

Service Provider VoIP for Consumers



Ranch Networks helps Service Providers solve the unique challenges of delivering VoIP to home consumers, including voice quality, NAT traversal and simplicity of installation.

Ranch Networks RN Series are multi-functional carrier-class appliances that provide Service Providers with a simple, reliable and easy-to-manage end-to-end solution for consumer VoIP delivery.

Information Privacy

Home consumers assume a high level of information privacy and security from their phone service. With VOIP, this can only be provided by the encryption of media and signaling streams.

Ranch's RN Series is signaling protocol independent, meaning it can work with any signaling protocol, whether standards-based, proprietary or encrypted - something that cannot be done with Session Border Controllers.

Security

Ranch's RN Series helps secure the Service Provider's network by protecting its Soft Switches, Application Servers, and Media Gateways from Denial of Service and other attacks and by segmenting the network into multiple security zones.

Security is further enhanced by the RN's use of per-call security, which opens and closes firewall pinholes upon call set-up and tear-down.

Voice Quality

Voice quality is critical to consumer acceptance of home VoIP services.

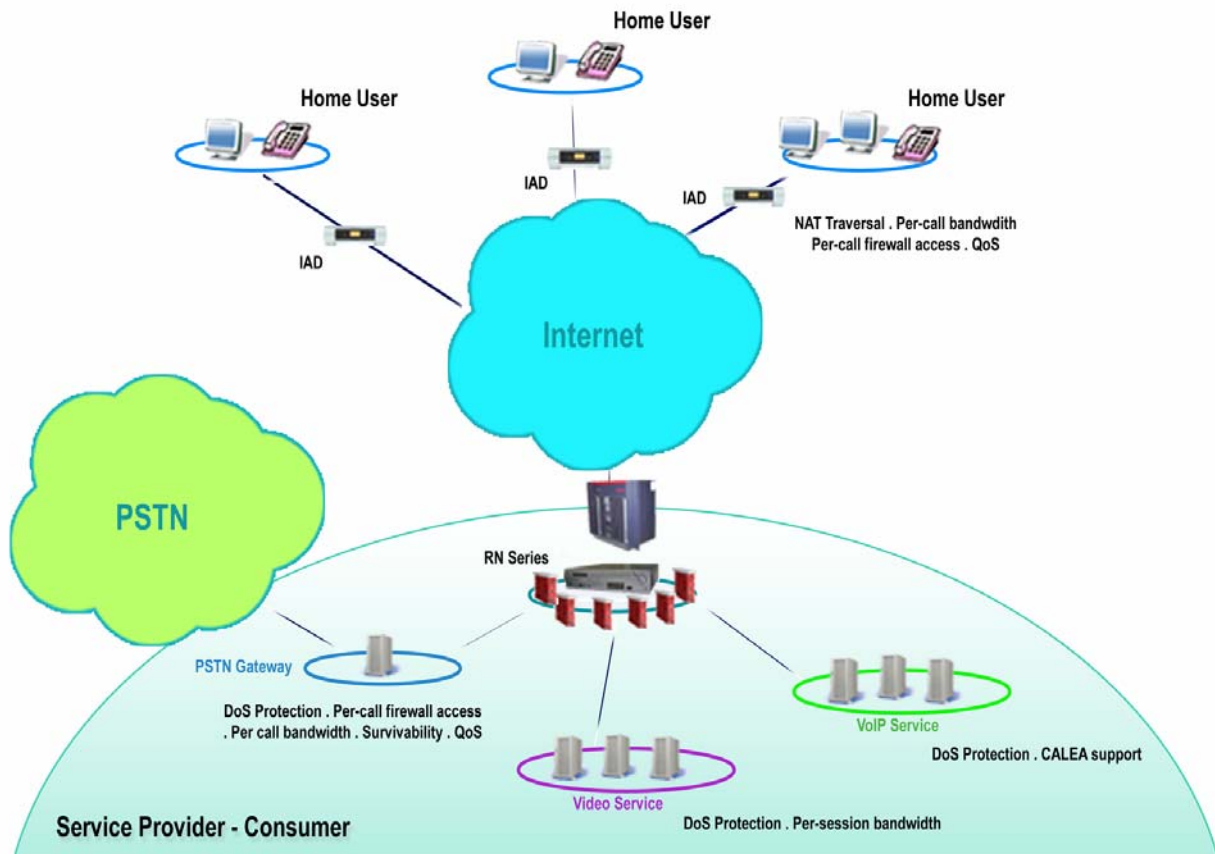
Ranch Networks give Service Providers the ability to allocate bandwidth on a consumer DSL link on a per-call basis from either a single network-based device that will serve multiple customers or from an IAD placed at the customer's site.

Reliability

The greater the number of components in a network, the more likely a failure. Cables, connectors, power supplies, fans and electronic components are all prone to failure. Ranch Network's multi-function appliance approach to VoIP delivery reduces the number of required components - thus improving reliability.

Built to NEBS 3 compliance, Ranch Networks RN Series includes a number of built-in high-reliability features, including link, port and fan redundancy. Optional features include power and unit redundancy.

Deployment Example



RN VoIP Features

- ⊖ **Per-Call Firewall Control**
 - ⊖ **Per-Call Bandwidth Allocation and QOS**
 - ⊖ **NAT Traversal**
 - ⊖ **CALEA Support**
 - ⊖ **Encrypted Signaling and Media Support**
 - ⊖ **Compatible with any Signaling Protocol**
 - ⊖ **IP PBX Denial of Service Protection**
 - ⊖ **WAN failover to back-up gateway for local survivability**
 - ⊖ **Adjunct Systems Health Monitoring**
 - ⊖ **Preservation of location-specific IP addresses**
 - ⊖ **Network Call Usage Reporting**
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