Cloud Net Manager Controller

The fastest and safest way to create and maintain SD-WAN networks

IP networks are interconnected autonomous nodes that control local decisions (defined by IP itself). Each node simply decides the next hop and, as such, is a set of individual decisions that form a large collective network. This principal is especially beneficial to shared networks such as Internet, as it allows scalable interconnection of different systems with one common aim. Said basis has been used for years to construct both public and private networks.

Private networks however, have their **own needs, which 'traditional' networks cannot fully satisfy.** For example, node autonomy offers nothing to a private network and, in fact, is counterproductive, as this means generating, applying and maintaining specific configurations for each network node prompting serious drawbacks as the following shows:

- The call for **specialized technical personnel** to generate said configurations for the nodes.
- Time needed to **deploy the configurations** in the network.
- The **real risk of configuration errors**, given the complexity of network nodes.

- Time necessary **to resolve problems**, again due to the difficulties involved in node configuration and their autonomy.
- The level of difficulty and time required to **apply new changes** throughout the network.
- Customer **dependency on their network provider**, given that node configuration is highly specialized and proprietary.

Teldat CNM Controller centralizes SDWAN network configuration and control

SD-WAN networks came about as [a new network architecture](#) specifically aimed at private networks and, unlike traditional IP networks, do not resolve the interconnection of the 'islands'. Instead, they construct a single network, where nodes do not call for autonomous configuration as the network configuration is **globally defined in single centralized SD-WAN 'Controller' software**. The task of this SD-WAN Controller is to handle network control and run the nodes adjusting them to the global behavior of the defined network. The effort of defining the network, the generation of configurations and change replication, is consequently reduced as only this SD-WAN Controller intervenes (not the individual nodes).

Teldat CNM Controller simplifies network management

The SD-WAN CNM Controller substitutes individual configuration of devices for a single point, where the network is defined, and automatically generates **a configuration for all points**. Furthermore, the focus on SDWAN scenarios means **automatic generation** without network administration intervening on the main blocks making up the configuration. The **administrator** therefore, simply needs to enter the required data to adapt to its particular scenario in **a graphic and intuitive interface** to cover all needs.

Integration with other SD-WAN tools

This **SD-WAN Controller** is a Teldat "Cloud Net Manager" (CNM) management platform, which **integrates seamlessly with the rest of the software elements** contained within in CNM. Consequently, any configurations and changes over the SD-WAN CNM Controller interface are immediately and automatically **applied to the network**, as well as **new devices**, which, thanks to the CNM Provisioner, are auto-provisioned.

Key Features

Graphic and intuitive user interface
Instead of dealing with complicated command interfaces or web configurations, **this SD-WAN Controller is an application based on simple and reusable modules** that presents user friendly information in high level structures. **Wizards** are available for guidance through the more complex or repetitive processes.

Complexity abstraction
The **SD-WAN CNM Controller** automatically generates the basic configuration structures. Parameters, which define the scenario, are entered to **generate all element configurations** in such a way that the intervention of an expert in networking is made redundant.

Easy provision of new services
The **SD-WAN CNM Controller** simplifies the **addition or modification of services**, reducing this task to just a few clicks, so the system automatically generates the orders for the network devices.

Automatic replication in 1000s of branch offices
Branch office data can be readily imported from CSV files, the corresponding device automatically deploying the generated configurations depending on the serial number.

Integration with the Teldat Cloud Net Manager management platform (CNM)
CNM Controller integrates with other modules in CNM (such as CNM Base) to automatically **synchronize configurations** generated in this SD-WAN Controller and CNM Provisioner for network devices. Moreover, these also support the installation and configuration of new **plug and play devices.**

In a public cloud or residing in own data center
The server can choose between **two exploitation possibilities:** simply and effortlessly in either the public cloud (**SaaS** for example) or as a **virtualized application** in your own infrastructure.