the Bluetooth device.				
	Note: It works only for the M7 phone.				
Permitted	0 - no auto-connect				
Values	1 - low sensitive auto-connect				
Default	1				
Phone UI	Menu \rightarrow Basic Setting \rightarrow Bluetooth \rightarrow BT Smart Phone Connected	ed Mode			
Parameter	SettingBluetoothEnable	config.xml			
Description	It enables or disables the Bluetooth feature.				
Description	Note: It works only for the M8 phone.				
Permitted	false - disable				
Values	true - enable				
Default	true				
Phone UI	Menu \rightarrow Basic Setting \rightarrow Bluetooth \rightarrow Bluetooth Enable				

11.9 Handset/Headset/Speakerphone Mode

The ALE Myriad Series phones support three ways to place/answer a call: using the handset, using the headset, or using the speakerphone. You can choose the frequently used audio device as required.

The following table lists the parameters you can use to configure handset/headset/speakerphone mode.

Parameter	SettingRingDevice	config.xml
Description	It configures the SettingRingDevice.	
Permitted Values	0 - handsfree 1 - headset 2 - handsfree_plus_headset	
Default	0	

Web UI	Settings \rightarrow Ringing	
Phone UI	Menu \rightarrow Basic Setting \rightarrow Sound \rightarrow Ringing \rightarrow Ringing Device	
Parameter	FeatureHeadsetPriorEnableconfig.xml	
Description	It configures to enable the headset prior function.	
Permitted Values	false: Disable true: Enable	
Default	false	
Web UI	Features \rightarrow General \rightarrow Headset Prior:	

You need to press the Headset program key to activate/deactivate Headset function for the ALE Myriad Series phones. If the Headset is in use, the Headset icon will be displayed as red.

🕖 Jul 1	1 *		15:15	🕖 Jul 1	1 *		15:16
6201	11	Hea	adset 🔿	620	11	Hea	dset 🜔
💋 8099	93	Confer	ence 📇	💋 809	93	Confer	ence 📇
••••		60	0777 🔗			6	0777 🔗
🦀 Tran	sfer		1234	🤲 Tran	nsfer		1 2 3 4
Menu	DND	History	Directory	Menu	DND	History	Directory

Note: Regarding how to configure Headset program key, please refer to DSS Keys chapter.

11.10 Programmable Keys

The ALE Myriad Series phones support programmable Keys in phone and EM Keys in AOM module. You can configure different functions to programmable keys. This section explains how to configure programmable keys and EM Keys.

11.10.1 Supported Programmable Keys

The following table lists the number of programmable keys you can configure for each phone model:

Phone Model	Programmable Keys	EM Keys
М3	20	60 * 3
M5	28	60 * 3
M7	28	60 * 3
M8	36	60 * 3
H3P/H3G	8	N/A

Н6	12	N/A

11.10.2 Supported Programmable Key Types

The supported key function types vary by programmable keys and EM keys.

ID	Programmable Key Types	
0	N/A	
1	SpeedDial	
2	BLF List	
3	Do Not Disturb	
4	Directory	
5	VoiceMail	
6	Conference	
7	Forward	
8	Transfer	
9	Group Listening	
10	Headset	
11	Hot Desking	
12	Phone Lock	
13	Prefix	
14	DTMF	
15	Direct Pickup	
16	Group Pickup	
17	Call Park	
18	Recall	
19	XML Browser	
21	Intercom	
22	Retrieve Park	
23	AudioHub	
24	Private Hold	
58	Hold	
59	BLF	
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60	Account
61	USB Recording
62	Broadsoft Recording
63	Disposition Code
64	Emergency Escalation
65	Customer Originated Trace
66	Paging
67	Paging List
68	Mobile Account
69	Hoteling
70	Push To Talk
71	Logout
72	Network Call List
73	Network Contacts
74	Network Message List
75	Call Waiting
76	Network Call Log
77	Network Directory
78	Park Reminder

11.10.3 Programmable Keys

You can customize programmable keys on the phone to enable users to access frequently used functions. If your phone does not have a specific hard key, you can create a soft key. For example, if the phone does not have a Do Not Disturb hard key, you can create a Do Not Disturb soft key. The programmable key takes effect only when the IP phone is idle.

11.10.3.1 Programmable Keys Configuration

In R130 release, programmable keys layout of the ALE Myriad Series phones is changed to tree arrangement.

The following table lists the parameters you can use to configure programmable keys.

Parameter	ProgramKeyXType	config.xml
	It configures key features for a specific programmable key.	
Description Note: X can be 1-20 for M3, 1-28 for M5/M7, 1-36 for M8, 1-8 for H3P/H30		
	Н6.	



	0 - Not Used				
	1 - Speed Dial				
	59 - BLF				
	2 - BLF List				
	3 - Do Not Disturb				
	4 - Directory				
	5 - Voicemail				
	6 - Conference				
	7 - Forward				
	8 - Transfer				
	9 - Group Listening				
	10 - Headset				
	11 - Hot Desking				
	12 - Phone Lock				
	13 - Prefix				
	14 - DTMF				
	15 - Direct Pickup				
Downsitted	16 - Group Pickup				
Values	17 - Call Park				
, and co	18 - Recall				
	19 - XML Browser				
	21 - Intercom				
	22 - Retrieve Park				
	23 - AudioHub				
	24 - Private Hold				
	42 - ACD				
	58 - Hold				
	60 - Account				
	61 - Usb Recording				
	62 - Broadsoft Recording				
	63 - Disposition Code				
	64 - Emergency Escalation				
	65 - Customer Originated Trace				
	66 - Paging				
	67 - Paging List				
	68 - Mobile Account				
	69 - Hoteling				



	70 - Push To Talk			
	71 - Logout			
	72 - Network Call List			
	73 - Network Contacts			
	74 - Network Message List			
	75 - Call Waiting			
	76 - Network Call Log			
	77 - Network Directory			
	78 - Park Reminder			
Default	0			
Web UI	Phone Keys \rightarrow Program Key			
Phone UI	Long press softkey to enter programmable key configuratio	n menu.		
Parameter	ProgramKeyXAccount	config.xml		
	It configures the desired account to apply the programmabl	e key feature.		
Description	Note : X can be 1-20 for M3, 1-28 for M5/M7, 1-36 for M8, 1-8 H6.	for H3P/H3G, 1-12 for		
	1 - Account 1			
	2 - Account 2			
	3 - Account 3			
Downittod	4 - Account 4			
Values	5 - Account 5			
	6 - Account 6			
	7 - Account 7			
	8 - Account 8			
	N - Account N (N is 9-20 for M8,1-3 for H3P/H3G,1-4 for H6)			
Default	1			
Web UI	Phone Keys \rightarrow Program Keys			
Phone UI	Long press softkey to enter programmable key configuratio	n menu.		
Parameter	ProgramKeyXLabel	config.xml		
	It configures the label displayed on the phone screen for a skey.	pecific programmable		
Description	This is an optional configuration.			
	Note : X can be 1-20 for M3, 1-28 for M5/M7, 1-36 for M8, 1-8 for H6.	for H3P/H3G and 1-12		

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Permitted Values	String within 64 characters			
Default	empty			
Web UI	Phone Keys → Program Keys			
Phone UI	Long press softkey to enter programmable key configuratio	n menu.		
Parameter	ProgramKeyXValue	config.xml		
	It configures the value for some programmable key features	5.		
Description	For example, when you assign the Speed Dial to the programmable key, this parameter is used to specify the contact number you want to dial out. It is also used to specify the contact number with the DTMF sequence. The contact number and DTMF sequence are separated by commas.			
	Note: You need to configure this parameter when "programablekey.X.type" is set to 1, 59, 5, 14, 13, 15, 16,17,19,21,22 or 73.			
	X can be 1-20 for M3, 1-28 for M5/M7, 1-36 for M8, 1-8 for H3P/H3G, 1-12 for H6.			
Permitted Values	String within 64 characters			
Default	empty			
Web UI	Phone Keys → Program Keys			
Phone UI	Long press softkey to enter programmable key configuratio	n menu.		
Parameter	ProgramKeyXExtension	config.xml		
	For BLF feature:			
Description	It configures the pickup code.			
	Note: It is only applicable when "programablekey.X.type" is	set to 59.		
	X can be 1-20 for M3, 1-28 for M5/M7, 1-36 for M8, 1-8 for H3P/H3G, 1-12 for H6.			
Permitted Values	String within 64 characters			
Default	empty			
Web UI	Phone Keys → Program Keys			
Phone UI	Long press softkey to enter programmable key configuratio	n menu.		

11.10.3.2 Dynamic Keys Configuration

This feature supports configuring the programming hard keys and soft keys such as key Redial/key Hold/key conference and so on.

Users can configure these keys for custom functions such as Speed Dial/DND/Forward and so on.

The ******* in the table will be replaced by Key Name in the actual database.

The feature can be configured by the following parameters in the configuration file:

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Parameter	DynamicSoftKeyXType	config.xml		
Description	It configures the key type for a specific programmable key. Note: X can be 1- 4 for M3/M5/M7/H3P/H3G/H6, or 1-5 for M8.			
Description				
	0 - Empty			
	1 - Speed Dial			
	3 - Do Not Disturb			
	4 - Directory			
	7 - Forward			
	10 - Headset			
	11 - Hot Desking			
	12 - Phone Lock			
	13 - Prefix			
	18 - Recall			
	19 - XML Browser			
	21 - Intercom			
Permitted	23 - AudioHub			
Values	66 - Paging			
	67 - Paging List			
	71 - Logout			
	72 - Network Call List			
	73 - Network Contacts			
	74 - Network Message List			
	75 - Call Waiting			
	76 - Network Call Log			
	77 - Network Directory			
	78 - Park Reminder			
	101 - Menu			
	102 - History			
	103 - Status			
	104 - Login			
Default	0			
Web UI	Phone Keys \rightarrow Dynamic Key			
Parameter	DynamicSoftKeyXAccount	config.xml		
Description	It configures the desired account to apply the programmabl	le key feature.		
	Note: X can be 1- 4 for M3/M5/M7/H3P/H3G/H6, or 1-5 for M8.			



	1 - Account 1	
	2 - Account 2	
	3 - Account 3	
	4 - Account 4	
Permitted	5 - Account 5	
Values	6 - Account 6	
	7 - Account 7	
	8 - Account 8	
	N - Account N (N is 9-20 for M8, 1-3 for H3P/H3G, 1-4 for H6, for H6)	1-3 for H3P/H3G, 1-4
Default	1	
Web UI	Phone Keys \rightarrow Dynamic Softkey	
Parameter	DynamicSoftKeyXLabel	config.xml
	It configures the label displayed on the phone screen for a s	pecific programmable
Description	key. This is an optional configuration.	
	Note: X can be 1- 4 for M3/M5/M7/H3P/H3G/H6, or 1-5 for N	v18.
Permitted Values	String within 64 characters	
Default	Blank	
Web UI	Phone Keys \rightarrow Dynamic key	
Parameter	DynamicSoftKeyXNumber	config.xml
Description	It configures the value for some programmable key features	s.
Description	Note: X can be 1- 4 for M3/M5/M7/H3P/H3G/H6, or 1-5 for N	v18.
Permitted Values	String within 64 characters	
Default	Blank	
Web UI	Phone Keys \rightarrow Dynamic key	
Parameter	DynamicSoftKeyXExtension	config.xml
	This configuration is not applicable for programmable hard	key types.
Description	Note: X can be 1- 4 for M3/M5/M7/H3P/H3G/H6, or 1-5 for M	v18.
Permitted	String within 64 characters	
Values		
Default	Blank	
Web UI	Phone Keys \rightarrow Dynamic key	

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Parameter	DynamicKey***Type config.xml				
Description	It configures the key type for a specific programmable key.				
	0 - Not Used				
	1 - Speed Dial				
	3 - Do Not Disturb				
	4 - Directory				
	7 - Forward				
	10 - Headset				
	11 - Hot Desking				
	12 - Phone Lock				
	13 - Prefix				
	18 - Recall				
	19 - XML Browser				
Downsitted	21 - Intercom				
Values	23 - AudioHub				
Values	70 - Push To Talk				
	71 - Logout				
	72 - Network Call List				
	73 - Network Contacts				
	74 - Network Message List				
	75 - Call Waiting				
	76 - Network Call Log				
	77 - Network Directory				
	78 - Park Reminder				
	101 - Menu				
	102 - History				
	103 - Status				
Default	0				
Web UI	Phone Keys \rightarrow Dynamic Key				
Parameter	DynamicKey***Account config.xml				
Description	It configures the desired account to apply the programmabl	e key feature.			
	1 - Account 1				
	2 - Account 2				
Permitted	3 - Account 3				
values	4 - Account 4				
	5 - Account 5				



	6 - Account 6	
	7 - Account 7	
	8 - Account 8	
	N - Account N (N is 9-20 for M8,1-3 for H3P/H3G,1-4 for H6)	
Default	1	
Web UI	Phone Keys \rightarrow Dynamic Softkey	
Parameter	DynamicKey***Label	config.xml
Description	It configures the label displayed on the phone screen for a s key. This is an optional configuration.	pecific programmable
Permitted Values	String within 64 characters	
Default	Blank	
Web UI	Phone Keys \rightarrow Dynamic key	
Parameter	DynamicKey***Number	config.xml
Description	It configures the value for some programmable key features	5.
Permitted Values	String within 64 characters	
Default	Blank	
Web UI	Phone Keys \rightarrow Dynamic key	
Parameter	DynamicKey***Extension	config.xml
Description	This configuration is not applicable for programmable hard	key types.
Permitted Values	String within 64 characters	
Default	Blank	
Web UI	Phone Keys \rightarrow Dynamic key	

The Key Names supported are listed as follows:

Note: For M8, conference hard key is replaced by headset key. And VolUp/ VolDown keys are not available for M8.

