



# NOW YOUR NETWORK CAN'T IGNORE YOU



## FULL VISIBILITY AND CONTROL OVER YOUR HYBRID CLOUD AND WAN FOR THE QUALITY PERFORMANCE YOU CAN COUNT ON.

IZO™ SDWAN ensures application performance and deployment flexibility for hybrid WANs using software-defined architecture across 130 countries, delivered as a managed service.

- **Improved user experience:** Its unique combination of software overlay and underlying hybrid network services with 20+ global cloud gateways ensures consistent quality performance of your enterprise apps - regardless of how or from where they are delivered.
- **Simplified IT operations:** It minimises total cost of ownership up to 30% by optimising bandwidth, taking complexity out of network management and provisioning, and deployed using industry standard x86 appliances supporting Virtualised Network Functions (VNF).
- **Enhanced visibility and control:** Comprehensive insight, pervasive security and total control allows you to dynamically evolve your hybrid network in step with your digitalisation journey.

IZO™ SDWAN shifts control back to the CIO

## CHALLENGES FOR ENTERPRISES WAN IN THE CLOUD AREA

The successful business is now digital. Digitalisation is enabled by apps in a hybrid cloud environment.

Problems arise when traditional WAN architectures loosely coupled with the public Internet, are retained to support this new environment. They struggle to deliver a consistent, high-quality performance of these apps among users - employees, partners or, most critically, customers.

**Indifferent network performance means indifferent business performance.**

More bandwidth is the default solution to poor network performance. However, this adds costs. Furthermore, with multiple network types delivering multiple service types that in turn differ from remote site to enterprise HQ, complexity is a given - and complexity too is expensive. As digitalisation takes hold, the cost curve can start to look very steep indeed.

Finally, the freedom and flexibility offered by the cloud and public Internet access create problems all of their own. It's hard enough to ensure consistent security across the your remote offices, not to mention the 'shadow IT' projects that can appear across the enterprise - of which the IT will have no visibility on the existing WAN.

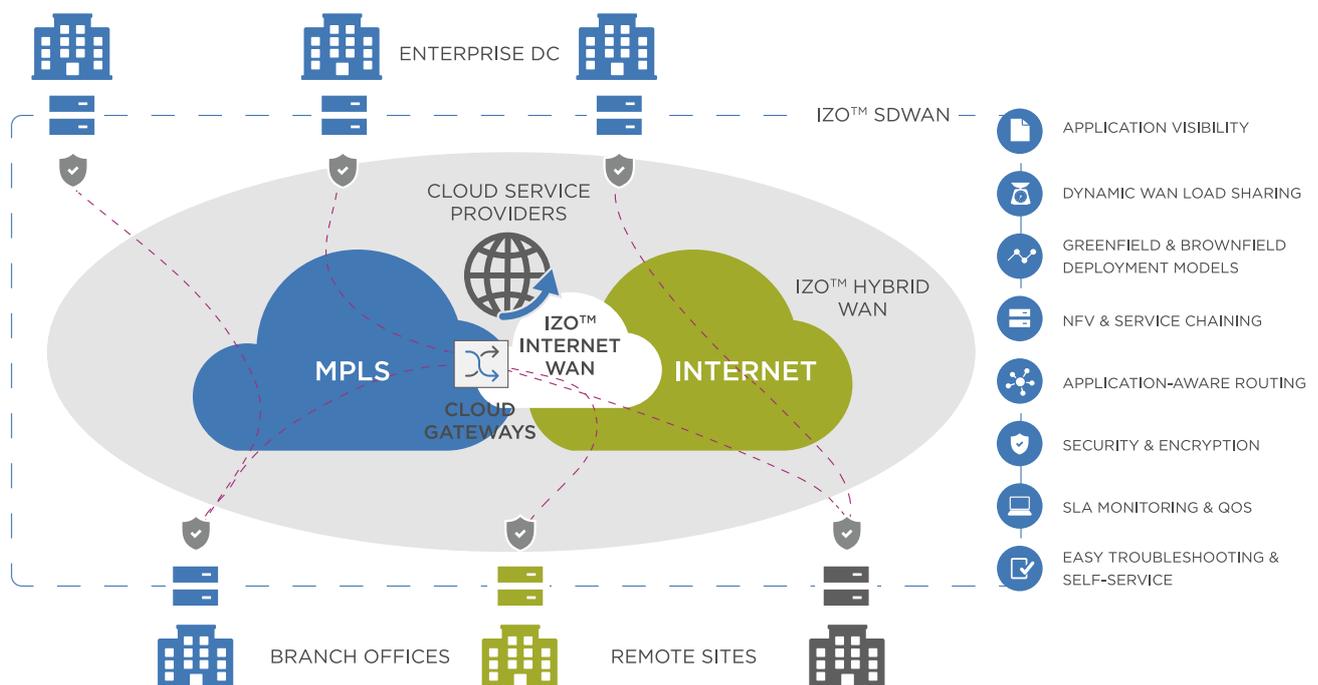
## WELCOME TO THE ULTIMATE IN HYBRID NETWORK CONTROL

