News Release

Anritsu Announces a new Uplink Interference measurement to identify interference in 5G and LTE TDD networks

Morgan Hill, CA– October 4, 2023 – Anritsu Company is announcing enhanced functionality to the Field Master™ spectrum analyzer LTE and 5G measurement options. As the rollout and densification of 5G networks accelerates, degradation of network performance resulting from interference in the TDD uplink is becoming more prominent. The latest Field Master software release provides a dual display of the LTE or 5G Frame structure with automatic placement of gates on the Uplink slots alongside the RF spectrum of the gated time slots.

For 5G networks with a coastal or mountainous terrain, RF downlink transmissions readily become subject to atmospheric tropospheric ducting. Signals can travel hundreds of kilometers, resulting in a time offset relative to the far-end base station. The result is downlink power masking the uplink signals from user equipment. It is also essential that there is a common frame slot format deployed on all operator networks in a country, and ideally at international borders. The new uplink interference measurement includes configurations for the common frame slot formats recommended by international standards organizations, including GSMA, ITU-R, and ECC/CEPT.

Anritsu's Field Master spectrum analyzer with LTE and 5G measurement options are the preferred test instrument for regulators and operators globally. The addition of this uplink interference measurement enhances its value by providing detailed insights into the common causes of interference in new TDD networks.

5G and LTE measurements are options for the Field Master Pro MS2090A covering FR1 and FR2 frequency bands and the new Field Master MS2080A for FR1 only networks. In addition to 5G and LTE measurements, a Real Time Spectrum Analyzer captures the detailed transmitter spectrum, and a cable and antenna analyzer accessory facilitates sweeping of feeder cables.

About Anritsu

Anritsu is a provider of innovative communications test and measurement solutions. Anritsu engages customers as true partners to help develop wireless, optical, microwave/RF, and digital solutions for R&D, manufacturing, installation, and maintenance applications, as well as multidimensional service assurance solutions for network monitoring and optimization.

Anritsu also provides precision microwave/RF components, optical devices, and high-speed electrical devices for communication products and systems. The company develops advanced solutions for emerging and legacy wireline and wireless technologies used in commercial, private, military/aerospace, government, and other markets.

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Anritsu Contact:
Stacy Escobar
stacy.escobar@anritsu.com
408.201.1966