Key Name	Default Type	Default Account	Default Label	Default Number	Default Extension
Redial	N/A	1			
Release	N/A	1			
Hold	N/A	1			

Mute	N/A	1		
Transfer	N/A	1		
Message	N/A	1		
Conference	N/A	1		
Handsfree	N/A	1		
Headset	N/A	1		
Up	N/A	1		
Down	N/A	1		
Left	N/A	1		
Right	N/A	1		
ОК	N/A	1		
Cancel	N/A	1		
VolUp	N/A	1		
VolDown	N/A	1		

11.10.3.3 EM Keys Configuration

The Alcatel-Lucent Enterprise SMART Expansion Module EM20/EM200 is a deskphone accessory, which extends Myriad IP phones' functionality.

The parameters which are configured for EM20/EM200 in the configuration template are described as follows:

Parameter	AomXProgKey[1,200]Type Note: The ALE Myriad Series phones support connecting up	config.xml		
	to 3 expansion modules. (3*EM20,3*EM200) (X=1-3)			
Description	It configures the key type for a specific EM key.			
	0 - Not Used			
	1 - Speed Dial			
	59 - BLF			
	2 - BLF List			
Downsitted	3 - Do Not Disturb			
Values	4 - Directory			
Values	5 - Voicemail			
	6 - Conference			
	7 - Forward			
	8 - Transfer			
	9 - Group Listening			



- 10 Headset
- 11 Hot Desking
- 12 Phone Lock
- 13 Prefix
- 14 DTMF
- 15 Direct Pickup
- 16 Group Pickup
- 17 Call Park
- 18 Recall
- 19 XML Browser
- 21 Intercom
- 22 Retrieve Park
- 23 AudioHub
- 24 Private Hold
- 42 ACD
- 58 Hold
- 60 Account
- 61 Usb Recording
- 62 Broadsoft Recording
- 63 Disposition Code
- 64 Emergency Escalation
- 65 Customer Originated Trace
- 66 Paging
- 67 Paging List
- 68 Mobile Account
- 69 Hoteling
- 70 Push To Talk
- 71 Logout
- 72 Network Call List
- 73 Network Contacts
- 74 Network Message List
- 75 Call Waiting
- 76 Network Call Log
- 77 Network Directory
- 78 Park Reminder

Default

0

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	Note: For M8, XML Browser is not supported.			
Web UI				
	AomXProgKey[1,200]Account			
Parameter	Note: The ALE Myriad Series phones support connecting up to 3 expansion modules. (3xEM20,3xEM200) (X=1-3)	config.xml		
Description	It configures the desired account to apply the EM key feature.			
	1 - Account 1			
	2 - Account 2			
	3 - Account 3			
Downsitted	4 - Account 4			
Values	5 - Account 5			
Values	6 - Account 6			
	7 - Account 7			
	8 - Account 8			
	N - Account N (N is 9-20 for M8, 1-3 for H3P/H3G, 1-4 for H6)			
Default	1			
Web UI	Phone Keys \rightarrow Program Key \rightarrow EM1/EM2/EM3			
	AomXProgKey[1,200]Label			
Parameter	Note: The ALE Myriad Series phones support connecting up to 3 expansion modules. (3xEM20,3xEM200) (X=1-3)	config.xml		
Description	It configures the label displayed on the phone screen for a spe	ecific EM key.		
	This is an optional configuration.			
Permitted Values	String within 64 characters			
Default	Blank			
Web UI	Phone Keys → Program Keys → EM1/EM2/EM3			
	AomXProgKev[1.200]Number			
Parameter	Note: The ALE Myriad Series phones support connecting up	config.xml		
	to 3 expansion modules. (3xEM20,3xEM200) (X=1-3)	5		
	It configures the value for some EM key features.			
Description For example, when you assign the Speed Dial to the EM key, this param				
	to specify the contact number you want to dial out.			
Permitted Values	String within 64 characters			
Default	Blank			

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Web UI	Phone Keys \rightarrow Program Keys \rightarrow EM1/EM2/EM3		
Parameter	AomXProgKey[1,200]Extension Note: The ALE Myriad Series phones support connecting up to 3 expansion modules. (3xEM20,3xEM200) (X=1-3)	config.xml	
Description	For BLF feature: It configures the pickup code.		
Permitted Values	String within 64 characters		
Default	Blank		
Web UI	Phone Keys \rightarrow Program Key \rightarrow EM1/EM2/EM3		

11.11 Wallpaper

Wallpaper is a picture which is used as the background of the IP phones. The phones have 5 default pictures. And the user can also change it to custom wallpaper using personal pictures. The wallpaper is only applicable to M5/M7/M8/H6 phones.

11.11.1 Wallpaper Configuration

The following table lists the parameters you can use to change the wallpaper.

Parameter	SettingWallpaperUploadUrl	config.xml
Description	It configures the access URL of the custom wallpaper picture.	
Permitted Values	String within 64 characters	
Default	Blank	
Web UI	Settings \rightarrow Display \rightarrow Wallpaper upload	
Parameter	SettingWallpaperDelete	config.xml
Description	The custom image file name which the user wants to delete.	
Permitted Values	String within 64 characters, for example: custom.png	
Default	Blank	
Web UI	Settings $ ightarrow$ Display $ ightarrow$ Wallpaper upload (delete the picture whi	ch is selected)
Parameter	SettingWallpaperDisplay	config.xml
Description	Custom wallpaper image file name	
Permitted Values	String within 64 characters	
Default	default.png	

Web UI

Settings \rightarrow Display \rightarrow Current Wallpaper

11.11.2 Custom Wallpaper Picture Limit

The wallpaper picture format must meet the following requirements:

Phone Model	Format	Resolution	Single File Size
M5/M7	PNG/JPG/JPEG/BMP	320 * 240	1MB
M8	PNG/JPG/JPEG/BMP	800 * 480	1MB

11.12 Call Display

Call Display is used in phone ringing, calling process, hold and other scenarios. This function is mainly used by users to configure the full name display method according to their own habits.

There are many main configuration items, defined as SIPPaiRefreshNum, SettingCallInfoDisplayMode and SettingCallInfoDisplaySource.

- SettingCallInfoDisplayMode is used for defining the call information display mode.
- SettingCallInfoDisplaySource is used for displaying the priority of the call number.

The following table lists the parameters you can use to configure the call display.

Parameter	SettingCallInfoDisplayMode	config.xml	
Description	It configures Call Display Part.		
	0: Name Number		
Dormittod	1: Number Name		
Values	2: Name		
, and co	3: Number		
	4: Full Contact Info		
Default	0		
Web UI	Settings \rightarrow Call Display \rightarrow Call Info Display Mode		
Parameter	SettingCallInfoDisplaySource	config.xml	
Description	It configures Call Display Source.		
Permitted	0 - Local Directory → Remote Phone Book → LDAP Directory →	Network signaling	
Values	1 - Network signaling		
Default	0		
Parameter	SIPPaiRefreshNum	config.xml	
Description	It configures multiple PAI headers are received, select the num display.	nber of PAI packets to	
Permitted Values	1: Use the first PAI header to display.		



	2: Use the second PAI header to display. 3: Use the third PAI header to display.
	Note: If the configured value is greater than the actual number of PAI headers received, the first headers will be use.
Default	1

11.13 Notification Pop-ups

This feature is used to control the popup of a new voicemail and a missed call.

The following table lists the parameters you can use to configure notification popups.

Parameter	FeatureVmPopupEnable	config.xml
Description	It enables or disables the popup of new voicemail.	
Permitted	false - disable	
Values	true - enable	
Default	true	
Parameter	FeatureMissedCallPopupEnable	config.xml
Description	It enables or disables the popup of missed call.	
Permitted	false - disable	
Values	true - enable	
Default	true	

11.14 IME Optimization

In Myriad R120 release, when the user uses an input method other than 123 (eg: abc ABC Abc 2ab...).

The phone provides an input field to prompt the user for the current input character and displays the next few characters.

Add Contact					
Avatar:					
First name: a					
Last name:		Ь	с	2	
Office:					
Back	Bkspc	abc		Save	



11.15 Search Source List in Dialing

Search Source List in Dialing allows you to search entries from the source list when the phone is on the pre-dialing/dialing screen. You can select the desired entry to dial out quickly.

The following table lists the parameters you can use to configure the search source list.

11.16 Soft Key Layout

Soft key layout is used to customize the soft keys at the bottom of the phone screen for best meeting users' requirements.

In addition to specifying which soft keys are to be displayed, you can also determine their display order. The configurations for soft key layout are based on call states.

11.16.1 Supported Call States and Soft Keys

The following table lists soft keys available for IP phones in different call states.

	Default Value		
State	M3/M5/M7/ H3P/H3G/ H6	M8	Allowed Value
Dial	Call Backspace IME Cancel	Call Directory Backspace IME Cancel	Call Backspace IME Cancel Directory History Empty
Dial Empty	Directory Empty IME Cancel	Directory Empty Empty IME Cancel	Directory History IME Cancel Empty
Transfer Dial	Blind Transfer Call Backspace Cancel	Call Directory Backspace Cancel Blind Transfer	Blind Transfer Call Backspace Cancel IME Directory History Empty
Transfer Dial Empty	Directory Empty	Directory	Directory History



	IME	Empty	IME
	Cancel	Empty	Cancel
		IME	Empty
		Cancel	
Conference Dial	Call Backspace IME Cancel	Call Directory Backspace IME Cancel	Call Backspace IME Cancel Directory History
			Empty
Conference Dial Empty	Directory Empty IME Cancel	Directory Empty Empty IME Cancel	Directory History IME Cancel Empty
Calling	Empty Empty Empty End	Empty Empty Empty Empty End	End Empty
Transferring	Transfer Empty Empty End	Transfer Empty Empty Empty End	Transfer End Empty
Call Failed	Empty Empty Empty End	New Call Empty Empty Empty End	End New Call Empty
Ringing	Take Silent Forward Reject	Take Empty Silent Forward Reject	Take Silent Forward Reject Empty

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New Callin	Empty Take Reject End	Take Empty Empty Reject End	Take Reject End Empty
Conference New Callin	Empty Take Reject End	Take Empty Empty Reject End	Take Reject End Empty
Conversation	Hold Transfer Conference End	Hold Empty Transfer Conference End	Hold Transfer Conference End Swap Empty
Hold	New Call Transfer Resume End	New Call Empty Transfer Resume End	New Call Transfer Resume End Empty
Held	Empty Empty Empty End	Empty Empty Empty Empty End	End Empty
Conference	Conference Manage Hold Split End	Conference Transfer Manage Hold Split End	Conference Manage Hold Split End Transfer Empty
Conference Hold	New Call Resume Split End	New Call Empty Resume Split End	New Call Resume Split End Empty



Be Transferred	Empty Empty Empty End	Empty Empty Empty Empty End	End Empty
Multicast Paging	Hold Empty Empty End	Hold Empty Empty Empty End	Hold End Empty
Multicast Listening	Hold Empty Empty End	Hold Empty Empty Empty End	Hold End Empty

11.16.2 Soft Key Layout File Customization

xml File	States
Dial.xml	Dial; DialEmpty; TransDial; TransDialEmpty; ConfDial; ConfDialEmpty
CallOut.xml	Calling; Transferring
CallFailed.xml	CallFailed
CallIn.xml	Ringing; NewCallin; ConfNewCallin
Talking.xml	Conversation; Hold; Held; Conf; ConfHold; BeTrans; Paging; Listening

Customizing Softkey Layout File:

- Step 1: Open the template file.
- Step 2: For each soft key that you want to enable/disable, move the string from the disabled/enabled soft key list to enabled/disabled soft key list in the file or replace the Empty in the enabled soft key list.

The following shows a portion of the softkey layout file "CallIn.xml":



1	xml version="1.0"?
2	<pre>□<ringing></ringing></pre>
3	🛱 <enable></enable>
4	<key value="Take"></key>
5	<key value="Forward"></key>
6	<key value="Silent"></key>
7	<key value="Reject"></key>
8	-
9	Allowed>
10	<key value="Take"></key>
11	<key value="Forward"></key>
12	<key value="Silent"></key>
13	<key value="Reject"></key>
14	<key value="Empty"></key>
15	-
16	L

• Step 3: Save the change and place this file on the provisioning server.

