Inside Plant – Broadband IP Network Engineering and Network Management

One of the most vital parts of JSI's portfolio of complete broadband consulting solutions is our Inside Plant - Broadband IP Network Engineering and Network Management service team based in Lubbock, Texas.

This team has decades of experience supporting a full range of rural broadband-engineering needs, which includes developing network architectures and detailed designs, developing and handling requests for proposals (RFPs), building out networks, testing and turn-ups of new networks, managing upgrades and cutovers of existing networks, assessing the current health of a network, and even managing the operation of a network on a 24/7 basis, 365 days a year.

By placing this wealth of industry experience under one roof in one central location, JSI accelerates the transfer of information and knowledge within our team, allowing us to quickly and seamlessly address the most pressing challenges that your business faces—today, tomorrow, and in the decades ahead. This is one of the unique strengths that JSI's Broadband Network Engineering services team brings to the table, enabling us to better support our clients' diverse and rapidly evolving business needs.

JSI's Broadband IP Network Engineering services include:

Network Designs, Expansions, Cutovers, and Upgrades

- 217 Equipment Engineering
- RFPs
- Design of the Regional Networks of Neighbors
- Fixed Wireless (Licensed and Unlicensed)
- 100G and Higher DWDM Upgrades

- XGS-PON Access Network Designs
- Cell Backhaul Network Designs
- DC Power and Battery Systems and Generators
- CO/Datacenter Racking, Fiber Management, and Grounding

- Equipment Huts
- Towers
- Cutovers
- IPv6 Deployments
- CG-Nat for IPv4 Exhaust
- Server Visualization and
- Capacity Projections and Planning

Day-to-Day Operational Support

- Legacy Softswitch (Software Switch) Translations and Provisioning
- Legacy TDM and SONET support and Migration to Pseudowires

- Migration to Cloud Voice Switching Elements
- STIR/SHAKEN and Robocall
- IP Transit, Peering, and Caching Server Optimization

- BGP Routing Issues and
- JSI's Network Operations Center Plus (NOC+) Subscription Service

Network Health and Security

- Network Assessments for Reliability and Developing Diagrams and Network Records for Acquired Systems

- Cybersecurity (including BEAD, Compliant Plans, Testing, and SOC)
- Firewalls

- DDoS Mitigation; and Tools for Measuring Broadband Service Reliability

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