



Success Story

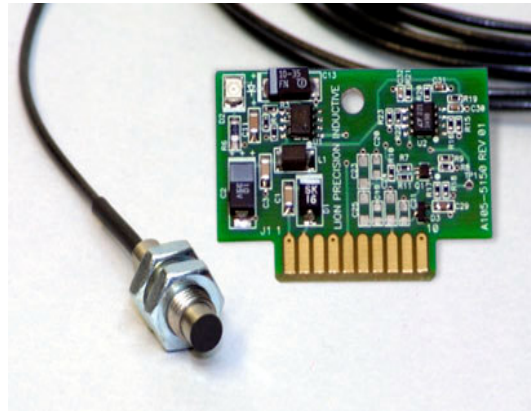
A Fortune 500 Japan-based Telecom Company

Broad Band & Narrow Band Switching

The Challenge

The project requirement includes development of software in the following areas:

- Call processing
- Traffic management
- Automatic protection switching
- Performance Monitoring



Our Solutions

Network Programs worked with ATM switch software team of a Japanese company in the areas of call processing, traffic management, automatic protection switching and performance monitoring. The features developed are based on ATM forum as well as ITU-T standards for the switches developed for the North American and European markets.

Call Processing

A major chunk of the Network Programs' ATM switch software team is deployed in developing call processing features based on ATM forum and ITU-T recommendations.

Interface Management

The Interface Management (IM) component is responsible for managing terminals.

Switched Virtual Connection (SVC)

Network Programs has designed and implemented provisioning software for routing on the basis of routes, source and time dependent routing, alternate routes, conditional routes and inter-exchange carriers.

Permanent Virtual Connection (PVC)

Network Programs has developed software for provisioning virtual paths and virtual channels.

P-NNI Signaling

Network Programs has integrated the PNNI 1.0 routing stack in an ATM switch.

Traffic Management

Network Programs has worked for traffic management, which is a critical part of an ATM switch. The types of traffic include CBR, VBR, UBR and ABR.

Automatic Protection Switching (APS)

APS is a key area in call processing which is essential for high reliability service being provided by networks. Network Programs has participated in implementation of APS function conforming to TR-NWT-000253 (SONET Common Generic Criteria) and TR-NWT-000499 (Common Requirements Protecting Switching) specifications for OC-3, OC-12, STM-1 and STM-4 equipment.

Performance Monitoring (PM)

Network Programs has significant resources for designing and implementing various performance monitoring functions for ATM core switches.

Benefits

- Successful offshore and onsite development work
- Successful implementation and testing of the SVC, PVC, NNI and UNI call processing office data implantation
- Successful implementation and testing of the performance management traffic management, interface management and automatic protection switch management implementation
- Successful integration of the PNNI stack

