

# Next-gen Network Services

Communications, Media & Technology



Communications service providers must modernize their networks to satisfy the ever-growing demand for bandwidth intensive content and value-added services, while ensuring their profit margins are protected. As digital services providers, CSPs are moving from a capital expenditure intensive hardware-based network to an operating expenditure-focused software-based digital network. This digitalization wave requires more elasticity across networks for agile services creation.

Tata Consultancy Services' (TCS') Next-gen Network Services help CSPs embrace newer technologies to realize the full benefit of navigating to software-based networks by offering end-to-end network infrastructure and service delivery platform management services.

## Overview

Customers' demands for value-added services are being addressed by newer and nimbler cross-industry competitors like internet and social media companies that have been quick to take advantage of media convergence, and adopt non-traditional business models to capture an increasing market share. In order to stay competitive, CSPs need to offer digital services such as network on demand, high definition video, and high speed internet. As a result, they need to upgrade their network to support a transition from a predictable world of voice to a highly unpredictable world of connected devices and over-the-top (OTT) video. This network transformation needs to be rolled out faster in a cost-effective way, without affecting end-user experience.

TCS Next-gen Network Services enable CSPs to evolve their networks in order to become digital-ready by offering end-to-end network lifecycle management services including network engineering, assurance, operations, legacy sustenance, and software-defined networking (SDN), and network function virtualization (NFV). TCS also offers end-to-end service lifecycle management services, which include service platform development, orchestration, and assurance.

## Our Solution

TCS provides the following network and service lifecycle management offerings to CSPs:

**Network engineering:** We offer network planning, design, optimization, and project management services across wireless, fiber, copper, and cable network, along with support for commissioning and integration of network elements. TCS provides integrated workflow workbench and automation services for fast delivery of optimized design.

**Network assurance:** TCS provides services for network test lifecycle management and network provisioning testing, along with test labs consolidation, operations, and management services.

**Network operations center management:** We offer people and process management solutions across network operations center and service operations centers covering fault management, performance management, and configuration management.

**Legacy network sustenance:** We offer legacy sustenance services spanning the entire value chain of a telecom company's ecosystem including maintenance of legacy voice products and services and network optimization and clean-up.

**SDN and NFV services:** TCS helps execute proofs of concept (PoCs) for various use cases, and integrate virtualized networks with existing systems. We also offer test management and hybrid network management services.

## Benefits

TCS offers the following benefits to CSPs:



