

Lantech OS2 PRO Management

Advanced Layer 2 management functions

Auto Feed, NAT, and Open API















OVERVIEW

Lantech OS2 PRO management is available for both WEB and standard variants and provides L2 management, NAT, and advanced security functions for onboard network deployment. WebGUI, and complete CLI*** settings make configuration easy. The Restful API can greatly improve central management efficiency for various applications including fleet management and AIOT. The advanced cybersecurity mechanism can prevent hackers from hacking or attacking.

InterVLAN Routing

Supports Layer 3 routing between VLANs, enabling direct communication across isolated network segments without the need for an external router. This functionality is essential for managing traffic efficiently in segmented networks, improving performance, and simplifying network architecture.

DHCP over VLAN

Provides DHCP server and relay capabilities per VLAN group, allowing devices in different VLANs to receive IP addresses dynamically from a central server. This feature ensures efficient IP address management in logically separated networks while maintaining scalability and centralized control.

ITXPT label for delay shut down, inventory service, standby green mode

Lantech OS2 PRO switch supports Module inventory, Time service and MQTT broker. When the engine of the vehicle turns off, the switch is able to extend the work from 30sec to 60mins. The switch must be able to provide SRV and TXT records to back office and exports the data in xml file format. The consumption power under sleep mode meets the standard of ITxPT. (-IGN model)

Auto feed configuration for swapped new switches for Seamless Network Maintenance

Lantech OS2 PRO switch supports auto-feed configuration features that revolutionize network switch setup and management. It ensures that new and replacement switches automatically receive the correct configuration without manual intervention.

MQTT - Publisher & Broker

MQTT is a publish-subscribe-based messaging protocol and works on top of the 80CP/IP protocol. An MQTT system comprises one broker and several clients, where clients can either be publishers or subscribers. The publishers send data to the broker in the form of MQTT packets, which consist of a "topic" and "payload", then the broker distributes the "payload" to the subscribers based on which "topics" they have subscribed.

NAT/PAT & Firewall supported

The switch supports Static IP address, PPPoE (V4&V6), DHCP client, NAT, PAT, OSPF and RIP routing functions, including static route, dynamic route as well as basic firewall functions with Port forwarding, DMZ, Filtering, Remote admin and DDoS protection.



mDNS (Multicast DNS) feature

mDNS (Multicast DNS) enables hosts in the LAN to discover and communicate with each other in compliance with the DNS protocol without a traditional DNS server.

Support OPEN API document format for Restful API for better switch performance

Lantech OS2 PRO switch supports OPEN API document format for Restful API hat uses JSON format to access and use data for GET, PUT, POST and DELETE types to avoid traditional SNMP management occupying CPU utilization.

Ignition PoE timer function on IGN model

Lantech OS2 PRO switch (IGN model) has a programmed timer by port to shut down each PoE port, with variants from 30 seconds to 60 minutes, eliminating the additional relay wire to shut down PoE ports and allowing for remote configuration to change the PoE timer time anytime, anywhere.

DDoS Security to Protect Switches and Servers; Optional IEC 62443-4-2*** Model to Help Maintain the Safety and Reliability of Critical Infrastructure and Ensure Operational Continuity

The Lantech OS2Pro platform is designed with robust security methods to prevent network threats, such as DDoS attack prevention, 802.1X security authentication, Dynamic ARP Inspection, IP Source Guard, and Port Security. The optional IEC 62443-4-2*** cybersecurity model includes vulnerability checking, encrypted file protection, public key management, strong password enforcement, account management, and penetration and stress testing — totaling more than 90 security measures.

The optional IEC 62443-4-2*** defines component-level security requirements, with SL2 cybersecurity compliance to defend against network threats.

Lantech software meets a set of security requirements, including FR.1 Identification and Authentication Control, FR.2 Use Control, FR.3 System Integrity, FR.4 Data Confidentiality, FR.5 Restricted Data Flow, FR.6 Timely Response to Events, and FR.7 Resource Availability. These measures effectively mitigate network threats at both the hardware and software levels.

802.1X security by MAC address*

MAC-based port authentication is an alternative approach to 802.1x for authenticating hosts connected to a port. By authenticating based on the host's source MAC address, the host is not required to run a user for the 802.1x protocol. The RADIUS server that performs the authentication will inform the switch if this MAC can be registered in the MAC address table of the switch.

RADIUS and TACACS+

Lantech OS2 PRO switch supports RADIUS and TACACS+ to handle authentication, authorization, and accounting (AAA) services for network access control.

