datacentrix

Software-defined WAN

Digital transformation

Superior user experience

Pervasive security

Agility

Innovation, integration and business outcomes. Datacentrix is acknowledged as a leading digital transformation partner. Our discovery methodologies and integrated technologies focus on delivering a superior user experience, security and compliance to future-proof organisations.

Superior user experience. User experience is the new design principle, increasing productivity, quality service and contextually-relevant experiences anytime, anywhere on any device or application.

Pervasive security. Advanced threat protection that safeguards organisations' most valuable assets - their data, systems, and customer and workforce experiences.

Agility. Digital transformation at a pace and price that suits your business.

Enable digital business

The wide-area network (WAN) plays a strategic role in enabling the digital transformation that's being driven by the Internet of Things (IoT), mobility and the cloud. It connects people, machines, things and data, and is fundamental for securing the relevance and competitiveness of organisations into the future.

Enterprise is under pressure to meet the growing bandwidth demands that supports cloud connectivity, new applications, and increasing volumes of mobile and video traffic. Inadequate bandwidth gives rise to WAN congestion; poor user experiences; slow response to business needs; potential security risks; and compliance failures.

A cost-effective opportunity for addressing these business challenges is to use the Internet to add primary or backup links to the network. The Internet has become a much more stable platform and offers attractive price-to-performance gains that organisations can harness.

Grow and compete with an intelligent WAN

Cisco® Intelligent WAN (IWAN) allows organisations to right size their network simply and at a low total cost of ownership. IWAN is a comprehensive set of traffic control and security features for the WAN that dynamically routes traffic prioritised by application, endpoint, and network conditions for best-quality experiences.

IWAN is built on the foundation of four pillars

Transport-independent design that enables provider flexibility to lower costs: The business can choose the combination of providers and connectivity that works best. IT can efficiently offload traffic onto the Internet while seamlessly scaling security to protect all branch endpoints.

Intelligent path control that maximises WAN utilisation: IWAN automatically routes network traffic to the best path to make sure applications perform well, avoiding oversubscription of lines and increasing return on investment. Dynamic routing decisions are based on the application type, policies and path status, balancing loads easily across multiple lines.

Application optimisation that enhances performance: WAN optimisation and caching help applications to run faster by giving IT full visibility and control at the application level. This allows IT to determine what traffic is running across the network, tune the network for business critical services and quickly resolve network issues. Advanced compression and de-duplication are applied to help applications perform better with the smallest load possible.

Secure connectivity: The proven technology prevents attacks with a highly secure virtual private network (VPN) overlay and strong encryption techniques. IT can simplify VPN connections across all sites and users to deliver high performance with high security. IWAN enables direct Internet access, while protecting all branch endpoints without managing client agents.

DESIGN METHODOLOGY THAT DRIVES SUPERIOR USER EXPERIENCE

Datacentrix value add
Applying proven methodologies and an architectural approach to achieve a user-based outcome.

Building a future-proof network
Transforming and optimising business networks using information from the network's current state to influence the network design and harness digital efficiencies.

Datacentrix partners with its customers on a journey of discovery that plots the activities to achieving a user-based network. The proven methodology maps out their network's existing state and the journey required to achieve an end state that aligns with their business strategy to future-proof the organisation and to deliver the desired business outcomes. The discovery process is driven by user experience as the principle design consideration.

DISCOVER
- Business continuity
- Cost analysis
- Bandwidth analysis
- Quick win identification
- Data collection; processing and analysis
- Security
- Service providers
- Understand business strategy

DESIGN
- Findings from the discovery
- Operational efficiencies needed
- Supportability
- Agility and sustainability
- New functionalities
- Cost
- Risk and compliance
- Security
- Outcome-based design

DEPLOY
- Migration with no or little user impact
- Automation and orchestration
- Programme governance

STABALISE
- Execution of test plans
- Proactive monitoring of service
- Transition phase and tactical response team
- Acceptance & release into operations

OPERATE
- Efficiency monitoring
- Training and adoption
- Operational empowerment
- Continuous improvement
- Operational benefits

Simplified service virtualisation and branch automation

IWAN makes it easy to deploy WAN services to branch offices. Simply add WAN optimisation and security services on demand and modify them as needed, without having to do it box by box.

Deploy branch offices quickly: Automate configuration and centralise the management to set up new branches in minutes.

Simplify SD-WAN management: Choose a physical or virtual deployment model to easily provision and maintain WAN services.

Deliver a great user experience: Deploy new applications in minutes and get faster performance using less bandwidth.

Accomplish business outcomes through WAN transformation

Digital transformation necessitates having the right network architecture to achieve superior experience, pervasive security and compliance. Today's competitive landscape demands the digital business to not only accomplish these business outcomes, but also to do so at reduced risks and costs.

