

The logo for ALifecom, featuring the company name in a bold, italicized, white sans-serif font. The 'A' is stylized with a diagonal slash. The background of the top half of the slide is a dark blue gradient with several glowing blue fiber optic cables and their light points.

# ALifecom

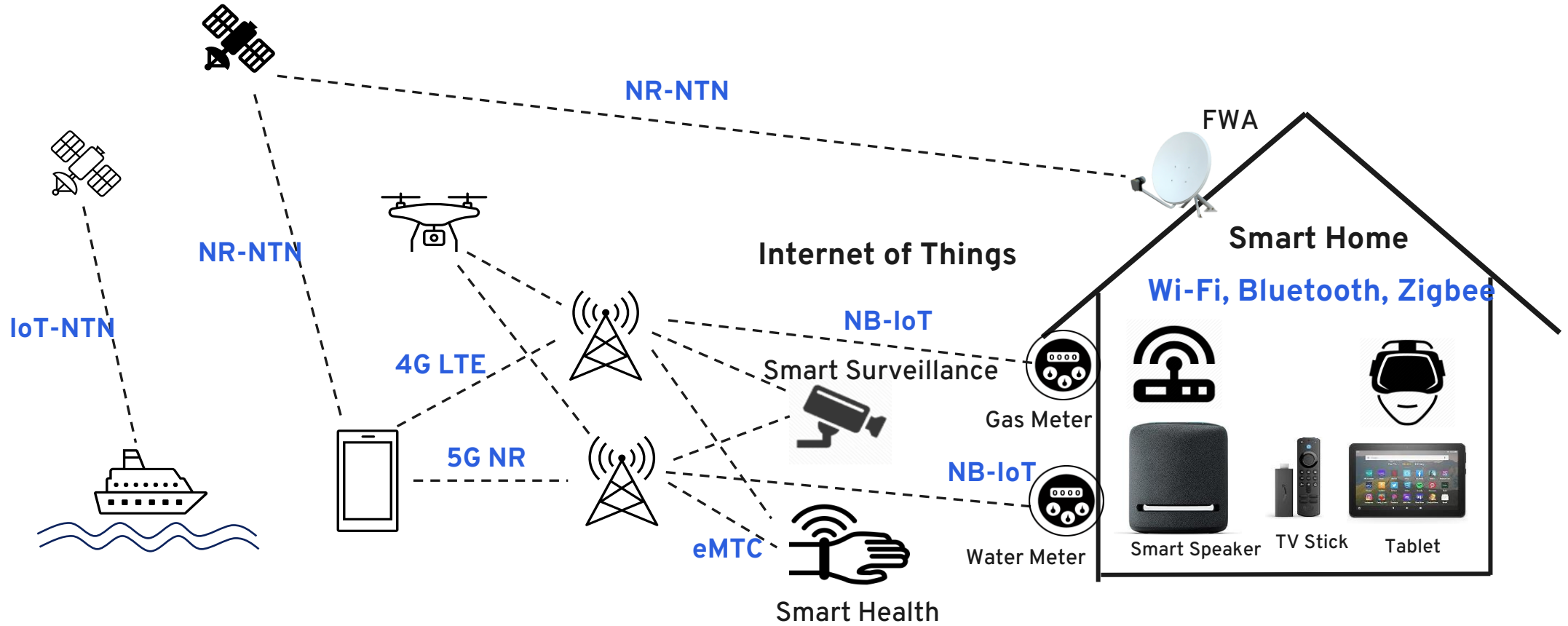
ALifecom Technology Corp.