Enhanced G.8032 ring, 8 MSTI MSTP

Lantech OS2 PRO switch features enhanced G.8032 ring which can be self-healed in less than 20ms for single ring topology protection covering multicast packets. It also supports various ring topologies that covers enhanced ring and basic ring by easy setup than others. It supports MSTP that allows each spanning tree for each VLAN for redundant links with 8 MSTI.

DHCP option 82 & Port based, Mac based DHCP, Option66**, DHCP Snooping

DHCP server can assign dedicated IP address by MAC or by port (Port based for single switch), it also can assign IP address by port for multiple switches with single DHCP option82 server. DHCP Snooping is supported. DHCP Option66** server can offer IP address of TFTP server to DHCP client for VOIP application.



IGMPv3, MLD snooping, query, GMRP, static multicast forwarding and multicast Ring protection

The unique multicast protection under enhanced G.8032 ring can offer immediate self-recovery instead of waiting for IGMP table timeout. It also supports IGMP v3 with Query mode for multimedia, GMRP, router port, MLD snooping and static multicast forwarding binding by ports for video surveillance applications.

Support RTC (Real Time Clock) with longevity Golden Capacitor; CPU watchdog

Our switch supports RTC which is powered by a golden capacitor, ensuring accurate real-time event logs. The built-in watchdog design can automatically reboot the switch when CPU is found dead.

User-friendly GUI, Editable configuration text file, Auto topology drawing, Enhanced Environmental Monitoring***

The user-friendly UI, innovative auto topology drawing and topology demo makes Lantech OS2 PRO switch much easier to get hands-on. The complete CLI** enables professional engineer to configure setting by command line. The configuration file of Lantech OS2 PRO switch can be exported in text file so that it can be edited and configured back to switch with ease for mass deployment. It supports optional enhanced environmental monitoring for actual input voltage, current, ambient temperature and total power load.

Optional IEEE 802.1AS for precise time protocol

The generalized Precision Time Protocol (gPTP**) is a protocol used to synchronize clocks throughout a network. The gPTP** supports two-step processing bridge mode to support 1 microsecond in 6 hops for PTP accuracy and precision. (-PTP model)

Optional LantechView** for Lantech devices maintenance

LantechView can automatically discover Lantech devices on the network, providing seamless configuration management. It supports both single-device operation and batch import/export of configurations across multiple IP subnets and VLAN areas, enhancing network efficiency and management.

Additionally, LantechView also features firmware management capabilities, allowing batch verification and simultaneous upgrades to the latest firmware versions, ensuring consistency across all devices.

To learn more about Lantech Lantech View software solutions, please refer to Lantech Lantech View Software Datasheet

OS2 Pro-WEB vs. OS2 Pro vs. OS2 Pro-SEC comparison

	OS2 Pro- WEB	OS2 Pro	OS2 Pro -SEC	
Monogomont	Web UI	Web UI/Telnet	Web UI/Telnet	
Management	vveb OI	complete CLI command line	complete CLI command line	
IEC 62443 Cyber Security	NA	NA	Y, Ready; optional license	
Hardware Environmental	NA	Υ	Υ	
Monitoring	IVA	T		
Bypass	NA	optional	optional	
Boot up time	Within 60sec.	Within 60sec.	Around 90sec.	

(Note: OS2 Pro-WEB is only available on 24VI models)



