

Accelerate delivery of edge and 5G

Network Transformation for Telecoms



Now is the time.

This is a generational opportunity for telecoms. It's time to make it real. Beyond providing pipelines and bandwidth, we're making edge services and 5G happen by delivering the capabilities, expertise and outcomes that customers demand at scale—more securely and efficiently with an IBM hybrid cloud architecture.

Industry insights

Telecoms are on the precipice of major digital transformation as new technologies such as edge, 5G and artificial intelligence (AI) come together.

Point solutions address one need, but they can add to the burden of already siloed operations that weigh down business.

Modernization is critical, but it must be done while managing cost and risk.

That means delivering innovative, value-added, industry-specific services to businesses.

Key objectives

Grow revenue with new edge and 5G services

Modernize the network and automate service delivery to cut costs and risk

Speed access to new capabilities and insights that improve digital engagement and retention of clients

Challenges

Deploying edge and 5G requires expertise to monetize the services and move from just being a "provider of the pipeline" to delivering higher-value business-to-business (B2B) services for different industries.

The process of delivering services across multigenerational networks is still manual, and siloed tools are making zero-touch service delivery impossible—especially as telecoms roll out edge and 5G.

Telecoms are dependent on an ecosystem of heritage partner capabilities—network equipment providers, business support systems and operations support systems—that are not yet optimized for cloud. They're slowing time to market for new capabilities and responsiveness to customer needs.

How IBM can help

Expertise

IBM has extensive expertise helping telecoms deploy and modernize their core networks.

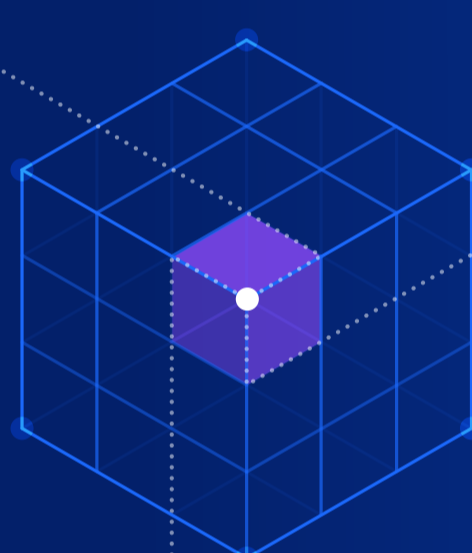
IBM has a rich ecosystem of alliances for add-on solutions and use cases that fit your specific needs.

We understand the need for delivering value-added services to the edge, with turnkey service architectures that help you get to market faster across industry verticals.

Our consultants and IBM® Garage™ teams can help you design and build a minimum viable product in just eight weeks.

Winning with hybrid multicloud solutions

Enable consistency based on a leading container platform, Red Hat® OpenShift®. Plus, gain a single point of control across infrastructures—private on premises, at the edge or on virtually any public cloud—with the [IBM Cloud Satellite™](#) offering.



Leverage agile DevOps capabilities to speed time to market for new edge and 5G applications, enabling a cloud-like experience practically everywhere that helps automate updates, scaling and compliance.

Support the needs of multigenerational networks with speed, and modernize your infrastructure with low-cost hardware on demand. Minimize lock-in from proprietary systems, leverage existing virtualized network functions and innovate faster with containerized network functions for access to cloud capabilities just about anywhere.

Automate. Monetize. Engage.

Zero-touch service automation:

[IBM Cloud Pak for Network Automation](#) is an AI-powered, telco cloud solution that enables the automation of network operations so CSPs can transform their networks, evolve to zero-touch operations, reduce OPEX and deliver services faster..

5G and edge service accelerators:

[IBM Edge Application Manager](#) automates lifecycle management of edge devices, applications and servers. The [IBM public cloud](#) offers cloud infrastructure and capabilities out to the edge and across the globe, with the confidence that your data remains your data. IBM service architectures accelerate monetization with predefined industry solutions and ecosystems.

AI and ecosystem modernization:

The [IBM Cloud Pak® for Data](#) platform with [IBM Watson® Assistant](#) technology enables consistent access and governance of data virtually everywhere. It provides the freedom to apply AI practically anywhere, close to the data, to more easily scale insights and skilled resources and automate interactions with clients.

What's possible?

Metrics are based on a Forrester Consulting Total Economic Impact study of IBM and Red Hat clients, commissioned by IBM.

33%

faster time to market for apps¹

30%

reduced resource requirements with modernized architecture¹

37%

reallocation of IT and ops admins¹

95%

reduction in unplanned downtime¹

Client spotlight

Vodafone

With IBM and Red Hat, Vodafone Idea is implementing India's first open universal hybrid cloud, supporting mission-critical near-real-time communication, telecom cloud and over-the-top content. It's enabling low latency services to more than 300 million clients and a projected capital expenditure reduction of 80 percent.

We're in the midst of a sea change in telecommunications.

This is a huge step, and there's a lot on your plate already. Find out how else we can help you.

No matter where you are on your journey, IBM Garage experts can help you accelerate your transformation.

[Take a tour](#) of IBM Garage tools today or get started with a complimentary virtual Garage framing session.

[Learn more](#)

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¹ Forrester Consulting (commissioned by IBM), *The Total Economic Impact™ Of IBM And Red Hat For Telecommunications*, June 2020, <https://www.ibm.com/downloads/cas/N7LZ42BW>. NOTE: Percent of admins reallocated is based on shifting 146 of 400 IT and operations administrators to other value-add tasks, such as innovation.

