

## Router Software development for a leading communications networking equipment company

### The Client

The client is a leading global supplier of communications networking equipment, holding strong leadership positions in Internet networking infrastructure for service providers, optical networking, wireless networks and communications networking support and services. They design and deliver the systems, services and software that drive next-generation communications networks.

### The Challenge

The client had a bundling agreement with a leading network equipment manufacturer to supply them with core routers maintenance software. The bundled solution was to be sold to leading Internet service providers across the globe.

### The Objectives

- To develop an element management system for the core routers.
- To develop a command line interface and GUI to interact, configure & maintain the routers.

### The Solution

Our team assisted the client to develop the element management system for the routers. This solution consisted of a command line interface and graphical user interface to interact, configure & maintain more than 1500 parameters and elements of the routers. All interfaces and their attributes in the core routers were defined and mapped with well-defined XML based device configuration files. The solution was designed and implemented to configure and maintain Network Elements using SNMP.

### Tools and Technologies used

- Borland (Application Server)
- Versant's Object Database (Database)
- Java, XML, CORBA IDL (Languages)
- Java Swing (Graphical User Interface)
- Rational Rose, ClearCase, ClearQuest (Tools)
- Eclipse (Integrated Development Environment)
- Sun Solaris, Windows NT (Operating Systems)