11.16.3 Softkey Layout Configuration

The following table lists the parameters you can use to configure the softkey layout.

Parameter	SettingCustomSoftkeyEnable	config.xml				
Description	It enables or disables the custom softkey layout feature.					
Permitted	false - disable					
Values	true - enable					
Default	false					
Web UI	WEB \rightarrow Settings \rightarrow Softkey Layout \rightarrow Custom Softkey					
Parameter	SettingCustomSoftkeyStateList config.xml					
	It configures the desired call state to apply the custom sof	tkey layout.				
Description	Note: Multiple call states are separated by commas. It wo " SettingCustomSoftkeyEnable " is set to true (Enabled).	rks only if				
	Blank - all call states will use the custom softkey layout)					
	Dial - Dial state					
	DialEmpty - DialEmpty state					
	TransDial - TransDial state					
Permitted	TransDialEmpty - TransDialEmpty state					
Values	ConfDial - ConfDial state					
	ConfDialEmpty - ConfDialEmpty state					
	Calling - Calling state					
	Transferring - Transferring state					
	CallFailed - CallFailed state					



	Ringing - Ringing state				
	NewCallin - NewCallin state				
	ConfNewCallin - ConfNewCallin state				
	Conversation - Conversation				
	Hold - Hold				
	Held - Held				
	Conf - Conf				
	ConfHold - ConfHold				
	BeTrans - BeTrans				
	Paging - Paging				
	Listening - Listening				
Default	Blank				
Parameter	SettingCustomSoftkeyDynamicEnable	config.xml			
	It enables or disables the phone to display the soft keys re	levant to the features			
Description	(call center, centralized call recording, and executive-assis	tant).			
	Note: It works only if "SettingCustomSoftkeyEnable" is s	set to true (Enabled).			
Permitted	false - disable				
Values	true - enable				
Default	true				
Parameter	SettingCustomSoftkeyDialUrl config.xml				
	It configures the access URL of the custom softkey layout file in the Dial state.				
Description	The states that the XML file contains: Dial; DialEmpty; Tran	sDial; TransDialEmpty;			
	ConfDial; ConfDialEmpty				
	Note: It works only if "SettingCustomSoftkeyEnable " is s	set to true (Enabled).			
Permitted Values	URL within 511 characters				
Default	Blank				
Parameter	SettingCustomSoftkeyCallOutUrl	config.xml			
	It configures the access URL of the custom softkey layout f	ile in the Callout state.			
Description	The states that the XML file contains: Calling; Transferring				
	The states that the XML me contains. Calling, Transferring				
	Note: It works only if " SettingCustomSoftkeyEnable " is s	set to true (Enabled).			
Permitted Values	Note: It works only if "SettingCustomSoftkeyEnable " is s URL within 511 characters	set to true (Enabled).			



Parameter	SettingCustomSoftkeyCallFailedUrl	config.xml				
	It configures the access URL of the custom softkey layout file in the Callfailed state.					
Description	The state that the XML file contains: CallFailed					
	Note: It works only if "SettingCustomSoftkeyEnable" is set to true (Enabled).					
Permitted Values	URL within 511 characters					
Default	Blank					
Parameter	SettingCustomSoftkeyCallInUrl	config.xml				
	It configures the access URL of the custom softkey layout	file in the CallIn state.				
Description	The states that the XML file contains: Ringing; NewCallin; (ConfNewCallin				
	Note: It works only if "SettingCustomSoftkeyEnable" is s	set to true (Enabled).				
Permitted Values	URL within 511 characters					
Default	Blank					
Parameter	SettingCustomSoftkeyTalkingUrl	config.xml				
Description	It configures the access URL of the custom softkey layout file in the Taking state. The states that the XML file contains: Conversation; Hold; Held; Conf; ConfHold; BeTrans; Paging; Listenning Note: It works only if " SettingCustomSoftkeyEnable " is set to true (Enabled).					
Permitted Values	URL within 511 characters					
Default	Blank					
Parameter	SettingCustomSoftkeyDial	config.xml				
Description	It configures custom Softkey in the Dial state.					
Description	Note: It works only if "SettingCustomSoftkeyEnable" is s	set to true (Enabled).				
Permitted Values	Call Backspace IME Cancel					
	Directory					
	History Blank - String within 511 characters					
Default	M3/M5/M7/H3P/H3G/H6: Call;Backspace;IME;Cancel M8: Call;Directory;Backspace;IME;Cancel					



Web UI	Settings \rightarrow Softkey Layout \rightarrow Call States				
Parameter	SettingCustomSoftkeyDialEmpty config.xml				
Description	It configures custom Softkey in the DialEmpty state. Note: It works only if " SettingCustomSoftkeyEnable " is set to true (Enabled).				
Permitted Values	Directory;History;IME;Cancel;Empty String within 511 characters				
Default	M3/M5/M7/H3P/H3G/H6: Directory;Empty;IME;Cancel M8: Directory;Emoty;Empty;IME;Cancel				
Web UI	Settings \rightarrow Softkey Layout \rightarrow Call States				
Parameter	SettingCustomSoftkeyTransDial	config.xml			
Description	It configures custom Softkey in the TransDial state. Note: It works only if "SettingCustomSoftkeyEnable " is s	set to true (Enabled).			
Permitted Values	Blind Transfer;Call;Backspace;Cancel;IME;Directory;History;Empty String within 511 characters				
Default	M3/M5/M7/H3P/H3G/H6: Blind Transfer;Call;Backspace;Cancel M8: Call;Directoey;Backspace;Cancel;Blind Transfer				
Web UI	Settings \rightarrow Softkey Layout \rightarrow Call States				
Parameter	SettingCustomSoftkeyTransDialEmpty config.xml				
Description	It configures custom Softkey in the DialEmpty state. Note: It works only if " SettingCustomSoftkeyEnable " is set to true (Enabled).				
Permitted Values	Directory;History;IME;Cancel;Empty String within 511 characters				
Default	M3/M5/M7/H3P/H3G/H6: Directory;Empty;IME;Cancel M8: Directory;Empty;Empty;IME;Cancel				
Web UI	WEB-Settings \rightarrow Softkey Layout \rightarrow Call States				
Parameter	SettingCustomSoftkeyConfDial	config.xml			
Description	It configures custom Softkey in the ConfDial state. Note: It works only if " SettingCustomSoftkeyEnable " is s	set to true (Enabled).			
Permitted Values	Call;Backspace;IME;Cancel;Directory;History;Empty String within 511 characters				
Default	M3/M5/M7/H3P/H3G/H6: Call;Backspace;IME;Cancel M8: Call;Directory;Backspace;IME;Cancel				

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Web UI	Settings \rightarrow Softkey Layout \rightarrow Call States			
Parameter	SettingCustomSoftkeyConfDialEmpty config.xml			
Description	It configures custom Softkey in the DialEmpty state. Note: It works only if " SettingCustomSoftkeyEnable " is set to true (Enabled).			
Permitted Values	Directory;History;IME;Cancel;Empty String within 511 characters			
Default	M3/M5/M7/H3P/H3G/H6: Directory;Empty;IME;Cancel M8: Directory;Empty;Empty;IME;Cancel			
Web UI	WEB \rightarrow Settings \rightarrow Softkey Layout \rightarrow Call States			
Parameter	SettingCustomSoftkeyCalling config.xml			
Description	It configures custom Softkey in the Calling state. Note: It works only if " SettingCustomSoftkeyEnable " is s	set to true (Enabled).		
Permitted Values	End;Empty String within 511 characters			
Default	M3/M5/M7/H3P/H3G/H6: Empty;Empty;Empty;End M8: Empty;Empty;Empty;Empty;End			
Web UI	Settings \rightarrow Softkey Layout \rightarrow Call States			
Parameter	SettingCustomSoftkeyTransferring	config.xml		
Description	It configures custom Softkey in the Transferring state. Note: It works only if " SettingCustomSoftkeyEnable " is set to true (Enabled).			
Permitted Values	Transfer - Transfer End - End Empty - Empty			
Default	M3/M5/M7/H3P/H3G/H6: Transfer;Empty;Empty;End M8: Transfer;Empty; Empty;Empty;End			
Web UI	WEB \rightarrow Settings \rightarrow Softkey Layout \rightarrow Call States			
Parameter	SettingCustomSoftkeyCallFailed	config.xml		
Description	It configures custom Softkey in the CallFailed state. Note: It works only if " SettingCustomSoftkeyEnable " is set to true (Enabled).			
Permitted Values	End;NewCall;Empty String within 511 characters			



Default	M3/M5/M7/H3P/H3G/H6: Empty;Empty;Empty;End M8: New Call;Empty;Empty;Empty;End				
Web UI	Settings \rightarrow Softkey Layout \rightarrow Call States				
Parameter	SettingCustomSoftkeyRinging	config.xml			
Description	It configures custom Softkey in the Ringing state. Note: It works only if " SettingCustomSoftkeyEnable " is set to true (Enabled).				
Permitted Values	Take;Slient;Forward;Reject;Empty String within 511 characters				
Default	M3/M5/M7/H3P/H3G/H6: Take;Silent;Forward;Reject M8: Take;Empty;Silent;Forward;Reject				
Web UI	WEB \rightarrow Settings \rightarrow Softkey Layout \rightarrow Call States				
Parameter	SettingCustomSoftkeyNewCallin config.xml				
Description	It configures custom Softkey in the NewCallin state. Note: It works only if " SettingCustomSoftkeyEnable " is s	set to true (Enabled).			
Permitted Values	Take;Reject;End;Empty String within 511 characters				
Default	M3/M5/M7/H3P/H3G/H6: Empty;Take;Reject;End M8: Take;Empty;Empty;Reject;End				
Web UI	Settings \rightarrow Softkey Layout \rightarrow Call States				
Parameter	SettingCustomSoftkeyConfNewCallin	config.xml			
Description	It configures custom Softkey in the NewCallin state. Note: It works only if " SettingCustomSoftkeyEnable " is set to true (Enabled).				
Permitted Values	Take;Reject;End;Empty String within 511 characters				
Default	M3/M5/M7/H3P/H3G/H6:Empty;Take;Reject;End M8: Take;Empty;Empty;Reject;End				
Web UI	Settings \rightarrow Softkey Layout \rightarrow Call States				
Parameter	SettingCustomSoftkeyConversation	config.xml			
Description	It configures custom Softkey in the Conversation state. Note: It works only if " SettingCustomSoftkeyEnable " is set to true (Enabled).				
Permitted Values	Hold;Transfer;Conference;End;Swap;Empty String within 511 characters				



Default	M3/M5/M7/H3P/H3G/H6: Hold;Transfer;Conference;End M8: Hold;Empty;Transfer;Conference;End			
Web UI	Settings \rightarrow Softkey Layout \rightarrow Call States			
Parameter	SettingCustomSoftkeyHold	config.xml		
Description	It configures custom Softkey in the Hold state. Note: It works only if " SettingCustomSoftkeyEnable " is set to true (Enabled).			
Permitted Values	NewCall;Transfer;Resume;End;Empty String within 511 characters			
Default	M3/M5/M7/H3P/H3G/H6: NewCall;Transfer;Resume;End M8: New Call;Empty;Transfer;Resume;End			
Web UI	Settings \rightarrow Softkey Layout \rightarrow Call States			
Parameter	SettingCustomSoftkeyHeld config.xml			
Description	It configures custom Softkey in the Held state. Note: It works only if "SettingCustomSoftkeyEnable " is s	set to true (Enabled).		
Permitted Values	End;Empty String within 511 characters			
Default	M3/M5/M7/H3P/H3G/H6: Empty;Empty;Empty;End M8: Empty;Empty;Empty;Empty;End			
Web UI	Settings \rightarrow Softkey Layout \rightarrow Call States			
Parameter	SettingCustomSoftkeyConf	config.xml		
Description	It configures custom Softkey in the Conf state. Note: It works only if " SettingCustomSoftkeyEnable " is set to true (Enabled).			
Permitted Values	Conference;Manage;Hold;Split;End;Transfer;Empty String within 511 characters			
Default	M3/M5/M7/H3P/H3G/H6: Conference;Manage;Hold;Split;End M8: Conference;Transfer;Manage;Hold;Split;End			
Web UI	Settings \rightarrow Softkey Layout \rightarrow Call States			
Parameter	SettingCustomSoftkeyConfHold	config.xml		
Description	It configures custom Softkey in the Hold state. Note: It works only if " SettingCustomSoftkeyEnable " is set to true (Enabled).			
Permitted Values	NewCall;Resume;Split;End;Empty String within 511 characters			



Default	M3/M5/M7/H3P/H3G/H6: NewCall;Resume;Split;End M8: New Call;Empty;Resume;Split;End				
Web UI	Settings \rightarrow Softkey Layout \rightarrow Call States				
Parameter	SettingCustomSoftkeyBeTrans	config.xml			
Description	It configures custom Softkey in the BeTrans state. Note: It works only if " SettingCustomSoftkeyEnable " is s	set to true (Enabled).			
Permitted Values	End;Empty String within 511 characters				
Default	M3/M5/M7/H3P/H3G/H6: Empty;Empty;Empty;End M8: Empty;Empty;Empty;Empty;End				
Web UI	Settings \rightarrow Softkey Layout \rightarrow Call States				
Parameter	SettingCustomSoftkeyPaging config.xml				
Description	It configures custom Softkey in the Paging state. Note: It works only if " SettingCustomSoftkeyEnable " is set to true (Enabled).				
Permitted Values	Hold;End;Empty String within 511 characters				
Default	M3/M5/M7/H3P/H3G/H6: Hold;Empty;Empty;End M8: Hold;Empty;Empty;Empty;End				
Web UI	Settings \rightarrow Softkey Layout \rightarrow Call States				
Parameter	SettingCustomSoftkeyListening	config.xml			
Description	It configures custom Softkey in the paging Listening state. Note: It works only if " SettingCustomSoftkeyEnable " is set to true (Enabled).				
Permitted Values	Hold;End;Empty String within 511 characters				
Default	M3/M5/M7/H3P/H3G/H6: Hold;Empty;Empty;End M8: Hold;Empty;Empty;Empty;End				
Web UI	Settings \rightarrow Softkey Layout \rightarrow Call States				

11.16.4 Example: Setting the Soft Keys Layout in Talking State

The following example shows the configuration for setting the soft key layout in the talking state.

