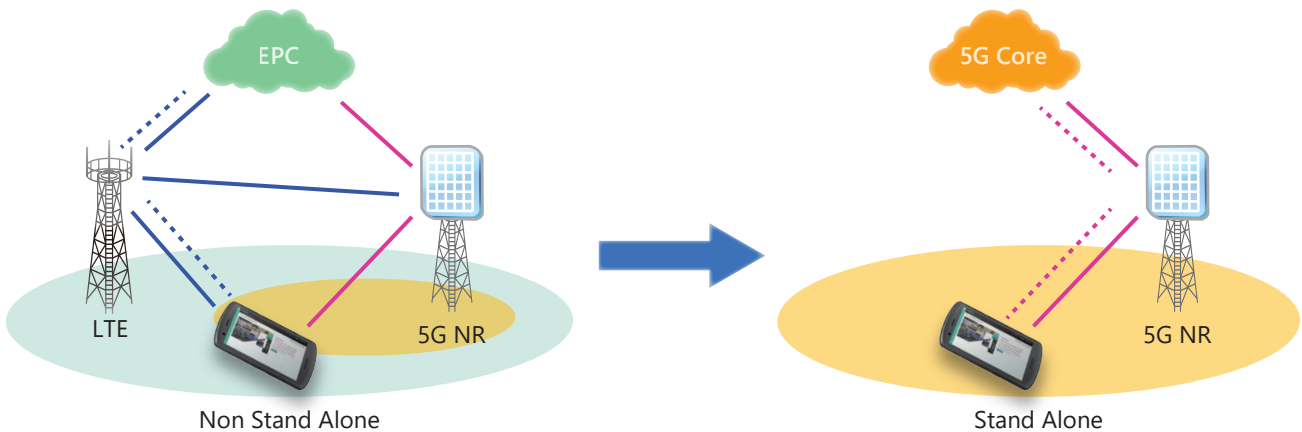


Flexible & Efficient 5G IMS Service Tests

| | |
|----------------------------------|-----------|
| SmartStudio NR | MX800070A |
| Radio Communication Test Station | MT8000A |
| Signalling Tester | MD8475B |

Network Core Change with 5G Stand Alone

With the 4G switch to an all IP (Internet Protocol), various services including voice communications, are being deployed using IP Multimedia Subsystems (IMS). Despite the convenience of these diversifying services, the many functions using IMS incur high inspection costs. Additionally, the future spread of 5G Stand Alone (SA) service will strengthen networks by switching from the Evolved Packet Core used by LTE and 5G Non Stand Alone (NSA) technologies to 5G Next Generation Core (NGC).



Core networks evolving from NSA to SA

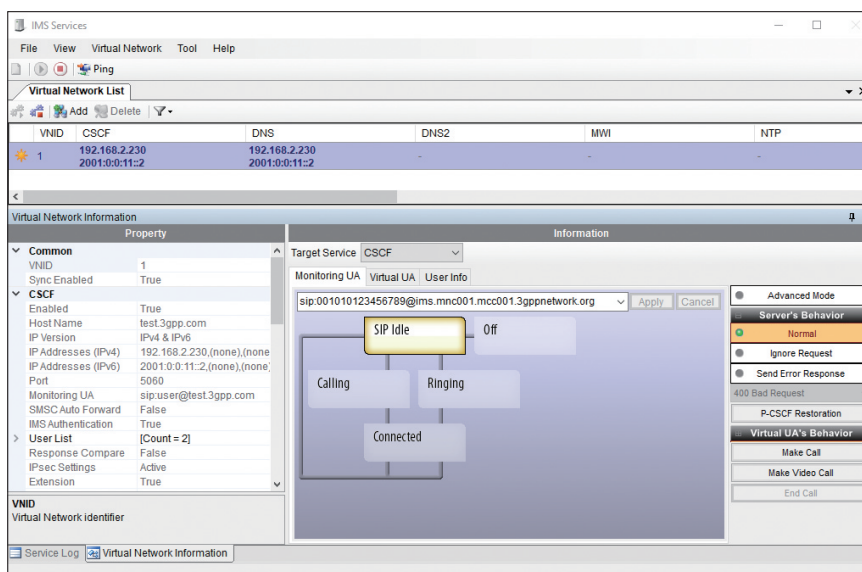
The network core change requires a new 5G IMS evaluation environment, which raises a number of issues.

- Evaluation requires a separate IMS server
- Slight differences in IMS specifications depending on service provider
- High test costs with deployed service diversification

With a built-in IMS server, SmartStudio NR MX800070A has both a Server Mode for scenario-free GUI-based evaluations as well as a Script Mode allowing users to edit IMS messages themselves. The resulting wide coverage from basic to application tests helps cut users' evaluation work loads while supporting flexible testing.

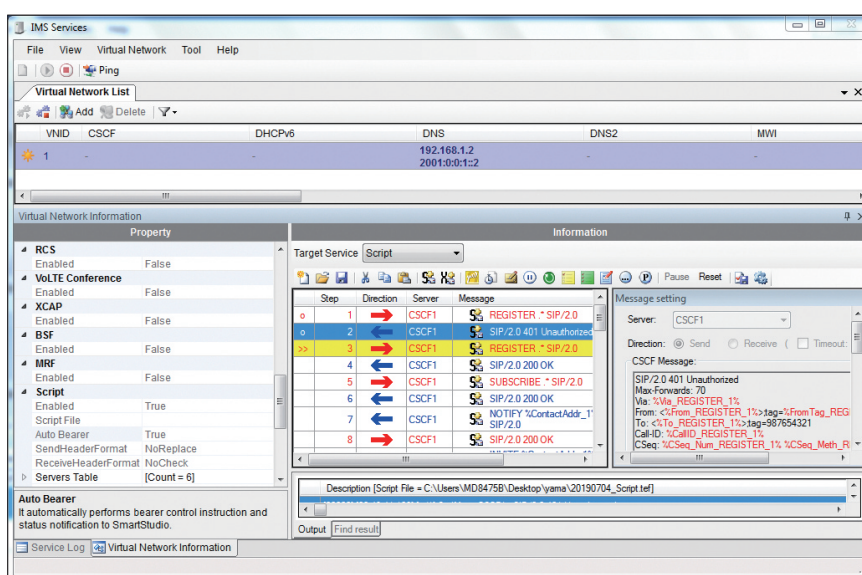
Both Server and Script Modes for Wide Evaluation Range

The easy-to-use SmartStudio NR GUI and Server Mode simplify evaluation of basic IMS functions (EPS Fallback, VoLTE/NR, etc.) while the Script Mode* for user-editing of IMS Messages facilitates application tests.



IMS Server Mode

Easy GUI-based tests of Basic IMS functions eliminates the need for test scripts, helping slash evaluation costs.



IMS Script Mode

Defining application IMS functions and sequences as IMS scripts not only supports testing before standards have been established but also supports slight IMS specification differences depending on operator and chipset.

Scripts used by the IMS Script Mode are still compatible with the Signalling Tester MD8475A/B IMS Script Option, allowing re-use of MD8475A/B-created scripts with SmartStudio NR. Moreover, the sample scripts bundled with SmartStudio NR provide strong support for IMS script development.

*: Requires IMS Script Option MX800070A-081