

Why Managed SD-WAN is an Enabler for Digital Transformation

A white paper exploring the importance of SD-WAN for digital transformation.

Whitepaper



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Foreword

Digital Transformation is perhaps the most widely used term in today's business vocabulary and with good reason. It has the power to make or break organizations. Organizations of all sizes and in every sector have embarked upon some form of digital transformation (DX) initiative. DX is now widely understood from business outcomes and from the high-level technology perspective. However, what most people fail to recognize is the importance of the underlying connectivity layer. A well-designed enterprise WAN can support successful DX initiatives. However, a poor WAN architecture for cloud, big data and mobile has the potential to derail the process.

IT leaders today have a good understanding of the role that technologies like cloud, big data, social and mobile play in digital transformation. These higher-level technology stacks get most of the attention, while foundational areas like enterprise WAN connectivity are often ignored.

In the pre-digital transformation era, the CIO was the sole decision-maker in all technology-related issues. This traditional decision-making structure has unravelled with the arrival of new stakeholders, in particular, the Chief Marketing Officer and the Chief Digital Officer. As marketing and sales departments become more digitally savvy, CMO's are signing up for marketing clouds, sales clouds and other SaaS applications without the involvement of the CIO.

The importance of digital transformation has prompted many organizations to create new positions like the Chief Digital Officer (CDO). CDOs work closely with departments such as supply chain, logistics, manufacturing and others to implement focused digital initiatives. Often, these initiatives are billed as business projects; therefore, they don't fall under the broader corporate IT portfolio.

Without the CIO's participation, the impact of these shadow IT projects are not factored into the WAN design, leading to poor application performance and customer satisfaction.

This white paper intends to explore the most popular and exciting applications of digital transformation in various industry sectors and assess the impact of these changes on the enterprise WAN. We explore the drawbacks of traditional WAN architectures and understand how a managed SD-WAN service can overcome some of these challenges.

Finally, the paper hopes to highlight the perils of embarking on a digital transformation initiative without considering its implications on the enterprise WAN infrastructure.

Digital Transformation is Driving Network Transformation



A look at what digital transformation means for different sectors of the economy. Understand the key areas of digital transformation and its implications for the enterprise WAN.

Irrespective of the sector, the key Areas of digital transformation Are customer centricity, operations and new business Models. Each of these areas has a huge impact on the volume, variety And velocity of traffic on the Enterprise wan.

The exact nature of digital transformation varies by sector, but, irrespective, the overall business outcome can be summed up under three areas, namely Customer Experience, Operations and Business Models.

Customer Experience

Customer experience has always been central to businesses; to gain a better understanding of customers, firms relied primarily on market research, and customer surveys conducted offline with a small representative sample space. However, now, with the almost universal adoption of social media and other digital channels, organizations have the opportunity to reach customers directly, thus enabling them to understand customers better and ultimately deliver better products and services. Digital channels also provide more direct and real-time feedback that traditional market research never did. To fully exploit this opportunity, firms need a robust IT infrastructure built on a solid enterprise WAN foundation to deal with the terabytes of data collected from these interactions.

Operations

Customers in this day and age are spoilt for choice. Social media and a plethora of digital channels certainly give organizations a solid understanding of customer requirements. But to act on those requirements and deliver the products and services requires operational efficiency and agility. Operational agility is achieved in several ways; the move from on-premise data centers to data centers in the cloud and adoption of Software-as-a-Service are some of them. Others include the use of big data analytics to generate business insights or the deployment of IoT in areas such as logistics and supply chain management.

Adoption of these new technologies has a direct impact on the enterprise WAN. The WAN must now be capable of carrying vast amounts of data while having the ability to distinguish business-critical application data and real-time data from non-critical ones.

New Business Models

The industry landscape is replete with examples of companies that once dominated their sectors, only to be beaten by nimble startups with innovative business models. Uber, a taxi company that owns no cars, and Airbnb, that owns no hotels, come to mind. Apple's iTunes and Netflix are both examples of companies that reinvented the business model and went on to dominate their respective sectors. However, look closer, and it is not difficult to spot the role of technology in these achievements. Netflix would never have achieved its success without cloud based systems. The much admired and often copied Netflix recommendation system relies on a cloud architecture for collecting, saving and analyzing massive amounts of customer data. None of this would be possible without a robust enterprise WAN.