富宇翔科技股份有限公司

## 無線通信試験ソリューション

-LTE/5Gシグナリング試験 & WiFiノンシグナリング試験 -

# Wireless Connectivity is Everywhere



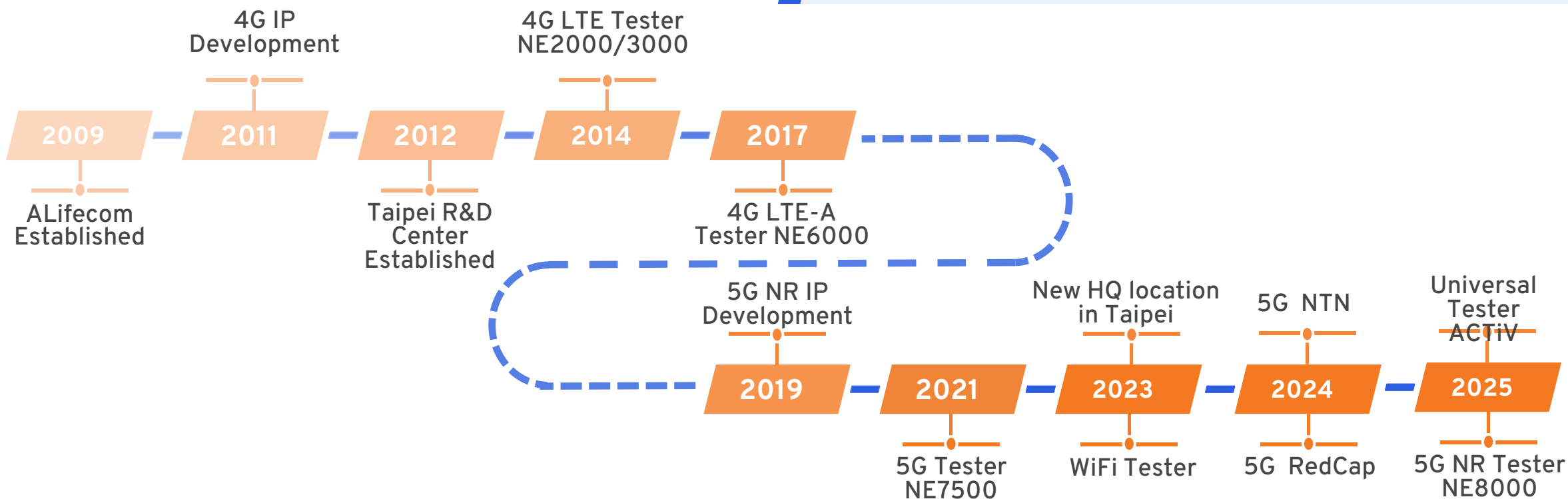
ALifecom develops innovative core IPs and testing solutions for various wireless standards

# Company History

Founded in 2009, ALifecom's expertise is backed by more than 15 years of dedicated IP development in wireless communication.

The only team in Taiwan with complete IP rights across RF module, PHY algorithms, baseband implementation, protocol stacks, and core network software, along with extensive experience in commercialization.

Exceptionally rare even on a global scale!



# ALifecom Products & Services

ALifecom provides cutting-edge test solutions powered by internally developed core IPs, enabling seamless integration and customization.

