



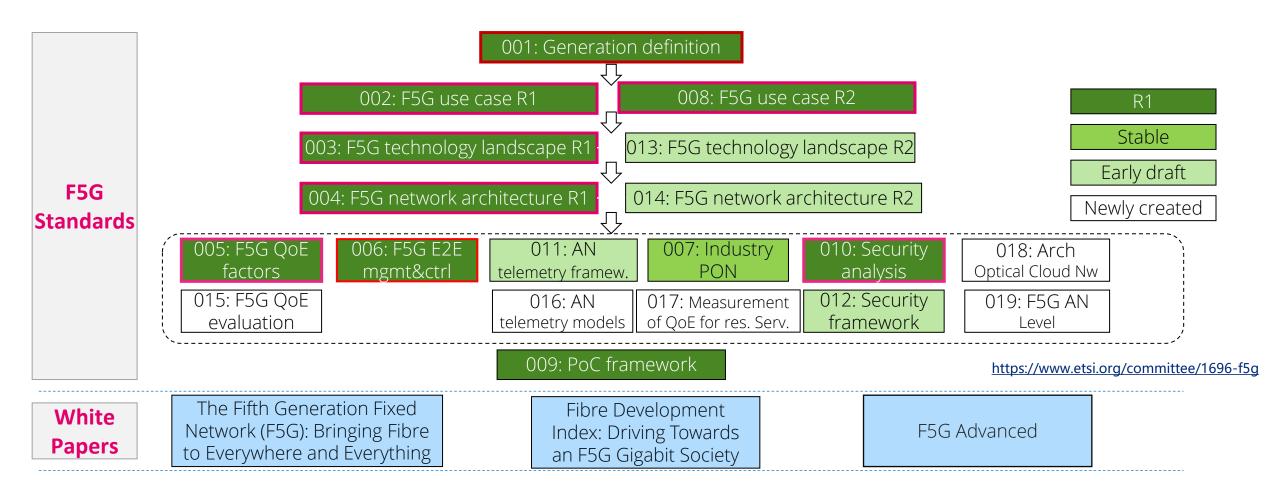
Agenda



- ETSI ISG F5G: a first successful mandate
- A snapshot through the use cases
- What to do next

ISG F5G Standards overview

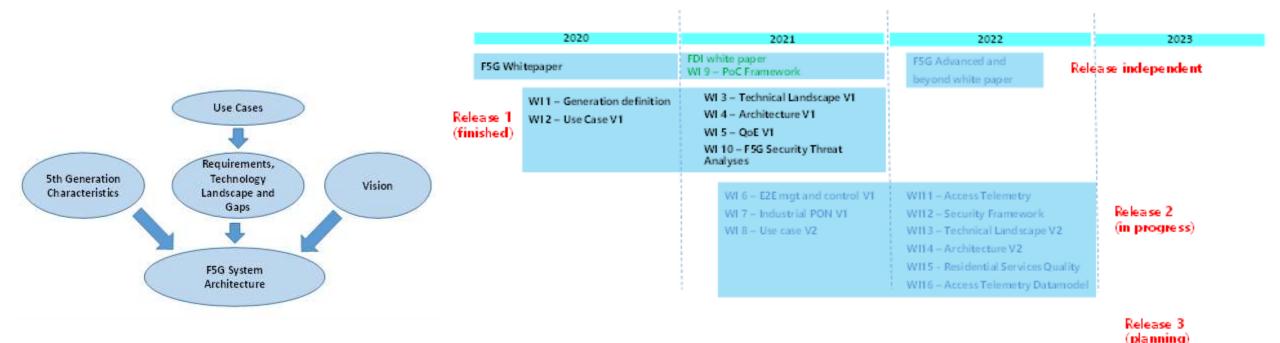




First release of specifications completed by the end of 2021; R2 in progress, based on the set of 18 Use Cases (added to the previous 13, that are the input for requirements and the evolution of the architecture ...