Customize a softkey layout file "Talking.xml" and place this file on the provisioning server

"http://10.11.5.140".

Example:



<setting value="true" id=" SettingCustomSoftkeyEnable " override="true"/>

<setting value="http://10.11.5.140/Talking.xml" id="SettingCustomSoftkeyTalkingUrl " override="true"/>

The states that the XML file contains: Conversation; Hold; Held; Conf; ConfHold; BeTrans; Paging; Listening

After provisioning, you can use the enabled soft keys during a call.

12. Advanced Features

12.1 Audio Hub

The ALE Myriad Series M3/M5/M7/M8 DeskPhones can act as an external audio device of a PC or mobile. When a PC or mobile plays audio application or video application or plays music, the voice can be transmitted to the ALE Myriad Series phones. The audio hub playing music can be controlled to play or pause by a programmable key named Audio Hub.

USB-C port supports Audio Hub by default.

The ALE Myriad Series phones support Audio Hub through BT, contact sync, audio transmission and call control.

M3/M5/M7 Audio Hub supports USB and Mobile BT.

M8 Audio Hub supports USB, mobile BT and PC BT.

12.1.1 AudioHub Programmable Key Configuration via Web UI

You can configure the AudioHub programmable key via the Web UI path Phone Keys \rightarrow Program key and setting the programmable key's type to Audio Hub.

Alcatel-Lucen Enterprise	ıt 🕖	Web Based Mar	agement	M5			Using defau	ilt p
	Ē	Program key	,					
 Status 		Program Keys	EM1 EM	M2 EM3				
Version								
Accounts		Key	Туре	Account	Value	Label	Extension	
Network		Key1	Account	✓ Account1 ✓				
🛜 Account		Key2	Account	✓ Account2 ✓				
Network		Key3	AudioHub	✓ Account1 ✓				
Frovision		Key4	Not Used	✓ Account1 ✓				
🚰 Phone Keys		Key5	HeadSet	∼ Account1 ∨				
Program key		Key6	Not Used	✓ Account1 ∨				
Dynamic key		Key7	Not Used	✓ Account1 ✓				
Settings		Key8	Not Used	✓ Account1 ✓				

12.1.2 AudioHub Programmable Key Configuration via Phone UI

You can configure the AudioHub programmable key via Phone UI by long pressing a programmable key and then setting the programmable key's type to Audio Hub.



Programmable Key					
Кеу Туре	Audio Hub				
Label					
		l			
Back	Switch Save				

To use Audio Hub from USB-A port, you can change USB mode from Phone UI via path: Menu \rightarrow Basic Setting \rightarrow USB.

If you change this parameter, the IP phone will reboot for the change to take effect.

Note: This configuration is mainly for M3/5/7.

USB Mode								
USB-A		Audi	o Hub	<>				
USB-C		Host	:	<>				
Back		Switch	Sa	ve				

Note: This configuration is not available for the M8 Phone.

12.1.3 AudioHub Programmable Key Configuration Parameters

The following table lists the parameters you can use to configure the AudioHub programmable key.

Parameter	UsbAMode	config.xml
Description	It configures the USB-A mode. It can be set to a Host which ca accessories such as USB headset and USB external handsfree which can be regarded as PC's sound equipment. Note: This configuration is not available for the M8 Phone.	an plug in audio or set to Audio Hub
Permitted Values	0 - Host 1 - Audio Hub	
Default	0	
Phone UI	Menu \rightarrow Basic Setting \rightarrow USB	



Parameter	UsbCMode	config.xml					
Description	It configures the USB-C mode. It can be set to Host which car accessories such as USB headset and USB external handsfree which can be regarded as PC's sound equipment.	n plug in audio e or set to Audio Hub					
Permitted Values	0 - Host 1 - Audio Hub						
Default	1						
Phone UI	Menu \rightarrow Basic Setting \rightarrow USB						
Parameter	ProgramKeyXType config.xml						
Description	It configures the programmable key type. X can be number 1~20 for M3 or 1~28 for M5/M7 or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6.						
Permitted Values	23 - AudioHub						
Default	0						
Phone UI	Select one program key, then long press it for 2s, and select k	Key Type as Audio Hub.					
Web UI	Phone Keys \rightarrow Program key						
Parameter	ProgramKeyXLabel	config.xml					
Description	It configures the programmable key label. X can be number 1 M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6	1~20 for M3 or 1~28 for 5.					
Permitted Values	strings						
Default	Blank						
Phone UI	Select one program key, then long press it for 2s, and input s define a name.	trings for Label to					
Web UI	Phone Keys \rightarrow Program Key						

12.1.4 AudioHub via BT Programmable Key Configuration through Phone UI

After the M7/M8 DeskPhone connects with a mobile phone via Bluetooth, you can make and receive mobile calls on the IP phone, and hold/retrieve/end mobile calls from the IP phone. You can also use your IP phone as a Bluetooth speaker for your mobile phone.

When a mobile phone is connected via Bluetooth, the phone UI will generate a mobile account programmable key automatically. You can also long press a programmable key to manually configure a mobile account programmable key.



Programmable Key								
Кеу Туре	Mobile Acco <>							
Label								
Back	Switch Save							

12.1.5 AudioHub via BT Programmable Key Configuration Parameters

The following table lists the parameters you can use to configure the AudioHub function.

Parameter	ProgramKeyXType config.xml					
Description	It configures the programmable key type. X can be number 1~20 for M3 or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6.					
Permitted Values	68 - Mobile Account					
Default	0					
Phone UI	Select one program key, then long press it for 2s, and select Key Type as Mobile Account.					
Web UI	Phone Keys \rightarrow Program Key					
Parameter	ProgramKeyXLabel config.xml					
	rogramicy/Luber	coning.xim				
Description	It configures the programmable key label. X can be number for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 f	⁻ 1~20 for M3 or 1~28 for H6.				
Description Permitted Values	It configures the programmable key label. X can be number for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 f strings	or H6.				
Description Permitted Values Default	It configures the programmable key label. X can be number for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 f strings Blank	or H6.				
Description Permitted Values Default Phone UI	It configures the programmable key label. X can be number for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 f strings Blank Select one program key, then long press it for 2s, and input define a name	toring.xim 1~20 for M3 or 1~28 for H6. strings for Label to				

12.2 X-party Conference

The ALE Myriad Series M3/M5/M7/H3P/H3G/H6 DeskPhones have the capability to launch a 5-party conference by local.

The M8 phone has the capability to launch a 12-party conference by local.

Note: When the phone audio codec is configured as Opus + Super Wide Band, it only supports 4-party conferences. When the phone audio codec is configured as Opus + Wide Band, it only supports 10-party conferences.

After establishing 3-party conference, users can press 'Conf' button to add a new user then press 'Join' button to merge the new user to current conference.

The phones support split/remove during conference.

The improvements include:

- Allow an incoming call when there is an active conference
- Split conference to separated hold calls
- Remove conference participants

The menu in the conference state has changed. It has 6 menus now and "Split" & "Manage" are added.



12.2.1 X-party Conference Configuration via Web UI

You can configure local conference via the Web UI path: Features \rightarrow SIP.

M3/M5/M7/H3P/H3G/H6: The following figure shows the 5-party conference configuration.

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	Web Based Management M7		
 	SIP		
Provision 🗸 🗸	SIP		
🚑 Phone Keys 🛛 🗸	Register Retry Time:	300	0
🔅 Settings	Local SIP Port:	5060	0
E Features	Local SIP Secure Port:	5061	0
General	Local SRTP Port:	30000	0
Forward	Local SRTCP Port:	30001	0
DND	Local RTP Port:	6000	0
Intercom	Local RTCP Port:	40	0
Multicast Paging	Audio QoS (0~63) :	46	1
HotLine	SIP Qos (0~63) :	40	0
ACD	SIP Max Call:	4	0
Sip	Local Conference Enable:	• •	
Action URL	Local Conference Max Party:	5	0

M8: The following figure shows the 12-party conference configuration.

Alcatel Lucent

Alcatel-Lucent 🕖	Web Based Management M8		
E	SIP		
Provision ~	SIP		
🚜 Phone Keys 🚽	Register Retry Time:	300	•
🔅 Settings 🗠	Local SIP Port.	5060	0
Features	Local SIP Secure Port	5061	٢
General	Local SRTP Port:	30000	۲
Forward	Local SRTCP Port:	30001	0
DND	Local RTP Port.	6000	۲
Intercom	Local RTCP Port	6001	۲
Multicast Paging	Audio QoS (0-63)	46	0
Hotline	SIP Qos (0-63) :	40	
ACD	SIP Max Call:	11	1
Sip	Local Conference Enable:	۰ ۲	
Action URL	Local Conference Max Party:	12	۲

12.2.2 X-party Conference Configuration via Phone UI

5-party conference:

Ð	1/1	Confe	rence	16:07		Ð	2/2	Conve	rsation	00:07		Ð	1/1	Confe	rence	16:59	
٩.					Ç	S.					O	s.		G			Q
			2												2		
		Confe	rence					100	015					Confe	erence		
		Memb	oers: 3		34			100	015		34			Memb	oers: 4		34
Co	onf	Manage	Hold	М	ore	Ho	old	Transfer	Join	E	nd	Mar	nage	Hold	Split	End	conf

12-party conference:



12.2.3 X-party conference Configuration Parameters

The following table lists the parameters you can use to configure X-party conference.



Parameter	SIPLocalConfEnable	config.xml
Description	It enables or disables local conference function.	
Permitted	false - disable	
Values	true - enable	
Default	true	
Web UI	Features → Sip	
Parameter	SIPMaxCall	config.xml
Description	It defines the max call capacity of the phone.	
Permitted	M3/M5/M7/H3P/H3G/H6: 1-4	
Values	M8: 1-11	
Default	M3/M5/M7/H3P/H3G/H6: 2	
Web UI	Features → Sip	
Parameter	LocalConfPartyMax	config.xml
Description	It defines the max party capacity of a phone conference.	
Permitted	M3/M5/M7/H3P/H3G/H6: 3-5	
Values	M8: 3-12	
Default	M3/M5/M7/H3P/H3G/H6: 3 M8: 12	
Web UI	Features → Sip	

12.3 Hot Desking

The ALE Myriad Series phones all support Hot Desking feature with the same behavior.

Hot desking feature is working for a shared phone which can be used when employees are not in their office and with no phone in hand. Then they can log in to a shared phone by hot desking feature. Hot desking allows the user to clear pre-registration configurations of all accounts on the IP phone and then login to their own user account.

On the shared phone, you first need to assign a Hot Desking key.

Alcatel Lucent

Alcatel·Luce Enterprise	ent 🕢	Web Based M	anageme	nt M	.5				Using default passv
	≖	Program key	,						
(i) Status	^	Program Keys	EM1	EM2	EM3				
Version									
Accounts		Кеу	Туре		Account		Value	Label	Extension
Network		Key1	Account	~	Account1	~			
🛜 Account	~	Key2	Account	~	Account2	~			
Wetwork	~	Кеу3	Account	~	Account3	~			
🔓 Provision	~	Key4	Hot Desking	~	Account1	~			
	~	Key5	HeadSet	~	Account1	~			
Program kov		Key6	Not Used	~	Account1	~			
Durania kay		Key7	Not Used	~	Account1	~			
Settings	<u>^</u>	Key8	Not Used	~	Account1	~			

12.3.1 Hot Desking Key Configuration via Web UI

12.3.2 Hot Desking Key Configuration via Phone UI

Long press a program key more than 2s and select the Key Type as Hot Desking.

