

Conference Debate Session III



5G in the North American Market: Trials, Misdirection, and Incompatible Technology

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5G in the North American Market



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5G at AT&T



The dawn of the 5G world

How 5G technology will ultimately alter the DNA of the digital experience

- Dec 2018 -5G Mobile
12 Cities for business
on Hotspot device
- June 2019 – 5G Mobile
Smartphones for business
- As of Oct 2019 – 5G Mobile
20 Cities for business
1 NFL stadium
in mmWave bands
- Future – Nationwide 5G
1st half 2020

5G at Sprint



- May 2019 – 5G Mobile
Four cities
- As of Oct 2019
5G Mobile in Nine Cities
in 2.6 GHz band
- Future – Merge with
T-Mobile?

5G at T-Mobile

T-Mobile

Imagine a 5G network for everyone, everywhere.

- June 2019 – 5G Mobile
Six cities
- As of Oct 2019
Six cities
in mmWave bands
- Future – Nationwide 2020
Merge with Sprint?

5G at Verizon

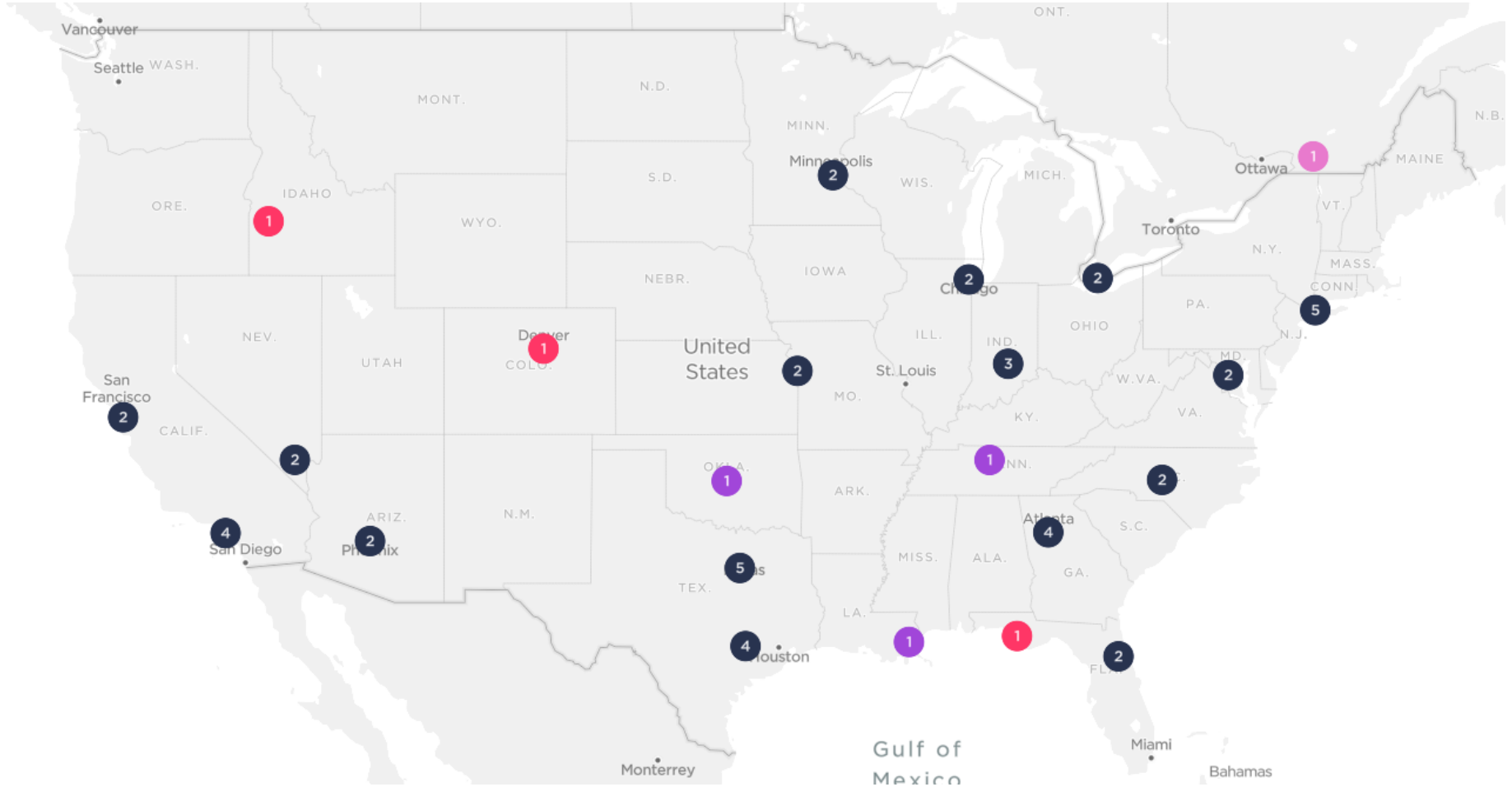


verizon[✓]