SPECIFICATIONS

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PoE model temperature		upon routine time table	
PoE Off/Timer on ignition standby Disable Duration (-IGN model) User-friendly UI ■ Auto topology drawing ■ Topology demo ■ Complete CLI for professional setting** Port Trunk with LACP LACP Port Trunk: 8 Trunk groups LLDP Supports LLDP to allow switch to advise its identification and capability on the LAN CDP Cisco Discovery Protocol for topology mapping VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP IPv6/4 Present RSTP/MSTP Supports IEEE802.1d Spanning Tree and IEEE802.1s Multiple Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI	Per Port PoE Status	On/ Off, voltage, current, watts,	
ignition standby mode** (PoE model) User-friendly UI ■ Auto topology drawing ■ Topology demo ■ Complete CLI for professional setting** Port Trunk with LACP LACP Port Trunk: 8 Trunk groups LLDP Supports LLDP to allow switch to advise its identification and capability on the LAN CDP Cisco Discovery Protocol for topology mapping VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP IPv6/4 Present RSTP/MSTP Supports LEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI	(PoE model)	temperature	
Mode** (PoE model)	PoE Off/Timer on	System Shutdown Duration, PoE	Static MAC-Port
User-friendly UI Auto topology drawing Topology demo Complete CLI for professional setting** Port Trunk with LACP LACP Port Trunk: 8 Trunk groups LLDP Supports LLDP to allow switch to advise its identification and capability on the LAN CDP Cisco Discovery Protocol for topology mapping VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP IPv6/4 Present RSTP/MSTP Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI	ignition standby	Disable Duration	bridge
Topology demo Complete CLI for professional setting** Port Trunk with LACP LACP Port Trunk: 8 Trunk groups LLDP Supports LLDP to allow switch to advise its identification and capability on the LAN CDP Cisco Discovery Protocol for topology mapping VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP IPv6/4 Present RSTP/MSTP Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI	mode** (PoE model)	(-IGN model)	
Port Trunk with LACP LACP Port Trunk: 8 Trunk groups Supports LLDP to allow switch to advise its identification and capability on the LAN CDP Cisco Discovery Protocol for topology mapping VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP IPv6/4 Present RSTP/MSTP Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI	User-friendly UI	Auto topology drawing	
Port Trunk with LACP LACP Port Trunk: 8 Trunk groups LLDP Supports LLDP to allow switch to advise its identification and capability on the LAN CDP Cisco Discovery Protocol for topology mapping VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP IPv6/4 Present RSTP/MSTP Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI		■ Topology demo	
Port Trunk with LACP LACP Port Trunk: 8 Trunk groups Supports LLDP to allow switch to advise its identification and capability on the LAN CDP Cisco Discovery Protocol for topology mapping VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP IPv6/4 Present RSTP/MSTP Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI		•	L3 routing function
LLDP Supports LLDP to allow switch to advise its identification and capability on the LAN CDP Cisco Discovery Protocol for topology mapping VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP IPv6/4 Present RSTP/MSTP Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI		·	
advise its identification and capability on the LAN CDP Cisco Discovery Protocol for topology mapping VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP IPv6/4 Present RSTP/MSTP Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI	Port Trunk with LACP		Firewall
capability on the LAN CDP Cisco Discovery Protocol for topology mapping VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP IPv6/4 Present RSTP/MSTP Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI	LLDP	• •	
CDP Cisco Discovery Protocol for topology mapping Bandwidth Control VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP IPv6/4 Present RSTP/MSTP Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI			
topology mapping VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP IPv6/4 Present Supports IEEE802.1d Spanning Tree and IEEE802.1s Multiple Spanning Tree 8 MSTI		· · · · ·	
VLAN IEEE 802.1Q Tag VLAN (256 entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP IPv6/4 Present RSTP/MSTP Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI	CDP	·	
entries)/ VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.) GVRP IPv6/4 Present RSTP/MSTP Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI			Bandwidth Control
VLAN ID can be assigned from 1 to 4096.) GVRP IPv6/4 Present Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI	VLAN	,	
to 4096.) GVRP IPv6/4 Present Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI			
GVRP IPv6/4 Present Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI		_	
IPv6/4 Present RSTP/MSTP Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI		·	
RSTP/MSTP Supports IEEE802.1d Spanning Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI			
Tree and IEEE802.1w Rapid Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI			
Spanning Tree, IEEE802.1s Multiple Spanning Tree 8 MSTI	RSTP/MSTP	Supports IEEE802.1d Spanning	
Multiple Spanning Tree 8 MSTI			
Quality of Service The quality of service is		-	
	Quality of Service	The quality of service is	

(QoS)	determined by port, Tag and IPv4
	Type of service, IPv4
	Differentiated Services Code
	Points - DSCP
Class of Service	Support IEEE802.1p class of
	service, per port provides 8
	priority queues
Remote Admin	Supports 10 IP addresses that
	have permission to access the
	switch management and to
	prevent unauthorized intruder.
Login Security	Supports IEEE802.1X
	Authentication/RADIUS/TACACS+
Port Mirror	Support 3 mirroring types: "RX,
	TX and Both packet"
Network Security	Support 10 IP addresses that
	have permission to access the
	switch management and to
	prevent unauthorized intruders.
	802.1X access control/MAC-Port
	binding INGRESS ACL L2/L3
	SSL/ SSH v2 for Management HTTPS for secure access to the
	web interface
IGMP	
IGIVIP	Support IGMP snooping v1,v2,v3; 1024 multicast groups; IGMP
	router port; IGMP query; GMRP,
	MLD snooping
Static MAC-Port	Static multicast forwarding
bridge	forward reversed IGMP flow with
3	multicast packets binding with
	ports for IP surveillance
	application
L3 routing function	Static route, NAT, VRRPv2, OSPF
	and RIP
Firewall	Port forwarding
	DMZ
	Filtering
	Remote admin
	DDoS protection
Bandwidth Control	Support ingress packet filter.
	Ingress filter packet type
	combination rules are
	Broadcast/Multicast/Flooded
	Unicast packet,
	Broadcast/Multicast packet,
	Broadcast packet only and all
	types of packet.
	The packet filter rate can be set
	an accurate value through the
	pull-down menu for the ingress
	packet filter.