### IEEE Test Solution Coverage

Wi-Fi	Bluetooth
Sun-OFDM	LoRa
FSK	Zigbee

### 3GPP Test Solution Coverage

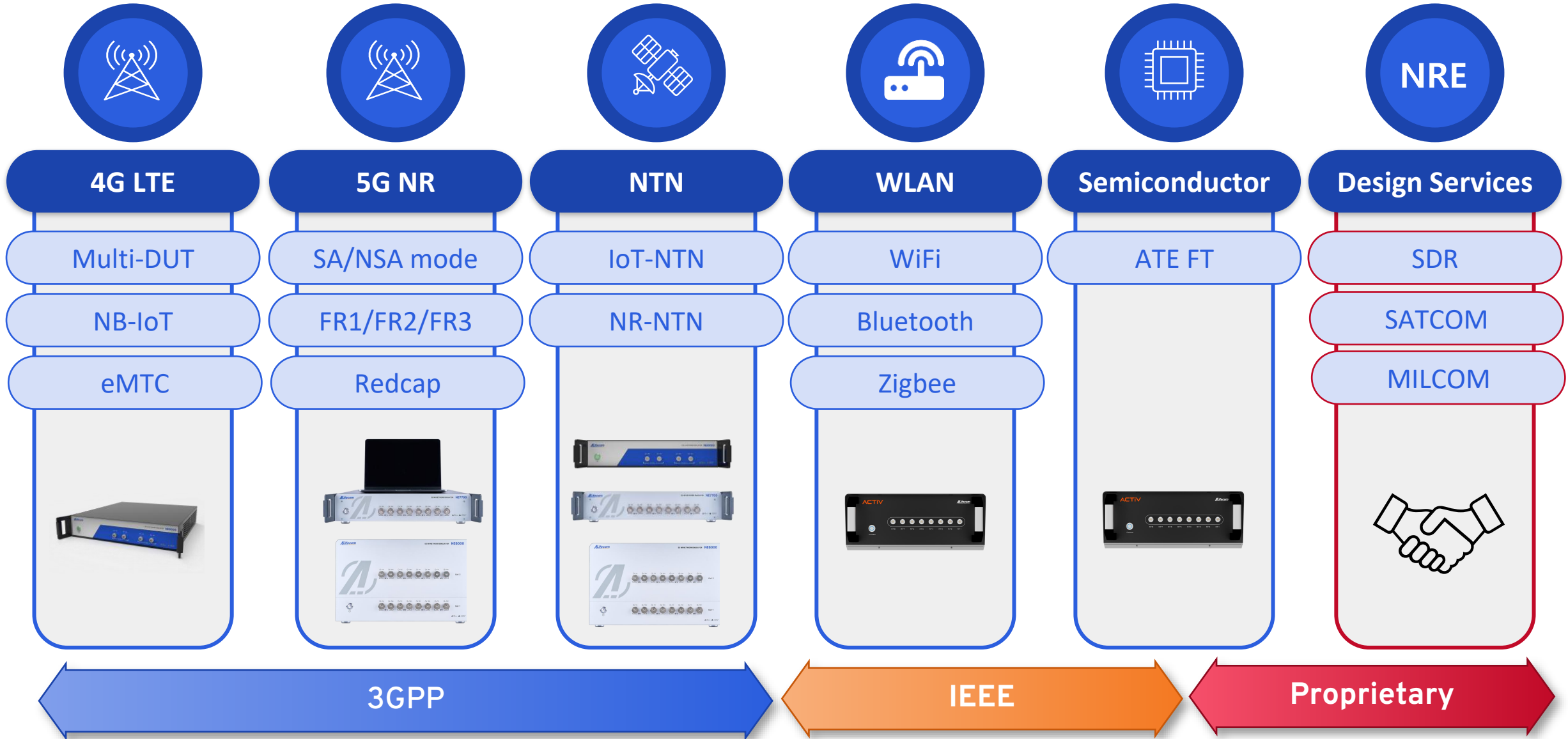
4G LTE	LTE-M
NB-IoT	IoT-NTN
5G NR	NR-NTN
5G RedCap	



