



## 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, RIPv6, 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