

MiNID

Miniature Programmable
Network Interface Device



MiNID® is a field-programmable miniature L2/L3 network interface device (NID), available as a smart SFP, SFP sleeve and in a standalone enclosure, as well as an outdoor enclosure. Part of RAD's vCPE portfolio, it enriches the Service Assured Access offering with software-defined functionalities for enhanced demarcation, remote monitoring, fault isolation, and more.

As a best-in-class performance monitoring (PM) probe, the MiNID provides instant upgrade for legacy switches and routers with a powerful PM overlay to help service providers introduce new services quickly and with better quality of service (QoS) while increasing operational efficiency and lowering costs.



Part of
RAD's Service Assured
Access Solutions



Your Network's Edge®

MiNID

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Key Takeaways:

- Boosts existing networks with Carrier Ethernet Service Assured Access capabilities including service activation testing, SLA monitoring and network diagnostics
- Four form factors – miniature standalone device, outdoor device, patent-protected SFP sleeve, and a smart SFP – introduce savings in expensive floor space and power consumption
- Multi-functional as an auto-detectable OAM network probe or a fully managed NID
- Zero-touch provisioning for fast and simple installation; no dedicated training required
- Field-programmable for maximum flexibility and easy download of demarcation and networking applications

Use MiNID for:



| Carrier Ethernet and IP VPNs



| VPNs for International Service Providers