Programmable Key							
Key Type Hot Desking							
Label		Hot Desking					
Back	Bkspc	123	Save				

Press program key to activate Hot Desking for the ALE Myriad Series phones.



Login in the number which needs to be registered in myriad phone with correct password.
Hot Desking					
Number 123456					
Password *****					
Back	Bkspc	123	Save		

12.3.3 Hot Desking Configuration Parameters

The following table lists the parameters you can use to configure hot desking.

Parameter	ProgramKeyXType	config.xml			
Description	It configures the programmable key type. X can be number 1~20 for M3 or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6.				
Permitted Values	11 - Hot Desking				
Default	0				
Phone UI	Select one program key, then long press it for 2s, and select k Desking.	ίey Type as Hot			
Web UI	Phone Keys → Program Key				
Parameter	ProgramKeyXLabel	config.xml			
Description	It configures the programmable key label. X can be number 1 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for	~20 for M3 or 1~28 - H6.			
Permitted Values	strings				
Default	Blank				
Phone UI	Select one program key, then long press it for 2s, and input st define a name	rings for label to			
Web UI	Phone Keys \rightarrow Program Key				

12.4 Intercom

Intercom is a useful feature in an office environment to quickly connect with the operator or the secretary. You can press the intercom key to place a call to a contact that will be answered automatically on the contact's phone as long as the contact is in idle state or during an active call.



12.4.1 Intercom Key Configuration via Web UI

Alcatel·Lucent 🕢	Web Based Management M5					Using default passwo
E Provision	Program Key	/s				
Auto Provision	Program Keys	EM1 EM2	EM3			
TR069	Кеу	Туре	Account	Value	Label	Extension
Phone Keys 🔿	Key1	Account \checkmark	Account1	×		
Program Keys	Key2	HeadSet \vee	Account1	~		
Dynamic Softkey	Key3	Account ~	Account2	~		
🌣 Setting 🛛 🗸	Key4	Intercom V	Account1	×		
ž≣ Features ∧	Key5	Account \checkmark	Account3	×		
Forward	Key6	Not Used \lor	Account1	~		
DND	Kou7	Not Used	Account1			

12.4.2 Outgoing Intercom Configuration via Phone UI

Long press a program key more than 2s, select the Key Type as Intercom, and then fill in the corresponding settings.

Programmable Key					
Кеу Туре		Intercom			
Account:		Account 1			
Label		to Amy			
Value:		1107			
Back	Bkspc	123 Save			

12.4.3 Outgoing Intercom Configuration Parameters

The following table lists the parameters you can use to configure intercom for outgoing call.

Parameter	ProgramKeyXType	config.xml
Description	It configures the programmable key type. X can be number 7 M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H	I∼20 for M3 or 1~28 for 6.
Permitted Values	21 - Intercom	
Default	0	
Phone UI	Select one program key, then long press it for 2s, and select	Key Type as Intercom.



Web UI	Phone Keys \rightarrow Program Key				
Parameter	ProgramKeyXAccount	config.xml			
Description	It configures the account index of the program key. X can be or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G o	number 1~20 for M3 r 1~12 for H6.			
Permitted Values	1~8 for M3/M5/M7 1~20 for M8 1~3 for H3P/H3G 1~4 for H6				
Default	1				
Phone UI	Select one program key, then long press it for 2s, and select to use intercom.	the account intended			
Web UI	Phone Keys \rightarrow Program Key				
Parameter	ProgramKeyXLabel	config.xml			
Description	It configures the programmable key label. X can be number 1~20 for M3 or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6.				
Permitted Values	strings				
Default	Blank				
Phone UI	Select one program key, long press it for 2s, and then input l	abel name.			
Web UI	Phone Keys → Program Key				
Parameter	ProgramKeyXValue	config.xml			
Description	It configures the program key number. X can be number 1~2 M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H	20 for M3 or 1~28 for 6.			
Permitted Values	strings				
Default	Blank				
Phone UI	Select one program key, then long press it for 2s, and input t number for this program key.	he outgoing call			
Web UI	Phone Keys → Program Key				

12.4.4 Incoming Intercom Configuration via Phone UI

You can configure incoming intercom via the Phone UI path Menu \rightarrow Features \rightarrow Intercom by selecting one account and entering the intercom setting.

Intercom					
Allow	Enabled	<>			
Mute	Disabled	< >			
Tone	Enabled	< >			
Barge	Disabled	< >			
Back	Switch	Save			

12.4.5 Incoming Intercom Configuration via Web UI

You can configure incoming intercom via the Web UI path: Features \rightarrow Intercom.

Alcatel-Luce	nt 🕢	Web Based Management M5	
🔿 Account	<u>ت</u> ا ~	Intercom	
Network	~	Intercom	
👌 Provision	Ý	Account:	Accounti
讲 Phone Keys	~	Enable Intercom:	0
🔅 Settings	~	Intercom Mute:	
≆ ⊟ Features	^	Intercom Barge:	
General		Outgoing Intercom Method:	Call-info 🗸 🕐
Forward			
DND			Submit
Intercom			

12.4.6 Incoming Intercom Configuration Parameters

The following table lists the parameters you can use to configure intercom for an incoming call.

Note: X means account ID and it can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXIntercomEnable	config.xml
Description	If it is set to true, the phone may auto answer an incoming call SIPUA layer.	if requested by
Permitted Values	false - disable true - enable	
Default	true	
Phone UI	Menu \rightarrow Feature \rightarrow Intercom	
Web UI	Features \rightarrow Intercom \rightarrow Enable Intercom	

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Parameter	AccountXIntercomMuteEnable	config.xml
Description	It enables or disables when the phone auto answers an interco	om call. It will mute.
Permitted Values	false - disable true - enable	
Default	false	
Phone UI	Menu \rightarrow Features \rightarrow Intercom	
Web UI	Features \rightarrow Intercom \rightarrow Intercom Mute	
Parameter	AccountXIntercomToneEnable	config.xml
Description	It enables or disables when the phone auto answers an interco warning tone.	om call. It will play a
Permitted	false - disable	
Values	true - enable	
Default	true	
Phone UI	Menu \rightarrow Features \rightarrow Intercom	
Web UI	Features \rightarrow Intercom \rightarrow Intercom Tone	
Parameter	AccountXIntercomBargeEnable	config.xml
Description	It enables or disables when the phone auto answers a second hold the previous and answer the second.	intercom call. It will
Description Permitted	It enables or disables when the phone auto answers a second hold the previous and answer the second. false - disable	intercom call. It will
Description Permitted Values	It enables or disables when the phone auto answers a second hold the previous and answer the second. false - disable true - enable	intercom call. It will
Description Permitted Values Default	It enables or disables when the phone auto answers a second hold the previous and answer the second. false - disable true - enable false	intercom call. It will
Description Permitted Values Default Phone UI	It enables or disables when the phone auto answers a second hold the previous and answer the second. false - disable true - enable false Menu → Features → Intercom	intercom call. It will
Description Permitted Values Default Phone UI Web UI	It enables or disables when the phone auto answers a second hold the previous and answer the second. false - disable true - enable false Menu → Features → Intercom Features → Intercom Barge	intercom call. It will
Description Permitted Values Default Phone UI Web UI Parameter	It enables or disables when the phone auto answers a second hold the previous and answer the second. false - disable true - enable false Menu → Features → Intercom Features → Intercom Barge AccountXOutgoingIntercomMethod	intercom call. It will
Description Permitted Values Default Phone UI Web UI Parameter Description	It enables or disables when the phone auto answers a second hold the previous and answer the second. false - disable true - enable false Menu → Features → Intercom Features → Intercom Barge AccountXOutgoingIntercomMethod It configures the type of intercom for account.	intercom call. It will
Description Permitted Values Default Phone UI Web UI Parameter Description Permitted Values	It enables or disables when the phone auto answers a second hold the previous and answer the second. false - disable true - enable false Menu → Features → Intercom Features → Intercom → Intercom Barge AccountXOutgoingIntercomMethod It configures the type of intercom for account. 0 - Call-info 1 - Alert-info 2 - Answer-mode	intercom call. It will
Description Permitted Values Default Phone UI Web UI Parameter Description Permitted Values Default	It enables or disables when the phone auto answers a second hold the previous and answer the second. false - disable true - enable false Menu → Features → Intercom Features → Intercom Barge AccountXOutgoingIntercomMethod It configures the type of intercom for account. 0 - Call-info 1 - Alert-info 2 - Answer-mode 0	intercom call. It will config.xml
Description Permitted Values Default Phone UI Web UI Parameter Description Permitted Values Default Phone UI Parameter	It enables or disables when the phone auto answers a second hold the previous and answer the second. false - disable true - enable false Menu → Features → Intercom Features → Intercom Barge AccountXOutgoingIntercomMethod It configures the type of intercom for account. 0 - Call-info 1 - Alert-info 2 - Answer-mode 0 Menu → Features → Intercom	intercom call. It will config.xml



12.5 Push-To-Talk

PTT (Push-To-Talk) is the same as Intercom. It is another kind of Intercom. The main difference is that PTT feature needs long pressing the key to establish a call and release key to release the call, while Intercom is a one-click key.

Note: A Key Type "PTT" is applicable to Program Key/EM Key and the key type ID is 70.

12.6 Voicemail

Voicemail is an application which can save voice messages from other users when the phone is busy or unavailable. The user can also send messages to other users by his voicemail box.

12.6.1 Voicemail Configuration via Phone UI

You can view the Voicemail via the Phone UI path: Menu \rightarrow Message \rightarrow Voicemail \rightarrow View Voicemail, and also can set voice mail number by path: Menu \rightarrow Message \rightarrow Voicemail \rightarrow Set Voicemail Number.

You can view the voicemail via message key to quickly view it.

View Voicemail			Set Voicemail Number			
1115	0 new(s)		1115			
10004	3 new(s)		10004		*97	
10005	1 new(s)		10005		*97	
oxe8001	0 new(s)		oxe8001		4444	
Back		Enter	Back	Bkspc	123	Save

If you subscribe successfully, you will also see a prompt window under idle.

Available			02:31	Available			02:32
1001	9	Hea	idset ᠺ	7 1001	9	He	adset 📿
1001	4,,,,,,1			1001	4,,,,,,1		
	In	fo				And	1
14	new voice	e message(s)			ð122.	1 2 3 4
Back			Enter	My State	Menu	DND	More

12.6.2 Voicemail Configuration via Web UI

You can configure voicemail via Web UI in Account Advanced setting.



← → C ▲ Not secure	← → C A Not secure https://135.251.222.69/#/account/advance					
	Web Based Management M5					
Ē	Advanced					
Accounts	Advanced					
Network	Account					
🗟 Account	Account. Account	· ·				
Basic	Voice Mail Number:	0				
Busic	Message Waiting Indication URI:	0				
Codec	N-conference URI:	0				
Advanced	Sopior Tupo:					
🌐 Network 🗸 🗸	Server rype.	· · · · · · · · · · · · · · · · · · ·				
	DTMF Mode: RFC2833					
	SRTP Working Mode: None	~ ⑦				
Phone Keys ^	Keep Alive:					
Program key	Keep Alive Timer: 40	0				
Dvnamic key						
	Session Timer: 0	0				

12.6.3 Voicemail Configuration Parameters

The following table lists the parameters you can use to configure the intercom for incoming call.

Note: X means account ID and it can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXVmNumber config.xml			
Description	It configures voicemail number for accountX.			
Permitted Values	string			
Default	Blank			
Phone UI	Menu \rightarrow Message \rightarrow Voicemail \rightarrow Set Voicemail Number			
Web UI	Account \rightarrow Advanced			
Parameter	AccountXMwiUri config.xml			
Description	It configures message waiting indication server address for ac disables phone to pop up the message notification when recei	count. It enables or iving new voicemail.		
Permitted Values	string			
Default	Blank			

Web UI

Account \rightarrow Advanced

12.7 BLF

The ALE Myriad Series phones support BLF feature. BLF (Busy Lamp field) is a function which can monitor another phone number's call status and can display the status on the BLF program key LED. You can also make speed dial calls to the monitored phone number.

Notify	Icon	LED State		Description
		M3/5/7	H3X6/M8	
Terminated	ß	On (Blue)	On (Blue)	The monitoring account is idle. Note: If the notify message does not carry a clear status, it is regarded as idle.
Early/proceeding	۲	Fast-flashing Blue	Fast-flashing Red	The monitoring account is ringing.
Confirmed	%	Slow-flashing Blue	On (Red)	The monitoring account is in call talking.
Confirmed-hold		On (Blue)	Slow-flashing Red	The monitoring account is on hold.
Parked	P	On (Blue)	Slow-flashing Red	The monitoring account is on parked.
Offline/Unregister	8	Off	Off	The monitoring account is offline or not registered. Not subscribed.
Unknow	G	Off	Off	The monitoring account is unknown, that is, the Notify message carries other states than the preceding ones. or only receive 2000K, but no notify.

12.7.1 BLF Configuration via Phone UI

You can configure BLF programmable key on the phone by selecting one soft key, long pressing it for 2s, and choosing the Key Type as BLF.



