SD-WAN CISCO
WHITE PAPERS 2021

CONTENTS

SD-WAN
AN INTRODUCTION

With an incredibly high raise in start-ups and innovative interactive marketing strategies, there is also an increase in bandwidth dependency. This is why people tend to look out for a network that is available in high quality.

To deliver a high-quality network that is ready to address the challenges, the latest technology SD-WAN is introduced.

The idea was to build an architectural beauty that was centralized on the cloud, freeing the effort to manage the network through hardware.

Literally, Software Defined Wide Area Network is an abstract from its hardware to create a digital network overlay.

As the layout is spread at stretched distances geographically, the SD-WAN technology helps the operators to remotely scale and manage issues in these distances. What an SD-WAN does is connect several branches of a network to one central hub office. In this way, the central hub becomes the powerhouse of every branch connected to it. It is more resilient than a standard Wan as it is extracted from the hardware.

WAN

WHAT ISSD-WAN TECHNOLOGY

HOW IT WORKS
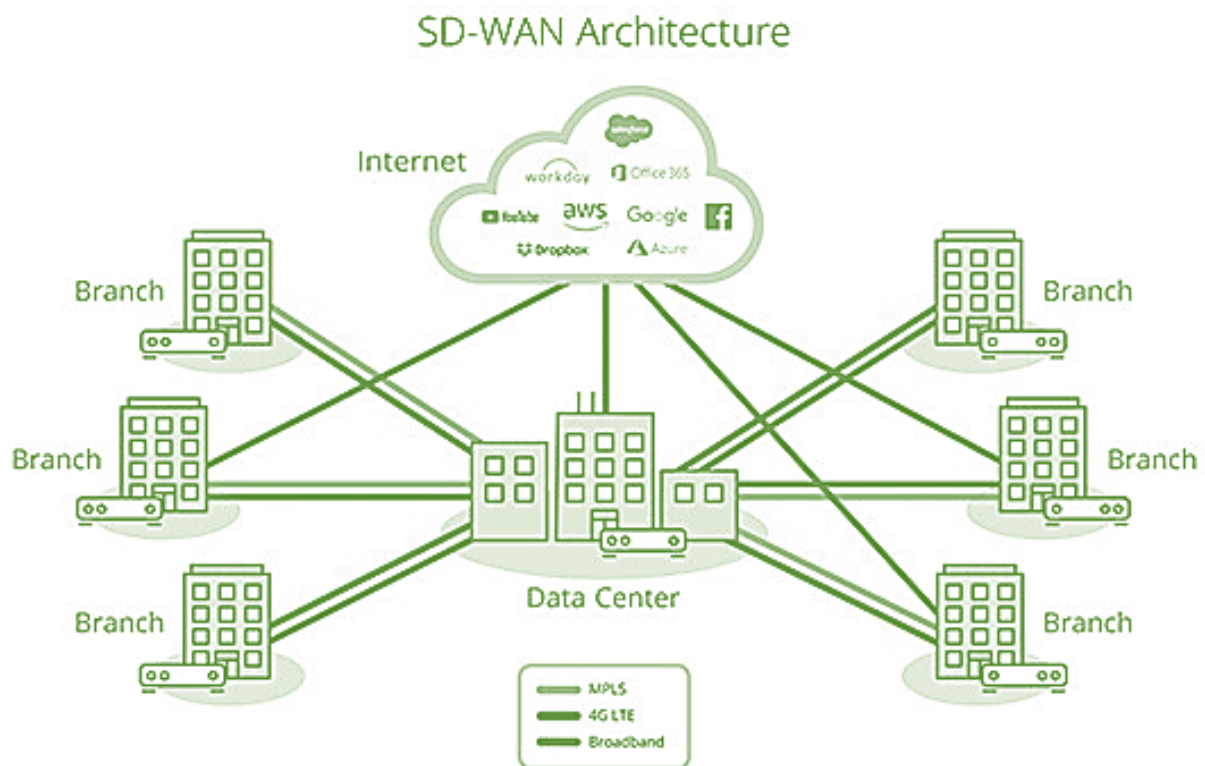
Among many other characteristics, a very major highlight of an SD-WAN is replacement of the router. It was a common complaint from the companies that the managing expenses to maintain a WAN were increasing with every passing day with the operating expenses that included office routers, personalized hardware and not to forget the equipment quired in customer premises. For example, to set up the network an enterprise had to bear the expense of all the minor major CISCO devices and a certified specialist to manage it. Such manual set ups not only caused a great deal of time and effort but also increased the chances of errors.

Therefore, to simplify this process, the companies looked out for a technology that will save them all the hustle by shifting from customized routers to open SD-WAN based CPE. This resulted in cost cutting and a

no room for mistakes policy as the technology programs everything on cloud.

CHARACTERISTCS

The main characteristics of Software Defined WAN include:

PROFICIENCY

A personalized yet professional service that will support your team and goal.

