Teldat SDE-c

Software Defined Edge - Cloud

Introduction

SDE-c is the Teldat cloud appliance to build next generation SD-WAN networks. This solution is focus on moving the edge of the SD-WAN network to public or private datacenters. Teldat provides a cloud solution which is integrated with the largest cloud providers as Amazon Web Services, Microsoft Azure and Google Cloud. SDE-c, as the rest of Teldat portfolio, is integrated with Teldat SD-WAN Controller and able to be easily onboarded with Zero Touch Provisioning (ZTP) mechanism.

SDE-c is delivered as a cloud appliance to be deployed in the public cloud. Any network size is supported as it scales up to customer requirements depending on the resources used by our customers.

Product Highlights

▶ **Integrated SD-WAN management**

▶ **High performance encryption services**

▶ **Professional and advanced software**

▶ **Zero Touch Provisioning integrated**

▶ **Cloud Applications SLAs**

▶ **Certified over AWS, M. Azure and Google Cloud**

Product Description

Software Defined Edge is a routing software specially designed for SD-WAN scenarios. SDE-c is based on the same software appliance as the bare-metal and virtual solution, so it moves the SD-WAN features and capabilities to public and private datacenters.

SDE-c extends the SD-WAN overlay to the public cloud, and then SD-WAN is able to apply SLAs policies to cloud applications having the same capabilities as the datacenter hosted services (for example, guarantee the service quality of the applications and/or monitor WAN status connectivity).

Cloud NetManager (CNM) integrates all the SD-WAN capabilities in the network, as SDE-c is fully integrated in CNM, it allows the automatic configuration of the cloud appliance depending on the customer requirements.

Competitive Advantage

SD-WAN	SDE-c is closely integrated with CNM, the Teldat management focus system for SD-WAN networks, so it allows to configure and monitor the device easy and centrally.
Several roles	SDE-c can be deployed as WAN router to connect to cloud applications or as a tunnel terminator to monitor the network
Multiple Cloud Platforms	Support of the most common cloud providers: Amazon Web Services, Microsoft Azure and Google Cloud

CLOUD PROVIDERS MINIMUM RESOURCES

Amazon Web Services
Minimum virtual instance AWS
    m4.large

Microsoft Azure
Minimum virtual instance M. Azure
    B2MS

Google Cloud
Minimum virtual instance Google Cloud
    n1-standard-2

SOFTWARE TECHNICAL FEATURES

Management
Centrally managed using Teldat SD-WAN management platform
Easy device onboarding and config. from CNM templates
Operating system lifecycle management from management platform

Network Architecture
Network overlay based on DMVPN with standard IPSec and AES encryption
Internet and MPLS WAN access and control in each device
BGP/OSPF routing protocols supported for internal LAN routing

Application routing
Application Based Routing, using IPSLA to monitor the network status.
Network information to take traffic decisions: delay, jitter, loss
Deep Packet Inspection (DPI) for application routing up to level 7

Security
DMVPN based overlay to isolated customer network from WAN networks
VRFs in each WAN and LAN interface.
Standard IPSec with state of the art encryption

SD-WAN Quality of Service
Four priority levels (Real-Time, High, Medium and Low)
Per application guaranteed Bw allocation in case of congestion
Per application rate limit

High Availability
Cluster based architecture in active-active mode

ADDITIONAL TECHNICAL FEATURES

Teldat Reverse Traffic Steering (TRTS)
Cutting edge solution to minimize tunnels number in SD-WAN scenarios