ISG F5G: a first release of specifications and the planned work

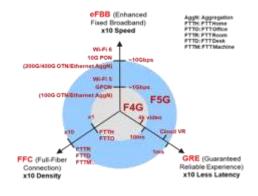




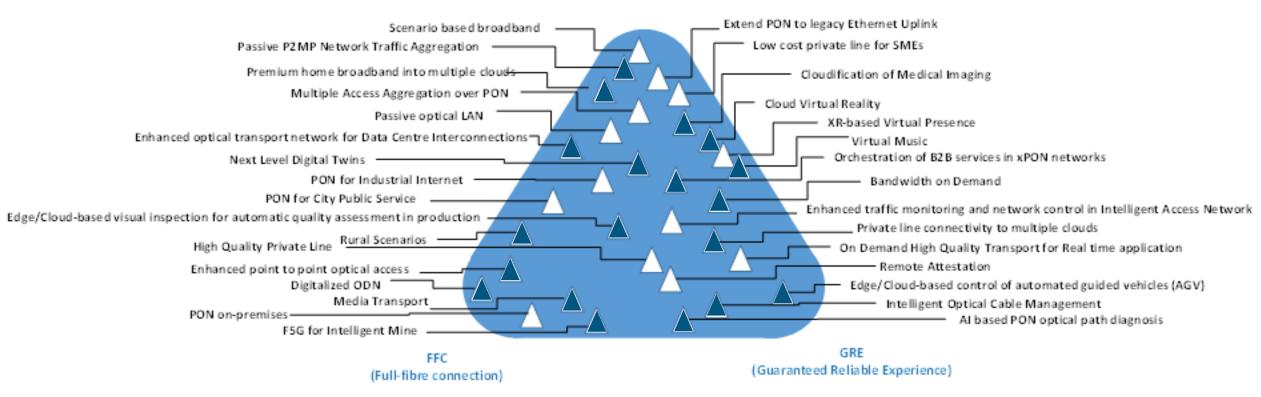
- ETSI GR F5G 001 V1.1.1 Fifth Generation Fixed Network (F5G); F5G Generation Definition Release #1
- ETSI GR F5G 002 V1.1.1 Fifth Generation Fixed Network (F5G); F5G Use Cases Release #1
- ETSI GS F5G 003 V1.1.1 Fifth Generation Fixed Network (F5G); Technology Landscape and Gap Analyses
- ETSI GS F5G 004 V1.1.1 Fifth Generation Fixed Network (F5G); F5G Network Architecture
- ETSI GS F5G 005 V1.1.1 Fifth Generation Fixed Network (F5G); F5G High-Quality Service Experience Factors Release #1
- ETSI GR F5G 010 V1.1.1 Fifth Generation Fixed Network (F5G); Security; Threat Vulnerability Risk Analysis and countermeasure recommendations

F5G a snapshot by UC R1+R2





eFBB (Enhanced Fixed Broadband)



...and the future

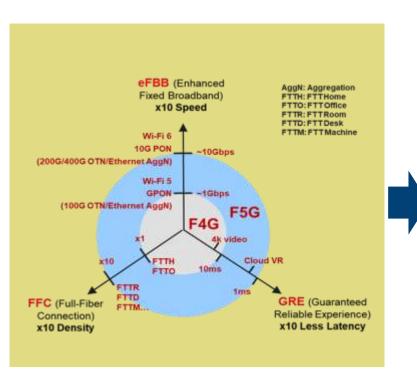




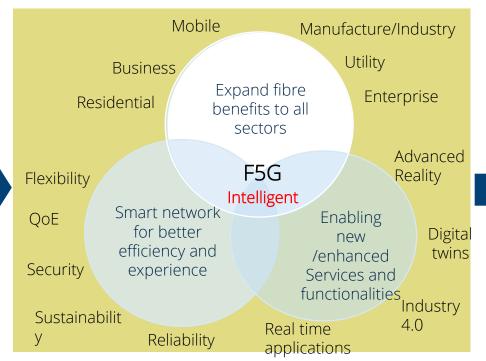
Directions of future evolution: F5G Advanced



F5G: tri-dimensional evolution features

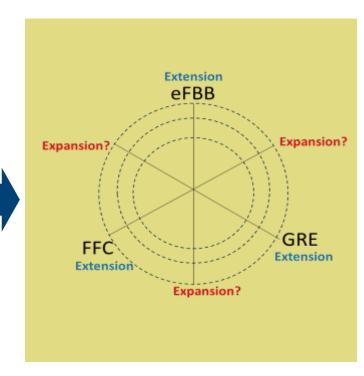


New scenarios and services drive F5G development



Fibre to everything everywhere
Higher speed
Greener
Smarter to guarantee experience of both
operator and end user(digital twins, ADN L4)
Lower latency and zero jitter for machine

Adding New F5G evolution directions



F5G Advanced and Beyond White Paper was created in February during #9 plenary meeting of ISG F5G and plan to publish in September 2022



ISG f5G Way Forward

New roads to explore: the future for F5G in its 3rd White Paper, finalized and available on ETSI web site at https://www.etsi.org/medialibrary/white-papers

Increasing performance

next generation

- UHD immersive experience services
- Digitization of production networks
- Enterprise digitization and cloudification
- Smart optical infrastructures for a Sustainable Society
- Optical access networks simplification to make them more viable
- Moving from TDM to dense WDM...

All these will drive the future releases of requirements, guiding fixed networks technology towards

Fixed 5th Generation Advanced and Beyond



Conclusions

- ISG F5G completed its R1 and, at the beginning of 2022, its second Use Cases release
- 18 new Use Cases for R2 are driving the gap definition and new set of requirements, for enhancing the architecture
- QoE, Security, automation and specific deployments for Industry and Residential customers are in focus for the rest of the active Work Items in ISG F5G
- Leveraging on virtualization and cloudification to exploit the full power of fibre technology
- Besides defining the evolution from the first release of specifications with R2, ISG F5G is now looking ahead to the future with the new white paper, wich is available from https://www.etsi.org/images/files/ETSIWhitePapers/ETSI-WP-50-F5G-Advanced-and-Beyond.pdf



Thank you! Any further questions?

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