

Standards-Based Replacement for Proprietary Line Frames

The Key Element for Replacing Legacy Switching Systems and Moving to VoIP



5000LF Features:

- Open-Standards based subscriber aggregation
- Dense subscriber termination
- Up to 4 GR-303 interface groups
- VoIP ready for next generation voice networks without forklift upgrades
- Ideal solution for replacement of proprietary host and remote switch units
- Fully compatible with Aztek Networks' ESA solutions

Subscriber Aggregation that Frees Carriers from Vendor Lock-in

Aztek Networks' 5000LF provides all of the functionality of proprietary central office subscriber-side aggregation peripherals in a standards based, economical, and compact format. The 5000LF provides the technology for incumbent facilities-based carriers to optimize and cost reduce their voice networks while continuing to provide the legendary levels of quality and reliability for which the industry is famous.

How It Works

The 5000LF integrates the subscriber DS0s, from whatever source: POTS lines, integrated access systems (GR-303 or TR-08), D4 T1 aggregated into one or more GR-303 interface groups or VoIP trunks towards the network.

A single shelf aggregates more than 4,000 subscribers in a mixture of POTS and subtended integrated access. Four shelves may be mounted in a 7' frame providing service to more than 16,000 subscribers.

The Aztek 5000LF is environmentally hardened allowing office or field cabinet deployment.

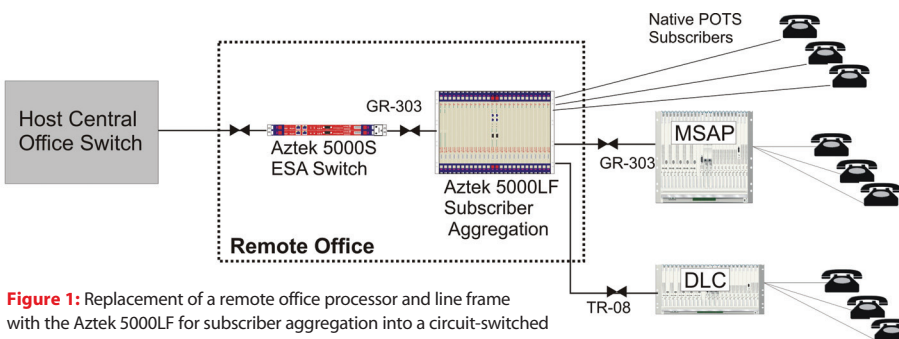


Figure 1: Replacement of a remote office processor and line frame with the Aztek 5000LF for subscriber aggregation into a circuit-switched (GR-303) network. The Aztek 5000S provides for Emergency Stand Alone (ESA) service.

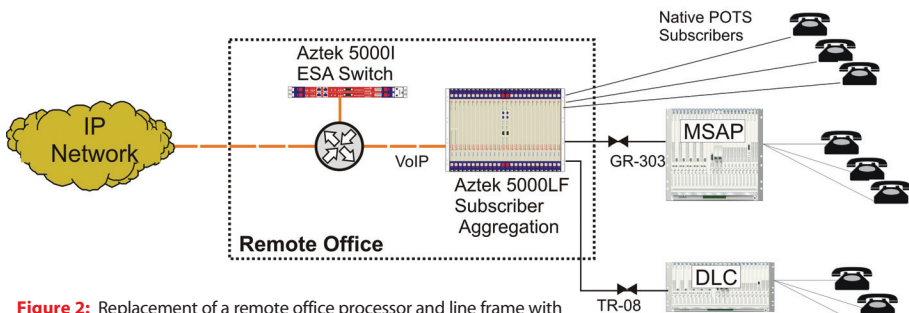


Figure 2: Replacement of a remote office processor and line frame with the Aztek 5000LF for subscriber aggregation into a packet (VoIP) network. The Aztek 5000I provides for Emergency Stand Alone (ESA) service.

Technical Specifications



System Features

- Carrier Grade (99.999%) availability
- High-density analog line termination
- Legacy DLC aggregation
- Fault Tolerant software architecture
- MLT coordination and pass-through
- Modular expandability and upgradability
- Full CO length POTS serving length (1930)
- VoIP migration ready
- Hot swappable plug-in cards
- Field upgradeable software
- Automatic network clock synchronization
- Continuous background system audits

Switch and DLC Interface Standards

- GR-303-CORE
- GR-8
- IEEE 802.3ab
- ANSI T1.403
- GR-499-CORE
- GR-1244-CORE

Environmental / Physical

- Dimensions:
 - Height: 15.75 inches (9U)
 - Width: 23 inches
 - Depth: 12 inches
- Ambient operating temperature: -40 to +65° C
- Storage temperature: -40° to 70° C
- Operating relative humidity: up to 90% (non-condensing)
- Hot-swappable cards
- In-System temperature monitoring

Power

- Dual redundant power feeds.
- DC: -42.75 V to -60.0 V, 214 Watts
- GR-513-CORE
- ANSI T1.315-2001
- Power quality monitoring

Safety and Regulatory

- NEBS level-3 (GR-63-CORE, GR-1089-CORE)
- Emissions Compliance: FCC, 47 CFR § 15, Subpart B, Class A
- Compliant to RUS, 7 CFR § 1755.522

Management

- Web Browser-based GUI
- Command Line Interface (CLI)
- SNMP
- Persistent provisioning
- Recording of system events
- Alarm Contact Closures: 2 inputs and 3 outputs
- RS-232 and 10/100 Base-T management interfaces

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