# Software Defined WAN

Free your connectivity and strengthen your security defences. The future of WAN is software defined.

Networking with SD-WAN

Gartner views SD-WAN as a key technology to help customers transform their networks from fragile to agile.

Any Access
Ethernet
Fibre
Broadband
Cellular (3/4G)
Wireless

Routing **Security** **Segmentation** **Quality of service**

Any Destination
HQ
Branch Offices
Data Centres
Cloud

Any Network
Internet   MPLS   P2P Ethernet
(SD-WAN can be delivered via any Network)
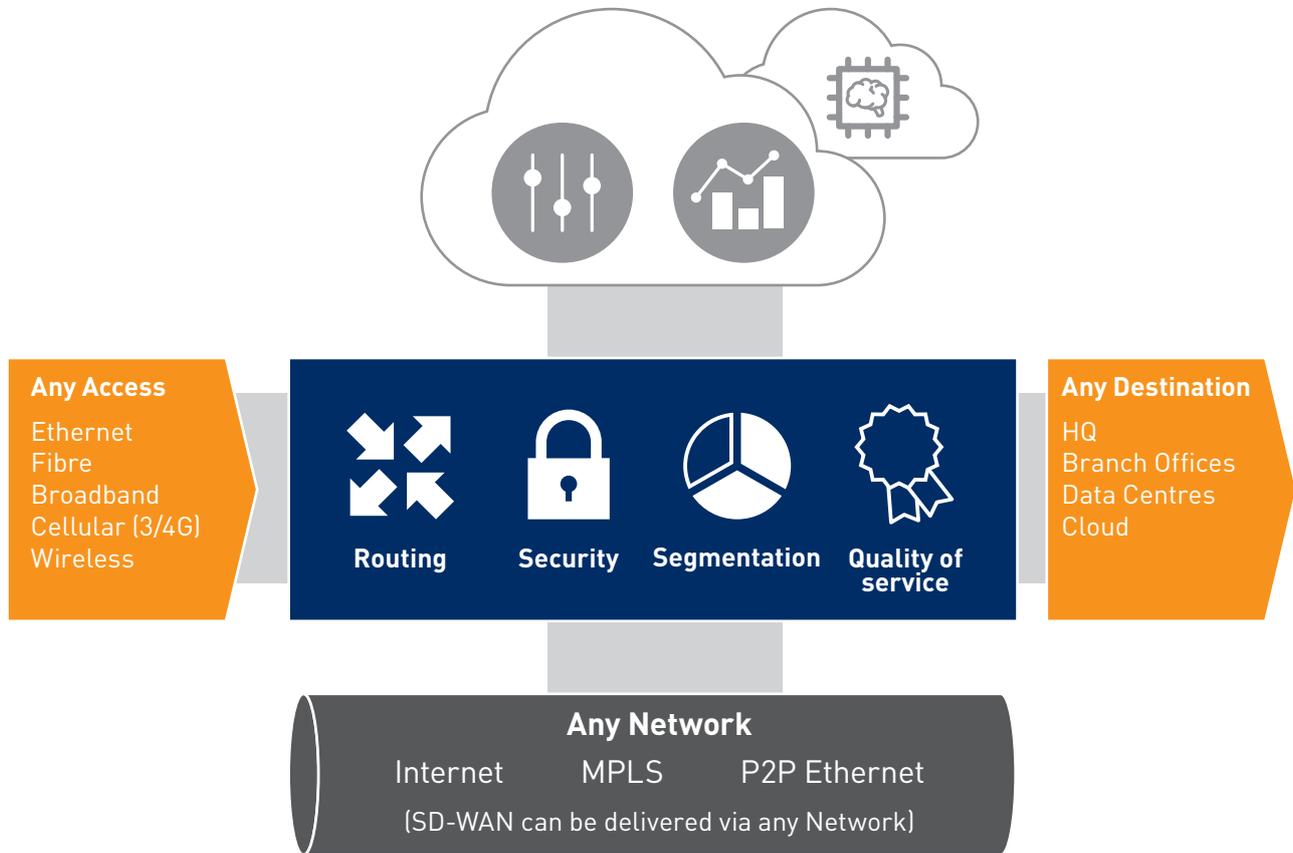
Market View

Digital transformation will be a significant driver of connectivity growth over the coming years, where businesses deploy 3rd party platform technologies, including cloud, big data and analytics, mobility, and social business, to unlock new sources of innovation and creativity that enhance customer experiences and improve financial performance.

This will lead to network managers having to juggle a variety of new applications such as cloud deployments, and connection technologies, encouraging them to seek new WAN management capabilities to combat the challenges of these bandwidth-intensive and cloud-native applications which require secure routing of traffic through multiple WAN links to optimise cost and guarantee availability.