Progra	mmable Key			Program	mable Key	
Кеу Туре	BLF	<>	Extension		*8	
Account:	Account	1 💔				
Label	blf1000	в				
Value:	10008					
Back	Switch	Save	Back	Bkspc	123	Save

12.7.2 BLF Configuration via Web UI

You can configure one soft key as BLF on web by Phone Keys \rightarrow Program Key.

Alcatel-Lucen	t 🕖	Web Based Management M5						
	E Program key							
LLDP			-					
OpenVPN		Program Keys	EM1 EM	IZ EM3				
Provision	^	Key	Туре	Account	Value	Label	Extension	
Auto Provision		Key1	Account	∨ Account1 ∨				
TR069		Key2	Account	✓ Account2 ✓				
🚰 Phone Keys	^	Кеу3	BLF	✓ Account1 ✓	*8	BLF	550	
Program key		Key4	Not Used	✓ Account1 ✓				
Dynamic key		Кеуб	HeadSet	✓ Account1 ✓				

12.7.3 BLF Configuration Parameters

The following table lists the parameters you can use to configure one softkey as BLF.

Parameter	ProgramKeyXType config.xml			
Description	It configures the programmable key type. X can be number 1~20 for M3 or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6.			
Permitted Values	59 - BLF			
Default	0			
Phone UI	Select one soft key, long press it for 2s, and select Key Type as BLF.			
Web UI	Phone Keys → Program Key			
Parameter	ProgramKeyXAccount	config.xml		
Description	It configures the account index of the program key. X can be number 1~20 for M3 or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H61~20 for M3 or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6.			
Permitted Values	1~8 for M3/M5/M7 1~20 for M8 1~3 for H3P/H3G			

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	1~4 for H6			
Default	1			
Phone UI	Select one program key, long press it for 2s, and select the accou use BLF.	unt intended to		
Web UI	Phone Keys → Program Key			
Parameter	ProgramKeyXLabel	config.xml		
Description	It configures the programmable key label. X can be number 1~2 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H	0 for M3 or 1~28 6.		
Permitted Values	strings			
Default	Blank			
Phone UI	Select one program key, long press it for 2s, and input strings fo name	or Label to define a		
Web UI	Phone Keys → Program Key			
Parameter	ProgramKeyXValue config.xml			
	It configures the program key number, X can be number $11 \sim 20$	(
Description	M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6.	for MI3 or 1~28 for		
Description Permitted Values	M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6.	for M3 or 1~28 for		
Description Permitted Values Default	M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6. strings Blank	for M3 or 1~28 for		
Description Permitted Values Default Phone UI	M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6. strings Blank Select one program key, long press it for 2s, and input the outgo for this programmable key	bing call number		
Description Permitted Values Default Phone UI Web UI	M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6. strings Blank Select one program key, long press it for 2s, and input the outgo for this programmable key Phone Keys → Program Key	bing call number		
Description Permitted Values Default Phone UI Web UI Parameter	M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6. strings Blank Select one program key, long press it for 2s, and input the outgo for this programmable key Phone Keys → Program Key ProgramKeyXExtension	bing call number		
Description Permitted Values Default Phone UI Web UI Parameter Description	M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6. strings Blank Select one program key, long press it for 2s, and input the outgo for this programmable key Phone Keys → Program Key ProgramKeyXExtension It configures program key extension. X can be number 1~20 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H61~ for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H61~	config.xml M3 or 1~28 for 20 for M3 or 1~28 6.		
Description Permitted Values Default Phone UI Web UI Parameter Description Permitted Values	M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6. strings Blank Select one program key, long press it for 2s, and input the outgo for this programmable key Phone Keys → Program Key ProgramKeyXExtension It configures program key extension. X can be number 1~20 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H61~ for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H61~ for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H	bing call number M3 or 1~28 for M3 or 1~28 for 20 for M3 or 1~28 6.		
Description Permitted Values Default Phone UI Web UI Parameter Description Permitted Values Default	M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6. strings Blank Select one program key, long press it for 2s, and input the outgo for this programmable key Phone Keys → Program Key ProgramKeyXExtension It configures program key extension. X can be number 1~20 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H61~ for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H61~ strings Blank	bing call number M3 or 1~28 for 20 for M3 or 1~28 6.		

Web UI

Phone Keys \rightarrow Program Key

12.8 Call Pickup

You can use call pickup to answer someone's incoming call on your phone using a pickup code.

The ALE Myriad Series phones support Directly Call Pickup and Group Call Pickup types.

- **Direct Call Pickup**: It allows you to pick up incoming calls to a specific phone.
- **Group Call Pickup**: It allows you to pick up incoming calls to any phone within a predefined group of phones.

12.8.1 Direct Pickup Configuration via Phone UI

On the phone, you can select one softkey key, long press it for 2s, and choose the Key Type as DirectPickup.

Programmable Key			
Кеу Туре	DirectPickup 📢		
Account:	Account 1		
Label	dpickup1107		
Value:	**1107		
Back	Switch Save		

12.8.2 Direct Pickup Configuration via Web UI

You can program one soft key as Direct Pickup type to perform directly pick up function.

Alcatel-Lucent Enterprise	1	Web Based Management M5 Using das					Using default pa	
	<u>ت</u>	Program key						
🔰 Provision	^	Program Keys	EM1 EM2	EM3				
Auto Provision		Kev	Type	Account	Value	Label	Extension	
TR069		ney	1160	Account	Tanac		Extension	
🚰 Phone Keys	^	Key1	Account	Account1 ~				
Program key		Key2	Account \lor	Account2 ~				
riogramikey		Кеу3	Direct Pickup 🗸 🗸	Account1 \sim	**1107	dpickup1107		
Dynamic key		Key4	Not Used 🗸 🗸	Account1 ~				

12.8.3 Direct Pickup Configuration Parameters

The following table lists the parameters you can use to configure one softkey to perform direct pickup function.

Parameter	ProgramKeyXType	config.xml
Description	It configures the programmable key type. X can be number 1~20 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12) for M3 or 1~28 61~20 for M3 or for H6.

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Permitted Values	15 - Direct Pickup			
Default	0			
Phone UI	Select one program key, long press it for 2s, and select Key Type	as Direct Pickup.		
Web UI	Phone Keys → Program Key			
Parameter	ProgramKeyXAccount	config.xml		
Description	It configures the account index of the program key. X can be nur or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~ M3 or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or	mber 1~20 for M3 12 for H61~20 for [.] 1~12 for H6.		
Permitted Values	1~8 for M3/M5/M7 1~20 for M8 1~3 for H3P/H3G 1~4 for H6			
Default	1			
Phone UI	Select one program key, long press it for 2s, and select the account to use Direct Pickup			
Web UI	Phone Keys → Program Key			
Parameter	ProgramKeyXLabel config.xml			
Description	It configures the programmable key label. X can be number 1~20 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6	D for M3 or 1~28 5.		
Permitted Values	strings			
Default	Blank			
Phone UI	Select one programmable key, long press it for 2s, and input the	label name.		
Web UI	Phone Keys \rightarrow Program Key			
Parameter	ProgramKeyXValue	config.xml		
Description	It configures the program key number. X can be number 1~20 fo M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6.	or M3 or 1~28 for		
Permitted Values	strings			
Default	Blank			
Phone UI	Select one programmable key, long press it for 2s, and input the	label name.		

Web UI	Phone Keys \rightarrow Program Key	
Web UI	Phone Keys \rightarrow Program Key	

12.8.4 Group Pickup Configuration via Phone UI

You can program one soft key as Group Pickup by long pressing it for 2s and selecting Key Type as GrpPickup.

Programmable Key				
Кеу Туре	GrpPickup 🔇			
Account:	Account 1			
Label	grppickup1107			
Value:	*8			
Back	Switch	Save		

12.8.5 Group Pickup Configuration via Web UI

You can program one softkey as Group Pickup type and define the Value and Label by path Phone Keys \rightarrow Program Key.

Alcatel·Lucent 🕖	Web Based Management M5 Us				
≡	Program key				
OpenVPN	Departum Kowa Eb	44 EM2 EM2			
Provision ^	Piogram Reys	I EMZ EMS			
Auto Provision	Кеу Туре	Account	Value	Label	Extension
TR069	Key1 Accou	int v Account1			
🚰 Phone Keys 🛛 🔿	Key2 Accou	int v Account2			
Program key	Key3 Group	Pickup v Account1	*8	gpickup1107	
Dynamic key	Key4 Not U	ised ~ Account1			
Settings	Key5 HeadS	Set ~ Account1			

12.8.6 Group Pickup Configuration Parameters

The following table lists the parameters you can use to configure one softkey to perform group pickup function.

Parameter	ProgramKeyXType	config.xml	
Description	It configures the programmable key type. X can be number 1~20 for M3 or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H61~20 for M3 or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6.		
Permitted Values	16 - Group Pickup		
Default	0		
Phone UI	Select one program key, long press it for 2s, and select Key Ty	/pe as GrpPickup.	



Web UI	Phone Keys → Program Key			
Parameter	ProgramKeyXAccount	config.xml		
Description	It configures the account index of the program key. X can be number 1~20 for M3 or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H61~20 for M3 or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6.			
Permitted Values	1~8 for M3/M5/M7 1~20 for M8 1~3 for H3P/H3G 1~4 for H6			
Default	1			
Phone UI	Select one program key, long press it for 2s, and select the accuse GrpPickup.	count intended to		
Web UI	Phone Keys → Program Key			
Parameter	ProgramKeyXLabel	config.xml		
Description	It configures the programmable key label. X can be number 1~20 for M3 or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H61~20 for M3 or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6.			
Permitted Values	strings			
Default	Blank			
Phone UI	Select one program key, long press it for 2s, and input strings name	for label to define a		
Web UI	Phone Keys -> Program Key			
Parameter	ProgramKeyXValue	config.xml		
Description	It configures the program key number. X can be number 1~20 M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for) for M3 or 1~28 for 1~20 for M3 or 1~28 ' H6.		
Permitted Values	strings			
Default	Blank			
Phone UI	Select one program key, long press it for 2s, and input strings pickup code	for label to define		
Web UI	Phone Keys → Program Key			

12.9 Call Park & Retrieve

Call Park allows users to park a call on a special extension. Retrieve Park allows users to retrieve a parked call from another phone.

12.9.1 Call Park & Retrieve Configuration via Phone UI

You can program one softkey by long pressing it for 2s and select Key Type as Call Park or Retrieve.

Program	mable Key	Pro	grammable Key
Кеу Туре	Call Park 📢	🕨 Кеу Туре	Retrieve Par 🔇
Account:	Account 1	Account:	Account 1
Label	park	Label	retrieve
Value:	100	Value:	101
Back	Switch Save	Back	Switch Save

12.9.2 Call Park & Retrieve Configuration via Web UI

You can program one softkey as Call Park or Retrieve Park type and define the Value and Label by path Phone Keys \rightarrow Program Key.

Alcatel-Lucer Enterprise	nt 🕖	Web Based Man	agement M5				Using default pa
	5	Program key					
Status	~	Program Keys	EM1 EM2	EM3			
窗 Account	~						
Network	~	Key	Туре	Account	Value	Label	Extension
😺 Provision	~	Key1	Account \lor	Account1 ~			
Phone Keys	^	Key2	Account ~	Account2 ~			
Program key		Кеу3	AudioHub 🗸	Account1 ∨			
Dynamic key		Key4	Call Park 🗸	Account1 ~	100	park	
A Settings	~	Key5	Retrieve Park 🗸 🗸	Account1 ~	101	retrieve	
, Coungs		Key6	Not Used \checkmark	Account1 ~			
₽ Features	~	Key7	Not Used 🗸	Account1 ~			

12.9.3 Call Park Configuration Parameters

The following table lists the parameters you can use to configure one softkey to perform call park function.

Parameter	ProgramKeyXType	config.xml	
Description	It configures the programmable key type. X can be number 1~20 for M3 or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6.		
Permitted Values	17 - Call Park		
Default	0		



Phone UI	Select one program key, long press it for 2s, and select Key Type as Call Park.			
Web UI	Phone Keys → Program Key			
Parameter	ProgramKeyXAccount config.xml			
Description	It configures the account index of the program key. X can be number 1~20 for M3 or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6.			
Permitted Values	1~8 for M3/M5/M7 1~20 for M8 1~3 for H3P/H3G 1~4 for H6			
Default	1			
Phone UI	Select one program key, long press it for 2s, and select the use Call Park.	account intended to		
Web UI	Phone Keys → Program Key			
Parameter	ProgramKeyXLabel config.xml			
Description	It configures the programmable key label. X can be number 1~20 for M3 or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6.			
Permitted Values	strings			
Default	Blank			
Phone UI	Select one program key, long press it for 2s, and input a label name.			
Web UI	Phone Keys → Program Key			
Parameter	ProgramKeyXValue	config.xml		
Description	It configures the program key number. X can be number 1 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12	~20 for M3 or 1~28 for H6.		
Permitted Values	strings			
Default	Blank			
Phone UI	Select one program key, long press it for 2s, and input a la	bel name		
Web UI	Phone Keys \rightarrow Program Key			
Parameter	FeatureCallParkMode	config.xml		
Description	It configures the call park method.			

