







YOUR ENTERPRISE FUTURE BLUEPRINT

**MAKE YOUR NETWORK FIT
FOR THE DIGITAL-FIRST
FUTURE**

WHY SECURE NETWORK TRANSFORMATION IS NOW PRIORITY #1

The last year accelerated the speed at which customers adopt new, digital-fueled technologies. Now, as we reimagine business as usual for the hybrid world, secure network transformation has never been so critical. With more employees connecting to the corporate network from home, alongside the need to support those who are returning to physical premises, enterprises need to rearchitect towards a hybrid network that can support secure, performant access – from anywhere.

As businesses navigate the new remote-first, hybrid era, six key priorities are emerging, underpinning the need for network transformation to:

-  **Become cloud-first, internet-first** – ensuring performant, resilient access to enterprise assets
-  **Seamlessly connect to multi-cloud** – through a mesh of public and private networks
-  **Leverage on-demand network control** – to respond faster and most efficiently to change
-  **Converge network and security** – to manage risk and optimise performance
-  **Build a flexible network architecture** – for better manageability and security
-  **Deliver work-from-anywhere experiences** – with flexible connectivity to remote locations, branches, data centres and multi-cloud environments

This paper will highlight:

- 1.** Business priorities for driving change and success
- 2.** Network transformation and key business challenges in the new norm
- 3.** The Tata Communications solution for enterprises



ORGANISATIONAL DRIVERS TO TRANSFORM THE ENTERPRISE NETWORK

Enterprises are fast-tracking digital transformation efforts and realigning their key priorities to succeed in the new world order, resulting in increasing complexity in the core network architecture. The new working paradigm means building a seamless and secure network for the enterprise, its users, employees and customers, that enables:



Digital first strategy – Networks must be built to support future-proof digital transformation. With a digital-first approach and minimal in-person interaction, the ability to innovate, embrace new technologies, stay agile and adapt to changing business demands are the keys to success



Agility & cost efficiency – An agile network that can scale according to demand and offer lower connectivity costs – including more broadband and public internet access – is crucial, along with operational efficiency achieved by real-time monitoring to control network performance



Work from anywhere – With the rise of the hybrid workplace, achieving anywhere, anytime access to apps and collaboration platforms is a must. Use of the public internet exposes critical security, reliability and performance concerns



Zero-Trust Access – Software-defined security practices can ensure a consistent, reliable policy across WAN, LAN and the cloud, as well as supporting secure access to apps from all locations while preventing cyberattacks and loss of data



Improved customer experience and innovation – through a cloud-first network that ensures faster response times. Enterprises must look to improve employee experiences with seamless work-from-anywhere solutions and boost customer satisfaction with personalised services and predictable analytics



Increased revenue and lower costs – The network is the launchpad to expand and grow services in emerging countries and markets. While enabling processes, power collaboration and ensuring seamless access to enterprise applications from all locations, all at lower TCO

KEY NETWORK CHALLENGES IMPACTING BUSINESSES IN THE NEW NORMAL

An enterprise's network is the foundation of any digital-first business. But with a complex mesh of networks connecting to cloud-based apps, distributed data centres and hybrid workforces, connectivity is more important than ever and security more challenging. Traditional networks simply can't keep up.



Inflexible network architecture – Traditional networks can't handle changes to traffic patterns caused by the cloud, the Internet of Things (IoT) and mobility. Interoperability also hampers efficiency



Secure access concerns – Distributed, remote workforces and widespread use of public internet makes connecting to application data from anywhere risky



Sluggish application performance – Variable broadband performance due to several factors leads to inconsistent app performance for users



Inefficient multi-cloud connectivity – Multi-cloud connectivity requires traffic to be backhauled across the entire enterprise network, resulting in a lack of seamless connectivity for IaaS, PaaS and SaaS



Lack of visibility and control – Inflexible infrastructure results in long provisioning lead times, and slow responses to changing market conditions



Poor user experience for the hybrid workforce – Employees can't access critical applications and platforms from wherever they're working, hindering productivity

62%

of organisations are accelerating investment in remote working solutions¹

68.4%

of organisations are taking advantage of new technology solutions like remote access VPN and cloud-hosted apps to ensure secure remote access¹

60%

of enterprises will look for integrated solutions with advanced security features by 2023, embedding automation and intelligence tools to optimise and secure their core and edge network²

Source - 1. Enterprise Networking: Emergence of The New Normal Survey, IDC, December 2020; 2. Worldwide Enterprise Network Infrastructure 2020 Predictions, IDC

SETTING THE FOUNDATIONS FOR DIGITAL-FIRST SUCCESS WITH SECURE NETWORK TRANSFORMATION

Technology transformation is a continuous journey with no start or finish line. It's important for enterprises to ensure that they:



Improve user experience with a cloud-first, internet-first network

With access from any location and device over any connectivity, and lowering total cost of ownership at the same time.



Gain greater agility through on-demand network controls

Agility comes from control, and self-service portals and pay-as-you-go network services will give businesses the ability to flex their network to meet their business needs.



Elevate performance through seamless multi-cloud connectivity

Setting up individual connections is costly and complex, but cloud-to-cloud connectivity means businesses can seamlessly move data and workloads through a mesh of private and public networks.