Digital transformation is resulting in a huge increase in the data that transverses the enterprise WAN. This data increase comes from two sources, information technology (IT) systems and operational technology (OT) systems. IT is used for data-centric computing while OT is used to monitor events, processes and devices and make adjustments in enterprise and industrial operations. Traditional MPLS networks were designed to handle IT traffic primarily from the user to the in-house data center. Owing to the rapid adoption of Software-as-a-Service, most WAN traffic is from the network edge to the cloud provider. Traditional Enterprise WAN architectures were never designed to handle this volume, variety and velocity of this traffic.

One way to deal with this data tsunami is to add broadband Internet to the mix. Though this solves the bandwidth challenge, latency and packet loss issues remain. As much of the data carried over the enterprise WAN is mission-critical and real-time, latency is an aspect that cannot be ignored. Hence, broadband as a replacement for traditional MPLS is a non-starter.

Technologies like social, mobile, big data analytics, cloud and IoT help organizations improve customer experience, simplify operations and introduce new business models. The massive amounts of data collected, stored and analysed by these technologies requires a robust enterprise WAN.

However, when integrated with care, the Internet can reduce the load on the enterprise WAN by providing an alternate path for non-critical traffic. This kind of hybrid architecture is only possible with SD-WAN. SD-WAN is not just a new WAN technology, but a fundamental re-imagination of the WAN architecture that makes digital transformation possible.

In essence, the key deliverables of digital transformation namely, customer experience, operational excellence, and new business models are achieved through the deployment of innovative new technologies and these technologies, in turn, requires a robust enterprise WAN infrastructure.

In the following sections, we take a sector-wise approach to DX and explore how SD-WAN enables digital transformation.

SD-WAN Enabling Digital Transformation in Manufacturing

Digital transformation in the manufacturing sector and its implications for the enterprise WAN..



Digital transformation initiatives in manufacturing are finally catching up with their peers in other sectors. Initiatives like smart factories, industry 4.0, AI & ML are gathering pace, but so is the data tsunami hitting the enterprise WAN. Dealing with this data deluge while ensuring great performance for mission-critical applications is a challenge that can be addressed with SD-WAN.

Once seen as a laggard, the manufacturing sector is now in the cusp of change. According to Research and Markets, digital transformation in manufacturing is expected to register a CAGR of over 16% from 2019 - 2024. Digital transformation is being incorporated into every aspect of the manufacturing process, from the factory floor to R&D, supply chain, logistics, operations, sales and marketing. The essential trends driving digital transformation in this sector are the deployment of industrial internet of things, cloud adoption and big data.

Smart Factories

where the end-user customizes and perhaps even designs certain aspects of a product. The manufacturing chain is then smart enough to tailor the production process to the needs of that customer. We are still in the era of mass manufacturing and economies of scale, and perhaps even decades away from customising individual products to client requirements. Though to be fair, the automotive sector does allow some level of customization. It is now possible to select the color, interiors and other aspects of a car. Today, smart manufacturing is focused on the introduction of Industrial IIoT in the factory floor, integrating it with supply chain systems and production systems. IoT can provide real-time feedback and alerts; with predictive analytics, it can even flag faults before they occur. These critical yet straightforward implementations of IoT reduce cost and waste. Given the scales involved in manufacturing, even a single percentage saving can result in enormous benefits. However, integrating IoT into the manufacturing eco-system results in an enormous increase in the amount of data carried over the enterprise WAN.

Big Data, Artificial Intelligence and Machine Learning

Where there is data, there is data analysis. The benefit of IoT and smart factories is the availability of vast amounts of clean, structured data. Not many sectors can boast of having access to such high-quality data. AI and ML algorithms are used to streamline supply chains, predict and prevent faults before they occur. For manufacturers, sensor data from the factory floor is not the only source of data. The real benefits accrue when this data is combined with information from marketing, sales, customer service and other departments. Collecting, storing and analysing this volume, variety and velocity of information is an enterprise WAN challenge, a challenge that traditional WAN architectures are not designed to handle.

