



## Success Story

### A Japan-based Fortune 500 Company

# SNMP Agent Simulator for DWDM Device

## The Challenge

The project involved developing a simulator for DWDM based devices, which can be managed by SNMP.

## The Solution

This product provides a framework for simulating a DWDM based device for the purpose of management from an SNMP based system. A suitable definition of the MIB can make it appear as a terminal, add-drop multiplexer or a cross-connect. For edge devices, additional non-DWDM MIBs can be added, based on interfaces that need to be simulated.

Suitable scripting is used to manipulate the MIB values to simulate the device parameter value changes, as viewed by the manager. The DWDM simulator can issue notifications in the form of SNMP traps for signaling alarms and events.

## Benefits

- ◆ Reusable tool for the development of element and network management system for DWDM devices, as it allows deferment of actual DWDM equipment until a late stage in the development cycle.
- ◆ Used to analyze the definition and impact of enterprise MIBs, as they are planned for the DWDM system, without going through the stage of device actual implementation.
- ◆ Reduces dependency on the hardware device cycle.

## Features

- Device can be defined with device definition files, representing SNMP MIB objects.
- Traps can be generated dynamically.
- Behavior is provided to simulate real change of device values. Script files are used for real-time behavior.