### IP Services

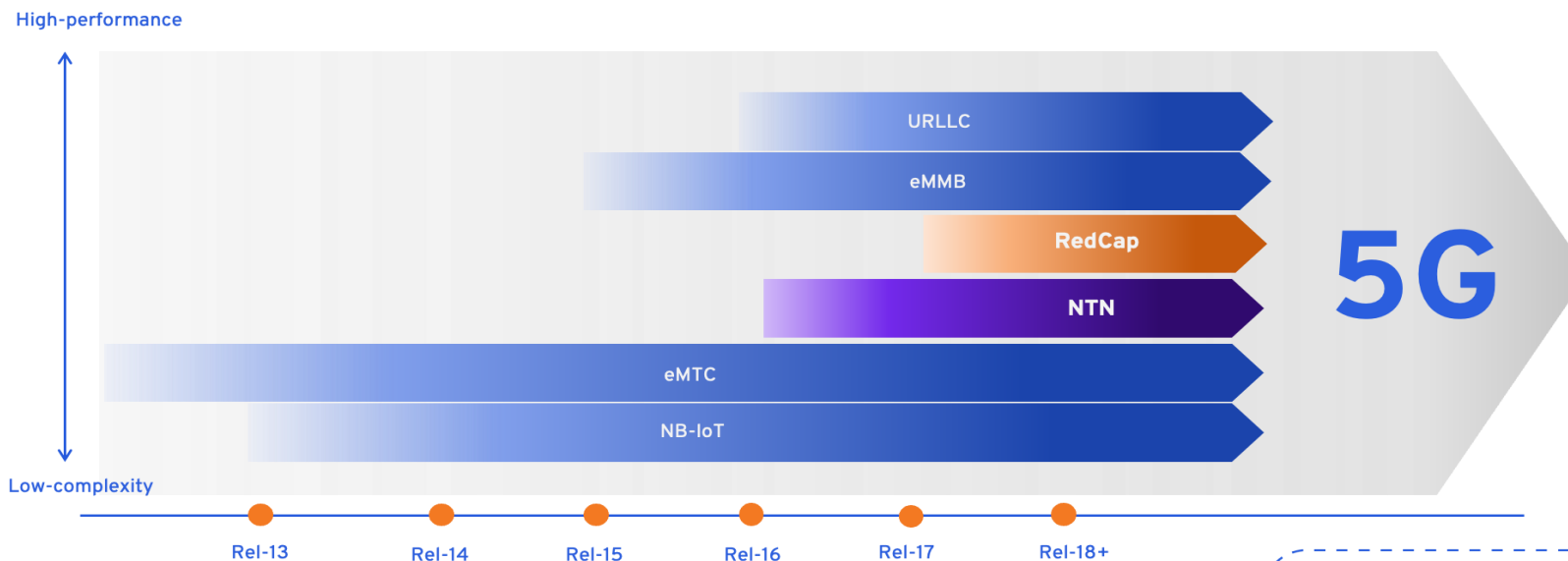
SDR	ORAN
SATCOM	MILCOM
<hr/>	
FPGA	DSP
ASIC	FW
SW	Integration