Flow Control	Supports Flow Control for Full-				
	duplex and Back Pressure for				
	Half-duplex				
System Log	Supports System log record and				
	remote system log server				
Protection	■ Miss-wiring avoidance				
	■ Node failure protection				
	■ Loop protection				
SNMP Trap	Up to 10 trap stations; trap types				
	including:				
	Device cold start				
	Authorization failure				
	 Port link up/link down 				
	 Topology change (ITU 				
	ring)				

	Power failure				
	 Environmental 				
	abnormal				
DHCP	Provide DHCP Client/ DHCP				
	Server/DHCP Option 82 (Server				
	and relay)/Port-based DHCP;				
	DHCP Snooping; DHCP option				
	7/61/66**				
gPTP**	IEEE 802.1AS gPTP; Bridge				
	mode and end mode				
NTP	Supports SNTP to synchronize				
	system clock in Internet				

*Future release **Optional ***not for WEB model



SERIES COMPARISON

**Optional

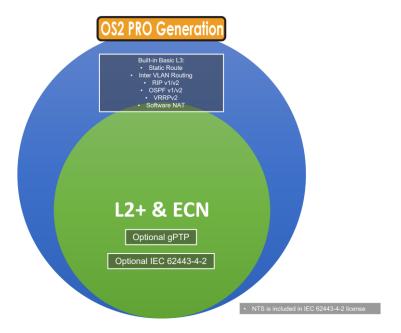
		005			004/000		000000	000	004
*Future release **Optional	10	OS5	L2+	10	OS4 / OS3		OS2PRO	OS2 L2+	OS1
Static Route	L3	L3 Lite	L2+	L3	L3 Lite		•	L2+	
Inter VLAN Routing Unicast Routing: RIP v1/v2	•	•		•	•		•		
Unicast Routing: RIP v1/v2 Unicast Routing: OSPF v1/v2	•	•		•	•		•		
IPv6 Routing: RIPng / OSPFv3	•**								
Static Multicast Routing Multicast Routing: DVMRP (IPv4)	•	•		•	•				
Multicast Routing: DVMRP (IPV4) Multicast Routing: PIM (DM) (IPV4)	•	•		•	•				
Multicast Routing: PIM (SSM) (IPv4)	•	•		•	•				
Multicast Routing: PIM (SM) (IPv4) Multicast Routing: PIM (BSR) (IPv4)	•	•		•	•				
IPv6 Multicast Routing: PIMv6	•**				_				
VRRPv2 VRRP aware PIM	•	•		•	•		•		
VRRPv3 (IPv6)	•*								
Hardware NAT: Static NAT/ PAT MACsec	•** •**	**	•**	OS4 only**	OS4 only**		Software NAT		
IEC 62443-4-2	•**	•**	•**	OS3 only**	OS3 only**	OS3 only**	•**		
Prevention of DDoS/DoS attack	•	•	•	•	•	•	•		
IP based port Rescue Mode	•	•		•	•	•	•		
ACL	Ingress/Egress	Ingress/Egress	Ingress/Egress	Ingress/Egress	Ingress/Egress	Ingress/Egress	Ingress Only	Ingress Only	Ingress/Egress
Port Security IPSource Guard	•	•	•	•	•	•			
Dynamic ARP Inspection	•	•	•	•	•	•			
Remote (limitation of accessing interface)	•	•	•	•	•	•	•	•	•
admin Access Restriction Rules (25) Login Security (TACACS+)	•	•	•	•	•	•	•	•	IP Security •**
									port
Login Security (RADIUS)	•	•	•	•	•	•	•	•	authentication only
SSH	•	•	•	•	•	•	•	•	of fly
SSL Certificate Management Perpetual / Fast PoE	•	•	•	•	•	•	•	•	•
PTP	•**	•**		I(P)GS-R6416XF**	I(P)GS-R6416XF**	I(P)GS-R6416XF**	qPTP**		
NTP/NTS (Network Time Security)	•**	•**	•**	•**	•**	•**	•**		
PXE application TTDP (IEC 61375-2-5)	•	•**	•	•**	• **	•			
R-NAT (built-in IEC 61375-2-5)	•**	•**		OS4 only**	OS4 only**				
DHCP for TTDP TRDP (IEC 61375-2-3)	•** •**	•**		•** •**	•** •**				
QoS under 61375-3-4	•	•	•	•	•	•		•	•
*Future release		OS5			OS4 / OS3		OS2PRO	OS2	OS1
	1.3		12+	1.3	I 3 Lite		,	12+	