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Permitted	0 - Direct call			
Values	1 - Blind transfer call			
Default	1			
Web UI	Features \rightarrow Call Park \rightarrow Call Park Mode			
Parameter	FeatureCallParkEnable config.xml			
Description	It configures the Call Park function is enabled or disabled. After activation, the call park button is displayed on the softkey on the talking.			
Permitted	false:disable			
Values	true:enable			
Default	false			
Web UI	Features \rightarrow Call Park \rightarrow Call Park			
Parameter	FeatureCallParkParkCode	config.xml		
Description	It configures the call park code.			
Permitted Values	String within 64 characters.			
Default	Blank			
Web UI	Features \rightarrow Call Park \rightarrow Call Park Code			
Parameter	FeatureCallParkRetrieveCode	config.xml		
Description	It configures the call park retrieve code.			
Permitted Values	String within 64 characters			
Default	Blank			
Web UI	Features \rightarrow Call Park \rightarrow Retrieve Park Code			
Parameter	FeatureCallParkDirectCallEnable	config.xml		
Description	It configures enable or disable whether to make a direct call after pressing the Park/Retrieve softkey. This parameter is valid only when FeatureCallParkMode = 0 and the CallPark /Retrieve code is configured			
Permitted	false:disable			
Values	true:enable			
Default	true			



12.9.4 Retrieve Park configuration parameters

The following table lists the parameters you can use to configure one softkey to perform retrieve park function.

Parameter	ProgramKeyXType	config.xml
Description	It configures the programmable key type. X can be number 1~ for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for	20 for M3 or 1~28 H6.
Permitted Values	22 – Retrieve Park	
Default	0	
Phone UI	Select one program key, long press it for 2s, and select Key Typ	oe as Retrieve.
Web UI	Phone Keys \rightarrow Program Key	
Parameter	ProgramKeyXAccount	config.xml
Description	It configures the account index of the program key. X can be n or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1	umber 1~20 for M3 ~12 for H6.
Permitted	1~8	
Values	Note : For M8, the value can be 1~20.	
Default	1	
Phone UI	Select one program key, long press it for 2s, and select the acc use Retrieve.	ount intended to
Web UI	Phone Keys → Program Key	
Parameter	ProgramKeyXLabel	config.xml
Description	It configures the programmable key label. X can be number 1- for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for	-20 for M3 or 1~28 H6.
Permitted Values	strings	
Default	Blank	
Phone UI	Select one program key, long press it for 2s, and input a label i	name.
Web UI	Phone Keys → Program Key	
Parameter	ProgramKeyXValue	config.xml
Description	It configures the program key number. X can be number 1~20 M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6.	for M3 or 1~28 for

Permitted Values	strings
Default	Blank
Phone UI	Select one program key, long press it for 2s, and input a label name.
Web UI	Phone Keys → Program Key

12.10 Shared Line Appearance (SLA)

ALE phones support Shared Line Appearance (SLA) to share a line.

Shared line appearances enable more than one phone to share the same line or registration. The methods you use vary with the SIP server you are using.

The shared line users can do the following:

- Place and answer calls
- Place a call on hold
- Retrieve a held call remotely
- Barge in an active call
- Pull a shared call

12.10.1 SLA Configuration via Web UI

You can enable SLA feature for specific account via the Web UI path: Account \rightarrow Advanced.

Alcatel·Lucent 🕖	Web Based	Management M5		
③ Status		Off Code:		0
R Account		Anonymous Call Rejection:	0	
Pasic		On Code:		0
Codec		Off Code:		0
Codec		Digit Map:		0
Advanced		Digit Map Timer:		0
Network		Privacy Mode:	header;critical;id ~	0
Provision ~		Rport:	0	
🚰 Phone Keys 🔷		Auto Answer:	0	
Program key		SIP Pick Up Prefix Code :		0
Dynamic key		Send User=Phone:	0	
🔅 Settings		SLA Enable:	0	
Time&Date		Use SIPs URI Enable:	0	
Call Display		Subscrible Time:	3600	0
Audio		Secondary Subscrible Time:	3600	0
Display		Max Failure Time:	60	0
Ringing		TLS Anticipation Enable:	0 0	
Dialing Rule				
Phone Lock			S	ubmit



12.10.2 SLA Configuration Parameters

Parameter	AccountXSIaEnable	config.xml
Description	It enables or disables the SLA function for account X. X can be number 1~20 for M3 or 1~28 for M5/M7 and or 1~36 for M8 or 1~8 for H3P/H3G or 1~12 for H6.	
Permitted Values	false - disable true - enable	
Default	false	
Web UI	Account \rightarrow Advanced	

The following table lists the parameters you can use to enable SLA feature for one account.

12.11 Call Completion

When the user places a call and the callee is temporarily unavailable to answer the call, SIPMMI will save the callee's number and use the SUBSCRIBE/NOTIFY method to subscriber callee's status.

When the phone receives NOTIFY message with "terminal" status:

- If the phone is idle, the phone screen will prompt whether to dial the number; If yes, the phone will dial the last outgoing failed number.
- If the phone is not idle, the phone will not prompt until the phone is idle.

The following table lists the parameters you can use to configure the Call Completion feature.

Parameter	FeatureCallCompletionEnable	config.xml
Description	It enables or disables Call Completion feature.	
Permitted Values	false - disable true - enable	
Default	false	
Web UI	Features → General	

12.12 Automatic Call Distribution (ACD)

ACD enables the use of IP phones in a call-center role by automatically distributing incoming calls to available users or agents. You can enable users to use their phone in a call center agent/a supervisor role on a supported call server.

The users can sign in and sign out of the ACD state as call center agent using soft keys. The server distributes calls to the agent when the agent state is available and stops distributing calls when the agent changes state to unavailable.

The IP phone remains in the unavailable status until the agent manually changes the IP phone status. You can configure how long the IP phone remains unavailable state and changes to available automatically on a supported call server. The methods you use vary with the SIP server you are using.



12.12.1 ACD Key Configuration via Phone UI

You can configure a soft key as ACD key to log into the ACD system. The ACD key on the IP phone indicates the ACD state.

On the phone, select one soft key, long press it for 2s, and select Key Type as ACD.

Programmable Key				
Кеу Туре	ACD	<>		
Label ACD				
Back	Switch	Save		

The following shows configuration for an ACD key.

<setting id="ProgramKey4Type" value="42"/>

<setting id="ProgramKey4Label" value="ACD"/>

After provisioning, an ACD key is available on the phone, and you can press the ACD key to log into the ACD system.

12.12.2 ACD Configuration Parameters

The following table lists the parameters you can use to configure ACD function.

Note: X means account ID and it can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXAcdEnable	config.xml
Description	It enables or disables Acd feature for account.	
Permitted Values	false - disable true - enable	
Default	false	
Parameter	FeatureAcdAutoAvailableEnable	config.xml
Description	It enables or disables the IP phone to automatically change th agent to available after the designated time.	ne status of the ACD
Permitted Values	false - disable true - enable	
Default	false	
Web UI	Features \rightarrow ACD \rightarrow ACD Auto Available Enable	

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Parameter	FeatureAcdAutoAvailableTimeout	config.xml
Description	It configures the interval (in seconds) for the status of the AC automatically changed to available.	D agent to be
Permitted Values	NUMERIC[0,120]	
Default	60	
Web UI	Features \rightarrow ACD \rightarrow ACD Auto Available Timeout (0~120s)	
Parameter	AccountXAcdInitialState	config.xml
Description	It configures the initial agent state for account.	
Permitted Values	1 - Available 2 - Unavailable	
Default	1	
Parameter	FeatureAcdReasonCodeX Note: X can is 1~10	config.xml
Description	It configures the ACD Reason Code for account.	
Permitted Values	strings	
Default	Blank	
Parameter	FeatureAcdReasonNameX Note: X can is 1~10	config.xml
Description	It configures the ACD Reason Name for account.	
Permitted Values	Strings	
Default	Blank	
Parameter	FeatureAcdSoftkeyEnable	config.xml
Description	It enables or disables the IP phone to display the ACD menu k Logout on desktop screen.	keys such as Login or
Permitted Values	false - disable true - enable	
Default	false	

12.13 Broadsoft Hoteling

Cisco BroadWorks provides the capability to synchronize the hoteling guest user identity between the phone and Cisco BroadWorks. This enables the phone to display the hoteling guest's identity on the phone and also provides the signaling basis for the phone to allow a hoteling guest login via the phone interface. This feature is dedicated to the Broadsoft platform.

• If the hoteling feature is properly configured and the device is powered on, the device will send an initial subscription to get the hoteling status. If the phone is in guest in state, the receiving HotelingEvent NOTIFY will contain the Guest identity; if "FeatureHotelingSoftkeyEnable" is set to true (default is true), there will be a "GuOut" menu inserting into bottom bar used to help user to check out hoteling. The relevant account programmable key will also be changed to display as the guest number (as below 0902).



• When you guest out by pressing the menu "GuOut" or "Hoteling" programmable key, there will be a popup for confirmation.



• When you guest out successfully, the device will receive a HotelingEvent NOTIFY with empty guest identity, then the relevant account key display will refresh back to the host display (as below 9725980905). "GuOut" menu will be removed and replaced by "GuIn" menu.





 You can press "GuIn" or "Hoteling" programmable key to Guest In, and input guest user ID and password in login page.

Guest Login			
ID: 972598090			0902
Password:		*****	
Auto Login		Enabled	<>
Back	Bkspc	123	Login

12.13.1 Hoteling Key Configuration

You can configure a line key as Hoteling key to log into the Hotel system.

On the phone, select one programmable key, long press it for 2s, and select Key Type as Hoteling.

The following shows configuration for a Hoteling Key.

<setting id="ProgramKey5Type" value="69"/>

<setting id="ProgramKey5Label" value="Hoteling"/>

12.13.2 Hoteling Configuration Parameters

The following table lists the parameters you can use to configure Hoteling function.

Note: X means account ID. It can be number 1-8 for M3/M5/M7, 1-20 for M8, 1-3 for H3P/H3G, 1-4 for H6.

Parameter	AccountXHotelingEnable	config.xml
Description	It enables or disables the hoteling feature for account. Note: It works only if "AccountXServerType" is set to 6 (Broad	dsoft).



Permitted	false - disable	
Values	true - enable	
Default	false	
Parameter	AccountXHotelingUserId	config.xml
Description	It configures the user ID used to log into the guest profile.	
Permitted Values	strings	
Default	Blank	
Parameter	AccountXHotelingPwd	config.xml
Description	It configures the password used to log into the guest for account. Note: It works only if "AccountXServerType" is set to 6 (Broadsoft).	
Permitted Values	String within 99 characters	
Default	Blank	
Parameter	HotelingAutoLoginEnable	config.xml
Description	Note: It works only if "AccountXServerType" is set to 6 (Broad	dsoft).
Permitted	false - disable	
Values	true - enable	
Default	false	
Parameter	FeatureHotelingSoftkeyEnable	config.xml
Description	It enables or disables to display the 'Guout' menu in bottom bar. Note: It works only if "AccountXServerType" is set to 6 (Broadsoft).	
Permitted	false - disable	
Values	true - enable	
Default	true	



13. Troubleshooting

When the phone is not functioning normally, the user can try the following methods to restore normal operation of the phone or collect relevant information and send a problem report to the manufacture's technical support for analysis.

13.1 Log Collection

You can choose to generate the log files locally or send the log files to syslog server in real time, and use these log files to generate informational, analytic and troubleshoot phones.

13.1.1 Syslog Server

You can configure syslog via the Web UI path: Maintenance \rightarrow Log Collection \rightarrow Syslog

Alcatel-Lucent 🕖	Web Based Management M5		
Ξ	Log Collection		
Status	System log		
🗟 Account 🗸	Syslog enable:	0	
Network	Syslog server:	172.24.190.254	0
Provision	Syslog port:	514	0
讲 Phone Keys	Syslog protocol:	UDP	∽ ⊘
🔅 Settings			Submit
🚝 Features	Web Capture		
Contact Manager	Web Capture:	Start End Download	0
X Maintenance	Log Level		
Firmware Upgrade	Global:	Error	~
Config File	ApplicationManager Module:	Error	~
Reboot&Reset	Ictaudio Module:	Fror	
Log Collection		E	
	ICTCIGateLite Module:	Error	\sim

The following table lists the parameters you can use to configure syslog.

