Service Fact Sheet

Microwave Network Modernization

Turnkey solutions for renovating microwave networks

Microwave Network Modernization at a Glance

- Multivendor solutions for next-generation microwave networks
- Comprehensive turnkey service for replacing aging radios with state-of-the-art equipment
- Service includes design, migration planning, deployment and ongoing maintenance and support
- Access to best-of-breed microwave products, either from the Fujitsu wireless portfolio or through our partnerships with market-leading microwave vendors
- Highly experienced microwave engineers and certified project managers

The Benefits of New Microwave Technology

Many service providers, enterprises and utilities still rely on microwave backhaul equipment that was deployed in their networks in the early 2000s and even as far back as the 1990s. These legacy radios are frequently large, spectrally inefficient, costly to maintain, and unable to support next-generation services such as 5G.

Today’s microwave equipment is built with state-of-the-art radio technology and supports TDM, IP and Ethernet-based services, paving the way for the network of tomorrow.

The benefits of next-generation microwave equipment go beyond the added capacity needed for new, bandwidth-intensive services. Modern microwave equipment is smaller in size, increases spectral efficiency, ensures higher service reliability and cuts long-term ownership cost via simpler, more predictable and consistent operations.

We Clear the Path to Modernization

Fujitsu Microwave Network Modernization services help you identify and replace legacy radios with new, best-of-breed models that optimize your microwave network. We work with all types of microwave system deployments, including licensed and license-exempt; short, medium and long link distances; all-outdoor; all-indoor; and split-mount. We help you assess and clear obstacles, and deliver an end-to-end modern microwave network ready for the new wave of technologies and demands. Our multivendor expertise, extensive partnerships with microwave suppliers, and multi-network domain capabilities enable us to achieve the best possible results.

Ensure a Successful Outcome

The challenges and risks of network modernization are much easier to overcome if you don’t go it alone. By working with Fujitsu as your solution partner, you ensure an outcome that achieves your goals—on time, within budget, and without disrupting traffic.

Fujitsu Microwave Network Modernization services draw upon our extensive expertise in both legacy and next-generation microwave technologies. Our team will work with you to design the network to ensure ample room for future expansion, with the adaptability and flexibility to respond to changing business environments and objectives.

The Fujitsu network modernization team can accelerate your time to market by supplying dedicated resources for the modernization project, allowing your team to focus on critical ongoing business needs. We are highly skilled in managing live-traffic migration and complex modernization projects. Our certified program managers oversee the project from start to finish, and work hand-in-hand with your staff to ensure smooth execution.
The Best Microwave Solution for Your Challenges

**Phased Methodology Ensures Quality**
We use a phased project methodology to ensure consistently high quality and eliminate much of the risk and error potential that often accompanies large, complex deployment projects.

- **Network Discovery and Analysis** – Identify existing radios to be replaced (using the FCC database) and work with you to determine the best order of priority for replacement
- **Network Design** – Develop and validate the topology and/or route design; conduct site and/or path surveys; analyze path/link performance; and obtain FCC licensing
- **Migration Plan and Statement of Work (SOW)** – Develop and approve a detailed site engineering plan, migration plan, and SOW
- **Deployment** – Install equipment; test and turn up new radios; perform network integration and system acceptance testing; migrate traffic; and decommission old radios
- **Managed Network Services** – Ongoing services that include event and fault management; technical support; performance management; on-site spare parts management; and software delivery services

**The Resources and Tools to Do it Right**
We are a full-service provider of microwave network solutions. We bring to the table a team of seasoned, multi-certified technicians with decades of microwave experience, who work with next-generation software tools and equipment for microwave planning and design. From precision measurement tools for RF surveying to spectrum analysis, range-finding and recordkeeping, we’ve got you covered. Our full wireless lab facilities provide a controlled environment for proof-of-concept development, acceptance and pre-deployment testing, troubleshooting, and fault correction.

We have multiple partnerships with major microwave radio vendors, enabling us to provide you with the best solutions for your challenges, whether they relate to capacity, reach or availability.

**Benefits of new microwave equipment**
- Higher service reliability
- More spectrally efficient
- Ready for latest technology upgrade
- Smaller in size
- State-of-the art microwave radios
- Lower ownership costs

**One of a Suite of Network Modernization Offerings**
As your go-to solution partner for network modernization, Fujitsu also provides solutions for DCS, SONET and Operations Support Systems (OSS). Our experts know how to safely migrate traffic from legacy platforms to new equipment, and have completed over 300 modernization projects since 2014. Fujitsu Network Modernization solutions clear obstacles to success, helping operators progress along their network evolution roadmap and ensuring readiness for future technologies, expansions and upgrades.