#5GBuiltRight

- Oct 2018 – 5G Home
Four city trial
- April 2019 – 5G Mobile
Two cities w/smartphones
- As of Oct 2019
Mobile status
13 Cities, 13 NFL stadiums
in mmWave bands
- Future – 13 more cities
announced, end of 2019

OOKLA 5G MAP™ as of October 2, 2019



Device limitations



- Snapdragon X50 5G Modem
No Dynamic Spectrum Sharing

mmWave

Sub-6 GHz

TDD

Non-
Standalone

- Snapdragon X55 5G Modem
with Dynamic Spectrum Sharing

mmWave

Sub-6 GHz

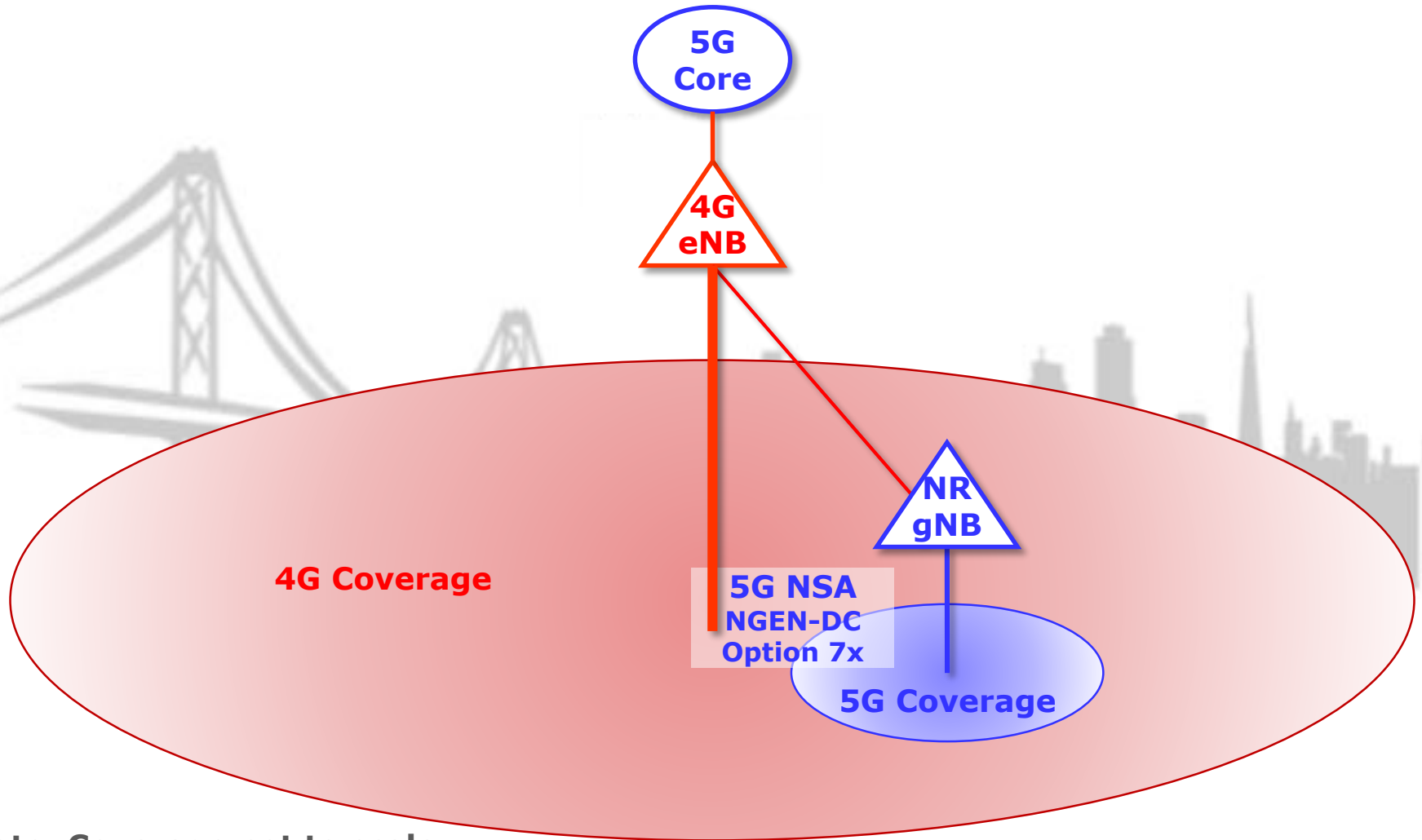
TDD

FDD

Non-
Standalone

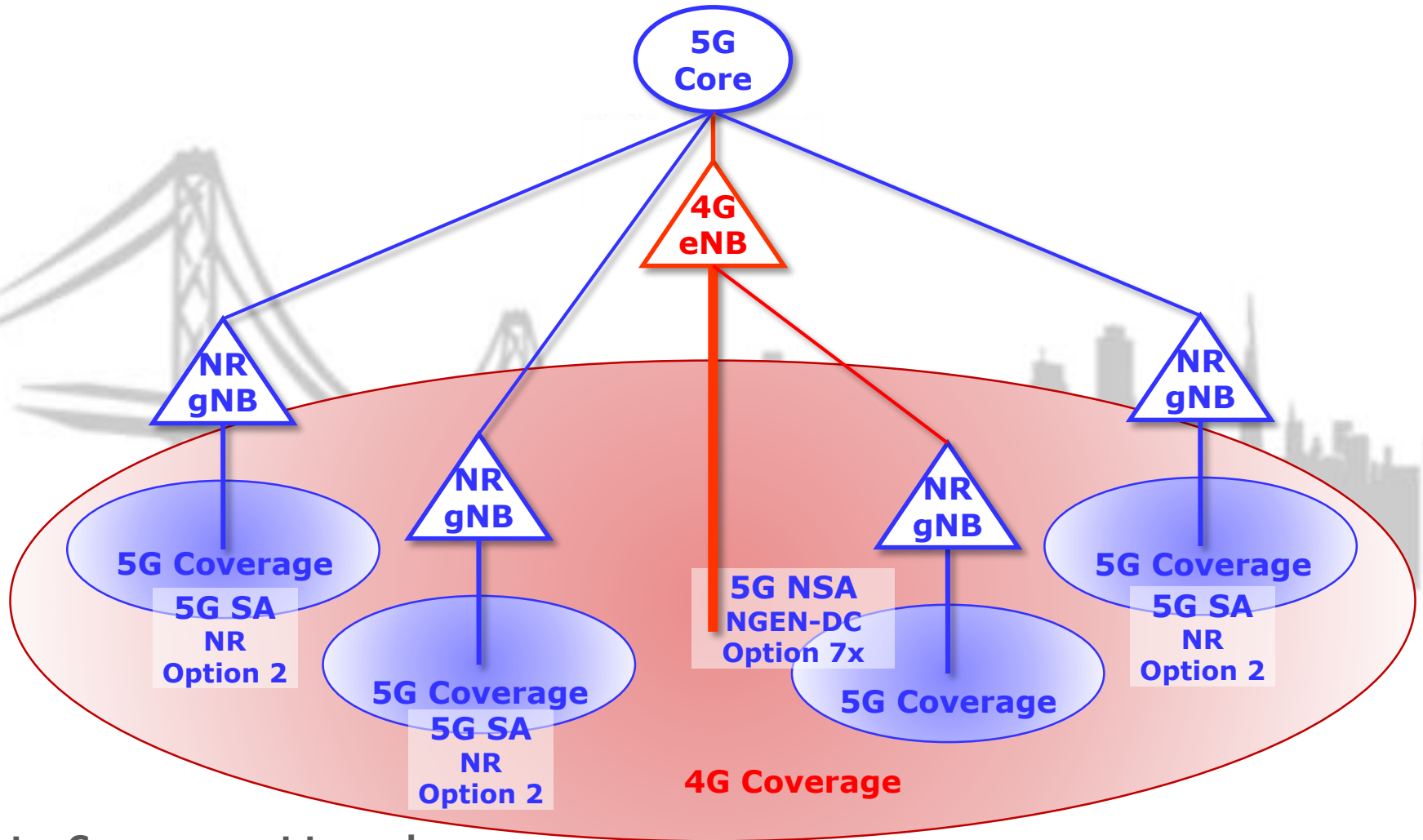
