

FCC Open RAN Showcase

SAMSUNG

**End to End Open RAN
Solutions**

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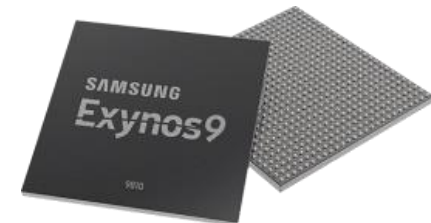
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1. About Samsung Networks
2. Samsung's O-RAN Experience
3. Samsung's O-RAN Contributions
4. O-RAN Considerations
5. Samsung Networks Portfolio
6. Network Services

Samsung Makes



Who is Samsung Networks?

Types of Customers



Radio Access Network

Core / Analytics

Network Services



Samsung's O-RAN Experience

Only tier 1 vendor to execute commercial deployments around the globe



- Samsung Selected by **KDDI** as 5G O-RAN Provider
- Samsung Collaborates with **NTT DOCOMO** on 5G O-RAN Compliant Solutions



- Samsung to Bring Open RAN to Europe With **Vodafone UK**



- Samsung Selected as a 4G LTE Open RAN Provider for **Verizon**
- Samsung Expands 5G Technology Leadership With Fully Virtualized Commercial 5G RAN with **Verizon**
- Samsung & **AT&T** Achieve New Open RAN Milestone with World's First eCPRI Call for mmWave

Samsung's O-RAN Contributions

A leader in O-RAN standards and driving the ecosystem



Active participation in five working groups

Key Contributions:

- Option 7-2x finalization
- Real-time BF, Modulation Compression
- Antenna Array Modeling
- PRACH split
- Rapporteur of Antenna Calibration Approval



Joined LFN as a Platinum member in 2018.
Serves as a board member and within various committee positions.

Key Contributions:

- Source code
- Strategy guidance
- Architecture direction
- Overall subject matter expertise



Current board member and ranks 2nd in the number of commitments for ONAP in 2019

Key Contributions:

- ONAP's main components, service design, service orchestration, and policy framework
- Led activity to perform penetration tests on software for security hardening
- Contributed to adaptation of ONAP provisioning tools



In May 2020, the Open RAN Policy Coalition launched to promote policies that will advance the adoption of open RAN and interoperable solutions to create innovation, spur competition and expand the supply chain for advanced wireless technologies including 5G.

Samsung is one of the founding 31 global companies to join the coalition.

O-RAN Considerations

O-RAN Benefits



Improved feature speed to market



Drives competition & cost efficiency



Best in class vendor options

O-RAN Challenges



Requires different competencies



Early testing, interoperability and verification work



Ownership and service model

Samsung Networks Portfolio

End-to-End 5G Solutions to Enable Diverse Business & Services



Network Services

Full-service, end-to-end capabilities across the services lifecycle



Why Samsung?

- 1 Reliable partner – secure supply chain
- 2 Technology leader – 5G patents, in-house chipsets, ...
- 3 O-RAN/vRAN leader – key customer wins around the world
- 4 End-to-end portfolio – including network services
- 5 6G research already underway!

Thank You

www.samsungnetworks.com

 [Youtube.com/samsung5g](https://www.youtube.com/samsung5g)

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