Anritsu envision : ensure

5G NR RF TRx Measurement/Protocol Test

Radio Communication Test Station MT8000A

Expandability Supporting 5G

5G NR is a new communications standard intended to increase communications speed and capacity to more than 100 times that of the current LTE standard. It is required to support advances in wireless communications technologies, such as greatly expanded communications bandwidth and use of mmWave, which is not supported by earlier mobile communications.

Anritsu is releasing its new MT8000A solution supporting 5G NR RF Tx measurements and Protocol tests needed to support advances in communications technologies in line with the development of 5G NR.

Three Features of New 5G Test Platform MT8000A

1. Support for Various Test Requirements

MT8000A supports both Non-signalling/Signalling RF TRx measurements as well as Protocol tests on all-in-one hardware by switching applications. Futureproof use over a wide application range is assured by flexible support for changing future test requirements.
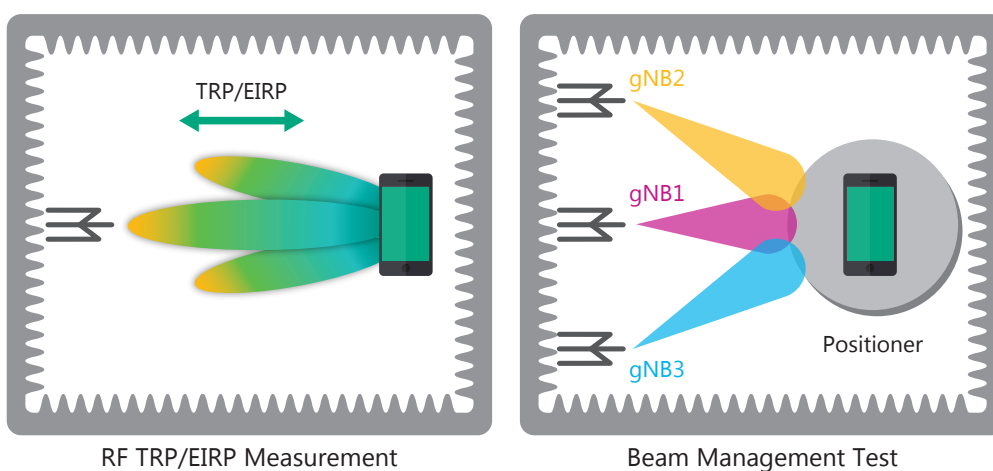
Protocol
Test Application

RF TRx
Measurement
Application

5G NR Application Software

Control PC

MT8000A
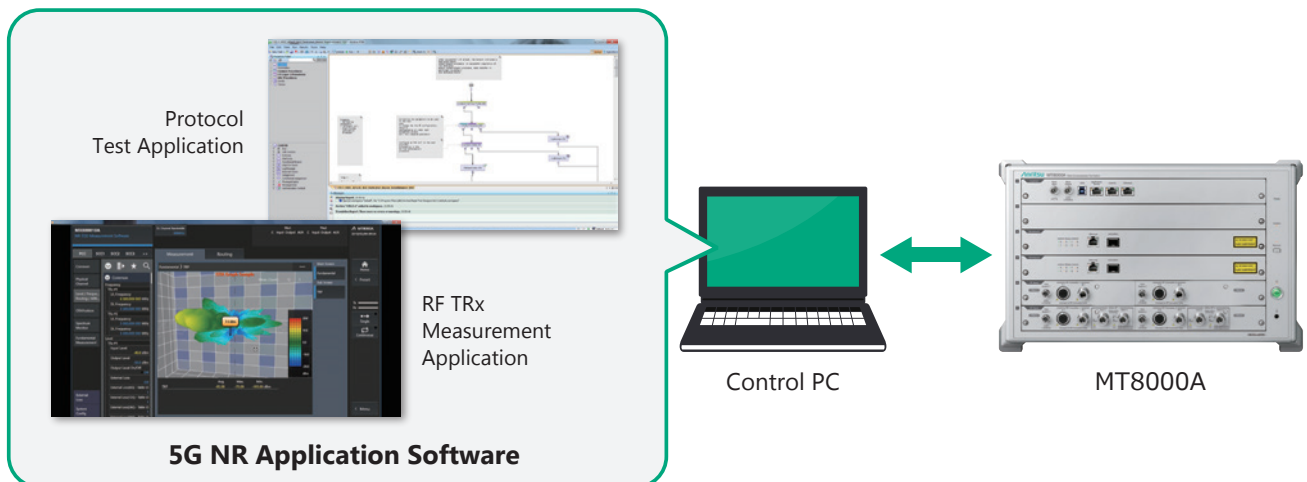
RF TRx Measurement and Protocol Test Environment Image

2. Support for 5G mm-Wave Bands

5G NR requires not only expanded sub-6GHz band test but also the new mmWave band test that is not used by earlier mobile communications.
The main mm-Wave evaluation such as RF TRx measurements based on TRP/EIRP characteristics and handover test with Beam Management require OTA environment.
Combining the MT8000A with the RF Chamber MA8171A supports evaluation of 5G NR terminals in an OTA environment.

RF TRP/EIRP Measurement   Beam Management Test

Example of Millimeter-wave Band RF/Protocol Test in Combination with RF Chamber

3. Early Support for NSA/SA Test Environments

The MT8000A is Anritsu's market-leading NSA test solution (for Non-Standalone, 5G NR and LTE network architectures), but it is also a timely solution (for SA Standalone, and 5G NR-only architectures) expected to be introduced in future markets. In addition, customer can utilize Anritsu LTE measurement solutions such as stable LTE test environment and existing test scenario resource, and easy to configure a 5G-LTE coupled test environment.
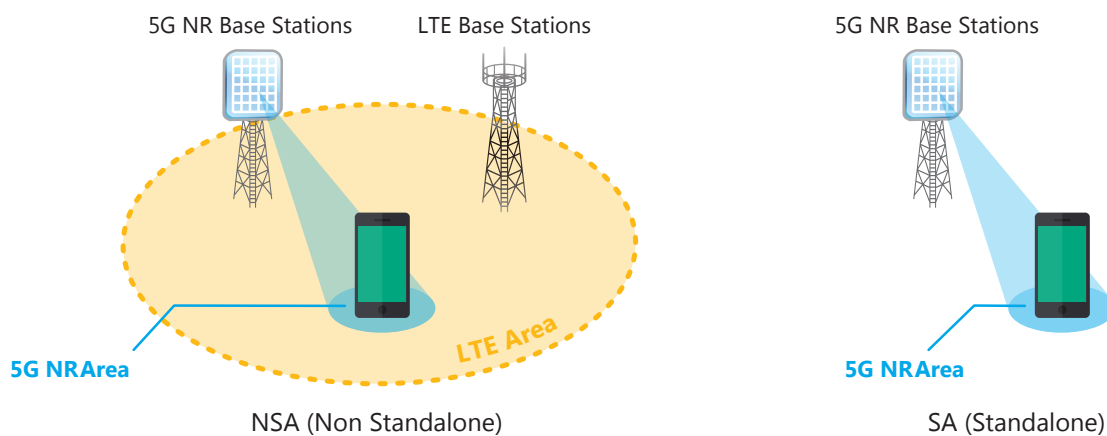

NSA (Non Standalone)   SA (Standalone)

Image of 5G NR NSA/SA Configuration