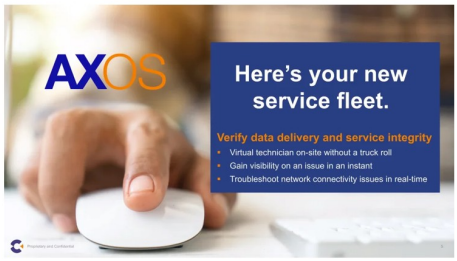

Calix Remote Network Turn Up And Test Instructions

Service Description Document

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Remote Network Turn-up and Test

The Calix Professional Services Network Engineer will remotely access the Customer network to turn up and test one new Calix Layer 2 Node installed by the Customer, Calix will also create a Network Engineering Spec Book (NESB) for the Node being tested. The following tasks will be performed on this package:

SCOPE OF WORK

- The Professional Services Network Engineer will create a Network Engineering Spec Book to detail the new Calix equipment and configuration details
- Consult with the Customer on the network configuration details
- Customer to provide all required physical and logical details
- Review the data and prepare a Network Engineering Spec Book for the new Calix equipment with the following:

- Physical Network architecture and connection detail
- Detailed configuration data
- Detailed provisioning data
- IP network information
- Network diagrams
- Calix Equipment List
- Schedule a call with the Customer and review the Network Engineering Spec Book
- The Professional Services Network Engineer will remotely access the network to turn up and test the new Node as detailed in the approved NESB.
- The following is the test plan that will be followed:

Grounding	Customer will verify grounding is properly completed
Power	Customer will record power levels at the shelf inputs, rectifier outputs, P DBs and fuse/breaker panels
Optical Readings	Customer to test Optical levels with a light meter. Levels will be verified t o be within range of Calix equipment specifications
Uplink Protection	Customer and Calix – Protected facilities between the node and the ups tream router will be tested by causing link failures and verifying service continuity on work and protect paths
Alarming	Customer and Calix will test battery, environmental (contact closures), e quipment removal from shelf (remove 1 card per shelf), and optical failu re alarms, as applicable
In-band Management	Calix will verify the node is reachable via management channel
Data Test	Customer and Calix – Data/Internet will be tested on one port per Calix Node. Upload and download speeds will be recorded and verified. If Inte rnet connectivity is not available, data will be validated by performing up and downstream file transfer successfully
Voice Test	Customer and Calix – Voice services will be tested on one port per Calix Node. This includes inbound calling and outbound calling

REQUIREMENTS

- Base Package is for one (1) new Calix Layer 2 Node
- A Node is a shelf or multiple shelves that are combined with a single Management IP address. EXA – Can be multiple E7's in a MCC configuration. AXOS – E3-2, each shelf is a Node; E7, each shelf is a Node; E9 can be multiple shelves
- Add-on Package is available for each additional node turned up and test on the same network. The additional node package is not valid if there is more than a six (6) week delay between each shelf being turn up
- A network is defined as a ring with an uplink. All nodes on the ring use services on the uplink node
- Remote support only; uninterrupted remote network access required
- Customer to provide all details for any new Calix equipment that will be added to the network
- The NESB must be approved by all parties prior to scheduling the turn up of the node
- Installation/Turn-up of the management system (SMx, CMS or DPx) is not included in this Service
- Customer is responsible for all physical tasks required

- Customer is responsible for provisioning and testing all 3rd party equipment required to implement this scope
- This package assumes work is continuous without delay, time spent troubleshooting issues will require a change notice
- Customer is responsible for subscriber services provisioning
- This package does not include software upgrades for existing network elements
- This service is for remote support. On-site support requires a custom quote
- A custom quote is required for any exceptions to this package
- Service is a new Node Turn up, ring insertions or maintenance work is not included

ORDERING INFORMATION

Calix Package Description: Network Design, Turn up – L2 – 1 Node Base
Calix Package Part Number: 110-01340

ADDITIONAL NODES

Calix Package Description: Network Design, Turn up – L2 – Add E7, E3, C7 Node
Calix Package Part Number: 110-01341
Calix Package Description: Network Design, Turn up – L2 – Add 1 E9 Node
Calix Package Part Number: 110-01525

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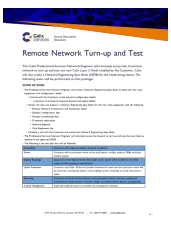
Documents / Resources

	Calix Remote Network Turn Up And Test [pdf] Instructions E7, E3, C7, E9, Remote Network Turn Up And Test, Network Turn Up And Test, Turn Up And Test, Test

References

- Calix | Calix Services | Calix Software | Calix Inc
- User Manual