

How Power Grid Corporation of India Limited (PGCIL) Transformed Legacy Network Operations with **Infraon OSS**



Company

Power Grid

Industry

Power

Solution

Infraon OSS

Vertical

Public Sector

About the Client

Power Grid Corporation of India Limited is a leading electricity transmission organization managing both Inter State and Intra State Transmission Systems. They operate a vast fiber optics network, including 31,000 KM of Inter State and 10,000 KM of Intra State systems, using SDH, PDH, DWDM, and IP MPLS technologies.



The Need

Power Grid needed a solution to manage their legacy network, maintained by multiple vendors. The lack of centralized control led to difficulties in generating SLA reports, potential service disruptions, and inefficient capacity planning. The complexity of the network required effective fault monitoring, inventory tracking, and vendor management for seamless service delivery.

About EverestIMS

EverestIMS Technologies Ltd. (Everest) is a leading software company – offering IOTM, AIOps and Telecom OSS solutions. Backed with rich market experience in the I&O, AI, IoT, and digital transformation space, Everest has widespread global footprints through its focused product portfolio. We specialize in providing integrated IT solutions, IT operations, and IT infrastructure to empower corporations, enterprises, and telecoms to deliver future-ready services to end-users.



What Infraon OSS Offered

After thoroughly understanding Power Grid's requirements, Infraon implemented a centralized OSS platform with Unified Network Management System (UNMS) to manage their legacy infrastructure. The solution supported multi-vendor and multi-technology environments, consolidating over 10 EMS systems for SDH and PDH networks.

Here's what Infraon OSS offered:

- ✔ Unified dashboard for real-time visibility across the entire network
- ✔ Multiple path computation algorithms for optimal planning and provisioning
- ✔ Consistent uptime for E1, EoSdh, STM, voice, and data services through service and channel availability computations
- ✔ Enabled capacity planning and forecast analysis for optimized resource allocation
- ✔ Facilitated cross-domain correlation for root cause and service impact analysis
- ✔ Integrated inventory tracking with GIS for efficient resource management
- ✔ End-to-end service provisioning across multiple vendors, multiple EMS/NMS/NE
- ✔ Generated detailed capacity vs. traffic usage reports



Business Benefits

1

99% service availability through optimized resource planning.

2

Cost reduction by reducing dependency on expensive OEMs and MSPs.

3

Improved manageability with a consolidated multi-vendor network.

4

Enhanced fault resolution through automated monitoring and ticketing.

5

Better capacity planning with detailed traffic reports ensuring scalability.

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