Manufacturing Execution Systems Moving to the Cloud

Cloud migration is a recurring theme that we have seen in all industry sectors, be it retail, banking, healthcare or manufacturing. Today SaaS applications like Office365 or Salesforce are ubiquitous. However, what makes the cloud both challenging and exciting for this sector is the migration of manufacturing execution software (MES). MES is critical software that enables global manufacturers to manage and control manufacturing and shop floor operations, and provides access to real-time manufacturing data to make quick and informed decisions. The situation becomes even more impressive when you consider that the factory may be located in China, Taiwan or Japan, while the designers and managers are located in the US or Europe. Transferring plans and other information between these locations is bandwidth-intensive activity.

When such critical systems are spread geographically and operate in a Software-as-a-Service model, the enterprise WAN that connects them becomes very critical.

WAN Transformation

Vast amounts of data from connected smart factories, manufacturing execution software migrating to the cloud, integration of sensor information from the factory floor with other forms of organisational information into big data clouds all point in one direction; the data tsunami bound for the enterprise WAN. Prioritizing mission-critical data amidst this data deluge, securing and isolating the IoT devices as well as providing a low latency path are requirements that are addressed only by a WAN architecture that is agile, fast and secure. SD-WAN can accelerate critical applications, segment sensitive data into its pipe and provide a low latency path for real-time data traffic.

“We now have the infrastructure in place to handle the upcoming cloud migration, and can deliver data and applications to every enduser, as if it lived in this local data center. We’re able to provide our customers with machine tool information, and pricing, in a much faster rate. Instead of taking six to seven hours to get that information from Japan, we were able to provide that to our customers within 20 minutes.”

Glenn Hensley, IT Infrastructure Manager, Makino.



As a global leader in metal-cutting and manufacturing with locations in Europe, North America, Japan and other regions of Asia, Makino needed a better way to expediate the exchange of massive schematics between distributed R&D groups and tech centers.

What’s more, the company plans to move 90% of its applications to the cloud, so it needed a WAN option that would guarantee application performance and accommodate that migration. Although Makino had used WAN Optimization hardware to try to meet its performance needs, deployment was cost prohibitive and difficult to scale or manage. They also looked at Internet-based SD-WAN options, but realized latency issues between the United States and Asia locations would scuttle performance. Instead, Makino went with a fully managed SD-WAN as-a-Service with the features mentioned above. This resulted in dramatic improvements. Files that used to take 6-7 hours to synchronize, now take 22 minutes. New sites may be added to the network in 2-3 days, compared to the weeks and months it would take with MPLS. And the company now has the platform in place to painlessly accommodate the shift to the cloud.

SD-WAN Enabling Digital Transformation in Healthcare

Digital transformation in the Healthcare sector and its implications for the enterprise WAN.

The healthcare sector holds Great potential for digital Transformation. Ai & ml in drug Discovery or adverse event Detection can significantly Reduce the cost of drug discovery. But these technologies have a huge impact on the enterprise wan. Ensuring patient data security While connecting remote clinics Is a challenge best addressed by SD-WAN..

Digital transformation in the healthcare sector can range from electronic patient records and remote medicine in the hospital and care environment, to the use of machine learning and artificial intelligence in drug discovery or the detection of adverse event signals as part of real-world evidence initiatives.

Hospitals and Clinics

A significant part of digital transformation initiatives is in the area of Electronic Health Records (EHR), their storage and retrieval. The main challenge for this sector is the protection of patient data while providing access to patient records, which may include bandwidth-intensive information like medical imaging and X-rays. This task becomes particularly challenging when you consider that most healthcare organizations have far-flung urgent care clinics and individual doctors' offices.

Patient data must be accessible from all the locations in a secure yet fast manner. While EHRs may be more forgiving of latency; speed, security and reliability are of great importance. The challenge with traditional MPLS networks is that they may not be available in all remote locations.

IoT and Connected Medicine

Modern hospitals are hi-tech environments with tens and hundreds of sensors that monitor all manner of things from heart rate to blood pressure and temperature. A patient may be hooked up to as many as 20 sensors; data from these sensors are not just business-critical but life-critical. SD-WAN is particularly suited to this environment, given its low latency and ability to effectively prioritize critical traffic.

