Mako 8875 Concentrator
Fast, flexible and secure Internet access.

VPN Termination
The Mako 8875 is designed specifically to be the termination point for your remote locations. Mako’s 8875 delivers near-real time reporting on all CPE operations. Remote locations connected by Mako appliances can be linked in seconds, without requiring static IP addresses. Mako’s VPN Cloud service delivers modern privacy and security across your network.

VPN Cloud by the Numbers (and Letters)
Mako’s new VPN Cloud service isn’t limited by a requirement for IP address data as part of its authentication protocol. VPN Cloud uses a certificate-based paradigm: users with the right credentials should be able to use a network from almost any computer, regardless of where they’re connecting from.

Security
ECDSA-based certificates for proof of identity:
- ECDHE-based key exchange for perfect forward security (PFS) negotiation of session keys.
- Uses secure anti-spoofing and anti-relay protection mechanisms.
- Layer 3 and 4 firewall rules restricting access to/from VPN networks.

Encryption
- AES-GCM for session data integrity and encryption. 128-bit and 256-bit keys supported.
- Cryptographic functions powered by SSL.

VPN Cloud by the Numbers (and Letters)
- Terminates 3000 IPSec VPNs
- VPN Cloud-ready: ECDSA-based authentication, Perfect Forward Security, Geographic Failover
- 1 Gbps over 1 WAN, 3 LANs

Mako 8875 Hardware Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form Factor</td>
<td>1U rackmount</td>
</tr>
<tr>
<td>Dimensions</td>
<td>17 x 1.75 x 21.65 inches</td>
</tr>
<tr>
<td></td>
<td>431 x 44 x 550 mm (L x W x H)</td>
</tr>
<tr>
<td>Weight</td>
<td>26.4 lbs (12 kg)</td>
</tr>
<tr>
<td>Power Supply</td>
<td>1+1 Redundant 400 W, 100-240 V AC</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>40° to 105° F / 5° C to 40° C</td>
</tr>
<tr>
<td>Network Interface</td>
<td>4 x Ethernet RJ45 1Gbps (1 WAN, 3 LAN)</td>
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<tr>
<td>IPSec</td>
<td>3000 connections</td>
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</tbody>
</table>

Features
- Hub-and-Spoke routing.
- Fast VPN failover on WAN failure.
- Industrial grade NAT/SNAT/DNAT support.
Usage Scenarios

The following are two examples that demonstrate a practical IPSec configuration and a VPN Cloud-based solution. These scenarios are purely indicative of common considerations in a concentrator network.

Here, a pair of Mako 8875s is configured in a High Availability (HA) ‘heartbeat’ failover configuration - if the ‘Primary’ concentrator suffers an outage, the right ‘Secondary’ concentrator assumes the Primary’s role.

This VPN Cloud configuration distributes traffic geographically by ‘weightings’ to avoid overflow. This dual data center solution requires OSPF or BGP running between Customer Internal Routers and the 8875s (or static routes between the two) to maintain correct return path routes.

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