**Optional OOB (Out of Band) Service	L3 By model	L3 Lite By model	L2+ By model	L3	L3 Lite			L2+	
**Optional OOB (Out of Band) Service OPEN API document format for Restful API	By model •	L3 Lite By model	By model •	•	•	•	•		
**Optional OOB (Out of Band) Service OPEN API document format for Restful API SNMP V1 / V2c / V3	By model	L3 Lite By model	By model			•		L2+ •	•
**Optional OOB (Out of Band) Service OPEN API document format for Restful API SNMP V1 / V2c / V3 SNMP V3 USM / VACM / TSM SNMP Trap	By model • • • • •	L3 Lite By model •	By model •	•	•	•	•	•	•
**Optional OOB (Out of Band) Service OPEN API document format for Restful API SMMP V1 / V2c / V3 SMMP V3 USM / VACM / TSM SMMP Trap CDP	By model • • • • • • •	L3 Lite By model • • • • • •	By model • • • • • •	•	•	•	•	•	•
**Optional OOB (Out of Band) Service OPEN API document format for Restful API SNMP V1 / V2c / V3 SNMP V3 USM / VACM / TSM SNMP Trap	By model • • • • •	L3 Lite By model • • •	By model • • •	•	•	•	• • • • WEB/TFTP/FTP	•	• • WEB/TFTP/FTP
**Optional OOB (Out of Band) Service OPEN API document format for Restful API SMMP V1 /V2c /V3 SMMP V3 USM / VACM / TSM SNMP Trap CCP Firmware upgrading Configuration file import/export Auto-Provisioning	By model • • • • WEB/SFTP/FTP WEB/SFTP/FTP	L3 Lite By model	By model • • • • WEB/SFTP/FTP WEB/SFTP/FTP	WEB/TFTP/FTP	WEB/TFTP/FTP	WEB/TFTP/FTP	• • • WEB/TFTP/FTP WEB/TFTP/FTP	• • • WEB/TFTP/FTP	• • WEB/TFTP/FTP
**Optional OOB (Out of Band) Service OPEN API document format for Restful API SNMP V1 / V2c / V3 SNMP V3 USM / VACM / TSM SNMP Trap CDP Firmware upgrading Configuration file import/export	By model • • • • • • WEB/SFTP/FTP	By model • • • • • • • WEB/SFTP/FTP	By model • • • • • WEB/SFTP/FTP WEB/SFTP/FTP	• • • • WEB/TFTP/FTP WEB/TFTP/FTP	• • • • • • WEB/TFTP/FTP	• • • • WEB/TFTP/FTP	• • • • WEB/TFTP/FTP	• • • WEB/TFTP/FTP	• • WEB/TFTP/FTP
**Optional OOB (Out of Band) Service OPEN API document format for Restful API SMMP V1 /V2c /V3 SMMP V3 USM / VACM / TSM SMMP Trap CDP Firmware upgrading Configuration file import/export Auto-Provisioning Snapshot Auto-Feed Dual Image	By model	L3 Lite By model	By model	WEB/TFTP/FTP WEB/TFTP/FTP • • •	WEB/TFTP/FTP WEB/TFTP/FTP * *	WEB/TFTP/FTP WEB/TFTP/FTP •	WEB/TFTP/FTP WEB/TFTP/FTP	• • • • WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP
**Optional OOB (Out of Band) Service OPEN API document format for Restful API SMMP V1 /V2c / V3 SNMP V3 USM / VACM / TSM SNMP Trap CDP Firmware upgrading Configuration file import/export Auto-Provisioning Snapshot Auto-Feed Dual Image Environment Monitoring	By model	L3 Lite By model • • • • WEB/SFTP/FTP WEB/SFTP/FTP • • •	By model	WEB/TFTP/FTP WEB/TFTP/FTP * • • • • • • • • • •	• • • • WEB/TFTP/FTP WEB/TFTP/FTP • •	WEB/TFTP/FTP WEB/TFTP/FTP • • •	WEB/TFTP/FTP WEB/TFTP/FTP	• WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP •
**Optional OOB (Out of Band) Service OPEN API document format for Restful API SMMP V1 / V2c / V3 SNMP V3 USM / VACM / TSM SNMP Trap CDP Firmware upgrading Configuration file import/export Auto-Provisioning Snapshot Auto-Feed Dual Image Environment Monitoring Digital Input/ Output Triggered by event of environment	By model	L3 Lite By model	By model	WEB/TFTP/FTP WEB/TFTP/FTP • • •	WEB/TFTP/FTP WEB/TFTP/FTP * *	WEB/TFTP/FTP WEB/TFTP/FTP •	WEB/TFTP/FTP WEB/TFTP/FTP	• • • • WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP
Optional OOB (Out of Band) Service OPEN API document format for Restful API SMMP V1 /V2c / V3 SNMP V3 USM / VACM / TSM SNMP Trap CDP Firmware upgrading Configuration file import/export Auto-Provisioning Snapshot Auto-Feed Dual Image Environment Monitoring Digital Input/ Output Triggered by event of environment Triggered by event of SFP DDM	By model	L3 Lite By model • • • • WEB/SFTP/FTP WEB/SFTP/FTP • • •	By model	WEB/TFTP/FTP WEB/TFTP/FTP * 0 0 0 0 0 0 0	WEB/TFTP/FTP WEB/TFTP/FTP * *	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP • • • • • • • •	WEB/TFTP/FTP WEB/TFTP/FTP * ***	WEB/TFTP/FTP WEB/TFTP/FTP *** ***