# Comprehensive Product Portfolio

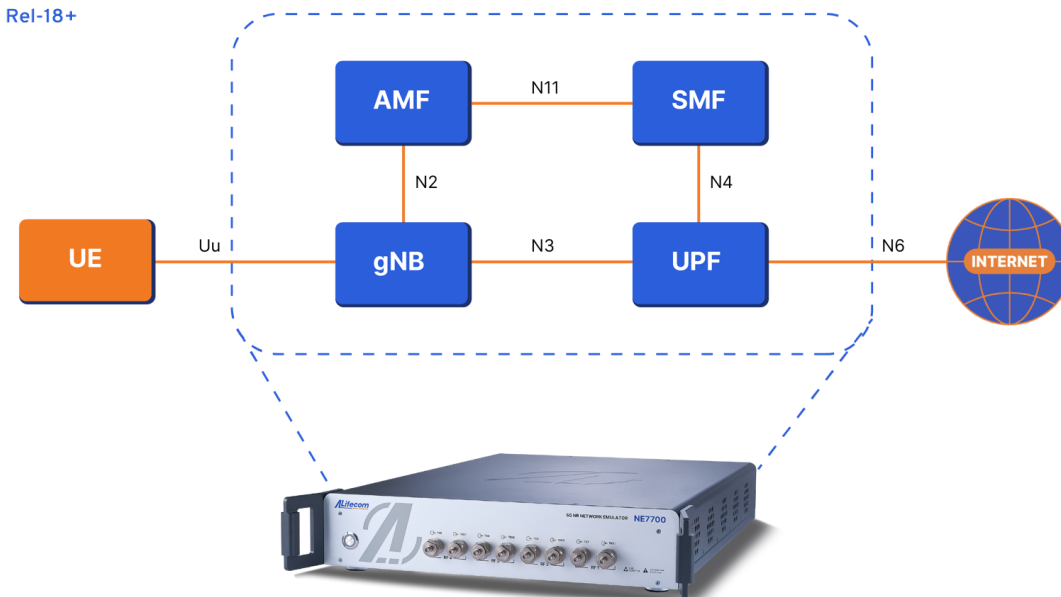


# LTE/5G シグナリングトータルソリューション

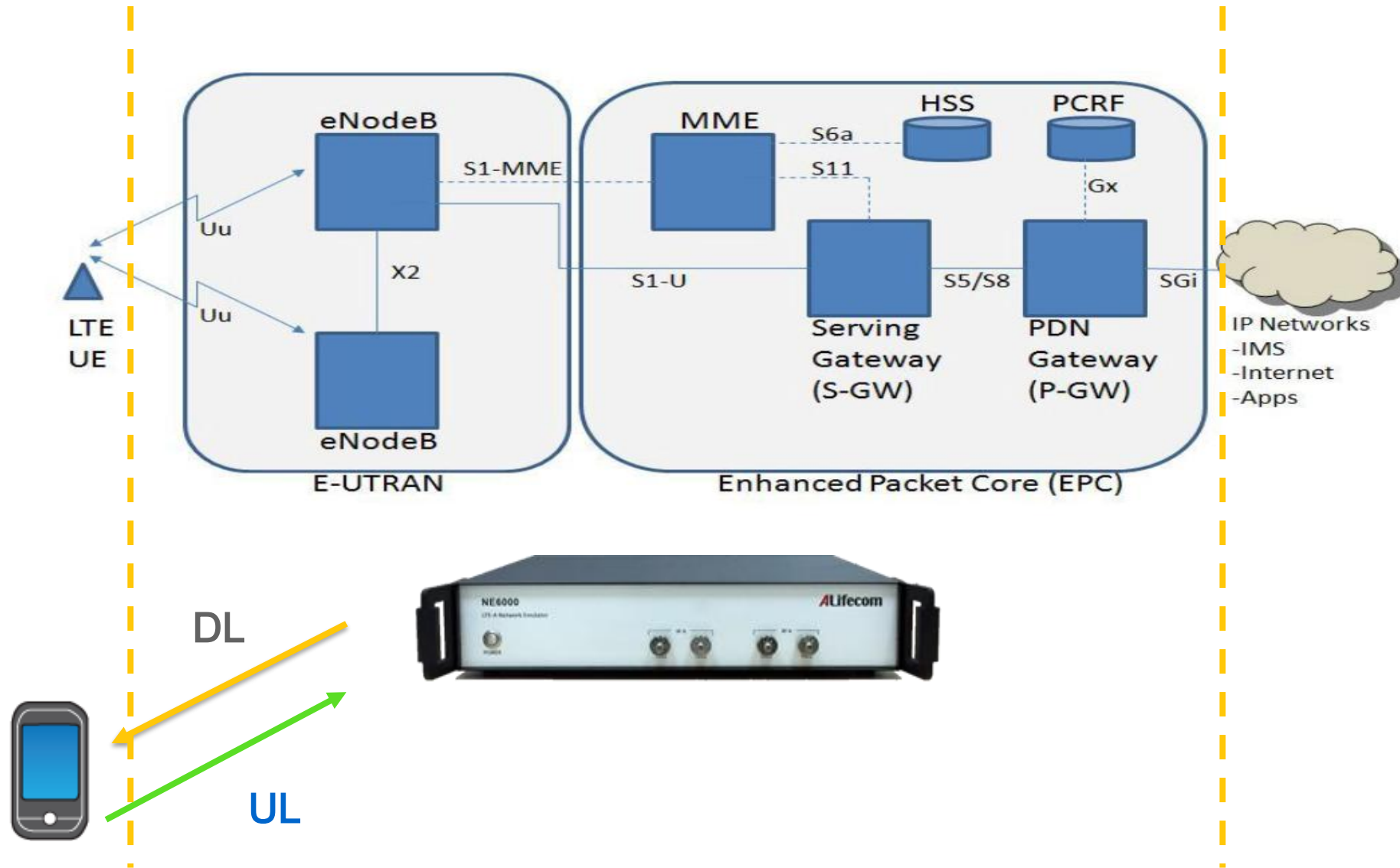
## NE Series overview



- NE7700 emulates 5G gNB and 5GC functionalities in on box
- Supports multiple 5G technologies
  - ▣ 5G NR (SA/NSA) FR1
  - ▣ 5G NR (SA/NSA) FR2
  - ▣ Redcap
  - ▣ NR-NTN