Network managers place great importance on security, high bandwidth capacity, and reliability, but their current WAN architectures fall short of the ideal. Gone are the days of simply needing a router at all locations and WAN optimisation at some branches, the evolution of Wan is now software defined. To create a more secure, reliable, and cost-efficient WAN, they want to be able to centrally monitor WAN links, manage traffic between link types, and remotely provision branch offices. Remote provisioning will ensure that remote branch office networks are launched with standard configurations, using best practices to achieve consistent performance.

56% of network managers seek the ability to centrally monitor, manage traffic, and remotely provision their WAN.

Source: 2016 Forrester Consulting
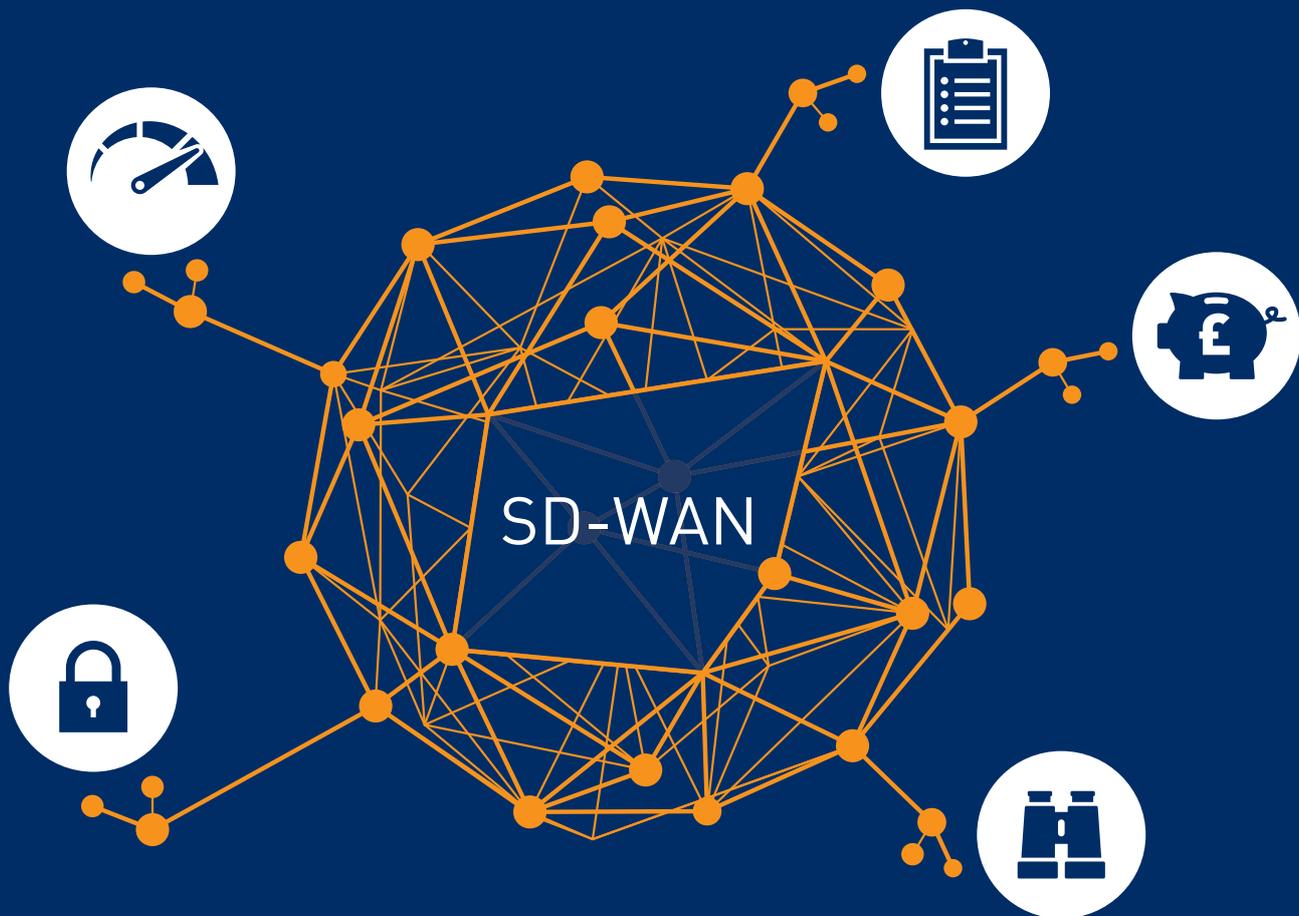
SD-WAN

What is Software Defined WAN?

SD-WAN products offer a lightweight replacement to traditional technologies. They provide dynamic path selection, along with improved management and zero-touch configuration, along with VPN capability. The benefits of an SD-WAN approach are substantial, compared to traditional WAN products, including reduced capital and operational costs at the WAN edge, improved provisioning times and enhanced branch uptime.