| Cloud Connectivity



| Wholesale Networking

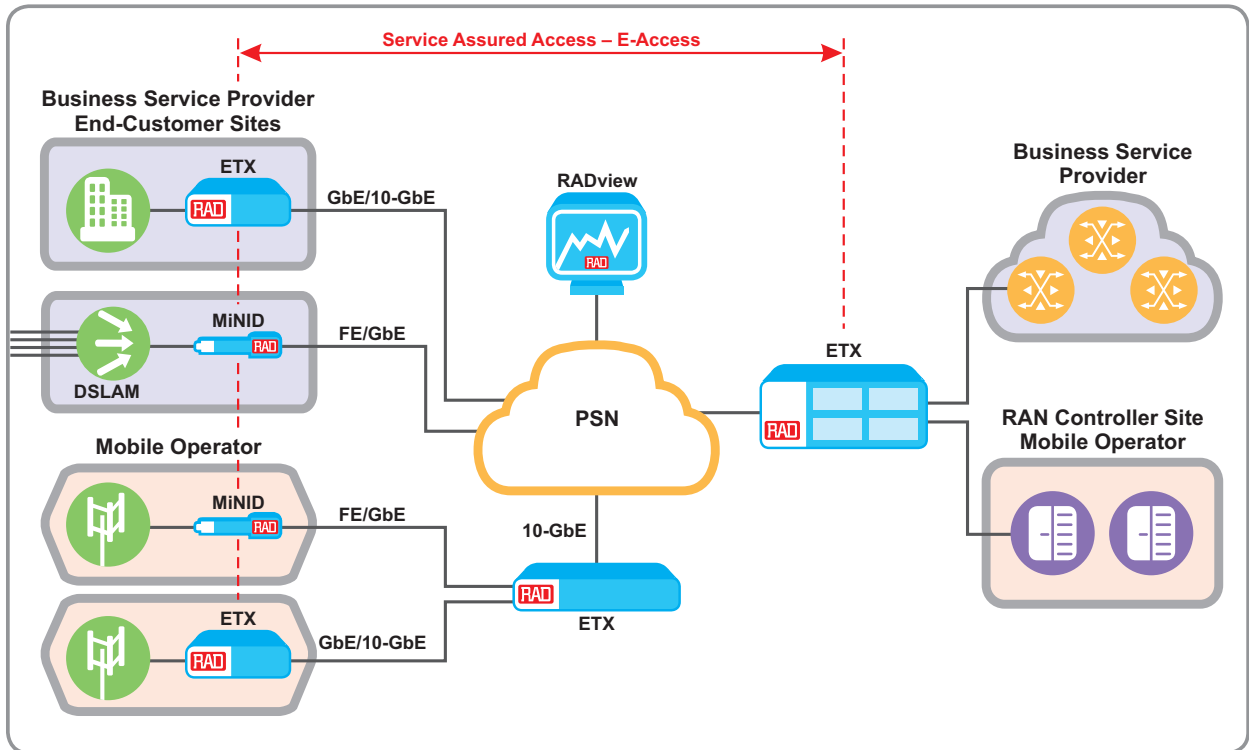


| Mobile Backhaul

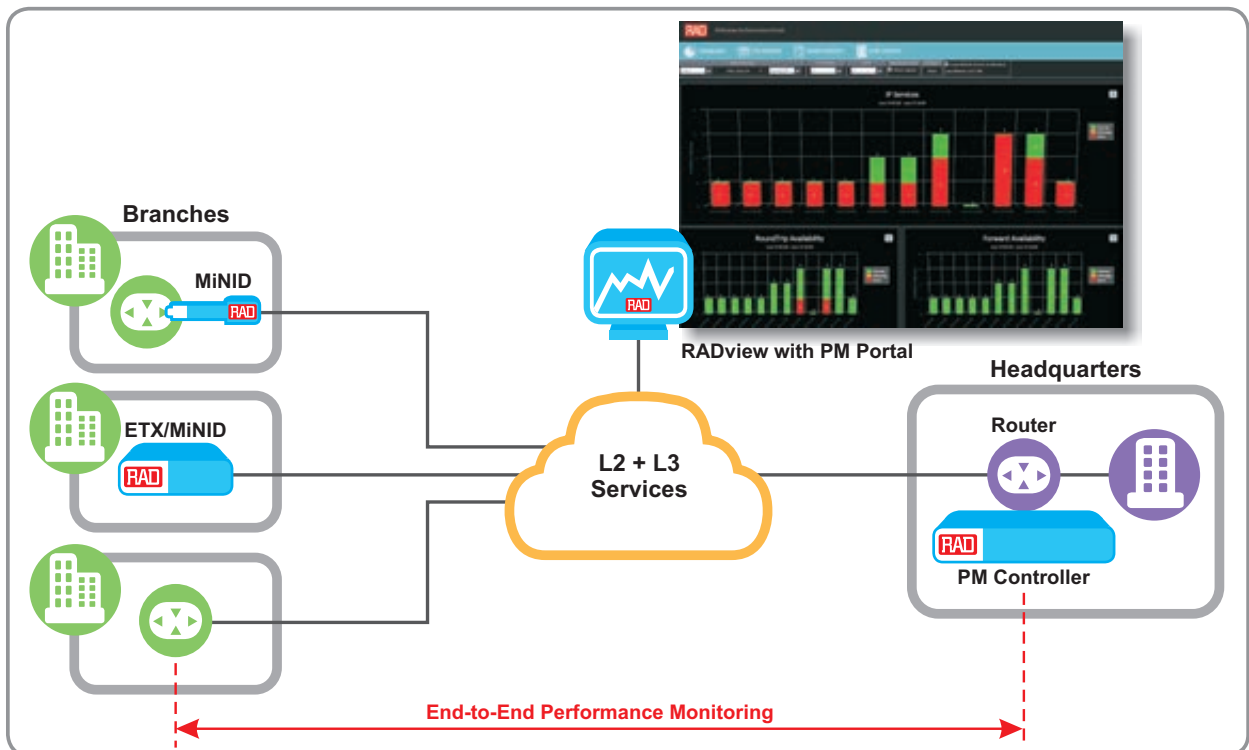


| Performance Monitoring for Mobile Networks

Wholesale Networking



Performance Monitoring for Business VPNs



Quick Specs:

- Standalone device can be equipped with two combo ports, two combo ports with bypass relay, or two copper ports with bypass relay
- SFP sleeve form factor is easily plugged into standard SFP ports, and is compatible with standard fiber and copper SFPs in a variety of ranges
- FPGA-based firmware for remote software download and updates of various network functions
- Remotely managed via CLI, web interface and SNMP

MiNID Programmable Network Functions

The MiNID features a fully programmable, FPGA-based firmware for maximum flexibility. It enables easy download of demarcation and networking applications using the RADview D-NFV Orchestrator or other third-party management systems. Supported applications include:

Demarc

Service demarcation, PM and diagnostics for MEF Carrier Ethernet 2.0 and IP services with SLA assurance:

- Service turn-up testing with 2544/Y.1564
- MEF-10.3 multi-CoS traffic policing with flow classification, VLAN attachment and priority marking
- Fault management with L2-L4 diagnostic loopbacks
- Y.1731, TWAMP and UDP echo performance monitoring
- Timing monitoring of IEEE 1588 flows, identifying trends in PTP clock and providing alarms and timing quality reports

Platinum

Includes all Demarc features in addition to:

- Remote packet capture
- Micro-burst analysis