Drug Discovery Moves to the Cloud

Drug discovery is a surprisingly compute-intensive process; medical professionals use specialized software to aid in the discovery process. OpenEye's Orion is one such software that is hosted on an AWS cloud and offered in a software-as-a-service model. Moving the software to the cloud gave the company access to almost unlimited memory and computing power. However, customer access to the software was primarily over the broadband Internet. Not surprisingly, customer experience deteriorated despite the availability of multiple CPU cores and vast amounts of memory; the issue was one of connectivity.

SD-WAN architectures with direct access to AWS IaaS can provide fast, secure and reliable connectivity to these applications, thereby improving the customer experience.

WAN Transformation

The healthcare sector has unique and almost conflicting demands of the enterprise WAN. On the one hand, it must connect far-flung remote locations while being agile, fast and secure. It must transport bandwidth-intensive data like medical images just as efficiently as carrying bursty latency-sensitive data from medical devices and sensors. Meeting such high demands is only possible by fundamentally rethinking the traditional WAN architecture and deploying a SD-WAN.

“Our mission is to re-humanize health care and revolutionize the doctor-patient engagement using wearable technology/IoT. We now experience significantly improved application performance, low and stable latencies over the network, and better quality of service thanks to our reliable and fast global connectivity platform.”

Venkat Kankipati, VP and Head of IT, Infrastructure



Healthcare technology company Augmedix enables doctors to use wearable technology, like Google Glass, to communicate in real-time with scribes located in India, who document patient electronic health records. Effective use of this technology requires real-time synchronization between the U.S. and India data centers.

Augmedix chose to transform their network with a global connectivity solution that provides real-time application and data delivery, plus improved security over a software-defined Layer 2 core. Use of this global network improved TCP connections 100x and reduced latency.

SD-WAN Enabling Digital Transformation in Retail

Digital transformation in the retail sector and its implications for the enterprise WAN.



Digital transformation in the retail sector has enabled many innovative ways to engage with customers like re-imagining the in-store experience, enabling omnichannel experiences, use of beacons, iot devices and augmented reality. SD-WAN is the only technology that can cater to the demanding needs of this sector.

Retail is one of the sectors that is most affected by digital transformation. Customers in the retail segment are among the most demanding. Expectations like omnichannel experiences, online purchases, mobile apps, and loyalty points are commonplace. For this sector, DX is about customer-centricity, new business models, streamlining operations, managing inventory and supply chains.

Reimagining In-store Experience

Gone are the days when the sole purpose of a retail store was to stock and sell goods. Today's retail locations are experience centres nudging customers along the purchase cycle by providing the right kind of information through the right channels. Retailors are weaving in technologies like Augmented Reality and some cases, even Virtual Reality to keep customers engaged. Customer access to the Internet is considered part of the shopping experience.

Apart from these customer-focused technology initiatives, retail stores are also migrating to SaaS applications, further adding to the bandwidth needs of the store. Connectivity needs for modern retail stores range from cloud connectivity for point-of-sales applications, Mobile PoS, AR and VR systems, security camera uplinks, and in-shop Internet for customers.

The presence of so much connected technology necessitates a fundamental rethink of the retail WAN design and architecture. Further, the solution must differentiate between business-critical traffic such as from the point-of-sales machines, and from non-critical traffic like customer Internet access. Real-time traffic from security cameras and VoIP applications present an additional level of complexity.

In the retail sector, it is common practice to set up temporary kiosks for special occasions or in areas of large footfall like exhibitions, trade shows and other events. For these scenarios, the speed of deployment of the enterprise WAN is critical.

Marketing and Omnichannel

Another area of innovation for the retail sector is the omnichannel experience. It is common for customers to start their purchase journey on a mobile app, followed by a visit to the physical store and finally, an online order that is picked up at a convenient physical store location.

To make this complicated customer journey possible, a variety of connected technology pieces like mobile apps, backend CRM systems and big data analytics systems have to come together. Ultimately, much of this data traverses the enterprise WAN.