Optional OOB (Out of Band) Service OPEN API document format for Restful API SNMP V1 / V2c / V3 SNMP V3 USM / VACM / TSM SNMP Trap CDP Firmware upgrading Configuration file import/export Auto-Provisioning Snapshot Auto-Feed Dual Image Environment Monitoring Digital Input/ Output Triggered by event of environment Triggered by event of SFP DDM Ping ARP	By model	L3 Lite By model • • • • WEB/SFTP/FTP WEB/SFTP/FTP • • •	By model	WEB/TFTP/FTP WEB/TFTP/FTP * * * * * * * * * * * * *	WEB/TFTP/FTP WEB/TFTP/FTP * *	WEB/TFTP/FTP WEB/TFTP/FTP • • • • • •	WEB/TFTP/FTP WEB/TFTP/FTP • • •	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP * ***
Optional OOB (Out of Band) Service OPEN API document format for Restful API SNMP V1 / V2c / V3 SNMP V3 USM / VACM / TSM SNMP Tap CDP Firmware upgrading Configuration file import/export Auto-Provisioning Snapshot Auto-Feed Dual Image Environment Monitoring Digital Input/ Output Triggered by event of environment Triggered by event of SFP DDM Ping ARP Topology View	By model	L3 Lite By model • • • • WEB/SFTP/FTP WEB/SFTP/FTP • • •	By model	WEB/TFTP/FTP WEB/TFTP/FTP • • • • • • • • • • • •	WEB/TFTP/FTP WEB/TFTP/FTP • • • • • • • • •	WEB/TFTP/FTP WEB/TFTP/FTP • • • • • • • • •	WEB/TFTP/FTP WEB/TFTP/FTP • • • • • • • • • • •	WEB/TFTP/FTP WEB/TFTP/FTP * *** ***	WEB/TFTP/FTP WEB/TFTP/FTP • • • • • • • • • • • • • • • • • • •
Optional OOB (Out of Band) Service OPEN API document format for Restful API SMMP V1 /V2c /V3 SMMP V3 USM / VACM / TSM SNMP Trap CDP Firmware upgrading Configuration file import/export Auto-Provisioning Snapshot Auto-Feed Dual Image Environment Monitoring Digital Input/ Output Triggered by event of environment Triggered by event of SFP DDM Ping ARP Topology View RSPAN	By model	L3 Lite By model • • • • WEB/SFTP/FTP WEB/SFTP/FTP • • •	By model	WEB/TFTP/FTP WEB/TFTP/FTP * * * * * * * * * * * * *	WEB/TFTP/FTP WEB/TFTP/FTP * * * * * * * * * * * * *	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP • • • • • • • • • • •	WEB/TFTP/FTP WEB/TFTP/FTP * • ** • ** • **	WEB/TFTP/FTP WEB/TFTP/FTP *** *** ***
Optional OOB (Out of Band) Service OPEN API document format for Restful API SNMP V1 / V2c / V3 SNMP V3 USM / VACM / TSM SNMP Trap CDP Firmware upgrading Configuration file import/export Auto-Provisioning Snapshot Auto-Feed Dual Image Environment Monitoring Digital Input/ Output Triggered by event of environment Triggered by event of SFP DDM Ping ARP Topology View RSPAN Port Mirroring VLAN based QoS	By model	L3 Lite By model	By model	WEB/TFTP/FTP WEB/TFTP/FTP • • • • • • • • • • • • • • • • • •	WEB/TFTP/FTP WEB/TFTP/FTP * 0 0 0 0 0 0 0 0 0 0 0 0	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP • • • • • • • • • • • • • • • • • •	WEB/TFTP/FTP WEB/TFTP/FTP * *** *** ** ** ** ** ** *	WEB/TFTP/FTP WEB/TFTP/FTP *** ***