Parameter	DeviceSyslogRemoteServerAddr	config.xml
Description	It configures the syslog server address.	
Permitted Values	strings	
Default	Blank	
Web UI	Maintenance \rightarrow Log Collection \rightarrow Syslog	



Parameter	DeviceSyslogRemoteServerPort	config.xml
Description	It configures the syslog server port.	
Permitted Values	strings	
Default	514	
Web UI	Maintenance \rightarrow Log Collection \rightarrow Syslog	
Parameter	DeviceSyslogRemoteServerProtocol	config.xml
Description	It configures the syslog server protocol.	
B 144 I		
Permitted	udp	
Values	udp tcp	
Values Default	udp tcp udp	

13.1.2 Log File Backup

The IP phone can automatically upload call log files at regular intervals to the provisioning server or a specific server. If a call log file exists on the server, it will be overwritten.

The following table lists the parameters you can use to configure call log backup.

Parameter	BackupUploadTime	config. <mac>.xml</mac>
Description	It configures the interval time of uploading a backup file.	
Permitted Values	String	
Default	3600	
Parameter	DeviceBackupUrl	config. <mac>.xml</mac>
Description	It configures the URL which is used to upload and download the backup file.	
Permitted Values	String	
Default	Blank	
Parameter	DeviceBackupUploadMethod	config. <mac>.xml</mac>
Description	It configures the way (POST/PUT) to upload files.	
Permitted	0 - put	
Values	1 - post	
Default	0	

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Parameter	DeviceCallLogBackupEnable	config. <mac>.xml</mac>
Description	It configures whether to enable or disable callLogBackup.	
Permitted	false	
Values	true	
Default	false	

13.1.3 Log Level Setting

Log information is helpful when encountering a problem. The phone will generate log files according to the log level. ALE SIP phones support 6 levels for log recording, and more content will be recorded with a higher level. The level from lowest to highest is: Emergency \rightarrow Error \rightarrow Warning \rightarrow Notice \rightarrow Informational \rightarrow Debug. The default log level is Error. Generally, for serious issues, debug level is recommended.

13.1.3.1 Log Level Configuration via Web UI

To get the phone log information, you need to log into the phone web page, and then go to the menu: Maintenance \rightarrow Log Collection.

• In log level field define either the relevant log level to debug in dropdown menu or define all modules to debug level in "Global" drop down menu list. Then press "Save" button to save the configuration.

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	Web Based /	Management M5		
				Submit
Forward				
		Web Capture		
Intercom		Web Capture:	Start End Download	0
Multicast Paging		Log Level		
HotLine		Clobal	Free	
ACD		Giudai.	EII0	~
		ApplicationManager Module:	Error	~
Sip		Ictaudio Module:	Error	~
Action URL				
Remote Control		ICTCliGateLite Module:	Error	~
		ICTGate Module:	Error	~
Contact Manager		Icteinus Modula:	Debug	
X Maintenance		rcisipua mouule.	Deong	×
		LoggerModule Module:	Error	~
Firmware Upgrade		No_facility Module:	Error	~
Config File				
Doboot®Doard		Platform Module:	Error	~
Reboolareset		SettingsManager Module:	Error	×
Log Collection		Sinmmi Module:	Debug	
Certificate Management		Siprim woulde.	Debug	*
		Telephony Module:	Error	~
Change Password		Log Level Setting	Save Local Log Download	
Security				

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	Web Based	Management M5		
Œ				Submit
Forward				_
DND		Web Capture		
Intercom		Web Capture:	Start End Download	0
mercom				
Multicast Paging		Log Level		
HotLine		Global:	Debug	
ACD				
Sip		Applicationmanager Module:	Debug	×
Action URL		Ictaudio Module:	Debug	~
Domoto Control		ICTCliGateLite Module:	Debug	~
Remote Control		ICTGate Module:	Debug	~
🔰 Contact Manager 🛛 👋		Ictsipua Module:	Debug	~
🗙 Maintenance 🛛 🔿		LorderModule Module:	Debug	
Firmware Upgrade		Loggennodule module.	Deoug	
Config File		No_facility Module:	Debug	×
		Platform Module:	Debug	~
Reboot&Reset		SettingsManager Module:	Debug	×
Log Collection		Sipmmi Module:	Debug	~
Certificate Management		Telephony Module:	Debug	~
Change Password				
Security		Log Level Setting	Save Local Log Download	

You can also configure global level via the parameter below:

Parameter	DeviceLogLevel	config. <mac>.xml</mac>	
Description	It configures the minimum level of local log information recording.		
	0 - Emergency		
	1 - Error		
Permitted	2 - Warning		
Values	3 - Notice		
	4 - Informational		
	5 - Debug		
Default	1		
Web UI	Maintenance \rightarrow Log Collection		

• Perform the operation and try to reproduce the problem.

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• Download the log files.

Then you can send the log files to the technician to identify the problem.

13.1.3.2 Configure Log Level by Commands

Procedures to configure log level by command for each service module:

• Step 1: Enable SSH connection for the phone.

The table below shows how to enable SSH by parameters.

Parameter	DeviceSecuritySshEnable	config. xml
Description	It enables or disables SSH connection for the phone.	
Permitted Values	false - disable true - enable	
Default	1	
Web UI	Maintenance \rightarrow Security	

- Step 2: Connect the phone and login with admin.
- Step 3: Input command "level" to check current log level setting.

ger.log
bg
log
3
.log

• Step 4: Set log level for specific the phone's service module. For example, set "ictsipua" module as debug level, and then input "level ictsipua debug".

\$ leve	el icts	ipua	debug			
Level	debug	for	facility	:	ictsipua	0K

13.1.4 Web Capture

Sometimes dumping the network packets of the device helps issue identification.

To get the device packets, log in to the device web portal, go to Maintenance \rightarrow Log Collection \rightarrow Web Capture, click Start in "Web Capture" section.

The user then performs relevant operations such as activating/deactivating an account or making telephone calls and clicks the "End" button in the web page when the operation is finished.

Then the user can press the "Download" button to download the packets for analysis.

	Web Based Management M5
三	Log Collection
Status	System log
🗟 Account 🗸 🗸	Syslog enable: (2)
Network ~	Syslog server:
🕹 Provision 🗸 🗸 🗸	Syslog port: 514 ⑦
🚰 Phone Keys 🗸 🗸	Syslog protocol: UDP V (?)
🔅 Settings 🗸 🗸 🗸	Submit
🚝 Features 🗸 🗸	Web Capture
🔰 Contact Manager 🛛 👋	Web Capture: End Download
🗙 Maintenance 🛛 🔿	Log Level
Firmware Upgrade	Global: Error ~
Config File	ApplicationManager Module: Error
Reboot&Reset	Ictaudio Module: Error
Log Collection Certificate Management	ICTCIIGateLite Module: Error

13.2 Resetting Device to Factory Settings

13.2.1 Resetting Device to Factory Settings via Web UI

You can reset or reboot the phone via the Web UI path: Maintenance \rightarrow Reboot & Reset

The phone will restart when clicking OK button of "Reboot".

The phone will be reset to factory configuration when clicking OK button of "Reset to Factory Settings".

Note: All the configuration on the phone will be erased after resetting to factory settings.

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	Web Based Management M5		Using default password. Pl
≡	Reboot & Reset		
Remote Phone Book	Reboot		
History	Reboot	ок	
Settings			
💥 Maintenance 🛛 🔿	Reset		
Firmware Upgrade	Reset to Factory Settings	ок	
Config File			
Reboot&Reset			
Log Collection			
Certificate Management			
Change Password			
Security			

13.2.2 Resetting Device to Factory Settings via Phone UI

You can reset the phone to factory setting on phone UI by path: Menu \rightarrow Advanced Setting (default password: 123456) \rightarrow Reset \rightarrow Reset to Factory Settings.

Reset
Reset to Factory Settings
This operation will reset to factory
settings. Continue?
OK

Press the OK button to restore the phone to factory configuration.

13.2.3 Resetting Your Device to Factory Settings on Keyboard

For the M3/M5/M7/H3P/H3G/H6 DeskPhone, you can reset the phone to factory settings by long pressing Conference Key over 10s while the phone is in idle status. Press the OK button when the warning page pops up to reset the phone to factory settings.

For the M8 DeskPhone, you could long press Headset Hard Key to trigger resetting the phone to factory settings.

Note: All the configuration on the phone will be erased after the phone rebooting.





13.3 One Key Reboot

The phone provides a quick way to reboot. You need to press the C key for 10 seconds.

An inquiry box will pop up to ask whether to restart.

OK: By pressing "OK", the deskphone will reboot in a few seconds.

Cancel: By pressing "Cancel", the deskphone will cancel the operation.



13.4 Network Diagnostics

You can use ping and traceroute diagnostics for troubleshooting network connectivity via phone user interface.

Go to the phone UI: Menu \rightarrow Advanced Setting (default password:123456) \rightarrow Net Diagnose, and then input the IP address to trigger "ping" or "traceroute" command. The diagnosis result will be displayed on the screen.





13.5 Packets Capture via PC Port

You can capture data packets of the phone with PC port mirror function.

The following table lists the parameters you can use to configure PC port mirror function.

Parameter	DeviceNetworkSpanToPcType	config. <mac>.xml</mac>
Description	It enables or disables the IP phone to span data packets recei port to the PC port.	ved from the LAN
Permitted Values	0 - Idle status without mirror setting 1 - enable PC port mirroring LAN port	
Default	0	

While the PC port is mirroring the LAN port, you can connect PC on PC port to capture ethernet traffic from LAN port.

13.6 Screen Capture

If there is a problem with the phone, the screenshot can help the technician identify the problem. You can get the screenshots with command by logging into the phone with **SSH** connection (default login username/password: admin/123456). After connecting, input command "screen get".



Regarding how to enable SSH connection on the phone, please refer to section 13.1.3.2.

For example, assuming you login to the phone by SSH connection with tool Mobaxterm, you can make a screenshot with command and download it in local PC.



13.7 Change PIN

You can set a keylock for the keyboard, separate from the default username and password, and set a PIN code for the phone's keys.

For the WBM:

Path: Settings -> Phone Lock

	WBM Based Management M5		
	Phone Lock		
Auto Provision	Phone Lock		
TR069	Phone lock:	0	
🚰 Phone Keys 🛛 👋	Automatic Lock:	0	
🔅 Settings 🔷	Automatic Lock Time:	300 ⑦	
Time&Date	Unlock Password:	••••••	
Call Display	Emergency Call:	112,911,110 ⑦	
Audio			
Display		Submit	
Ringing			
Tone			
Dialing Rule			
Phone Lock			
Softkey Layout			

For the LCD:

Path: Menu -> Basic Setting -> Phone Lock -> Change PIN


Change PIN					
Old Pin					
New Pin					
Confirm Pin					
Back	Bkspc	123	Save		

13.8 Import and Export config file

On the WBM management interface, you can back up and restore the configuration file of ALE phone. You can back up all the modified configurations, device type configurations, and all configurations.

In case of security risks, the exported configuration will not contain the password configuration.

For the WBM:

Path: Maintenance -> Config File -> Config File Import/Export

Alcatel·Lucent 🅐	WBM Based Management M5	
Ξ	Config File Import/Export	
🛜 Account 🛛 🗸	Config File Import/Export	
Wetwork	Import Config File:	Select Import
🕹 Provision 🛛 🗸	Export Config File: All Settings	Export
🚰 Phone Keys 🛛 🗸	All Settings	
🔅 Settings 🗸 🗸	Device Settings	
≆ Features ∨		
🔰 Contact Manager 🛛 👋		
🗙 Maintenance 🛛 🔿		
Firmware Upgrade		
Config File		

In addition, dynamic configuration backup can be performed using the SIP protocol. After the administrator sends the SIP Notify message, the phone uses http (s) to post data to a specified server. For this format, need sip notify include headers:event:report.

Parameter	DeviceConfigUploadEnable	config.xml
Description	It configures file uploading function is enabled or disabled.	



Permitted	false - disable		
Values	true - enable		
Default	false		
Parameter	DeviceConfigUploadUrl	config.xml	
	It configures back up IP phone address information.		
	It is valid only when DeviceConfigUploadEnable is true.		
.	Note:		
Description	Value Specifies only a directory and cannot be a fixed file name. Invalid if it is not a directory.		
	Value If there is no http:// header or http:// header, the uploa	ad mode is http. If	
	the https:// header is used, the upload mode is https.		
Permitted Values	String within 512 characters.		
Default	Blank		
Parameter	DeviceConfigExportMode	config.xml	
Description	It configures only export part of the backup configuration is modified or all the configurations will export.		
Permitted	0: Export modify configurations.		
Values	1: Export all configurations.		
values	1: Export all configurations.		
Default	1: Export all configurations. 0		
Default Parameter	1: Export all configurations. 0 DevicePostUriAbsolutePathEnable	config.xml	
Default Parameter Description	 Export all configurations. DevicePostUriAbsolutePathEnable It configures whether the POST request carries an absolute p 	config.xml ath.	
Default Parameter Description Permitted	1: Export all configurations. 0 DevicePostUriAbsolutePathEnable It configures whether the POST request carries an absolute p false - disable	config.xml ath.	
Values Default Parameter Description Permitted Values	1: Export all configurations. 0 DevicePostUriAbsolutePathEnable It configures whether the POST request carries an absolute p false - disable true - enable	config.xml ath.	