

# Cradlepoint NetCloud OS

## Advanced Routing & SD-WAN Software For Cradlepoint's Industry-Leading LTE Routers

Digital transformation demands a Network Edge that is always available, flexible, and agile. Cradlepoint's NetCloud OS (NCOS) offers advanced routing and security features for branch, mobile, and M2M/IoT – and seamlessly connects to NetCloud Manager for zero-touch and Day-1 deployments.

NCOS's advanced VPN tunneling and WPA2 WiFi encryption provides better security for local and remote connections. NCOS also supports optional services such as IDS/IPS and content filtering that deliver full Unified Threat Management (UTM) for today's business-critical networks.

Connection Manager, Smart WAN Selection, and Auto-QoS deliver SD-WAN functionality optimized for multi-WAN deployments – combining wired and LTE to enable automated management and reduce costs.

NCOS is consistently updated so your business-critical enterprise networks are always secure. This creates a flexible, always available infrastructure for branch offices, vehicles, or M2M/IoT devices – or a combination of all three.

### Key Features:

- + Multi-WAN capability for best-in-class business continuity
- + Advanced application-aware firewall
- + Manage from anywhere using NetCloud Manager
- + Advanced routing & VPN features for state-of-the-art security
- + Supports NetCloud Engine Gateway for secure IoT deployments
- + Extensible via SDK



### BENEFITS:

#### Integrated SD-WAN

Create ease-of-deployment, centralized management and reduced costs: managing your organization's WAN has never been easier.

- + Connection Manager for prioritizing & controlling WAN profiles
- + Application-aware policies for intelligent WAN selection & optimization
- + Smart WAN Selection for cost-optimized, always-on connectivity
- + Auto-QoS automatically prioritizes real-time user interactive traffic when network congestion occurs
- + Robust analytics in NetCloud Manager to manage performance, data usage & costs

## Pervasive Connectivity with 4G LTE

Industry-leading 4G LTE and best-in-class multi-WAN experience.

- + Rich multi-WAN capability: active-active, load balancing, active-dynamic
- + Fully diverse Out-of-Band Management (OOBM) for advanced management of remote places & things
- + Failover between wireless & wired WANs for 99.99% uptime

## Secure Your Network

Mitigate security threats on your network with hardened security features of NetCloud OS.

- + Powerful application-aware, zone-based stateful firewall
- + NSA Suite B Cryptography Compliance with IKEv2 Support
- + Create flexible, secure Virtual Cloud Networks when used in tandem with NetCloud Engine

## Crucial Enterprise Routing

Advanced routing and security features increase productivity and business continuity for enterprise networks.

## Centralized, Cloud-Based Management of NCOS through NetCloud Manager (NCM)

NCOS makes it easy to deploy local or remote networks.

- + Zero-touch configuration at installation for rapid deployment
- + Robust WAN & LAN analytics to manage performance, data usage & costs
- + Upgrade firmware remotely: ensure up-to-date security & PCI Compliance

| Functionality  | +NCM Standard* | +NCM PRIME** |
|--|----------------|--------------|
| <b>WAN</b>   |                |              |
| Connection Manager, LTE, WiFi-as-WAN/Client, Smart WAN Selection, QoS, WAN Affinity                    | ✓              | ✓            |
| <b>LAN</b>   |                |              |
| IPv4 & IPv6  | ✓              | ✓            |
| DHCP Server  | ✓              | ✓            |
| DHCP Relay   | ✓              | ✓            |
| 1024 VLANs   | ✓              | ✓            |
| VRRP   |                | ✓            |
| <b>WiFi</b>  |                |              |
| Multiple SSIDs, WEP, WPA/WPA2 Personal, WPA/WPA2 Enterprise, Smart Channel Selection, HotSpot Services | ✓              | ✓            |
| <b>Routing</b>   |                |              |
| Static Routes  | ✓              | ✓            |
| Policy Routes  | ✓              | ✓            |
| BGP, OSPF, RIP, RIPng  |                | ✓            |
| <b>VPN</b>   |                |              |
| IPSec, GRE   | ✓              | ✓            |
| OpenVPN  |                | ✓            |
| NEMO (DMNR)  |                | ✓            |
| L2TP   |                | ✓            |
| DMVPN/NHRP   |                | ✓            |
| <b>Security</b>  |                |              |
| Zone Firewall  | ✓              | ✓            |
| Basic URL filtering (White/Black list)   | ✓              | ✓            |
| CP Secure Web Filter   |                | ✓            |
| CP Secure Threat Management <sup>1</sup>   | ✓              | ✓            |
| Zscaler Internet Security <sup>1</sup>   | ✓              | ✓            |

\* Cloud managed with NetCloud Manager Standard  
 \*\* Cloud managed with additional features with NetCloud Manager PRIME  
 1 CP Secure Threat Management and Zscaler Internet Security require additional licenses.

Learn more: [cradlepoint.com/netcloud-os](http://cradlepoint.com/netcloud-os)