Optional OOB (Out of Band) Service OPEN API document format for Restful API SMMP V1 /V2c /V3 SMMP V3 USM / VACM / TSM SNMP Trap CDP Firmware upgrading Configuration file import/export Auto-Provisioning Snapshot Auto-Feed Dual Image Environment Monitoring Digital Input/ Output Triggered by event of environment Triggered by event of SFP DDM Ping ARP Topology View RSPAN Port Mirroring VLAN based QoS MSTP	By model	L3 Lite By model	By model	WEB/TFTP/FTP WEB/TFTP/FTP • • • • • • • • • • • • • • • • • •	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP * • • •	WEB/TFTP/FTP WEB/TFTP/FTP *** ** ** ** ** ** ** ** *
Optional OOB (Out of Band) Service OPEN API document format for Restful API SMMP V1 /V2c /V3 SMMP V3 USM / VACM / TSM SNMP Trap CDP Firmware upgrading Configuration file import/export Auto-Provisioning Snapshot Auto-Feed Dual Image Environment Monitoring Digital Input/ Output Triggered by event of environment Triggered by event of SFP DDM Ping ARP Topology View RSPAN Port Mirroring VLAN based QoS MSTP MRP LOOP Protection	By model	L3 Lite By model	By model	WEB/TFTP/FTP WEB/TFTP/FTP • • • • • • • • • • • • • • • • • •	WEB/TFTP/FTP WEB/TFTP/FTP * 0 0 0 0 0 0 0 0 0 0 0 0	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP • • • • • • • • • • • • • • • • • •	WEB/TFTP/FTP WEB/TFTP/FTP * *** *** ** ** ** ** ** *	WEB/TFTP/FTP WEB/TFTP/FTP *** ***
Optional OOB (Out of Band) Service OPEN API document format for Restful API SMMP V1 V2c / V3 SMMP V3 USM / VACM / TSM SNMP Trap CDP Firmware upgrading Configuration file import/export Auto-Provisioning Snapshot Auto-Feed Dual Image Environment Monitoring Digital Input/ Output Triggered by event of environment Triggered by event of SFP DDM Ping ARP Topology View RSPAN Port Mirroring VLAN based QoS MSTP MRP Loop Protection BPDU Guard	By model	L3 Lite By model	By model O O O O O O O O O O O O O O O O O O	WEB/TFTP/FTP WEB/TFTP/FTP * * * * * * * * * * * * *	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP * ** ** ** ** ** ** ** **	WEB/TFTP/FTP WEB/TFTP/FTP *** ** ** ** ** ** ** ** **
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Optional OOB (Out of Band) Service OPEN API document format for Restful API SNMP V1 / V2c / V3 SNMP V3 USM / VACM / TSM SNMP Tap CDP Firmware upgrading Configuration file import/export Auto-Provisioning Snapshot Auto-Feed Dual Image Environment Monitoring Digital Input/ Output Triggered by event of environment Triggered by event of SFP DDM Ping ARP Topology View RSPAN Port Mirroring VLAN based QoS MSTP MRP Loop Protection BPDU Guard Dual Homing Proprietary redundant protocol	By model Output WEB/SFTP/FTP WEB/SFTP/FTP Output	L3 Lite By model	By model OUTU-Ring Standard mode	WEB/TFTP/FTP WEB/TFTP/FTP * * * * * * * * * * * * *	WEB/TFTP/FTP WEB/TFTP/FTP * * * * * * * * * * * * *	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP * ** ** ** ** ** ** ** **	WEB/TFTP/FTP WEB/TFTP/FTP *** *** ** ITU-Ring Enhance mode
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Optional OOB (Out of Band) Service OPEN API document format for Restful API SMMP V1 /V2c /V3 SMMP V3 USM / VACM / TSM SNMP Trap CDP Firmware upgrading Configuration file import/export Auto-Provisioning Snapshot Auto-Feed Dual Image Environment Monitoring Digital Input/ Output Triggered by event of environment Triggered by event of SFP DDM Pinq ARP Topology View RSPAN Port Mirroring VLAN based QoS MSTP MRP Loop Protection BPDU Guard Dual Homing Proprietary redundant protocol Protocol Based VLAN Subnet Based VLAN Subnet Based VLAN GinQ VLAN GVRP	By model Output WEB/SFTP/FTP WEB/SFTP/FTP Output	L3 Lite By model Output WEB/SFTP/FTP WEB/SFTP/FTP Output Output	By model OUTUPE TO THE PROOF T	WEB/TFTP/FTP WEB/TFTP/FTP * * * * * * * * * * * * *	WEB/TFTP/FTP WEB/TFTP/FTP * * * * * * * * * * * * *	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP * ** ** ** ** ** ** ** **	WEB/TFTP/FTP WEB/TFTP/FTP *** *** ** ** ** ** ** ** *
