



Complete data center roll-out for major wireless provider

Improving service for nearly 450 million customers world-wide

A leading provider of wireless voice, messaging, and data services needed true, turnkey professional services to complete the installation of the scalable, high-efficiency, high-capacity route and switch equipment for their newly-constructed 30,000 square foot data center. The wireless provider was capable of reaching nearly 300 million Americans in addition to 130 million customers worldwide. It needed the most efficient install with the least disruption and long-term ease of ongoing equipment support.

GDT provided the expert services in three stages over a period of sixteen weeks, tackling projects in parallel, where possible, to speed completion.

Infrastructure and equipment design and installation

During Phase 1, GDT worked with the client in the creation of a detailed CAD design for the installation of 200 data cabinets in 15,000 square feet. The design included 22 rows with fully redundant power and a three-tier suspended ladder rack system with basket and fiber trough systems for cable management.

Design **IT**. Build **IT**. Deliver **IT**.

- INDUSTRY
- Wireless Provider
- CORE PRACTICE
- Data Center
- TECHNOLOGY
- Cisco ASR 9000s
- Cisco Nexus 7000s & Nexus 3000s
- Cisco Catalyst 4948E Ethernet Switches
- Lantronix Firewalls; Load Balancers
- Gigamon Monitoring Systems
- Intrusion Detection Systems
- LOCATIONS
- 1 Data Center
- TIME FRAME
- 16 Weeks
- SERVICES
- Comprehensive site survey(s)
- Procurement of infrastructure materials
- Warehousing and shipping of all equipment
- Manufacturing of jumpers and array cabling
- Installation of infrastructure
- Staging and configuration of equipment
- Installation and equipment handoff

Phase 1 and 2 additionally included:

- A 60-frame trunk fiber distribution system for 1000+ trunk fibers, using cabinet and row level patch panels and cassettes to facilitate cross connect management.
- Similar trunk copper installation for console and management infrastructure
- A holistic grounding solution for all PDU, cabinet and ladder rack systems
- A holistic cable matrix run list for copper and fiber cable with up to 30,000 individual port terminations
- Comprehensive labeling of all ports, cabinets, fiber and copper connections

Equipment staging, testing and installation





Prior to installation, GDT staged all hardware and provided basic configuration, software updates, and naming for all devices. GDT also provided support RMA services as required. GDT updated customer systems to include network mapping tools and inventory and service management systems to reflect port level details for all in-scope hardware and provided logistics support of customer provided network devices, including warehousing and shipment. Following the master cabling matrix (for 3,000+ connections), GDT installed, tested and labeled all hardware, including these devices: Cisco ASR 9000s, Cisco Nexus 7000s, Cisco Nexus 3000s, Cisco Catalyst 4948E Ethernet Switches, Lantronix Firewalls, Load Balancers, Gigamon Monitoring Systems and Intrusion Detection Systems. Before handoff, GDT additionally managed the client's device acceptance process, facilitating the turn-up of all in-scope hardware.

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Why GDT

Founded in 1996, GDT is an award-winning, technology integration partner. GDT specializes in designing, building, and delivering best-of-breed technology solutions for service providers, enterprise networks, data centers, and more.

GDT aligns itself with rising technology stars and industry leaders such as    . The GDT team of expert architects and engineers hold the highest level of certification and employ the use of state-of-the-art, LEED certified facilities to translate the latest ideas and technologies into inventive solutions that accelerate outcomes and realize the goals of IT and the vision of business leaders.

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