CHOOSING THE RIGHT SDN SOLUTION IS KEY

Despite a few early hurdles related to technology and re-skilling issues, SDN is finally making headway as implementation partners like Tata Elxsi are witnessing increasing attention from CIOs and IT teams on building more efficient network infrastructure.

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How far has India come in its journey to make SDN mainstream?

SDN is a new approach that gives administrators and network engineers the ability to respond quickly to the changing business requirements. The ability to manage and provision network services from a centralized location enables deployment of applications at a faster rate, upscale network infrastructure with minimal disruption and reduce the overall cost of deployment.

In theory, the deployment of SDN platform is expected to simplify the network, improve agility and enable automation. But since the technology standardisation and maturity level of its implementation was still evolving, the adoption rate in India was slow.

What challenges are faced by industry hampering expedited SDN adoption?

Proving robustness of new platforms that incorporate SDN and other future technologies like NFV and IoT is critical to the implementation and realization of benefits across government and large enterprise networks. Other challenges include reskilling of the industry workforce with knowledge of these new technologies.

Network transformation demands extensive capital investment for capacity expansion. Telcos and service providers, who are expected to create innovative digital business services and support various government initiatives for Digital India, are currently facing challenges to invest effectively in such transformation initiatives due to fierce competition, pricing war, increased churn, reduced revenues and huge debt trap from spectrum acquisitions. Large enterprises too have not taken up a significant leap into SDN due to the lack of confidence in the maturity level of SDN solutions in-spite of the huge cost reduction and simplification it brings into the operations and management of network infrastructure.

System integrators like us play an important role in an organisation's multi-phased transformation journey through multi-vendor system integration; certification and benchmarking of vendorsupplied solutions and managed services for end-to-end service fulfilment with assurance.

Is the government's push towards digitization a major driver of the technology? What's your say on the current policy and regulation norms?

Indian central and state governments have undertaken multiple initiatives towards technology transformation with a vision of Digital India. State Data Centres and State Wide Area Networks (WAN), as well as other infrastructure projects planned under the Digital India programme such as BharatNet / National Optical Fibre Network (NOFN) project, conversion of 1.5 lakh post offices into multi-service centres are some key initiatives. SDN, being a network agnostic software solution has the capability to combine all the available access technologies - the Ethernet, MPLS, internet, 4G, 5G or future technologies to create one or several virtual (overlay) networks on the top of it.

What should be the approach of an enterprise CIO while adopting SDN?

An enterprise CIO's primary goal is to create converged networks that offers increased efficiencies, lower costs and improved experience for customers is achievable through SDN and virtual / cloud based services that are agile, robust and resilient. Choosing the right SDN solution is the key towards the transformation for every enterprise. CIOs are usually more inclined towards specific SDN solutions that are simple to implement and secure while it promises to bring significant cost savings.

Software defined WAN (SD-WAN) is one such SDN solution that digitizes the WAN connectivity across enterprise branches. It is one of the most beneficial and highly mature SDN solutions, implemented in many large enterprises across the globe.