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Optional OOB (Out of Band) Service OPEN API document format for Restful API SNMP V1 / V2c / V3 SNMP V3 USM / VACM / TSM SNMP V3 USM / VACM / TSM SNMP Trap CDP Firmware upgrading Configuration file import/export Auto-Provisioning Snapshot Auto-Feed Dual Image Environment Monitoring Digital Input/ Output Triggered by event of environment Triggered by event of SFP DDM Ping ARP Topology View RSPAN Port Mirroring VLAN based QoS MSTP MRP Loop Protection BPDU Guard Dual Homing Proprietary redundant protocol Protocol Based VLAN Subnet Based VLAN GNRP GMRP IGMP Fouter port MLD Snooping GMRP DHCP by VLAN	By model OUTUPE NOTE TO THE PROOF TO THE PR	L3 Lite By model	By model O O O O O O O O O O O O O O O O O O	WEB/TFTP/FTP WEB/TFTP/FTP * * * * * * * * * * * * *	WEB/TFTP/FTP WEB/TFTP/FTP * * * * * * * * * * * * *	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP * *** ** ** ** ** ** ** **	WEB/TFTP/FTP WEB/TFTP/FTP
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Optional OOB (Out of Band) Service OPEN API document format for Restful API SNMP V1 /V2c /V3 SNMP V3 USM / VACM / TSM SNMP Trap CDP Firmware upgrading Configuration file import/export Auto-Provisioning Snapshot Auto-Feed Dual Image Environment Monitoring Digital Input/ Output Triggered by event of environment Triggered by event of SFP DDM Ping ARP Topology View RSPAN Port Mirroring VLAN based QoS MSTP MRP LOOP Protection BPDU Guard Dual Homing Proprietary redundant protocol Protocol Based VLAN Subnet Based VLAN Subnet Based VLAN GinQ VLAN GVRP IGMP router port MLD Snooping GMRP DHCP by VLAN MAC based DHCP Option82 DHCP Relay Option 7/61/66 DHCP Snooping	By model Output By model Ou	L3 Lite By model	By model Output By model Ou	WEB/TFTP/FTP WEB/TFTP/FTP * * * * * * * * * * * * *	WEB/TFTP/FTP WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP * ** ** ** ** ** ** ** **	WEB/TFTP/FTP WEB/TFTP/FTP
Optional OOB (Out of Band) Service OPEN API document format for Restful API SNMP V1 /V2c /V3 SNMP V3 USM / VACM / TSM SNMP Trap CDP Firmware upgrading Configuration file import/export Auto-Provisioning Snapshot Auto-Feed Dual Image Environment Monitoring Digital Input/ Output Triggered by event of environment Triggered by event of SFP DDM Ping ARP Topology View RSPAN Port Mirroring VLAN based QoS MSTP MRP Loop Protection BPDU Guard Dual Homing Proprietary redundant protocol Protocol Based VLAN Subnet Based VLAN GVRP IGMP router port MLD Snooping GMRP DHCP by VLAN MAC based DHCP Option82 DHCP Relay Option 761/666	By model Output By model By model	L3 Lite By model	By model Output By model Ou	WEB/TFTP/FTP WEB/TFTP/FTP * * * * * * * * * * * * *	WEB/TFTP/FTP WEB/TFTP/FTP * * * * * * * * * * * * *	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP	WEB/TFTP/FTP WEB/TFTP/FTP * *** ** ** ** ** ** ** **	WEB/TFTP/FTP WEB/TFTP/FTP

OS4 / OS3



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