

Amdocs Electromagnetic Emission (EME) Services

For communication service providers (CSPs), achieving compliance with regulatory guidelines on electromagnetic emissions is not merely a regulatory mandate; it's a strategic imperative that directly impacts network expansion, stakeholder confidence, and operational continuity. Non-compliance risks – such as regulatory fines, delays in network deployment, and negative public perception – can substantially obstruct business objectives and market competitiveness.

Amdocs Electromagnetic Emission (EME) Services specifically address these challenges. Through detailed measurements, predictive modeling, and compliance tests performed on existing or proposed wireless base stations, we proactively identify and resolve potential massive permissible exposure (MPE) issues, ensuring adherence to RF safety standards set by the Office of Engineering & Technology (OET) Bulletin 65.

To effectively manage each phase of the process, Amdocs offers a suite of specialized services.

Our services include:

- **Pre-EME study:** We conduct a study and produce a report based on your proposed RF design configuration. Mitigation strategies are developed based on predictions from the RF design.
- **Post-EME study:** We perform on-site measurements and inspections to verify the accuracy of the pre-EME report. All mitigation measures are inspected, photos are taken, and compliance is assessed. Any necessary changes are detailed in the report, giving you clear direction on how to remedy any compliance issues.

- **Non-ionizing Electromagnetic Radiation (NIER)/ Jurisdiction reports:** These reports are versions of the pre- or post-EME studies intended for submission to the City Planning Department, complying with local zoning requirements.
- **Site audits:** We conduct on-site inspections and measurements to ensure that sites are compliant based on the existing on-site mitigation and RF configurations.

Benefits

We understand that the primary benefit you seek from an EME study is the assurance of safety in both general and occupational areas, as required. By leveraging theoretical modeling in our design processes, we ensure that you maximize power output while fully complying with the safety standards essential for protecting both the general public and personnel who require routine access. Moreover, our third-party post-reports provide an unbiased site survey that effectively addresses any concerns from landlords and other stakeholders regarding antenna placements.

In delivering these benefits, we bring extensive expertise and specialized tools, enabling the implementation of scalable RF emission programs.

Our expertise

Amdocs possesses deep knowledge and technical acumen, uniquely positioning us to address the complexities of RF emissions management effectively. Our comprehensive approach includes:

- **Design data:** We gather and synthesize all necessary design and implementation data for your network sites, including components, images, and structural details.
- **Design analysis – MPE:** Our team conducts EME studies and, when necessary, collects physical measurements to thoroughly analyze emission levels.
- **Impact mitigation:** From the insights gained through our analysis and potential field measurements, we meticulously design and execute mitigation plans, ensuring they are seamlessly integrated into your operations.

Our tools

To support our expertise and enhance our service delivery, Amdocs utilizes a range of advanced technologies and methodologies:

- **Automation:** Our automation services are designed to enhance efficiency of data access, continual audits, filings and reporting packages.
- **Spatial analysis:** Utilizing Roofmaster and IXUS RF Compliance software, we perform precise theoretical modeling of RF emissions across various structures, including rooftops, towers, small cells, and Distributed Antenna System (DAS) sites.
- **Field measurement:** Employing state-of-the-art instruments like the Narda NBM-550 Broadband Field Meter and the Wavecontrol SMP2 Electromagnetic Field Meter, we conduct non-ionizing radiation surveys, ensuring our emissions remain within regulatory guidelines as outlined in OET Bulletin 65.

Why Amdocs

Amdocs has a proven track record supporting projects throughout all phases of network rollout and acceptance – including but not limited to RAN, transport, and core design, provisioning and troubleshooting services, pre/post launch optimization, provisioning, triage and so on – for multi-vendor, multi-technology heterogeneous networks.

With an experienced network provisioning team, comprising professionals specializing in transport, core and RF engineering, our strength lies in adapting to our customers' needs and requirements, while orchestrating various support teams/vendors to ensure timely delivery and quality.

As a preferred vendor for service providers across the globe, our vast complex configuration integration experience and holistic approach to network management ensures you deliver faster, within budget, and with the highest levels of quality.

For more information on Amdocs Electromagnetic Emission (EME) Services, contact networkmarketing@amdocs.com