NE Seriesは コアネットワーク機能を搭載した基地局シミュレータ。  
実網環境を模擬した接続試験が可能。



# 4G / 5G Signaling Testers

4G

NE6000

- LTE / LTE-A / eMTC / NB-IOT / IOT-NTN
- SA
- TDD / FDD
- 400 - 3800 MHz
- Bandwidth 1.4/3/5/10/15/20 MHz
- 1x1 SISO / 2x2 MIMO / 4x4 MIMO
- Up to 4CC
- CAT1 - CAT12
- Support 4 UEs

5G

NE7700

- 5G NR (FR1 / FR2 / FR3)
- NR-NTN / Redcap
- SA / NSA
- TDD / FDD
- 400 - 7125 MHz
- Bandwidth 100 MHz
- 1x1 SISO / 2x2 MIMO / 4x4 MIMO
- 1CC
- Up to 256QAM DL / 64QAM UL
- Support 16 UEs

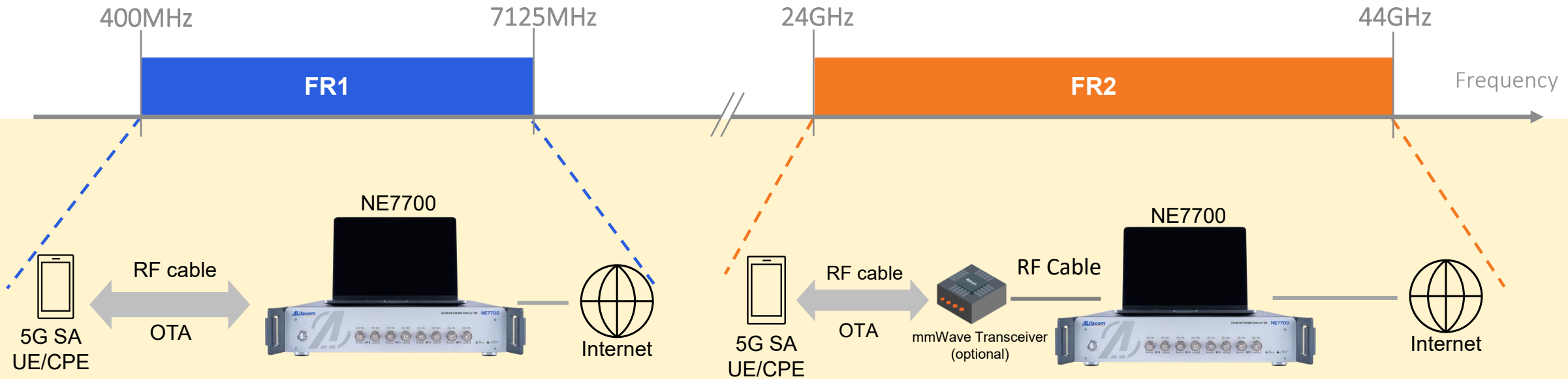
5G

NE8000

- 5G NR (FR1 / FR2 / FR3)
- NR-NTN / Redcap
- SA / NSA
- TDD / FDD
- 400 - 7125 MHz
- Bandwidth 100 MHz
- 1x1 SISO / 2x2 MIMO / 4x4 MIMO
- 1CC / 2CC
- Up to 256QAM DL / 64QAM UL
- Support 16 UEs

