

GDT staging and implementation service streamlines expansion and upgrade efforts for cellular carrier

Customer challenges

In the cellular carrier market, capacity and geographic coverage are competitive advantages and vital for public safety. As our customer's infrastructure reached end-of-life, it could not meet their performance and availability standards nor accommodate the ever-increasing speed and bandwidth demands of market requirements for 5G and 6G.

To expand capacity and coverage, our customer needed to replace aging equipment in its data centers. They also needed to integrate new, proprietary technology into existing live traffic environments without impacting production and customers.

About the customer

Our customer is a cellular service carrier with around 115 million customers across the US.

Customer requirements

- A partner with the staging and implementation expertise to meet national deployment demands while minimizing business impact.
- Customer automation template, including standards and procedures, to drive quality, efficiency, and consistency across national deployments.
- Reuse of common equipment and racks from decommissioned infrastructure into new site deployments.
- Improved accessibility of the cellular network.

Solution: GDT staging and implementation

Our customer engaged GDT to update approximately 50 data centers across the United States, including Hawaii and Puerto Rico. GDT collaborated with our customer to develop a strategy for enabling redundancy and minimizing downtime across the network while completing critical work in their data center environments.



As part of this multi-year project, GDT replaced aging equipment with the latest servers, switches, and other devices. Unlike our competitors, GDT custom-builds racks in our staging facilities. By building, connecting, and testing racks prior to shipment, GDT minimized on-site work at our customer's [data centers](#), expediting installation and reducing disruption.

[GDT](#) leveraged its automation platform and developed processes and procedures to streamline and standardize the configuration, buildout, and installation of equipment across locations, improving quality and consistency regardless of location or team. GDT performed vital software updates to improve the performance of existing, in-use equipment. GDT also reused and redeployed equipment to other sites, extending the equipment's useful life and eliminating the cost and lead times associated with procuring new devices.

The results

- Improved access to cellular network through bandwidth increases, equipment updates, and increased reliability.
- Technology improvements from new device integration.
- Improved end-user experience and expanded coverage area.
- Reuse of common equipment and racks from decommissioned infrastructure, saving approximately \$500K per rack and minimizing equipment sent to the landfill.
- Customer automation template, including standards and procedures, to drive quality, speed, and consistency for national deployments.
- Consistent and cost-effective deployment of new technology into live traffic environments with minimal network downtime.
- Redundancy across networks to avoid network disruption.

GDT staging and implementation

GDT offers its [staging and implementation service](#) to reduce network and data center deployment risk and accelerate the adoption of new technologies. Our automation platform facilitates ease of configuration standardization, quality, and scalability. Our staging facility, integrated with our warehouse facilities, supports all major vendor technologies and allows us to execute consistent processes, reducing deployment times and ensuring end-to-end quality for a seamless experience.

[Contact us](#) today to learn how GDT staging and implementation can streamline your project.