NETWORKPROGRAMS™

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Success Story

A Japan-based Fortune 500 Networking Company

BroadBand Router

The Project

The broadband router is based on IXP425 processor with MontaVista Linux as the OS used for this router. Apart from supporting the default routing it has in-built QoS and firewall features. The management and configuration can be done either through SNMP, web interface or CLI.

The Challenge

- Integration of CLI and GUI with proper file locking
- DSL and cable facility on single platform
- Out-of-band management
- Dual stack integration
- Dynamic routing protocols (RIPv1, RIPv2, RIPng, OSPF, OSPF-3 and IS-IS)
- IXP425-based processor architecture
- Memory limitation

Features

- Routing for both IPv4 & IPv6
- QoS (Quality of Service)
- CLI and GUI router access
- Firewall and NAT
- UPnP
- VPN using openVPN or IPSec
- Functionality of dynamic routing
- Provides firmware upgrade procedure to update technology as per future requirement
- IPv6 integration
- HTTP authentication
- Serial authentication
- Backup setting and firmware upgradation

The Solution

The Network Programs team provided the following solution:

- A dual stack broadband router that provides full functionality of IPv4 and IPv6 stacks
- Dynamic routing for both IPv4 and IPv6
- VPN implementation for Transport Layer Security (TLS) and IPSec protocols
- DSL and cable modem integration on single platform
- UPnP enabled development for future device
- Out-of-band management using class-based queuing that helps customer to prioritize their traffic
- Firewall and NAT
- Flexible security management

Benefits

- Based on IXP425 Network Processor
- Portable router meant for Home and Small Office users
- Simple configuration and easy to setup

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