Logistics and Supply Chains

The Just-in-time paradigm once popularized by Toyota in its production system is now widespread in the retail sector as well. The lack of supply chain visibility can lead to understocking or overstocking of SKUs at store locations. Technology enables an accurate and timely view of stock across all stores, thus increasing efficiency, reducing costs and mitigating risks. A digital supply chain ensures superior collaboration and extensive information availability, resulting in improved agility, reliability and effectiveness. RFID, BLE and other emerging IoT sensors have been instrumental in enabling such digital supply chains. Again, these technologies transmit vast amounts of bursty data that travels through the enterprise WAN.

WAN Transformation is Critical for Retail

Today's retail stores are not stand-alone brick and mortar locations; they are connected experience centers loaded with technology innovations. Connectivity needs include the ability to segment and assign priority to data traffic, offload customer browsing data to the Internet and connect temporary kiosks on the fly. A traditional WAN network is not capable of addressing these complex needs. SD-WAN is perhaps the only solution that can cost-effectively enable digital transformation in this sector.



Skullcandy is a brand that takes great pride in inspiring life at full volume for its customers by pushing the boundaries of culture, sport, music, gaming, and fashion. Its headphones, earbuds, and Bluetooth speakers are the rage for millions of dedicated customers worldwide.

Employees reported poor application performance, and IT discovered high network latency across eight globally distributed offices in seven countries, including China, Japan and Germany. Skullcandy was quick to react.

One of the biggest problem areas involved the company's SAP Business ByDesign deployment, a software-as-a-service (SaaS) ERP application that touched multiple departments and operations. But the problems didn't end there. Skullcandy also had slow performance and frequent disconnects because of high latency for its Cisco TelePresence application. This disrupted virtual meetings, impacting staff productivity and impeding collaboration with business partners and customers. Additionally, file transfers were slow, and performance and connectivity for other applications used for project lifecycle management (PLM) and remote desktop protocol (RDP), as well as Microsoft SQL Server and SharePoint deployments, were unreliable.

Skullcandy sought to replace its legacy MPLS with a next-generation solution that would improve application performance, minimize latency, and achieve consistent, reliable connectivity. Compared to its legacy MPLS solution that took months to roll out, Aryaka SmartCONNECT was deployed in a matter of a few days. This provided Skullcandy with much greater flexibility when expanding operations by adding more offices or making changes with existing locations. The results were immediate and lasting. SAP Business ByDesign performance improved 10x. Connectivity failures and performance problems with TelePresence, PLM, and RDP applications were eliminated. The time required for file transfers decreased substantially, and issues of instability with the company's SQL Server and SharePoint deployments were eradicated. Contributing to the above results was a 93% reduction in data across all applications.

SD-WAN Enabling Digital Transformation in Banking and Finance

Digital transformation in the banking & finance sector and its implications for the enterprise WAN.



From digital branches to hi-frequency trading, banks are at the forefront of digital transformation. But this is also a sector that is paranoid about security. Thus their environments are invariably a mix of private and public clouds. SD-WAN is the enterprise wan architecture that is flexible yet secure and is built for multi-cloud environments..

Much like their retail counterparts banks, financial institutions, and insurance organizations are implementing digital in a bid to improve customer experience, expedite processes and improve operational efficiency.

A recent survey by Aryaka and the Cloud Industry forum (CIF) revealed that 78% of financial services businesses either have a digital transformation strategy, or are currently implementing one, and almost all expect to have a digital transformation strategy in place within the next two years, as they seek to counter rising levels of disruption. However, there are doubts about how effective these strategies will be, with six in ten (61%) reporting that their digital transformation strategy could be clearer, and a similar proportion (64%) stating that they lack the skills they need for successful transformation.

