



The Peeredge Diagnostic Fabric

As interconnected VOIP has become more distributed, the process of troubleshooting even the most trivial problem has become a monumental task. Couple this with multiple datacenters, multiple SBCs and multiple carrier relationships and this task becomes a needle in the haystack scenario. Being able to quickly identify and troubleshoot failure scenarios is what differentiates operators. The **Peeredge Diagnostic Fabric** gives carriers and enterprises the ability to consolidate all troubleshooting aspects of interconnected VOIP into a single cohesive interface. The Diagnostic Fabric can monitor a variety of different endpoints to capture diagnostic

information about call performance, QOS, signaling anomalies and packet loss. The fabric integrates natively inside the Peeredge Ecosystem and can be used cooperatively between traditional VOIP hardware (Proxies, Gateways, SBCs, PBXs, etc.) and the Peeredge Switching Fabric. All diagnostic information is aggregated and presented to the user in a single unified interface. This means that even though a network may be diverse, it is watched and monitored as if it were all located in the same place. The diagnostic records are also automatically archived as they stream in, so historical analysis can be performed at a later date.

Diagnostic Fabric Capabilities

— DIAGNOSTIC CAPABILITIES

- Diagnostic Capabilities
- Realtime scalable sip analysis with unlimited session or CPS limitations.
- Realtime RTP analysis with unlimited session or CPS limitations. * requires media anchoring
- Unified and native integration with cloudshark monitor display tool.
- View application layer conversations from TCP, UDP, RTCP and SSL streams. Link directly to the stream you're looking at to make shared troubleshooting even easier.
- Supports any SIP enabled device
- Supports g.711, g.722(.1), g.729, g.723, ilbc, opus, silk, speex, gsm rtp analysis and storage.
- Historical storage and indexing of diagnostic data, with a user-definable archive history.
- Exportable PCAP files for distribution.
- Ability to trace calls through a B2BUA and rejoin originating and terminating endpoints for a single unified trace across multiple terminating endpoints.

— SEARCH / DISPLAY CAPABILITIES

- Search for calls based upon sender, receiver, date range, hour range, dialed number, ANI (caller-id), LRN, SIP Call-ID or drill-down search methods.
- Fully web-enabled interface with the ability to share traces using URLs.
- Full graphing, including ladder graphs for determining call flow.

— MANAGEMENT

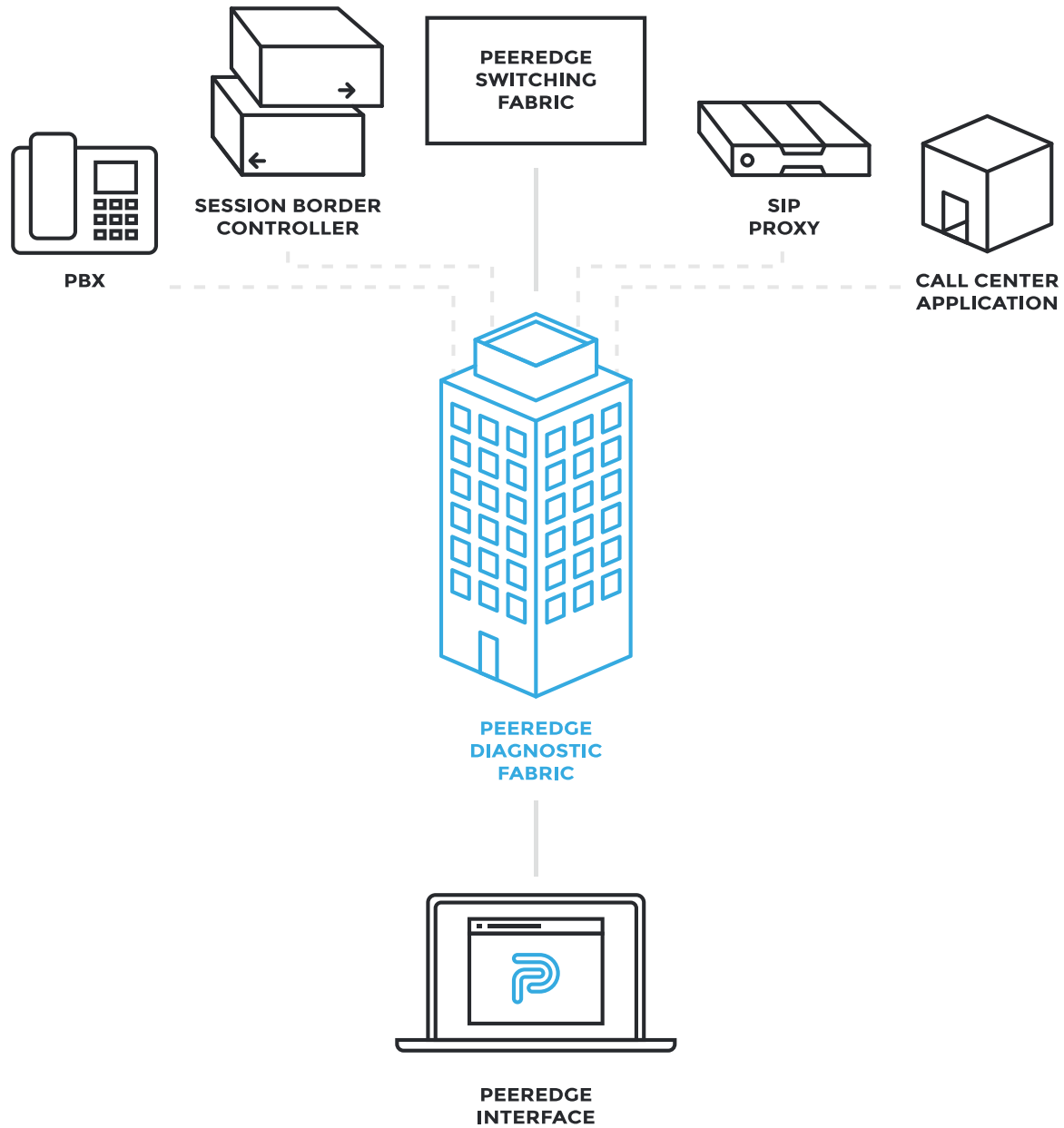
- Full integration into the Peeredge ecosystem of products with one touch integration of carriers, trunk groups, call-control, security and QOS related items.
- Responsive and SSL secured web interface with native tablet and phone web browser support.
- Wizard based searches to manage all aspects of troubleshooting
- Automatic software updates and monitoring by 46 labs staff.

— REDUNDANCY

- Multiple sender and receiver nodes to allow for highly-available diagnostic failover.
- Self-healing SIP receiver and senders.
- Virtual Datasource Elements contain redundant virtualized elements for on-prem diagnostics.

Peeredge VME

Virtualized Monitoring Element



The Peeredge VME (Virtualized Monitoring Element) gives carriers that require on-premise diagnostics, the ability to take advantage of all elements of the Peeredge Diagnostic Fabric inside of their own facilities. The features present in the Peeredge Diagnostic Fabric all convey to the VMEs and users may run a hybrid of VMEs alongside the native Peeredge Diagnostic Fabric. The entire deployment can be managed using a single unified interface inside the Peeredge Ecosystem.

The Peeredge VMEs can be used to monitor multiple types of equipment at diverse datacenters and consolidate diagnostic information into a single cohesive place for analysis.