IZO™ SDWAN's application performance is the result of a unique architecture where the software defined overlay fully leverages the underlying network capabilities of our IZO™ Hybrid WAN, which combines the power of Global VPN, IZO™ Internet WAN and IZO™ Private Connect.

Our IZO™ SDWAN solutions also have cloud gateways built globally, to serve as interconnect points to the Internet or to IZO™ Private Connect cloud partners, including Amazon Web Services, Google, IBM SoftLayer, Microsoft Azure, Office 365 and Salesforce.com.

With two versions of IZO™ SDWAN, you can benefit from using existing WAN hardware or create a greenfield, software-defined WAN.

- **IZO™ SDWAN Prime** is an in-house developed, patent-pending solution. It enables the transition from existing networks by bringing application-aware routing and congestion avoidance to Cisco-based WANs.
- **IZO™ SDWAN Select** uses industry-leading technology based on x86 edge devices as the platform for multiple virtualised network functions (VNFs) to create the next generation of WAN.



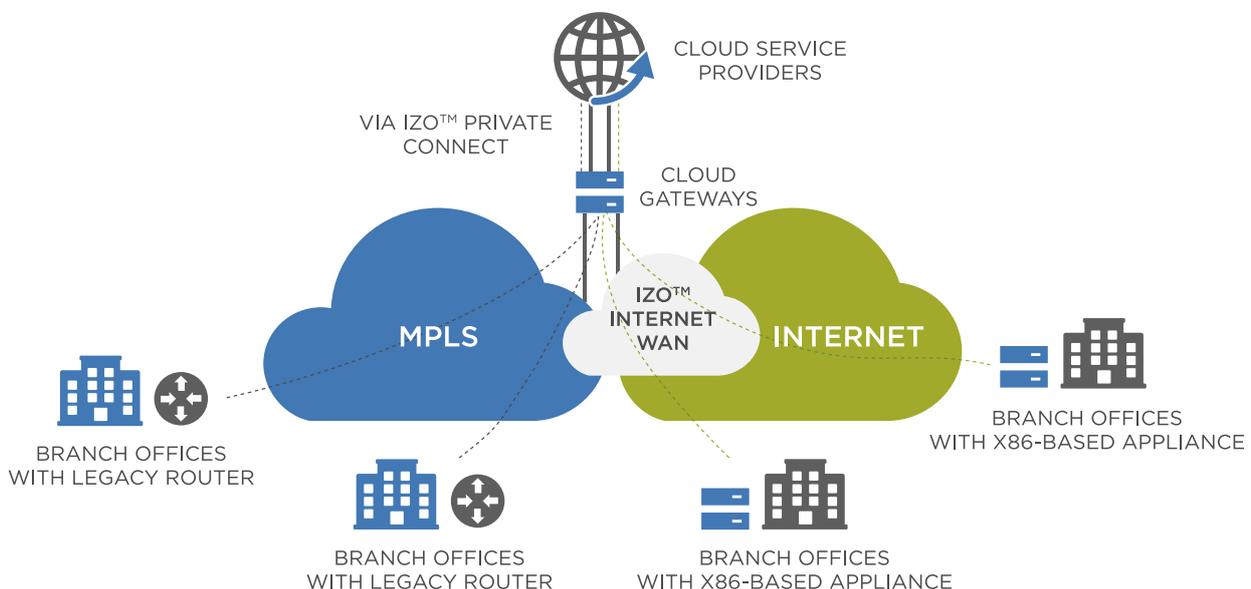
## THE IZO™ SDWAN DIFFERENCE

- **Improve user experience** with closely integrated overlay and underlay, leveraging your hybrid network infrastructure.
- **Deliver maximum performance** using quality of service (QoS), congestion avoidance, forward error correction (FEC) and performance-based application routing.
- **Simplify IT operations** with the use of x86-based edge device virtualisation along with zero touch provisioning, service chaining and centralised management which can be activated within 5 minutes.
- **Extensive analytics** and reporting, you gain visibility via your self-service portal, along with a dedicated service management team and periodic reviews of performance
- **Globally distributed cloud gateways** in 20+ locations on all major continents deliver the optimal path for end-user applications direct to the Internet or public cloud providers.
- **Reach multiple cloud providers** like Amazon Web Services, Google, IBM SoftLayer, Microsoft Azure, Office 365 and Salesforce.com.
- **Enhance protection** with cloud-based security and on-premise virtual firewalls, vUTM (IPS/IDS, anti-virus), URL filtering, DDoS mitigation and advanced encryption and consistent security policy across the entire network through centralised management.
- **Implement network routing policies** through a centralised management platform and standard templates – **instantaneously**.
- **Lower total cost of ownership** by up to 30% through right-sizing bandwidth and off-the-shelf devices.
- **Automatically detect over 2500 applications**, traffic patterns and diagnostic network problems.
- **Deliver a 24x7 service** to support and operate customer edge locations in over 130 countries from a centralised management system.
- **Streamlined processes** to help migrate to SDWAN through discovery, analysis, design and implementation of a bespoke solution.