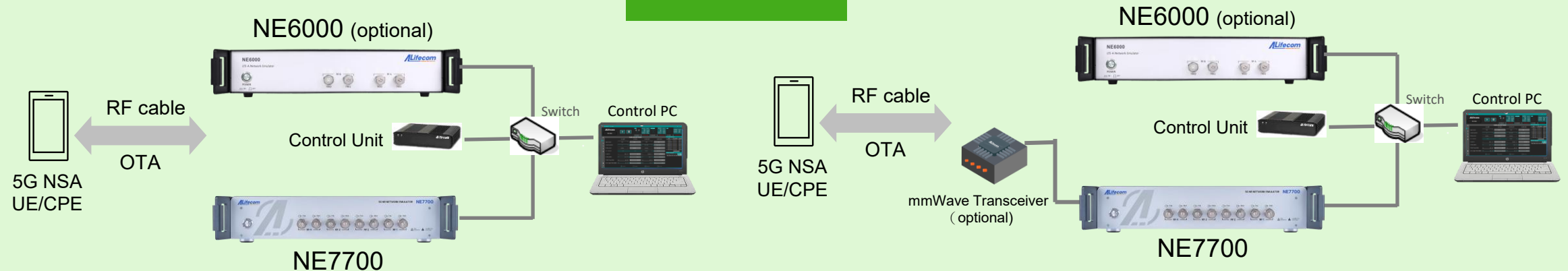


# NE7700 SA/NSA mode



SA MODE

NSA MODE



## ソリューションの優位性

- ・ 業界唯一のシグナリング試験1対4対応：他社設備は基本1対1のみ対応
- ・ 生産ライン投入に適した価格設定：大手他社並みの試験性能を競争力のある価格で提供
- ・ 高効率・高速試験：1対4機能により生産性を最低3倍向上
- ・ 自動化ライン用プログラム提供：お客様の生産ラインへ迅速に導入可能



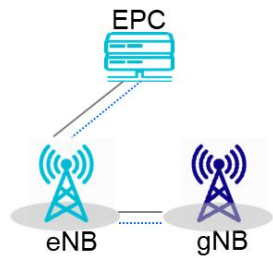
# 5G NR Architecture Options



Option: 1



Option: 3/3a/3x



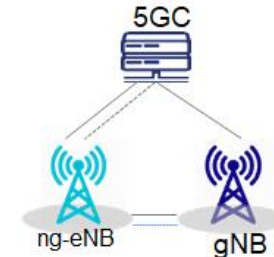
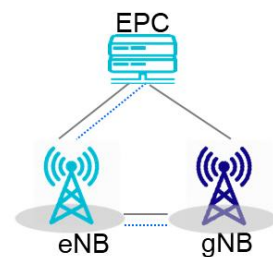
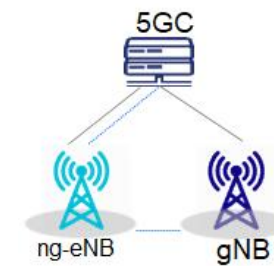
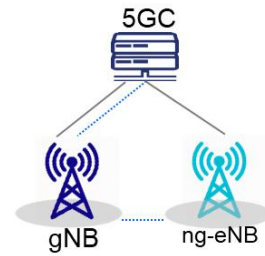
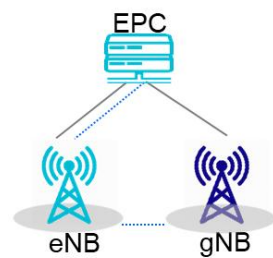
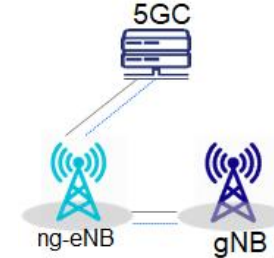
Option: 2



Option: 4/4a



Option: 7/7a/7x



## 5G Architecture Option Priority

- RAN Working Groups shall prioritize Option-3 stabilization and the Option-2 specification work
- Migration to Option-4 and Option-7 starts as soon as Option-2 and Option-3 are stabilized