

AsterNOS for Campus

Release Note

Version V6.1R004

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1. Preface

The purpose of this document is to provide important information about the released software version, including but not limited to the following information: running platform, important components, main features, key updates.

Target Audience

This manual is primarily intended for following engineers.

- Software Developers
- Software Testers
- Customer Site Implementers

2. Modification of Records

Date	Versions	Modify Remarks
2025-9-28	V1.0	AsterNOS version-V6.1R004 released

3. Description

AsterNOS is a SONiC-based network operating system. The release version is **AsterNOS-V6.1R004**, the specific information are as following:

- AsterNOS-Campus-V6.1R004-arm64.bin
 - Md5sum: 01fd964dce0b6b9ffc534661dea1c911
 - Supported models: All device models of CX102S, CX104S, CX204Y, CX206Y, CX202P, CX206P series
- AsterNOS-Campus-V6.1R004-amd64.bin
 - Md5sum: 2b5bac004f5509444271e5f950963e18
 - Supported models: CX308P, CX532P series
- Supporting user manual
 - AsterNOS-Command_Line_Manual
 - AsterNOS-Configuration_Guide



- AsterNOS-Netconf_User_Manual

4. Dependent Components

Components	Versions
Linux kernel	5.10.34
SAI	1.6.3
FRR	8.2.2
Ildpd	1.0.5
libteam	1.29
snmpd	5.7.3
redis	5.0.3
isc-dhcp	4.3.5
radvd	2.17
mstp	0.0.9
parpd	1.0.0
ndppd	1.0.0
docker-engine	18.09.5

5. Update Records

Initial release.

6. List of Features

Level1	Level2	Level3
Interface	Speed	RJ45
		SFP/SFP+/SFP28
		QSFP28
	Shutdown	no shutdown
		shutdown
	Interface Statistics	Packet & Byte Counters
		Error Counters
		IPv4/IPv6 Counters
		Rate Statistics
	Startup delay	
	Optical module information	
	Port Group	
Layer 2	PoE	
	MAC	Static MAC
		Dynamic MAC learning
		MAC Aging
		MAC limit per port
		MAC Blacklist
		MAC Flapping
		MAC learning priority
	VLAN	VLAN mode
		Batch VLAN configuration

	QinQ	Basic QinQ
		Flexible QinQ
	VLAN mapping	
	VoiceVLAN	
	LAG	Static LAG
		LACP
	MSTP	MSTP/RSTP/STP
		BPDU Filter
		BPDU Guard
	LLDP	
	Loopback Detection	
	Port isolation	
	L2TP (Layer 2 Tunneling Protocol)	Layer 2 protocols supported for transparent tunneling: STP, LACP, PVSTP, CDP
Layer 3	IP Interface	IPv4 interface
		IPv6 interface
		Sub-interface
	ARP	
	NDP	
	IPv6	SLAAC
	DHCP	DHCP Server v4/v6
		DHCP Relay v4/v6
	VRF	
IP Unicast Routing	Static Route	IPv4 route
		IPv6 route
		Blackhole route
	Policy-based Routing	Route traffic based on source/destination IP, port, or protocol
		Setting nexthop
IP Multicast	IGMP Snooping	version

Routing		Static IGMP Snooping
		Dynamic IGMP Snooping
		Fast leave
		Snooping entry limit
		IGMP Snooping querier
		IGMP Snooping Proxy
	Multicast VLAN	
	MLD Snooping	MLD Snooping version
		Static IGMP Snooping
		Dynamic IGMP Snooping
		Fast leave
		Snooping entry limit
		MLD Snooping querier
		MLD Snooping Proxy
MPLS	MPLS	MPLS Forwarding
		LDP
		MPLS QoS
	VPN	VPWS
		VPLS
		MPLS L3VPN
Security	Broadcast Suppression	Unknown unicast control
		Broadcast control
		Multicast control
	Storm Control	Unknown unicast control
		Broadcast control
		Multicast control
	CoPP	
	ACL	Standard ACL
		Extended ACL
		VLAN-based ACL

	DHCP Snooping v4/v6	
	ND Snooping	
	RA Guard	
	SAVI	
	DAI (Dynamic ARP Inspection)	
	IPSG v4/v6	
	Port Security	Security MAC MAC Stick
Management Security	AAA	Authentication
		Authorization
		Fail through
		Fail back
		Radius/Tacacs
	Local User	
	ACL for management plane	
QoS	Priority	Trust dscp
		Trust CoS
	Classification	L2-L4 classification
		CoS/DSCP remarking
	Policing&Shaping	Port-based rate limiting
		ACL-based rate limiting
		remark/forward/drop
Management & Monitoring	Scheduling	DWRR
		SP
	Mirror	SPAN
		RSPAN
	SNMP	Version



		MIBs
	NTP	
	sFlow	
	Syslog	Syslog
		Rsyslog
		Console
	CLI	Telnet
		SSHv2
	ZTP	
	License	
	Netconf/YANG	
	Restconf/YANG	
	TFTP/FTP	
	Alarm	