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NetCloud Private Networks Mobility Gateway

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Built around a converged 4G/5G cellular core, NetCloud Private Networks has the flexibility to be deployed on the enterprise premises or in the cloud, thus enabling enterprises to maintain their data locally while still benefitting from the power of cloud-based configuration and policy management. With this inherent flexibility, the NetCloud Private Networks Mobility Gateway enables secure access to enterprise data services from authenticated cellular endpoints.

Reliability You Can Count On

NetCloud Interoperability

NetCloud Private Networks excels in network determinism, client mobility, and overall reliability, markedly outperforming Wi-Fi. The Mobility Gateway ensures predictable network behavior with guaranteed bandwidth, essential for critical applications. Unlike Wi-Fi, where client devices determine handoffs, potentially leading to connectivity gaps, the Mobility Gateway manages client mobility seamlessly across multiple CAPs, ensuring devices maintain stable connections. This systemwide approach to managing connections enhances the reliability of the LAN, reducing downtime and maintaining consistent network performance.

Product Page

NetCloud Service

Quick Start Guide

Notable benefits

— Utilizes dedicated spectrum and advanced interference management, significantly reducing the risk of connection drops and ensuring superior connectivity

— Powerful IT-friendly tools to integrate NCPN with the existing enterprise LAN

— Flexible multi-core deployment options with on-premises virtual appliances or AWS/Azure cloud-based deployments

— End-to-end security, including SIM-based slicing, traffic prioritization, and unified policy management

— On-premises high availability failover built in for resilient always-on networking

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Mobility Gateway Specifications

The Mobility Gateway is a virtual machine image that is installed on either customer provided third-party hardware or cloud AWS or Azure servers, according to the following system requirements.

SYSTEM REQUIREMENTS (ALL CAPACITIES)	KVM	VMware
Software Version:	Ubuntu 18.04	ESXi 6.7 or later
Instance:	N/A	N/A
vCPUs:	8 Refer to hardware compatibility.	8 Refer to hardware compatibility.
Memory:	16 GB	16 GB
Minimum Disk Space:	24 GB	24 GB
vNICs:	4 Refer to DPDK Hardware Compatibility.	4 Refer to DPDK Hardware Compatibility.
Minimum NetCloud Private Network Release:	7.22.120	7.22.120
PERFORMANCE		
Concurrent Cellular Access Points:	Up to 100	Up to 100
Concurrent Cellular Clients:	Up to 3,000	Up to 3,000
Maximum Throughput (Subscription Options)[†]:	— 500 Mbps — 2 Gbps — 5 Gbps	— 500 Mbps — 2 Gbps — 5 Gbps

[†]Maximum throughput is bidirectional UDP traffic and assumes MTU 1,500-byte packets.

SYSTEM REQUIREMENTS (ALL CAPACITIES)		AWS	Azure
Deployment:		AWS	Azure
Software Version:		Ubuntu 18.04	Ubuntu 18.04
Instance:		c5.2xlarge	Standard_D8S_v3
vCPUs:		8	8
Memory:		16 GB	32 GB
Minimum Disk Space:		24 GB	24 GB
vNICs:		4	4
Minimum NCX Service Gateway Release:		7.23.50	7.23.60
PERFORMANCE			
Concurrent Cellular Access Points:		Up to 100	Up to 100
Concurrent Cellular Clients:		Up to 3,000	Up to 3,000
Maximum Throughput (Subscription Options)[†]:		— 500 Mbps — 2 Gbps — 5 Gbps	— 500 Mbps — 2 Gbps — 5 Gbps

[†]Maximum throughput is bidirectional UDP traffic and assumes MTU 1,500-byte packets.

Ordering Guide

NetCloud Private Networks is comprised of a Mobility Gateway, Cellular Access Point(s), and Private SIMs, which all have corresponding NetCloud Service plans. For a complete end-to-end management solution, Cradlepoint routers and adapters should be added to the system. For details on NCPN features, refer to the summary on the NetCloud Service webpage and the details in the NetCloud Service Features document. For more details on how to order NetCloud Private Networks, refer to the following:

Step 1: Select NCPN **Mobility Gateway** capacity for entire solution

STEPS	COMPONENT	DESCRIPTION
1	Mobility Gateway	— 500 Mbps throughput — 2 Gbps throughput — 5 Gbps throughput

NetCloud Service Plans

REGION	NCPN PACKAGE PLAN	DESCRIPTION†	PART NUMBER
US only:	Mobility Gateway	PROMO — 500 Mbps	NCPN-000x-MG500MBPS
		PROMO — 2 Gbps	NCPN-000x-MG2GBPS
		PROMO — 5 Gbps	NCPN-000x-MG5GBPS
	Renewal — Mobility Gateway	500 Mbps — 1 year	NCPN-0001-MG500MBPS-R

x = 4 or 6 years
†PROMO SKUs (promotional SKUs) are available for a limited time and add an extra year to the standard 3- or 5-year NetCloud Service Plan. Starting 07/01/2024, new subscriptions revert to the standard 3- or 5-year NetCloud Service Plan. All renewals have a 1-year duration.

Support & Warranty

All NCPN hardware and software are sold as part of a NetCloud Service package, which includes:

— Cradlepoint Global Support for the full subscription term.

— Hardware limited lifetime warranty for as long as they have a subscription license to an active NetCloud Service Plan.

More Information

Learn more at cradlepoint.com/netcloud-private-networks