

# SD-WAN USE CASES

**SD-WAN is an application of Software Defined Networking (SDN) technology applied to Wide Area Networks (WANs). It is an overlay service, which works with any access or 'last mile' technology to deliver a seamless, evolutionary enhancement to a legacy Virtual Private Network (VPN).**

There are 4 key areas in which Vertel SD-WAN addresses the challenges and complexity of traditional WAN architectures and ICT operations, and can play a critical role in delivering enhanced network performance and reduced costs:

**AGILITY:** New site deployment; new application deployment; real-time policy changes; operational costs reduction

**VISIBILITY:** Network management simplification; network policy confirmation and site audits; fault identification and resolution

**RELIABILITY:** Network redundancy and uplink aggregation; application aware routing; real-time monitoring and alarms; security at the edge of the network

**FLEXIBILITY:** Carrier and transport agnostic; Cloud and datacentre integration; migration from legacy networks.

## AGILITY

### NEW SITE DEPLOYMENT

#### Challenge

Many organisations are faced with the challenge of integrating new sites or branch offices into their existing network. The requirement is to provide controlled and reliable access to the new location using the fastest and most cost-effective solution. The ICT team and Network Operations Centre (NOC) constantly struggle with dynamic and unplanned requests.

With a traditional WAN, the ICT manager has two options depending on the urgency of the request:

1. Delay the deployment of the new site to guarantee quality and security
2. Accommodate the urgent request by sacrificing quality standards or compromising security

#### Solution

Vertel SD-WAN enables you to deliver the new link on time with minimal planning and minimal risk from both a quality and security perspective. A new site can be activated in minutes leveraging any available connectivity in the location including MPLS, Internet, NBN, 4G or a Vertel network link.

If the available network has limited performance, the critical applications can be prioritised over non-critical traffic. You can add bandwidth and redundant links at a later stage without any outage or change management.

#### Benefits



Zero-touch provisioning of new site over any available network



Drastically reduce deployment time without compromising on security and standard policy

**“Vertel SD-WAN enables you to deliver new links, new apps and make policy changes from a self-service portal at the speed your business requires, without compromising quality or security, and at significantly lower cost.”**

# NEW APPLICATION DEPLOYMENT

## Challenge

Migration to Cloud-based services represents a serious challenge for any IT Manager. Allocation of bandwidth, accessibility rules, and secure deployment need to be managed in a timely and cost-effective manner. The greater the number of sites, the more challenging the task becomes.

With a traditional WAN, the ICT manager has 2 options:

- Delay the implementation of the new application to guarantee quality and appropriate policies for each site
- Immediately accommodate the request by sacrificing quality standards or compromising security, potentially creating future problems related to performance and limited access of the application across the network

## Solution

Vertel SD-WAN empowers you to enable (or disable) a new application across the entire network, creating policies that guarantee performance, traffic prioritisation and security, along with the generation of a utilisation report in real-time.

## Benefits



Deploy a new application in minutes using an existing or newly created policy



Apply policies to all required sites and your application is provisioned and monitored across the entire network

# REAL-TIME POLICY CHANGES

## Challenge

Recent independent surveys by industry research groups have confirmed that the biggest issues impacting IT/Network Managers are the increased complexity of the network and the number of appliances they have to maintain; the time-consuming manual processes involved in moves, adds and changes; and the decrease in network responsiveness that occurs as the network expands.

As organisations increasingly migrate to Cloud-based applications, traditional network architectures are constraining the network manager's ability to deliver responsive and flexible services to their users.

## BUILDING CONNECTIONS THAT MATTER

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## Solution

By separating the control and data planes of network routers and switches, and consolidating network policies in a centralised server that manages all edge devices, Vertel SD-WAN empowers network managers with not only full visibility of the state of all network links, but to make innate and active policy changes affecting a single, a group of, or all network sites in minutes rather than hours or days.

## Benefits



Deliver on users' needs for flexible and responsive network services.

# OPERATIONAL COSTS REDUCTION

## Challenge

With business agility now clearly dependent on network agility, IT Managers and CFOs are increasingly asking, "How can we improve the performance and reliability of our network and lower operational costs at the same time?"

With traditional networks, opening new offices, turning up Cloud-based services, adding new applications or making changes to QoS or security policies can be lengthy and therefore expensive tasks.

## Solution

Vertel SD-WAN delivers real-time visibility and complete control of all sites and applications running across your network via a customisable client portal. Network tasks that require hours or days with traditional WANs are now performed in minutes. Expensive and complex edge routers/switches can also be replaced by SD-WAN edge devices which are all managed with user-defined policies via the client portal.

## Benefits



Improve the reliability and performance of your network



Significantly lower operating costs and Total Cost of Ownership

## FURTHER INFORMATION

Contact your Vertel Account Manager  
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