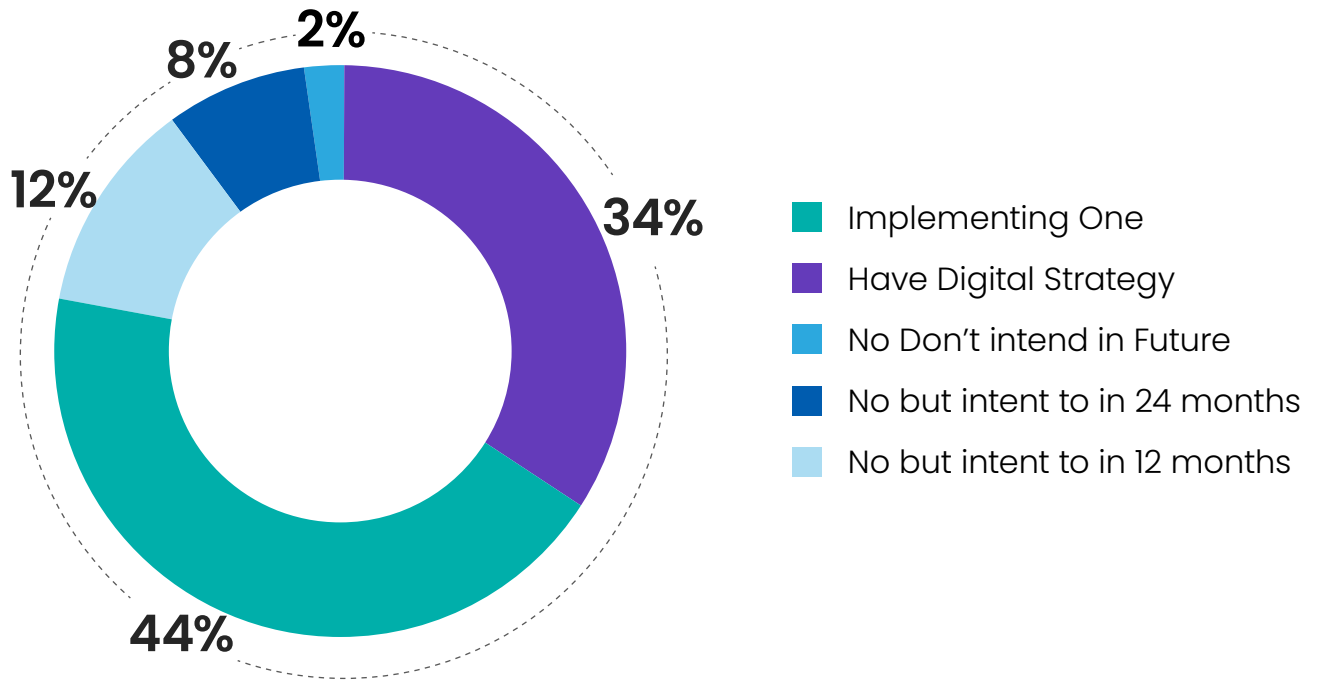
Digital Branches

Some aspects of the banking business are very consultative, hence face time with the client goes a long way in improving customer experience. However, the cost of staffing every branch with experts in mortgage processes, auto loans and investment banking is expensive. With digital branches, banks can have the best of both worlds by rapidly deploying customer Wi-Fi, adding self-serve kiosks and enabling remote video consultations with experts. Now, add the bandwidth requirements of all these services, and suddenly the legacy WAN architecture becomes inadequate.

High Frequency Trading

Wiki defines High-Frequency Trading (HFT) as a type of algorithmic trading characterized by high speeds, high turnover rates, and high order-to-trade ratios that leverages high-frequency financial data and electronic trading tools. The ability to execute an HFT depends on the quality, reliability and security of the underlying network. Much like real-time applications such as VoIP, high-frequency trading is very susceptible to latency. SD-WAN, with its low latency threshold, is an ideal solution for this application.

Multi-Cloud is the Nature of Banking



>> Do you have a digital transformation strategy

The banking sector is paranoid about security and customer data privacy. In recent years banks have become comfortable with cloud-based SaaS applications for office productivity and customer relationship management software, but still, a large number of core banking applications are either run off in-house data center or private cloud infrastructures. A major impediment to banks adopting a multi cloud-based architecture is the enterprise WAN. MPLS networks may be secure, but they are not designed for the cloud. An SD-WAN solution design factors in multi-cloud as part of its core strategy. Hence, data exchange between private clouds and different public clouds is greatly simplified yet secure.

