con-nect™ Virtual Device Networking Data Sheet

Description

Perinata con-nect solves the access-through-firewall problem and utilizes existing network infrastructure to create a virtual device network (VDN) with Lantronix® ManageLinx®. The VDN provides direct access to only authorized equipment, behind firewalls, from anywhere via the net.

Lantronix® VDN technology enables Perinata to create dedicated TCP/IP connections between any two devices, using easily deployed hardware appliances. There is no client software to install. No changes are required to network software or applications at either end of the connection. Perinata con-nect is a secure and totally transparent remote access solution.

The VDN hardware consists of a publicly accessible Device Services Manager (DSM) and individual Device Services Controller (DSC) appliances in multiple locations. Together, these two components enable set up and management of individual Virtual IP (VIP) addresses and routes.

The Device Services Controller (DSC) appliances reside on remote and local networks and mediate communications onto the LANs. In device controller mode, a DSC provides simple access as well as end-point encryption for all traffic. To provide secure end-to-end communications, a DSC sits on the LAN at each service center location. Operating in host controller mode, a DSC provides a secure, scalable entry point to the con-nect VDN system. Once enabled, the host or device controllers provide encrypted communications through the firewall.

The Device Services Manager serves as a central management station and proxy connection point for participating DSCs. The publicly addressable Device Services Manager offers a complete Web 2.0-based management system for all VDN system configuration and control. You can configure individual devices, set up automated device discovery on remote networks, perform automated monitoring, and enable secure access to any device visible to a participating Device Services Controller.

For an outside device to contact devices on private networks, there has to be a DSC on the local segment of both devices and a DSM available to the DSCs. Alternatively, the DSC can contact the DSM when an authorized local device requests communication with another device using one of the DSC's configured VIP (proxy) addresses.

The DSM acts as a publicly accessible call center server. It grants access for isolated device communication through a secure encrypted tunnel by means of the DSC on the local segment of the devices behind a firewall. It is also responsible for remote management, maintenance, configuration and registration of detected DSCs and device servers on the network.

The DSC's primary responsibility is to provide a secure and encrypted communication path for isolated public internet devices to communicate with devices local to the DSC through firewalls on a local private network. The DSC periodically polls the configured parent DSM to retrieve registry information such as discovered device data, maintenance reports, and configuration information.

The DSM completely manages the DSCs. Perinata creates and maintains configuration profiles on the DSM. You transfer configuration data from the DSM to the DSC with a USB flash drive (provided). The web-based WebManager interface is used for access, configuration, and management of the DSCs and VPN.

Device Specifications

Device Services Manager (DSM)

Processor: Intel® Pentium® 4, 3.0 GHz

RAM: 512MB

Hard Disk: 160 GB

Ethernet: Two (2) 10/100/1000Base-T (RJ45)

Console: RS-232 (DB9)

USB: Four (4); front (2), rear(2)

Power Requirements: 100-240VAC, 50 to 60 Hz, 250W

Physical Dimensions (LxWxH):
1U, 35.6 x 42.4 x 4.3 cm
(14 x 16.7 x 1.7 in.)

Weight: 7.7 kg (17 lbs.)

Shipping Weight: 10.5 kg (23 lbs.)

Environmental
Operating Temperature: 10° to 35°C (50° to 95°F)
Storage Temperature: -40° to 70°C (-40° to 158°F)

Certifications
FCC, C/UL,TUV, CE

Warranty
2-year limited warranty

Device Services Controller (DSC)

Processor: Intel Xscale IXP420 Network Processor @ 266MHz
256MB SDRAM (can be configured with 32MB to 256MB)
32MB Flash (can be configured with 8MB to 32MB)
8kb EEPROM

Peripherals: 2 x DB9M serial ports
(RS-232/422/485) at 300 – 230 kilobaud
2 x 10/100 Ethernet 1 with PoE (Power over Ethernet)
1 x USB 2.0
1 x device Configuration/Reset button

Input Power: 9 - 30 VDC – barrel connector
802.3af compliant PoE

Physical Dimensions (LxWxH):
12.7 x 17.65 x 3.81 cm
(5 x 6.95 x 1.5 in.)

Weight: 0.86 kg (1.99 lbs.)

Shipping Weight: 1.3 kg (2.8 lbs.)

Environmental
Operating Temperature: 0 to 55° C (32° to 132° F)
Storage Temperature: -40° to 70°C (-40° to 158°F)

Certifications
FCC Part 15, CE (EN55022, EN55024, and EN61000-3),VCCI, UL/CUL and C-Tick

Warranty
2-year limited warranty

Remote Site Requirements for DSC:

Power Requirements: 100-240VAC, 50 to 60 Hz, or PoE Capability

Environmental
Operating Temperature: 10° to 35°C (50° to 95°F)

Internet: Broadband Access to Internet (Port 80 - Firewall protected)

SSH: Port 22 Availability (Alternative port may be used with agreement)

HTTPS: Port 443 Availability

For more information contact"

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