Business outcome	IWAN components	Description
Potential WAN service savings of 50% or more as you grow bandwidth	Transport independence	Works across a wide variety of access link types
Bandwidth optimisation that delays new investments and avoids oversubscription of lines	• Intelligent path control • Advanced data compression and de-duplication	• Dynamically routes traffic over the best-performing path and in accordance with your policies • Minimises traffic volumes sent over the WAN
Excellent, consistent user experiences ** Requires Cisco IWAN with Akamai Connect*	• Application-level visibility and control • QoS • Local content caching*	• Lets you supply different priorities and bandwidths to traffic flows based on the application type and requirements • Keeps content local for faster access
Secure Internet connectivity and direct Internet access in the branch	• Cisco Dynamic Multipoint VPN • Integrated firewall • Cisco CWS	• Applies "secure VPN" (IPsec authentication and encryption) over Internet links • Protects access links from man-in-the-middle and malware attacks • Avoids traffic backhauling to the data centre to apply security policies and filter traffic

Benefits of IWAN

IWAN allows organisations to extend their network, using the Internet and other lower-cost links, and get reliability without trading performance or security levels. It scales to all branch-office sizes over any transport and reduces the cost of WAN circuits by half the cost of premium VPN services.

- Deliver premium-grade network experiences and maintain capabilities such as traffic control; quality of service (QoS); security; WAN acceleration; and VPN tunnelling, using low-cost internet bandwidth.
- Confidently roll out critical business services such as guest Wi-Fi, BYOD (bring your own device), Software as a Service (SaaS), video and new applications, to branch offices without slowing down the WAN.
- Avoid backhauling branch traffic to the data centre.
- Maintain granular control from the branch office to the data centre and out to the public cloud.
- Protect all branch-office endpoints from threats with proven security.
- Simplify branch operations with rich application services on a single, multi-service networking platform for all WAN control functions.
- Expand to thousands of sites without an equipment change.
- Reduce the monthly WAN services bill without reducing security, performance, or reliability.
- Get return on investment in a matter of months.

Flexible deployment

No matter what deployment model you are using, or want to move to in the future, Datacentrix can support you every step of the journey, ensuring that you get the most value from your WAN investment.

Managed services: Datacentrix helps organisations to manage their IT infrastructure and systems in line with their business strategy by offering comprehensive managed services, including network architecture services; network optimisation services; and technology solution support services.

Managed on premise: Organisations who want customisation and open APIs for third-party integration can opt for a managed on premise deployment model.

Managed in the cloud: Customers, specifically with leaner IT teams that are under pressure to do more with less, will benefit from the managed in the cloud model.


Driving superior user experience with Datacentrix

Datacentrix helps organisations navigate the ever-changing technology domain and its relation to the evolving WAN, software-defined WAN capabilities, business considerations and WAN architectural elements for an optimised digital business network that delivers superior user experiences.

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Technology partner
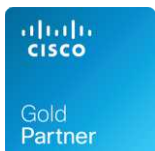
Datacentrix in an experienced Cisco Tier One Gold Certified partner, a Cisco Gold Channel Partner, and an Advanced Technology Partner (ATP) in Video Telepresence, Identity Services Engine and Advanced Collaboration. The company is acknowledged for its technical expertise and received a Cisco Partner Summit Africa award for Commercial Partner of the Year for its outstanding achievement as a Cisco channel partner in Africa in 2016.

About Datacentrix

Datacentrix is a complete ICT systems integrator, providing solutions and services across the full information value chain to its customers. The company uses leading technologies to drive customer business strategies, unlocking efficiencies and empowering meaningful business insight.

Our most valuable assets are captured in the minds and spirit of our people. Every person at Datacentrix is a critical part of our service delivery model and our strategy for generating sustainable value for our customers and stakeholders.

We value partnerships and go the distance to establish trusting, lasting customer and stakeholder relations. Our longstanding affiliations and accreditations with our technology partners enable direct access to technology using the shortest channels.

It's our passion for excellence that drives our innovative and flexible solution design. Datacentrix' value-driven strategy and proven execution capability reinforce its position as one of the top ICT players in the local market.

Corporate office	**Logistic centre**	**Cape Town office**	**Port Elizabeth office**	**East London office**	**Durban office**
Corporate Park North	26 Landmarks Avenue	18 Oxbow Crescent	175 Cape Road	8-10 Winkley Street,	Ground Floor, 6 The Terrace
238 Roan Crescent, 1685	Kosmosdal, Extension 11	The Estuaries	Mill Park	Chesswood Office Park	Westway Office Park
Old Pretoria Road, Midrand	Samrand, Midrand	Century City, 7441	Port Elizabeth	Block B, Berea, East London	Westville, Durban
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