PRIORITIZING

When it comes to current and upcoming applications, the technology is meant to be intellectual towards prioritizing your needs.

SECURITY

High-end security service for safe and reliable access to all the services and applications.

FLEXIBILITY

The technology is programmed to manage everything according to the nature and routine of your business along with the pace of work you require.

GUIDANCE

The SD-WAN technology proves step-by-step guide and gives you continuity throughout your cloud journey

GRAPHICAL INSIGHT

SD-WAN Market Evolution

Sources: IDC: Cloud and Drive for WAN Efficiencies Power Move to SD-WAN
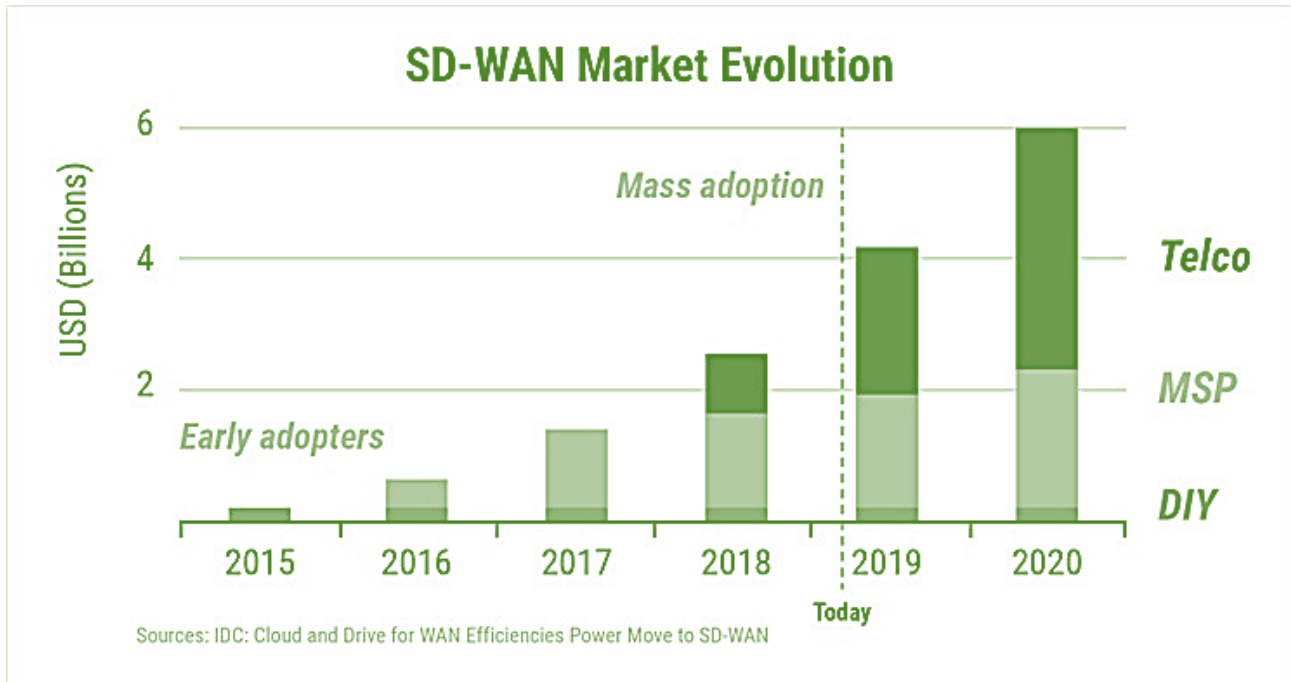
It was predicted that more than 50% of the enterprises will start shifting to SD-WAN technology by 2019 as it is a wrap of all the existing technologies.
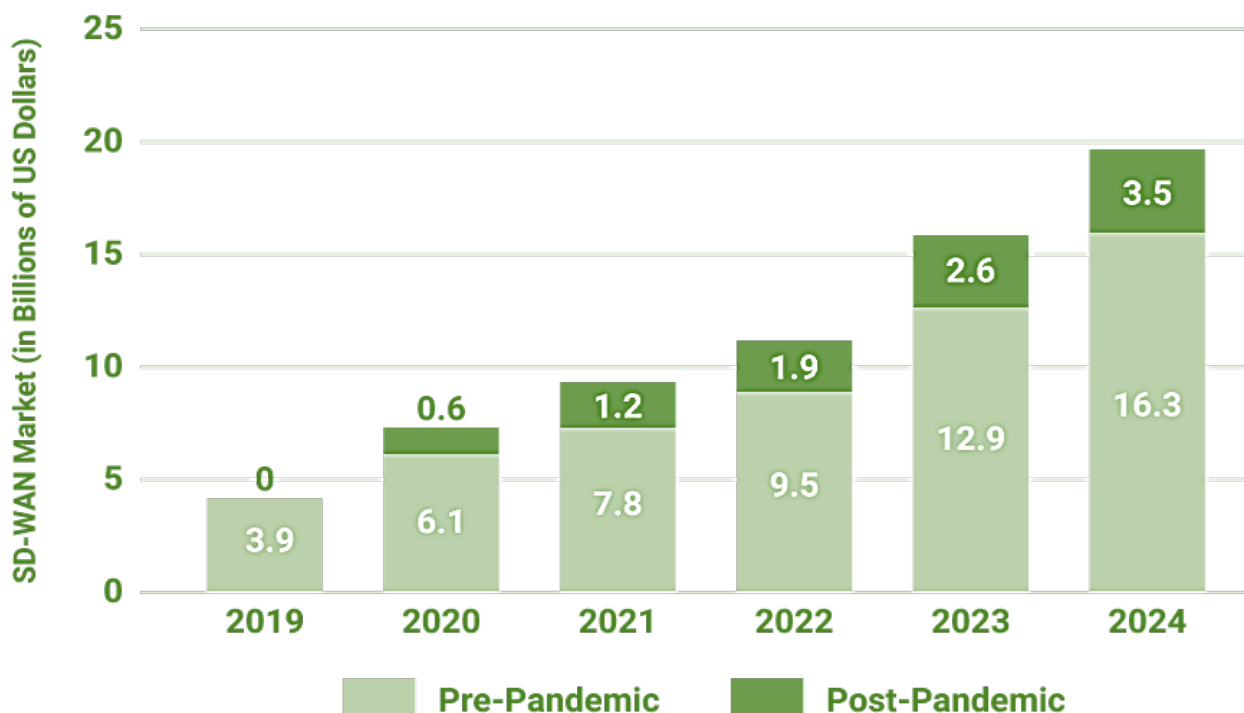
COVID not only made people rely on the cloud and its technologies, but it also increased the demand and prices considering the demands.