Standalone

5G Core and Dynamic Spectrum Sharing



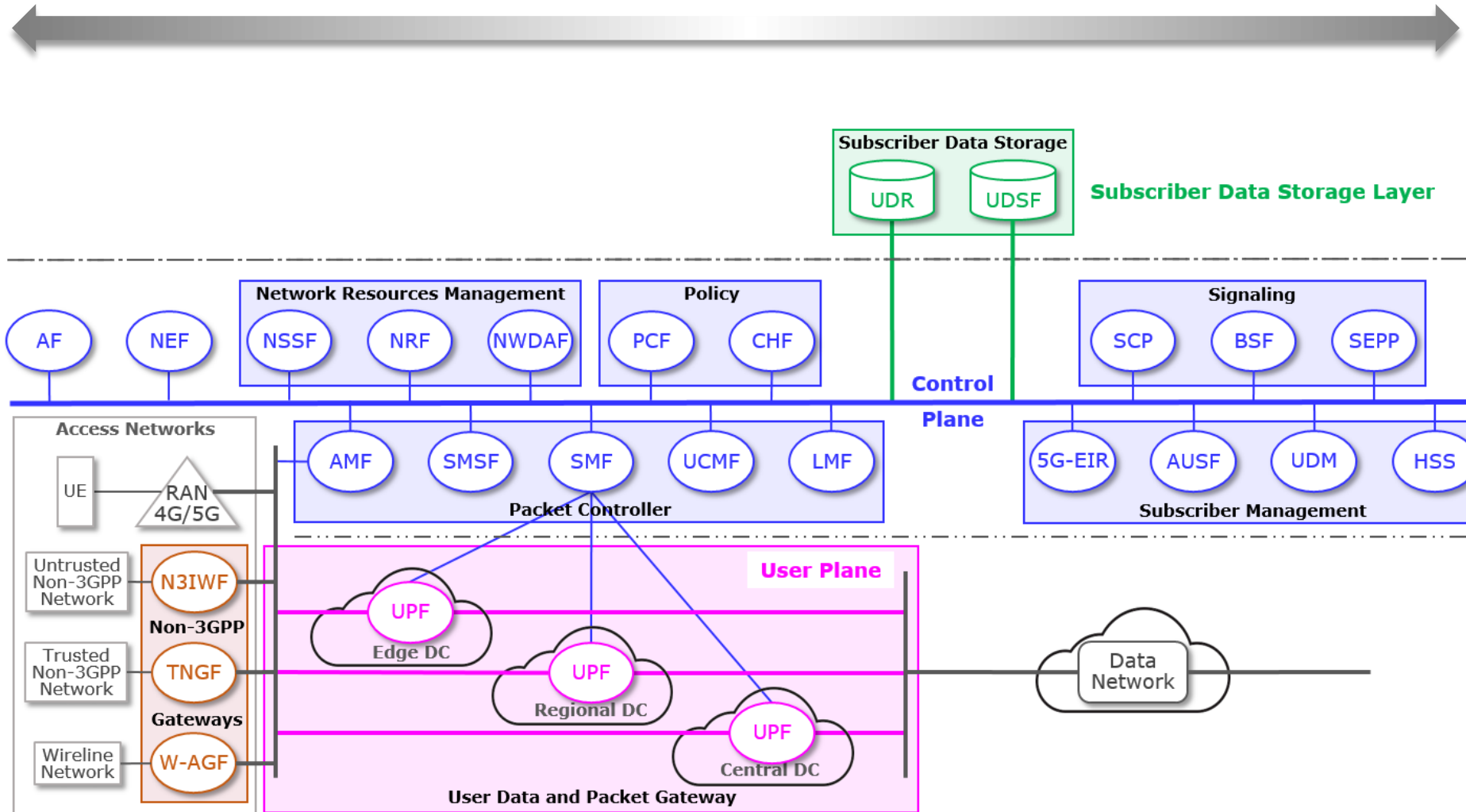
Note: Coverage not to scale

5G Core and Dynamic Spectrum Sharing



Note: Coverage not to scale

5G Core Service Based Architecture



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