- Provide an overlay network that allows MPLS style features over DIA.
- Simplified on-site delivery.
- Mobile access provide the ability to connect a location/site via LTE connectivity.
- Centralised CPE and Security Services management

The days of the traditional hub-and-spoke WAN architectures being good enough are long gone. Customers must gain the ability to alter their WAN architectures in support of new digital business initiatives and adoption of public and private cloud services. The rationale behind this is that migration of applications to the public cloud can lead to distinct challenges, including:

- Add and remove sites quickly and securely to allow access to corporate applications.
- The ability to make configuration changes quickly.
- Link together a distributed application environments e.g SaaS, PCI etc.
- Reduced dependency on network carriers and physical network technology.
- Reduce carbon footprint with lower number of devices at site and better use of resources.

Often, remote sites have limited power and space to host the numerous devices needed to deliver and secure connectivity services. Daisy SD-WAN is delivered with a single powerful device capable to terminate ethernet, broadband and cellular WAN, and to secure LAN and WiFi access.

Best Inclusive Feature-set of SD-WAN

Visibility & Control - increase security and gain better control of the network

- Cloud-based portal provide complete visibility to all network locations and connections, making it easy to assess and manage in one place.
- Enhance security of each solution by centralizing policies management, alerting and monitoring.
- Centralised remote access from the cloud for remotely diagnose and troubleshoot any network problems from afar. The Cloud-based Management System contains powerful tools that can provide information about conditions at the user end of a network connection.
- While the Internet can undoubtedly be a valuable business tool, it also presents security risks and can diminish employee productivity. Moreover, unrestricted access can also lead to significant usage charges.
- Track internet usage and permits administrators to set alerts for each location, allowing managers to receive alerts when a certain threshold is reached, or even cut off Internet access if a limit is exceeded.

Dynamic VPN - lower cost, quicker setup and improve security

- Replace MPLS services with robust encrypted VPN. Securely connect remote sites back to a corporate network, hosting provider or third-party vendor. Dynamic VPN technology empowers businesses to choose the level of resiliency and redundancy.
- With Dynamic VPN gives full flexibility to create cloud of remote sites connected to resources in multiple data centers, adding or removing sites and components to the VPN on demand.
- ZTP (Zero-touch-provisioning) - lower deployment cost and reduce time to setup and replace
- Drastically reduces time and cost associated with network deployment, with no need for site visits - literally unpack and plug in.
- Easy to deploy, with no skill required and easy to replace, for peace of mind if something goes wrong.

Carrier independency - lower cost when compared with MPLS equivalent and quicker setup

- Ability to adapt any internet connection, no matter who supply it or what the IP addressing. This gives great flexibility to promote the service also to customers with incumbent connection contract.
- The appliances have built-in smarts that enable them to find each other, no matter where appliances are located around the world or what Internet Service Provider connects them. That means you can link VPNs without any static IP addresses.

MaxSpeed – lower bandwidth cost and higher availability

- Small-site appliances can be configured with up to four internet connections – with the ability to mix cable, xDSL including G.fast and FTTC, cellular LTE etc. for the level of resiliency and redundancy needed.
- Bond WAN lines to achieve the wanted capacity. Define what goes over each link and limit the bandwidth as required.

Cybersecurity – add value and improve overall security

- Enhance security with firewall, content filtering and IDS services
- Content Filtering allow network administrators to set access permissions for websites by category or URL. Other tools, like proactive Status Alerts, help protect networks by automating monitoring processes and giving administrators the tools needed to respond.
- All services are delivered via the cloud, providing anytime/anywhere access through the Central Management System.

LAN & WiFi – great flexibility with the simplicity of a single device

- Daisy offers activation of up to four private or guest Wi-Fi networks per site. Whether you have one, 10 or 10,000 locations, Daisy's Wi-Fi networking capabilities are simple to set up, highly reliable and centrally managed.
- Daisy's SD-WAN has also been certified under the PCI DSS, enabling retailers to transmit and process credit card data*.

*additional charges apply

Benefits to using Daisy's SD-WAN

Resilient & Secure

- Strong end-to-end encryption across the entire network. Possible to set up private connectivity in minutes rather than days
- WAN Segmentation with dynamic multi-site VPN and LAN segmentation on wired and wireless access
- Appliances comes with in-built Firewall, Content filtering and IDS services
- Business continuity and disaster recovery capabilities that maintain connectivity even during multiple network failures

Agile

- Controlled via a cloud-based portal which is straightforward to control and operate
- Shortening timeframe and removing complexity associated with change-management
- Short wait for network implementation with zero touch provisioning
- Can use multiple access and mix technologies; including LTE and Ultrafast Broadband (FTTP and G.fast)
- Allows you to prioritise business-critical applications over other network traffic
- No geographic boundaries or restrictions giving you the ability to deliver anywhere in the world giving it 'True Carrier Independency'

Cost Effective

- Address bandwidth cost by adopting the most cost effective access technology
- Bandwidth selection with the ability to cost-effectively mix and match network links according to content type or priority
- Reduction in your carbon footprint with fewer devices on site ensuring better use of resources
- Unbeatable prices with features aimed at reducing your network cost (integrated WiFi, Firewall, cloud etc.)