## CLOUD SERVICE GATEWAY

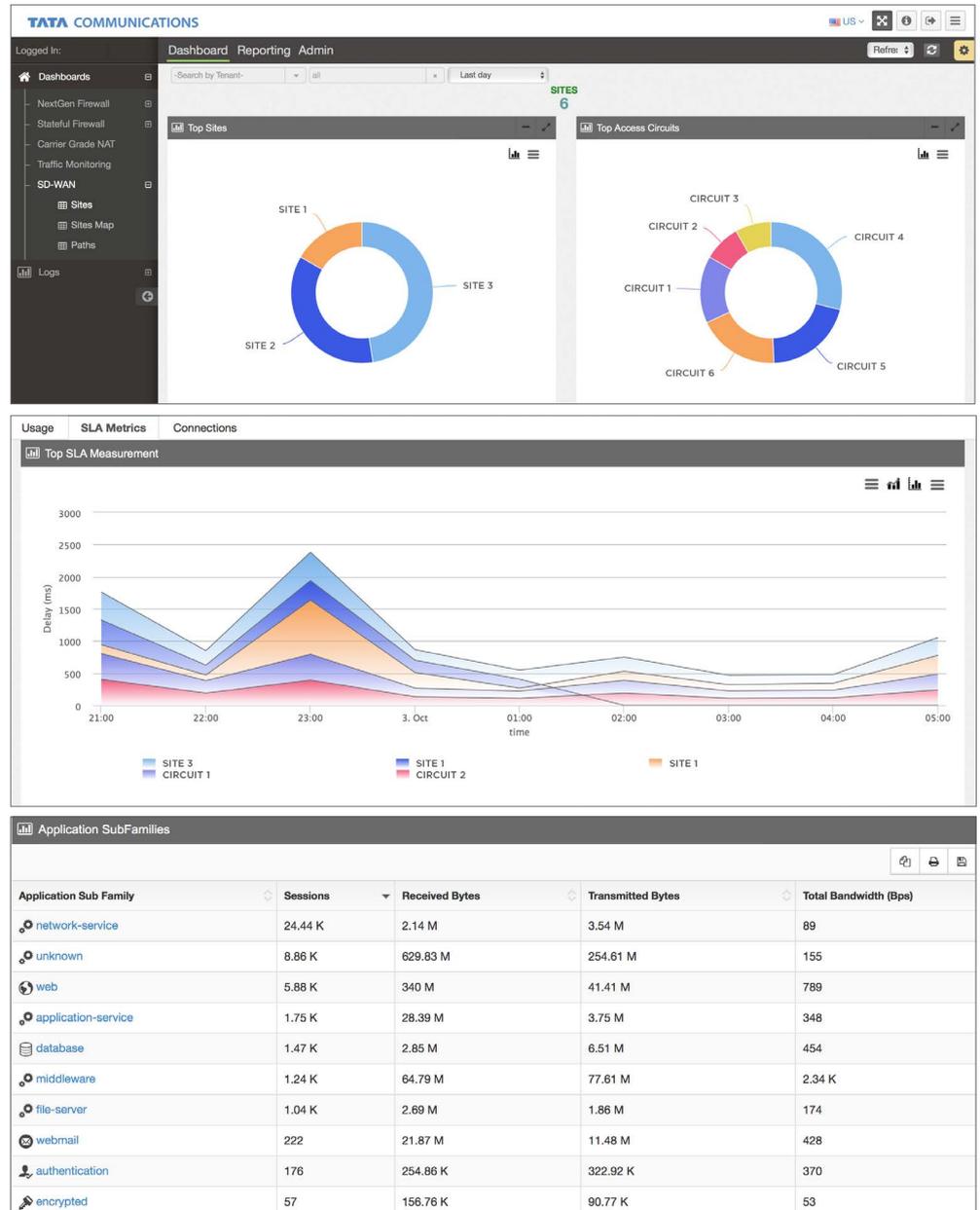
IZO™ SDWAN multi-tenant service gateways are built next to our IZO™ Private Connect data centres and route traffic to major cloud service providers. They serve different functions:

- Regional Internet breakout for IZO™ SDWAN sites
- Extending IZO™ SDWAN sites to IZO™ Private Connect cloud partners
- Gateway between traditional and x86-based network domains
- Connection from Internet to IZO™ Private Connect cloud partners or MPLS



## CENTRALISED MANAGEMENT, REPORTING AND ANALYTICS

The IZO™ SDWAN centralised dashboard provides complete visibility and reporting for all your sites, with real-time interactive data, enabling you to make quick decisions. The dashboard displays over 2500 applications, enables policy changes, detects traffic patterns and spots diagnostic network problems, before they affect you.



## THE TATA COMMUNICATIONS ADVANTAGE

IZO™ SDWAN has been created by the experts who manage the global network that carries 24% of the world's Internet routes. It leverages our global 700,000 km subsea and terrestrial network that includes the only, wholly-owned fibre ring to circumnavigate the globe.

The same experts will help you through a streamlined process to help migrate to IZO™ SDWAN through discovery, analysis, design and implementation of a bespoke solution.

They also provide periodic service reviews and consulting to ensure your solution stays in step with the needs of your digitalisation journey.

For more information, visit us at [www.tatacommunications.com/IZO](http://www.tatacommunications.com/IZO)

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