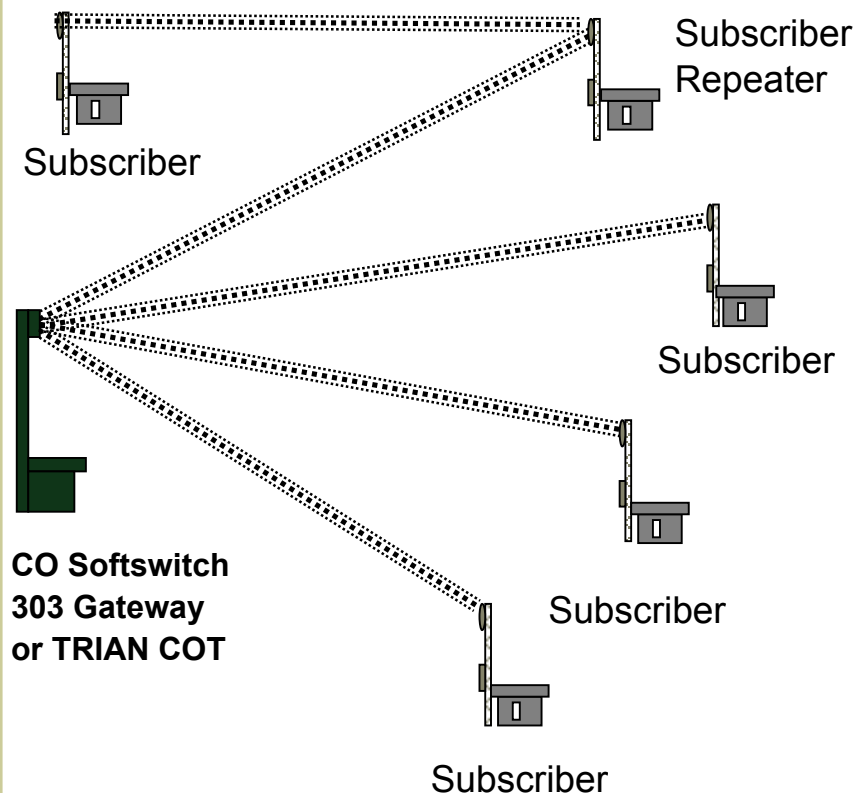


TRIAN™

ThinRoute Integrated Access Network

- Rural advanced Voice and Broadband access over IP
- Low start-up cost
- Scalable
- Flexible network topology adapts to varied terrain
 - Cellular
 - Point-to-point
 - Add-drop
 - Repeaters
 - Copper and fiber extensions
- Licensed and unlicensed frequencies
- Built to Telco Standards
 - CLASS features
 - 8 Hr Battery Backup
 - Lightning protection
 - Temp hardened
- Easy to deploy
 - No in-home equipment
- Full remote management



TRIAN integrates legacy voice and wireless DSL in a very flexible open-standards system, uniquely adaptable to the challenges of rural communities and sparsely populated terrain. TRIAN scales economically to serve from 1 to 1000 customers.

The TRIAN system carries voice and data traffic over a private wireless ethernet network with QoS (Quality of Service) rules insuring toll quality voice. There is no large base station to burden the up-front cost of small networks, yet the architecture is scalable and all of the network elements may be unified and managed remotely under a cost effective SNMP Element Management System (EMS). Thanks to its open architecture, TRIAN is able to interwork easily with packet or circuit switches, either directly to a softswitch under SIP, MGCP or NCS, or through a digital or analog gateway to the circuit switched PSTN. TRIAN can extend copper or fiber networks, and can use copper or fiber to extend services to locations that are not well suited for wireless. With up to 14 Mbit/s of throughput and QoS priorities, even Video Over-IP and video conferencing are possible as services become available.

The ThinRoute Outdoor Residential Gateway (ORG) integrates all of the features and functions that carriers need. Designed from the ground up to work with wireless ethernet networks, the ORG is a battery backed gateway that provides two POTS lines, 10/100baseT ethernet WAN and LAN ports, and power (PoE) for the associated radio. The ORG mounts neatly on a wall of the premise or on a pole as far away as 300 feet. CLASS services are supported including Caller ID, CallForwarding and Call Hold.



OUTDOOR RESIDENTIAL GATEWAY



COT ANALOG VF GATEWAY

Management and maintenance can be performed from anywhere in the network via a web browser interface or SNMP Element Management System. TRIAN employs radio technology specifically designed to handle broadband data while supporting advanced QoS features with 802.1p/q and VPNs for handling voice and video services. Distances of 30 miles or more can be spanned to reach remote subscribers. A variety of frequency bands are available for North American applications:

Network Design Services

ThinRoute Technologies offers RF engineering and network design services to help you plan your network.



8695 Pine Drive, Beulah, CO 81023 719-485-3000 Fax: 719-485-3002

www.thinroute.com

email: tclair@thinroute.com