Daisy Connectivity Services

At Daisy, we deliver connectivity solutions to help support your strategy that fits your business. We deliver these services within a framework of supporting services from 11 other specialisms including Security, UC&C, Cloud & Hosting and Supply Chain Services. This means you reap further benefits from our ability to focus on a joined up strategy and deliver an end-to-end solution.
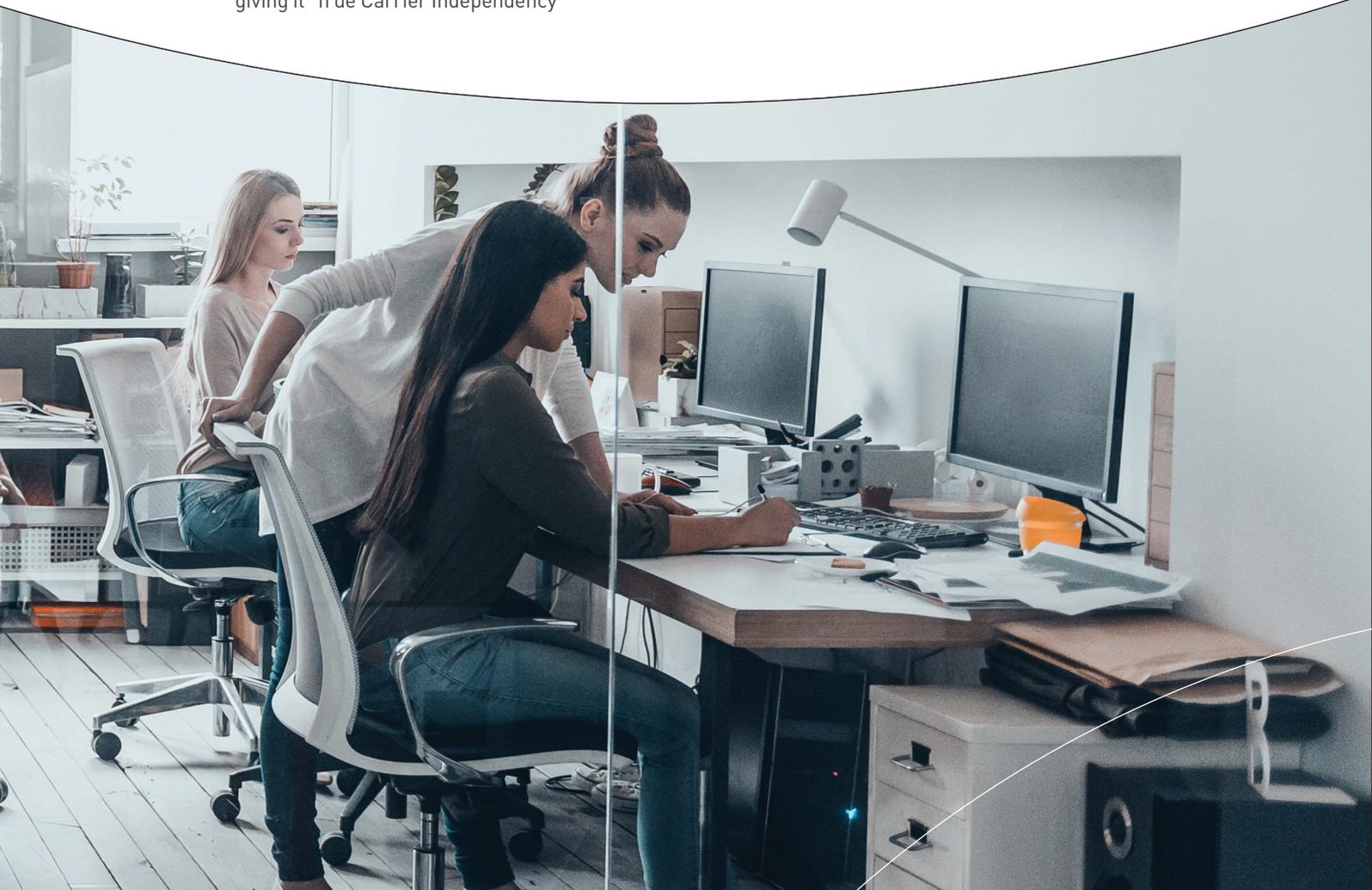
TO FIND OUT MORE ABOUT DAISY'S SD WAN SPEAK TO ONE
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we are **daisy.**
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