

### AsterNOS Feature List - Campus Version

Level 1	Level 2	Level 3	Level 4	Lastet	Next	Plan
				R12P2	R13	Feature
				May.2025	July.2025	
Management	Login	Console terminal service		✓	✓	✓
		Telnet terminal service	SSH	✓	✓	✓
		SSH	Telnet	✓	✓	✓
		In-band/Out band		✓	✓	✓
	License	License Management		✓	✓	✓
		Expiration limit		✓	✓	✓
		ZTP (Zero Touch Provisioning)		✓	✓	✓
	Cluster Managment	Batch management of clustered devices		✓	✓	✓
		Jump to any device in the cluster		✓	✓	✓
		Configuration synchronisation		✓	✓	✓
		Cluster Scenario Configuration		✓	✓	✓
	Hostname			✓	✓	✓
	System time configuration			✓	✓	✓
	DNS Client			✓	✓	✓
	FTP/TFTP			✓	✓	✓
	Alarm	BGP status		✓	✓	✓
		MC-LAG status		✓	✓	✓
		Docker status		✓	✓	✓
		High CPU utilization		✓	✓	✓
		High Memory utilization		✓	✓	✓
Interface Management	Ethernet Breakout	High hard disk usage		✓	✓	✓
		4x10G		✓	✓	✓
		4x25G		✓	✓	✓
	Interface Management	4x1G		✓	✓	✓
		startup		✓	✓	✓
		shutdown		✓	✓	✓
	PoE	POE power supply		✓	✓	✓
		POE power supply status diagnosis		✓	✓	✓
		Startup-delay		✓	✓	✓
	Interface statistics	Packets count		✓	✓	✓
		Error packets count		✓	✓	✓
		Loss packets count		✓	✓	✓
		Rate statistics		✓	✓	✓
	Optical module information			✓	✓	✓
	Interface bandwidth utilization alarm			✓	✓	✓
L2Switching	MAC	Static MAC address		✓	✓	✓
		Dynamic MAC address learning		✓	✓	✓
		MAC address aging		✓	✓	✓
		blackhole MAC address		✓	✓	✓
		MAC Flapping		✓	✓	✓
		MAC address learning limiting based on ports and VLANs		✓	✓	✓
	VLAN	4K VLANs simultaneously		✓	✓	✓
		Access mode, Trunk mode		✓	✓	✓
		VLAN group		✓	✓	✓
		IGMP/MLD Snooping		✓	✓	✓
		STP		✓	✓	✓
	QinQ	Loopback Detection		✓	✓	✓
		DHCP Snooping		✓	✓	✓
		IPSG/DAI/SAVI		✓	✓	✓
	Voice VLAN			✓	✓	✓
	Port-Channel	Port-Channel Mode	Static aggregation	✓	✓	✓
			LACP	✓	✓	✓
		System Priority		✓	✓	✓
		Interface Priority		✓	✓	✓
	Loopback Detection	System Id		✓	✓	✓
		Fast Rate		✓	✓	✓
		Fallback		✓	✓	✓
		Strict		✓	✓	✓
	MSTP	Loose		✓	✓	✓
		Shutdown Port		✓	✓	✓
		Only alarm		✓	✓	✓
	LLDP	MSTP		✓	✓	✓
		BPDU Guard		✓	✓	✓
		BPDU Filter		✓	✓	✓
	Port isolation	LLDP		✓	✓	✓
		LLDP-MED		✓	✓	✓
IP Routing	Static routing			✓	✓	✓
	Blackhole routing			✓	✓	✓
	VRF	Default		✓	✓	✓
		MGMT	SSH	✓	✓	✓
			SNMP	✓	✓	✓
			Syslog	✓	✓	✓
			NTP	✓	✓	✓
	User-defined VRF			✓	✓	✓
	Policy-Based routing	ACL		✓	✓	✓
		PBR		✓	✓	✓
	BGP / MP-BGP	IBGP / EBGP		✓	✓	✓
		BGP Neighbr		✓	✓	✓
		Peer Group		✓	✓	✓
		BGP Listen		✓	✓	✓
		Redistribute		✓	✓	✓
		Routing aggregation		✓	✓	✓
		BGP Route Reflector		✓	✓	✓
		Graceful restart		✓	✓	✓
	OSPF v2/v3	Routing Policy		✓	✓	✓
		UCMP		✓	✓	✓
		OSPF version	v2	✓	✓	✓
			v3	✓	✓	✓
		Area	Stub	✓	✓	✓
			NSSA	✓	✓	✓
		Network type	Broadcast	✓	✓	✓
			Non-Broadcast	✓	✓	✓
			P2P	✓	✓	✓
		Route redistribution	P2MP	✓	✓	✓
		Authentication		✓	✓	✓
		RFC1583	MD5	✓	✓	✓
	Routing Policy	Graceful restart		✓	✓	✓
		OSPF multi-instance		✓	✓	✓
		Route Map	Match rule	✓	✓	✓
	ECMP/UCMP	IP Prefix List	Match prefix list	✓	✓	✓
			Set	✓	✓	✓
	Router interface	Router interface	Ethernet	✓	✓	✓
			VLANif	✓	✓	✓