WAN Transformation

Modern banks need WAN networks that can handle high volumes of real-time voice and video traffic from the digital branch along with business-critical SaaS application traffic. Further, multi-cloud connectivity and end-to-end security from the network edge are a must-have. Within the banking and financial sector, areas like high-frequency trading place extremely high demands on the WAN. SD-WAN is the only technology that can cost-effectively support all these requirements.

Aryaka's Managed SD-WAN enables Digital Transformation

Solutions designed for digital transformation.



It is evident that network transformation goes hand-in-hand with digital transformation. Digital transformation use cases differ by sector, but there are similarities in the network transformation needs like cloud application performance, speed of rollout and security. Other aspects of similarity are the east-west traffic from IoT devices or machine-to-machine traffic and operational simplicity. In this section, we explore Aryaka's solution to these challenges.



>> MyAryaka application performance monitoring

Cloud Application Performance

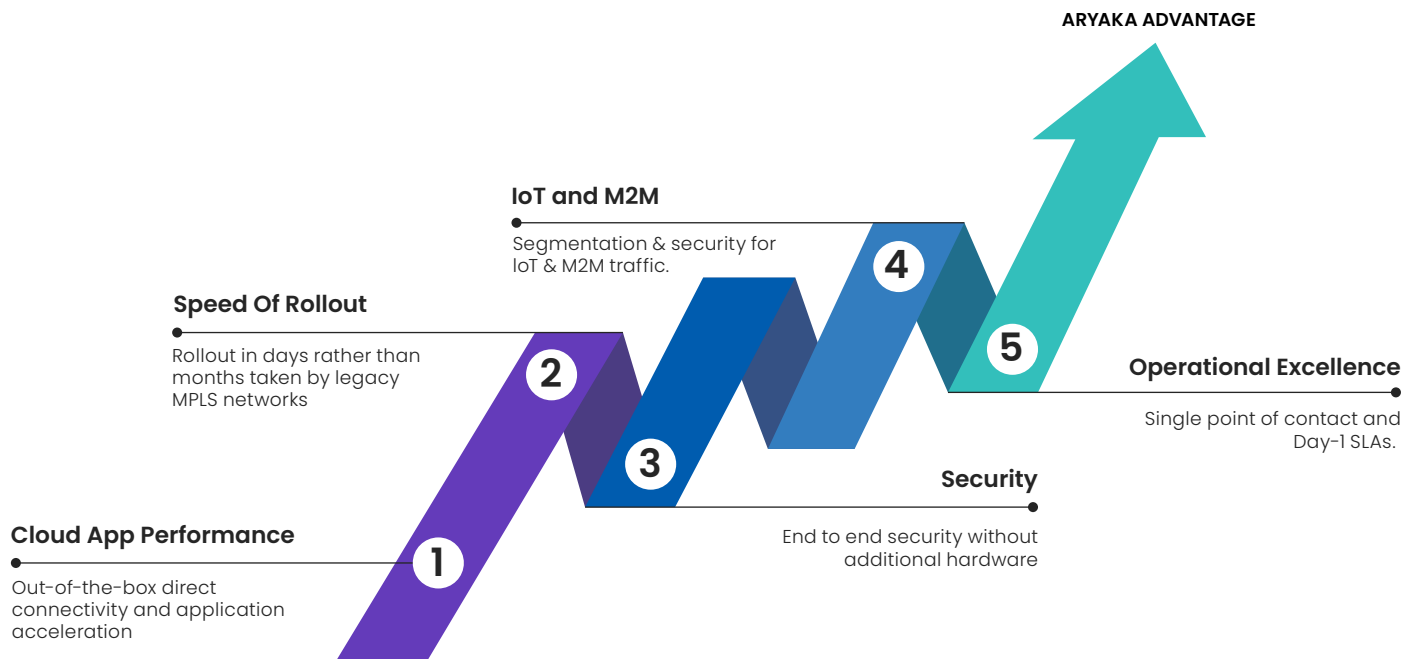
Cloud application performance is the one aspect that affects every single person in the organisation. Cloud applications refer to SaaS applications like Office365, Salesforce or other bespoke applications running on IaaS platforms like Microsoft's Azure, Amazon's AWS or Oracle's cloud. Increasing cloud adoption has a direct impact on WAN traffic.