BENEFITS OF SD-WAN

❖ Your data is secure through access ease to cloud and a high-end security service. You can have full control on your data with 100% transparency.

❖ The idea of moving efficiently without losing track is successful as the technology allows you to create touchpoints for the customers to make your services interactive.

❖ Along with optimizing past investments of the company, SD- WAN simplifies the present infrastructure to increase the pace of digital transformation

❖ By giving them a networking experience that is beyond their expectations, the technology aspires the employees to better engagement Generating revenue by lowering the load of man power

❖ Connecting all the devices and networks so that t=they are accessible to all employees and they can work on anything from anywhere.

SD-WAN VENDORS

Some of the major SD-WAN vendors include:

- ❖ Fortinet
- ❖ VeloCloud
- ❖ Silver Peak
- ❖ Versa Networks
- ❖ CloudGenix

HOW TO CHOOSE AN SD-WAN VENDOR

There should be three things that must be kept in mind while choosing an SD- WAN vendor:

- ❖ The total cost of ownership (TCO)
- ❖ Network performance
- ❖ Security and breaches

While choosing a vendor, one must focus on a few of the following needs to see which vendor serves the needs of that particular Business.

First of all, focus on the features, your company requires, for example, SASE security, WAN acceleration, active use of backup services, replacing ethernet with broadband, support for remote users, or a firewall.

SD-WAN VENDORS

SECURITY

Whether you want to convert an existing security service into an SD-WAN vendor solution or need implementation of a new full SASE security plan.

CLOUD

Either operate a private DC or manage Office 365 performance and enhancement or want the vendor to utilize the visual insurance or WAN edge with the cloud vendors etc.

ENGAGEMENT

How a business engages with its vendor directly is very important be it by demanding complete isolation or require the plan that provides overlay too. Or the business could always use a fully managed traditional service provider that presents an end-to-end service.

CONNECTIVITY

Although most of the vendors support all kinds of connectivity, some work better with MPLS while others support cellular services like 4G/5G better.

WHY CISCO

Make sure that the vendor is capable of providing both WAN and LAN. provides you with CCTV and also built WIFI support.

Features	Cisco	Fortinet	Silver Peak	Versa
Active-Active Sd-WAN	✓	✓	✗	✗
Upgrading Software To SD-WAN	✓	✓	✗	✗
Edge and Cloud	✓	Restricted	Restricted	Restricted
Optimizing The WAN	✓	✗	✓	✗
Segmentation	✓	Restricted	Restricted	✓
Value Chain	✓	✗	✗	✗
Traffic Analysis	✓	✗	✗	✗
NetFlow Defense	✓	✓	Restricted	Restricted
Connectivity of Saas	✓	✗	✓	✓
Storage	✓	✗	✗	✗
65G/6G Ready	✓	✗	✗	✗
Data Integration Made Central	✓	✗	✗	✗
24/7 Support	✓	✓	✓	Restricted
Efficient Replacement Policy	✓	Restricted	Restricted	✓