Router Interfaces		LAG	✓	✓	✓	
IPServices	DHCP Client		✓	✓	✓	
	Static ARP		✓	✓	✓	
	Dynamic ARP		✓	✓	✓	
	ARP aging		✓	✓	✓	
	ARP/NDP detection		✓	✓	✓	
	ARP Proxy		✓	✓	✓	
	ARP/ND Log		✓	✓	✓	
	ARP-To Host	Filter rule	✓	✓	✓	
	IPv6	SLAAC	✓	✓	✓	
	DHCPv4 Server	DHCP Pool	✓	✓	✓	
IPMulticast	DHCPv4 Server	DHCP Class	✓	✓	✓	
	DHCPv4 Relay	DHCP Failover	✓	✓	✓	
	DHCPv6 Server	Option82/No-option82	✓	✓	✓	
	DHCPv6 Relay	DHCP Pool	✓	✓	✓	
	MAC Trigger		✓	✓	✓	
	IGMP Snooping	Static IGMP snooping	✓	✓	✓	
		v1	✓	✓	✓	
		v2	✓	✓	✓	
		v3	✓	✓	✓	
	Multicast VLAN	IGMP Snooping entry limited	✓	✓	✓	
Tunnel	PIMv4	IGMP Snooping Porxy	✓	✓	✓	
	GRE	Static GRE tunnel	Inner v4 - Outer v4 Inner v6 - Outer v4 Inner v4 - Outer v6 Inner v6 - Outer v6	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	
	VXLAN	Static VXLAN Tunnel		✓	✓	
		BGP EVPN		✓	✓	
		Mapping Type	VLAN mapping to VIN VRF mapping to VNI	✓ ✓	✓ ✓	
		Gateway	Centralized gateway Distributed gateway	✓ ✓	✓ ✓	
		Cross-connect	*	✓	✓	
		IGMP snooping	*	✓	✓	
User Access and Authentication	Login user	Route leak	*	✓	✓	
		Local user		✓	✓	
		TACACS+	Authentication Authorized	✓ ✓	✓ ✓	
		Radius	Authentication Authorized	*	*	
	Access User	802.1x	802.1x authentication MAC authentication authorization Re-authentication Escape	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	
		Portal	802.1x authentication MAC authentication authorization Re-authentication Escape	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	
		Unknown unicast	Drop/flood	✓	✓	
		Broadcast traffic	Drop/flood	✓	✓	
		Storm suppression	Drop/flood	✓	✓	
		Unknown unicast	kpps/kBps	✓	✓	
Security	ACL	Multicast traffic	kpps/kBps	✓	✓	
		Broadcast traffic	kpps/kBps	✓	✓	
		DHCP v4/v6 Snooping		✓	✓	
		ND Snooping		✓	✓	
		IPv6 RA Guard		✓	✓	
		SAVI		✓	✓	
		DAI (Dynamic ARP Inspection)		✓	✓	
		IPSG v4/v6		✓	✓	
		CoPP		✓	✓	
		Ingress		✓	✓	
		Egress		✓	✓	
		smac		✓	✓	
		vlanid		✓	✓	
		protocol		✓	✓	
		sip		✓	✓	
		dip		✓	✓	
		sport		✓	✓	
		dport		✓	✓	
		etherstype		✓	✓	
		icmp type		✓	✓	
		permit		✓	✓	
		deny		✓	✓	
		trap-to-cpu		✓	✓	
		copy-to-cpu		✓	✓	
		Modify VLAN priority		✓	✓	
		redirect action		✓	✓	