

ZTP BUSINESS SERVICES

There has been a significant advancement in cloud computing in recent times. We have gone way past the origins rooted in virtualization and service-oriented infrastructures. The evolution favors the operational model of next-generation data center deployments.



We are seeing increased adoption of automation for servers and applications but, sadly, the network infrastructure on which the applications and servers rely on are still based on bequest technologies. While this is true, we are still faced with strong challenges like:



Downtime caused by human errors



Slow manual configurations that are prone to errors



Expenses for people and travel

It is well noted that about 80% of all downtime can be linked to human errors and manual configuration has been proven to be slow and error-prone.

The current methodology requires extensive hands-on provisioning and configuration by knowledgeable personnel and an expensive and untenable business model.

The solution to this is modern cloud infrastructure which allows network managers to provide centralized provisioning and configuration roles to improve networks, allow for reliability, minimize cost, and contain OPEX and CAPEX. Fully automated provisioning is an essential part of achieving this new height for business models.



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ZTP – ROME

ZTP is used to configure a switch without the intervention of the user. Fibersmart's ZTP solution fully utilizes the power of ROME robotics to provide a flexible solution for provisioning network infrastructure without requiring a network engineer at the install. Here is the workflow:

- Customer raises work order for new ethernet service between two locations.
- Operator completes provisioning form on the portal, form pulls PE names from DB.
- Form submitted to Automation Engine to initiate the workflow.
- Two CPE units ordered and shipped to the Customer and connected to fiber tails.
- Workflow pulls available IP addresses from DB to assign to CPE.
- Workflow provisions Tunnel from PE-A to PE-B.
- Workflow connects CPE to PE Routers using ROME
- CPE issues DHCP and pulls down their assigned IP addresses and service configs.
- The workflow runs the Y1371 Service Acceptance test between the devices
- Ethernet service is delivered to the Customer.