
NETCON GATEWAY SERVER

Master station communication gateway

Connecting master stations to outstations
over WAN/LAN IP networks



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FEATURES

Vendor-independent outstation to master station integration

IP routing functionality

Protocol conversions – over 50 protocols

Firewall

VPNs with encryption for secure remote connection

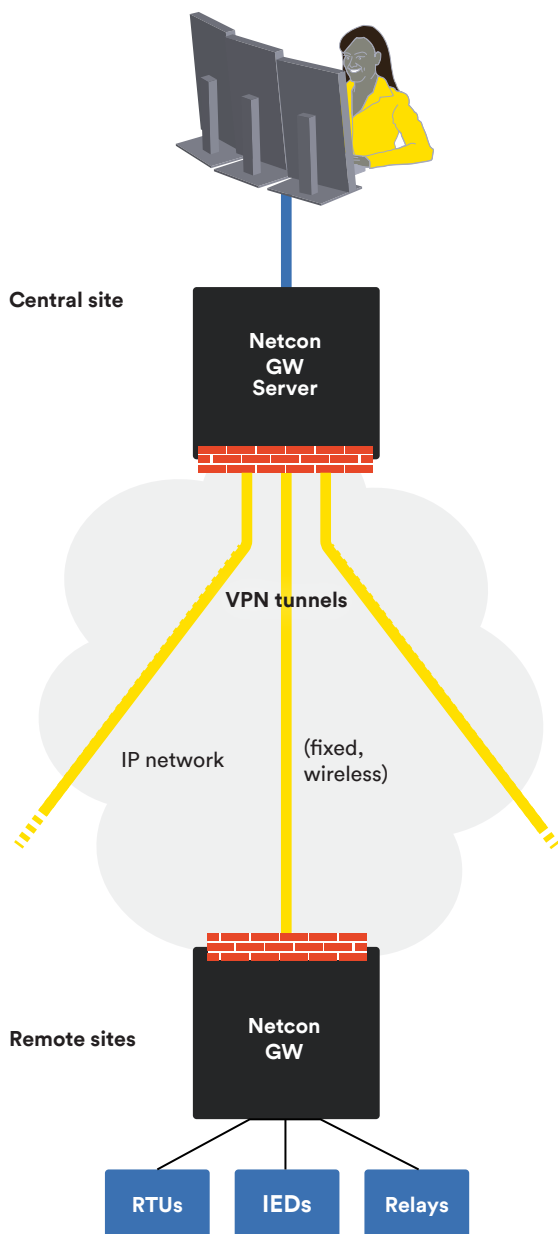
Traffic prioritising

Bandwidth usage optimisation



Master station communication gateway

The Netcon Gateway (GW) Server is a communication gateway that connects a master station to several remote sites over IP/Ethernet networks.



FLEXIBLE AND SECURE CONNECTION OPTIONS

Connectivity services

The Netcon GW Server is a highly versatile network routing, firewall, VPN, data encryption (AES256) and service platform. Optionally running the powerful Netcon NFE software, the GW Server has the following functions:

- Connecting outstations to master stations over WAN/LAN IP networks
- Conversion of outstation telecontrol protocols to the master station protocols, e.g. IEC-101 to IEC-104
- Sharing outstations between a number of master stations
- Traffic prioritising and routing
- Bandwidth usage optimisation

Security

The Netcon Gateway Server is cyber secure. It has a built in firewall that passes through only strictly defined IP traffic. The communication to remote sites and to users is encrypted in VPN tunnels. Users are authenticated before a connection is allowed.

Available telecontrol protocols

Please see the Netcon NFE brochure (document no. M00197-BR-EN)





HARDWARE AND OPERATING SYSTEM

Dell PowerEdge R330XL



The standard GW Server hardware is a Dell rack server for up to 10 network interface cards (NICs):

- Intel Xeon E3-1270 v6 3.8 GHz, 8 Mb cache, 4C/8T, turbo (72W), OEM XL
- 8 Gb RAM
- 2 × 240 Gb SSD, RAID 1 (PERC H330 RAID Controller)
- iDRAC8, Enterprise
- Dual, hot-plug power supply, 350 W
- Intel Ethernet I350 QP 1 Gb server adapter
- Intel Ethernet i350v2 QP 1 Gb server adapter, Low Profile
- On-Board LOM 1 GbE Dual Port (BCM5720 GbE LOM)
- ReadyRails sliding rails without cable management arm

Dell PowerEdge R740 XL



For applications where more than 10 NICs are needed, a rack-based Dell server supporting up to 20 NICs (including 12) is available:

- Intel Xeon Bronze 3106 1.7 Gb, 8C/8T, 11 Mb cache, no Turbo Boost, no HT (85 W) DDR4-2333
- 2 × 8 Gb RDIMM
- iDRAC9, Enterprise
- Dual redundant, hot-plug power supply, 750+750 W
- 2 × 240 Gb SSD, RAID1 (PERC H330 RAID controller)
- 2 × Broadcom 5719 QP 1 Gb NIC, Low Profile
- Broadcom 5720 QP 1 Gb network daughter card (on mother board)
- ReadyRails sliding rails with cable management arm

Common to both options

- CentOS Linux
- Operating temperature 10...+35°C, storage -40...+65°C
- Warranty of 1 year from delivery date