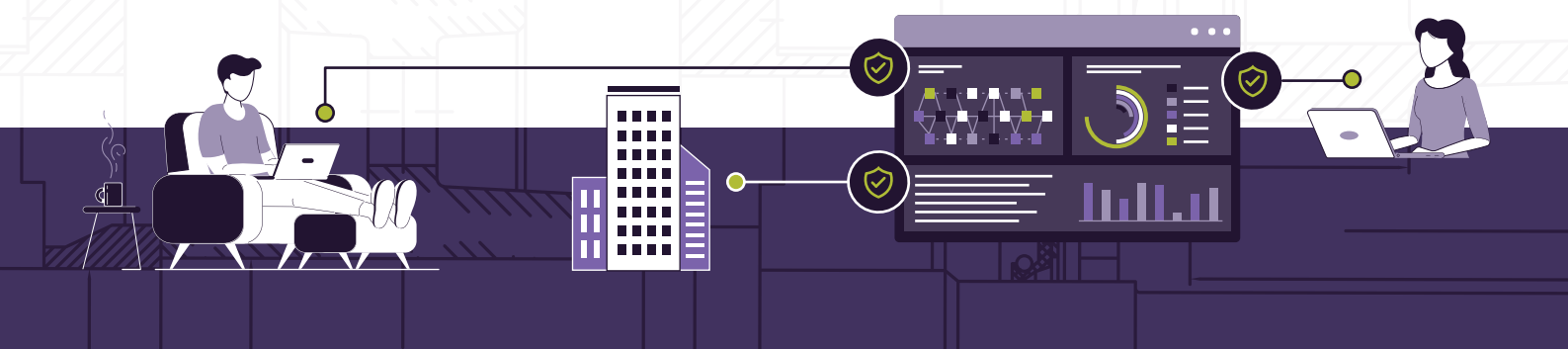
Complement cloud-first strategies by converging network and security architectures

By recalibrating security architectures, enterprises can integrate cloud-delivered security for continuous risk assessment.



Enable a truly work-from-anywhere experience

With today's hybrid workforce, enterprises need agile, flexible connectivity to branches, data centres and multi-cloud infrastructure. Backed by performant, zero-trust access to apps via public and private networks to safely boost productivity in a cloud-first era.



TATA COMMUNICATIONS – ENABLING ENTERPRISES TO TRANSFORM THEIR NETWORK JOURNEY



We can help businesses overcome the challenges and deliver an efficient, scalable and secure experience for users and applications leveraging private and public infrastructure. How do we do this?

01

Cloud-first, internet-first performant network

- Provide direct access from branches and remote sites to the cloud
- IZO™ Internet WAN for predictable, dependable, MPLS-quality internet
- IZO™ SDWAN for assured performance and lower cost of ownership
- NetFoundry for secure connectivity

02

Control your network

- IZO™ SDWAN's self-service portal gives enterprises greater control over critical functions
- NetFoundry's portal empowers enterprises to spin up new sites, apps and gateways quickly and easily
- Greater visibility ensures consistent, reliable network performance

03

Seamless multi-cloud connect

- IZO™ Private Connect delivers connectivity to leading cloud services with embedded security, such as AWS, Azure, Google, IBM, Oracle, Office 365, Salesforce, Alibaba and SAP
- We ensure the seamless movement of data and workloads between environments

04

Converged network and security architecture

- Improve network performance and reliability with integrated security
- Run continuous risk assessment across users, networks and applications
- Enable zero-trust access for remote workers across devices and location
- Eliminate complexity in branch with a scalable infrastructure

05

Hybrid workplace

- Performant and zero-trust access to applications via both public or private networks
- Remote access to applications can be fortified through NetFoundry or ZScaler solutions
- Spin up new, high-performing access points in just a few hours
- Embed zero-trust access to applications via public and private networks

A PROVEN PARTNER FOR SECURE NETWORK TRANSFORMATION

Tata Communications can help scale businesses across global boundaries with its assured, open, agile and secure network solutions ensuring super-strong connectivity. It takes a consultative approach to define the solutions keeping in mind an enterprise's current IT landscape, compliance requirements and budget constraints. A leader in the 2021 Gartner Magic Quadrant for Global Network Services for the eighth year in a row, Tata Communications has a proven migration experience of transforming networks for 60+ customers in 3000+ sites.



About Tata Communications

Tata Communications is a digital ecosystem enabler that powers today's fast-growing digital economy.

The company enables the digital transformation of enterprises globally, including 300 of the Fortune 500 - unlocking opportunities for businesses by enabling borderless growth, boosting product innovation and customer experience, improving productivity and efficiency, building agility and managing risk.

With its solutions-orientated approach, proven managed-service capabilities and cutting-edge infrastructure, Tata Communications drives the next level of intelligence powered by cloud, mobility, Internet of Things (IoT), collaboration, security and network services.

Tata Communications carries around 30% of the world's internet routes and connects businesses to 60% of the world's cloud giants and 4 out of 5 mobile subscribers.

The company's capabilities are underpinned by its global network, the world's largest wholly owned subsea fibre backbone and a Tier-1 IP network with connectivity to more than 200 countries and territories.

Tata Communications Limited is listed on the Bombay Stock Exchange and the National Stock Exchange of India.

For more information, visit us at www.tatacommunications.com

Contact us



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