Horizontal
telco cloud

Single point of control over networks, applications, devices and data

HCL

The telecom business has become heavily commoditized over the past decade despite actively pivoting on the latest technological disruptions. While much is happening in the telecom landscape, the gains for telecom companies have been minimal. Instead, businesses dependent on telecoms, such as handset manufacturers, app developers, NEPs and OTT services providers have been reaping the benefits of a burgeoning industry.

Telcos have missed valuable growth opportunities mainly because of their monolithic infrastructure and operations models. The solution to this lies in a strategic approach to technology adoption that centers on innovations such as network function virtualization (VNF/CNFs) and zero-touch automation. By doing so, telecom firms can expand the scope of their business and support modern and emerging services.

Key transformation
aspects for telecom

The key to diversifying business opportunities lies in leveraging emerging technologies with a future-facing approach. For that, telcos need rapid and adaptive modernization on four fronts:

Application modernization and AI infusion
Making applications cloud-native at the code level; optimizing business processes with AI

Zero-touch automation
Orchestrating the telco network cloud across the core, access and edge networks for complete network and service automation

Edge computing and 5G readiness
Upgrading the infrastructure to leverage edge computing optimally and to accelerate and monetize 5G-based services

Security and compliance
Zero-trust enterprise cloud control with an open, flexible approach for airtight security and unwavering compliance

Prerequisites
for transformation

A hybrid, multi-cloud base that improves scalability while reducing an organization's carbon footprint is imperative for telecom firms looking for sustainable growth. And at HCLTech, we have architected the 'horizontal telco cloud' with these precise capabilities, potential and objectives in mind. The various layers of our horizontal telco cloud are:

Foundation	Red Hat OpenShift	Open, containerized platform for IT and network services
	Red Hat OpenStack	Open, infrastructure-agnostic network function virtualization
Technology	IBM Cloud Satellite	Single-point, as-a-service delivery platform
	IBM Edge Application Manager IBM Cloud Pak for Network Automation + IBM Cloud Pak for Watson AIOps + Red Hat Ansible + Red Hat Advanced Cluster Management	Edge-hosted data and application scaling Multi-domain service orchestration and zero-touch automation
	IBM Cloud Pak for Data + Watson Assistant	Location-agnostic data operationalization
	IBM Cloud Pak for Security	Insights into risks and threats for faster, automated response
Professional expertise	HCLTech Services and Products suite	Engineering and R&D, IT and business, ecosystems and products and platforms
	IBM and Red Hat partnerships	Telco hybrid cloud solutions

HCLTech's
horizontal telco cloud

A common infrastructure platform ensures consistency across estates from day one of deployment. Built explicitly for this purpose, our horizontal telco cloud fulfills the cloud-native goals of reusability of components, deployment, operations, monitoring, upgrades and more. Our service offerings across prominent telco transformation use cases include:

Application modernization and AI infusion
- HCLTech Managed OpenShift Platform
- RHEL migration offering – Migra8NXT
- Mainframe modernization
- ADvantage Cloud
- Kubernetes Migration Platform – KMP

Zero-touch automation
- POC-as-an-outcome
- 4G to 5G migration
- Data center development
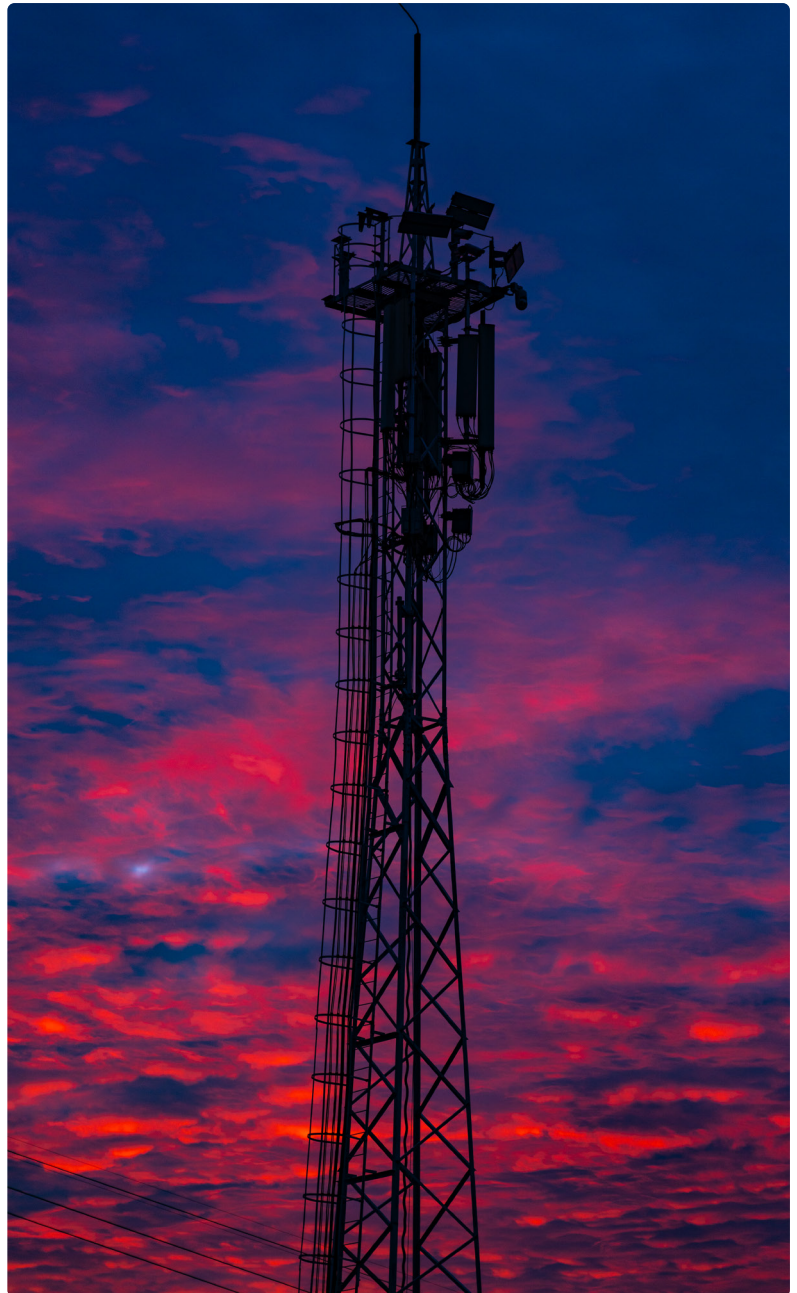- Network operations center

Edge computing and 5G readiness
- 5G/LTE private network deployment
- uCPE/SD-WAN

Security and compliance
- Container security-as-a-service
- Security operations center

Reach out to us for details and initiate your transition today.

For more information: https://www.hcltech.com/

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