

# INFOSYS TELECOM NETWORK PLANNING | | | | | | | | AND DESIGN SERVICES

As data demands surge and technologies evolve, Communication Service Providers (CSPs) need networks that are faster, smarter, and ready to scale.

Infosys' holistic, end-to-end NPD solutions support both legacy and next-generation telecom infrastructures, empowering CSPs to stay ahead of the curve.



### **Key Industry Challenges**

High turnaround time in completing network designs

High reworks caused by inaccurate data and design errors High costs driven by unforeseen construction challenges

Records mismatch and inadequate documentation practices

### Infosys Telecom Network Planning and Design (NPD) Offering

### Feasibility Study



- Economic Feasibility
- Technical Feasibility
- Operational Feasibility
- Schedule Feasibility
- Site SurveyFeasibility report

### Network Planning



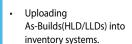
- Network Planning for Core, Distribution, Access Layers
- Other Licensed Operator (OLO) finalization
- Detailed planning and schedule report
- Upgradation
- Network Optimization
- Planning for network expansion

### Network Design



- Routing end to end network design
- Create HLD (High-Level Design) and LLD (Low-Level Design) design drawings
- Create design work package
- Shortest route prioritization
- Ad-hoc changes in the design
- Updating inventory records after As-Builds by considering Field inputs/ changes

## Document Digitization Support



- Create Process flow diagrams
- Create Low level work instructions document (SOPs)
- · Centralized documentation

### Supporting Digital Levers



Process Mining



Report Automation



Digital Gantt Charts



Predictive Analytics

### **Benefits**

>95% Planning accuracy

>95% Design quality

>99%

Standardization and centralization

>90% Network optimization

Improved SLA/KPI

Real-time inventory keep-up Reduced duplicates and non-value add activities

>99% Legal and regulatory compliance

### **Technologies Covered**

Infosys NPD solution covers the full spectrum of telecom technologies — both wireline and wireless — to support integrated, future-ready network designs.

### **Wireline Networks**

- · Fiber/Copper/Hybrid Fiber Coaxial (HFC)
- Ethernet, MPLS, IP-MPLS
- FTTx/GPON

#### **Wireless Networks**

- · Radio Frequency (RF), 4G, 5G
- Cellular
- MicroWave (MW)

### **Client Success Stories**



10+ years of FTTx (Fiber to the x)
Network rollouts and operations for a
leading telecom company in the
APAC region

- 8.4 Mn home pass delivered.
- Primary Design Partner for 2.2 Mn home fiber deepening program.
- Improved cycle time by over 50% and reduced costs by 40%
- Won 'Supplier of the Year' award for three consecutive years.



20+ years of NPD for a leading telecom company in the USA

- Delivered over 10K Plan and Build designs across Transport, Data IP, and DSL access networks.
- Implemented end-to-end Workflow
   Management tool and automation for Plan,
   Design and Construct
- Achieved over 70% cost reduction through a 100% right-shored Network Design Factory operating model.



6+ years of NPD for a leading telecom company in Europe

- **End-to-end management** of CIO and CTO organizations for IT delivery and network technology services.
- Acted as Managing Agent for Construction Partners across network rollout and operations.
- Served as Managing Agent for the client's strategic platform and services, driving efficiency, innovation, and a 20% reduction in Total Cost of Ownership (TCO).
- Delivered network design to modernize and optimize the cost of FTTP (Fiber to the Premises) networks.
- Optimized processes and automated field engineering apps, delivering 10-20%
   Operational Efficiency Improvement (OEI).

Why Infosys





Global

Top Tier

Clients



350+

Telecom Experts



2000+ Network Engineers

### **Contact Information**

Got networks to plan and scale? Let's map it out together. Reach out for a quick connect or a deep dive. Your future-ready network starts here.

For more information, contact <a href="mailto:infosysbpm@infosys.com">infosysbpm@infosys.com</a>

Infosys

Navigate your next

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