**Improved ROI:** Efficiently utilize legacy network infrastructure until it is replaced by next generation networks.

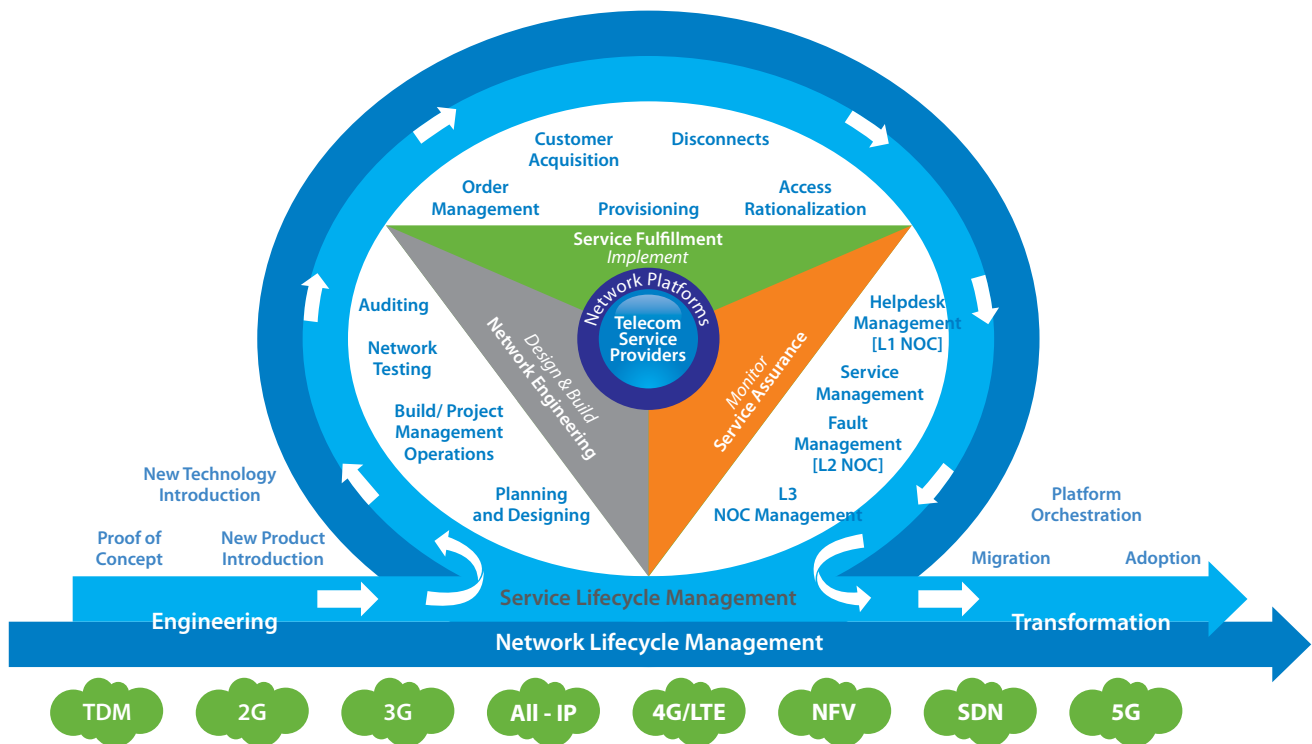


**Better time to market:** Enable faster roll-out of next generation network and services.



**Improved quality of service:** Offer improved services delivered through legacy and next generation networks, while pursuing complex network transformation initiatives.

## Overview of Next-Gen Networking Services



**Service platform implementation:** We provide development, migration, and system integration services over industry standard service layer platforms like Oracle Communications Services Gatekeeper (OCSG), Open Cloud (Rhino), and Broadsoft.

**Service creation and orchestration:** We offer new services like call screening, real time parental control, voice call continuity, and geo-location across service platforms and technologies. TCS also develops composite services based on the interaction logic of existing and new services using underlying frameworks.

**Service assurance:** TCS provides end-to-end interoperability testing of services with platforms, as well as post-implementation support.

## The TCS Advantage

We deliver value to CSPs through:

- **Domain expertise:** Our in-depth knowledge of the communications industry across the network and services lifecycle, combined with our agile development

methodologies, enables us to provide IT and business solutions that drive innovation and efficiency.

- **Solution accelerators:** Our ready platforms such as the TCS Hosted OSS/BSS Platform, Connected Device Management Platform, Hosted Collaboration Platform, and bespoke integrated tool suites such as the data migration toolkit, network test factory toolkit drive agility and efficiency. We offer a host of session initiation protocol (SIP)- and IP multimedia sub-system (IMS)-based applications.
- **Solution labs and Centers of Excellence:** Our investments in solution labs like the Private Cloud Center and Network Test Labs enable us to proactively develop solutions for next-generation networks. We have built Centers of Excellences (COE) with our key technology partners including Cisco, Ericsson, Intel, Redhat, NetApp, and EMC.
- **Flexible pricing model:** We offer pricing models as per operators' business requirements.



**Enhanced operational efficiency:** Achieve optimum operational efficiency in managing network infrastructure, while providing quality end-user experience.



**Seamless customer experience:** Minimize user experience impact during migration of services to upgraded network platforms.

## Awards & Recognition

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### To know more

Visit the [Communications, Media & Technology](#) page on [tcs.com](#)

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### About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is an IT services, consulting and business solutions organization that delivers real results to global business, ensuring a level of certainty no other firm can match. TCS offers a consulting-led, integrated portfolio of IT and IT-enabled infrastructure, engineering and assurance services. This is delivered through its unique Global Network Delivery Model™, recognized as the benchmark of excellence in software development. A part of the Tata Group, India's largest industrial conglomerate, TCS has a global footprint and is listed on the National Stock Exchange and Bombay Stock Exchange in India.

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