Aryaka's fully managed SD-WAN as-a-service comes with direct connectivity to AWS, Azure and Oracle's IaaS platforms. When connected to Aryaka's SD-WAN, customers have an expressway to applications hosted on the most popular IaaS platforms. For users of SaaS applications like Office365 and Salesforce, Aryaka provides a 'Virtual Office' solution. With

Virtual Office, application traffic is transported over Aryaka's private core to the PoP that is closest to the SaaS provider. In addition, features like built-in WAN optimization and data de-duplication ensure that users experience great application performance.

Speed of Rollout

As a fully managed on-demand SD-WAN, Aryaka can deliver connectivity in a few days rather than in months. This is a critical requirement for sectors like retail, banking and healthcare, where it is common to have branches in remote locations. Also, Aryaka guarantees end-to-end performance with Day 1 SLAs.



>> Aryaka enterprise SD-WAN for digital transformation

Security

Increased traffic and Internet access from the branch increases flexibility and performance. However, it also creates a security loophole that needs addressing. Installing security hardware in every branch is an expensive proposition. Aryaka's solution comes with built-in security features. We offer end-to-end security from the physical to the data link, network and application layers.

IoT and M2M Traffic

IoT is used extensively in sectors like health-care, manufacturing, retail and logistics. Traffic from sensors and other devices are bursty, often mission-critical and very sensitive to latency. Aryaka's SD-WAN can identify varying traffic types, segment them and apply policies that reflect business priorities.

Operational Excellence

As the complexity of WAN increases, the complexity of associated operations also increases. Specialized resources are required to design, configure and monitor the network. Commercial contracts and billing become complex. Thus, the agility of the IT team to respond to business requests is diminished. With Aryaka's fully managed on-demand SD-WAN as-a-service, customers have a single point of contact for all issues related to the WAN.

Aryaka's solution includes the first and last-mile management along with link procurement services. The MyAryaka Cloud Portal provides the status of the entire WAN, including the first and last mile. Customers can also monitor the performance of cloud applications from the portal.

Conclusion

In the previous sections, we saw how digital transformation is taking shape in different sectors of the economy. We had a glimpse of the business challenges addressed and the new opportunities created by digital transformation. Further, we explored the central role played by technologies like cloud, big data, social, mobile and IoT. Finally, we acknowledged the importance of getting the WAN architecture right.

We noted that traditional WAN architectures were either not flexible or expensive and in many cases incapable of handling the demands of a modern enterprise. Direct cloud connectivity, application acceleration, end-to-end security and WAN optimization are features that are either not available or available with the addition of expensive new hardware. SD-WAN emerged as the only viable solution that met all the requirements for digital transformation.

The network transformation journey is not an easy one, given the critical nature of connectivity and the consequences of a network outage. Unlike the static enterprise WAN of yesteryears, the enterprise WAN networks of today are living, breathing, dynamic entity; that need to continually evolve with the needs of the business. In such an environment, not only the choice of technology (SD-WAN) but also the mode of operation matters. In such a fast-changing dynamic environment, the DIY approach (do-it-yourself) to SD-WAN has many challenges, such as the need for expensive resources as well as purchasing contracts with OEMs. Carrier provided SD-WAN may be an option, but it comes with conditions attached, like last and first-mile lock-in, long rollout times, no single SLA and multiple contracts for end-to-end connectivity.

Aryaka's solution is tailored to the needs of digital transformation. Aryaka's SD-WAN solution is delivered as a fully managed service that includes out-of-the-box direct cloud connectivity, application acceleration, WAN optimization and security. As an end-to-end service provider, Aryaka also manages your first and last-mile connectivity. Unlike other solutions, our SLA's are applicable from the first day of commercial operations.

About Aryaka Networks

Aryaka, the Cloud-First WAN and SASE company, and a Gartner "Voice of the Customer" leader, makes it easy for enterprises to consume network and network security solutions delivered as-a-service for a variety of modern deployments. Aryaka uniquely combines innovative SD-WAN and security technology with a global network and a managed service approach to offer the industry's best customer and application experience. The company's customers include hundreds of global enterprises including several in the Fortune 100.

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