

# 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.

## FLEXIBILITY

### CARRIER AND TRANSPORT AGNOSTIC

#### Challenge

As organisations migrate an increasing number of services into the Cloud, your incumbent carrier may not have service coverage at all of your branch locations or be able to provide a mix of MPLS, Internet or LTE links that you need to provide diversity and optimum QoE for your employees or stakeholders.

#### Solution

Vertel SD-WAN can be connected to a broad range of broadband options including MPLS, Internet, LTE (4G), NBN, HFC and DSL, enabling you to establish secure VPN services provisioned over any access transport, and provisioned by one or more carriers, at any of your metro, regional or remote locations.

#### Benefits:



Choice of access type and carrier



Maximise your options



Potentially lower your operational costs

**“Vertel SD-WAN can be integrated with any public or private broadband access technology from one or more carriers, potentially lowering your operational costs”**

# CLOUD AND DATACENTRE INTEGRATION

## Challenge

Moving infrastructure and services into the Cloud or a datacentre is an attractive proposition for ICT/NOC managers, but it also presents significant challenges. The migration distances enterprise users from their applications, adding the WAN to the existing LAN setup. Monitoring, fault detection and resolution are all elevated to a new level.

In a traditional WAN, the capability to differentiate policy based on application can be quite limited and most of the time requires specific technical skills that vary, based on the selected WAN appliance and service.

With a traditional WAN, the ICT manager has a number of options available:

- Set up and maintain specific methodology and rules to monitor the network
- Upskill existing tech support to properly manage the new setup
- Purchase expensive managed services from a systems integrator or service provider
- Delay fault resolution due to poor or unavailable information around the WAN setup and utilisation

## Solution

Vertel SD-WAN provides full visibility and control at the Application level across all enterprise sites and branch offices. Datacentre setup (private, public, hybrid) can be easily integrated in the SD-WAN setup through virtual or physical appliances. This flexibility guarantees end-to-end monitoring and simplifies network management and fault identification.

## Benefits



Gain full control of your network



Quickly identify the section of your network that is causing performance issues, whether this be LAN or WAN



Easily integrate all your Cloud and datacentre setup with our Vertel SD-WAN platform and 24x7 support

# MIGRATION FROM LEGACY NETWORKS

## Challenge

Most organisations realise that legacy WANs are unfit for the digital era. However, they have a significant investment in existing infrastructure, and whilst they can see the benefits of SD-WAN, the key consideration is when and how to embrace this new technology and migrate seamlessly to a virtual network architecture. A forklift upgrade is clearly not an option!

## Solution

Your existing MPLS or Internet network can be overlaid with Vertel SD-WAN. Using a range of tools, we can augment your existing VPNs with SD-WAN by adding new sites and services, whilst retaining backward compatibility with non-SD-WAN sites. We recommend that you start with a pilot, then migrate your network as your business and financial considerations mandate.

## Benefits



Sweat your existing network assets by migrating to SD-WAN in a planned and controlled timeframe



Realise the full benefits associated with a Cloud-enabling, virtualised network over time

**“Sweat your legacy VPNs and Internet networks by adding new SD-WAN sites and services over time”**

## FURTHER INFORMATION

Contact your Vertel Account Manager  
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