



with ETSI

Module 6 – 3GPP



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Section 6 – 3GPP

Master Tech Standardization with ETSI

 Create the standards for 3G, 4G, 5G and starting on 6G

ARIB atis

- CCSA ETSI
- tsdsi T
- TTA The communication
- Specifications created by single 3GPP
- Adopted by each partner organisation to become standards
- Administration hosted by ETSI in South of France
- Technical meetings move around the world



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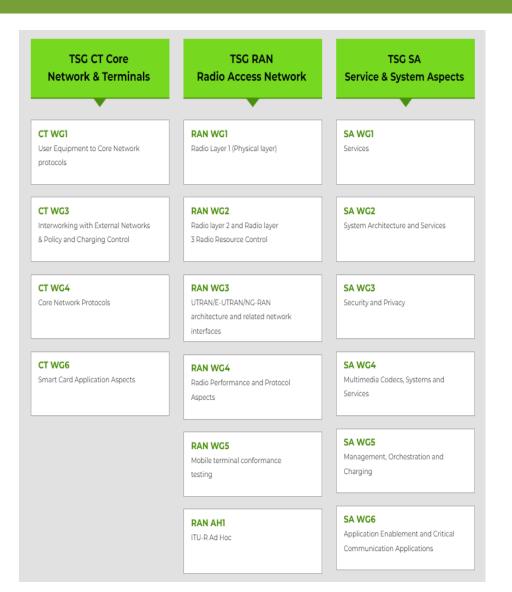
Releases (roughly every 18 months)



A release is a consistent set of specifications

3GPP working groups and work items

Master Tech Standardization





editor, not author

. Uraft

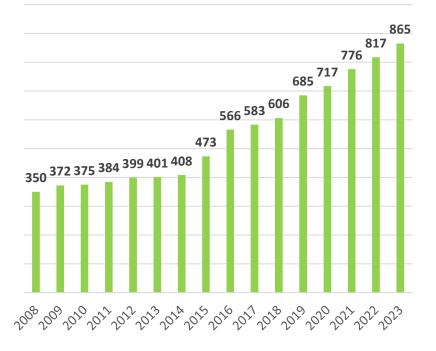
Rapporteur

tracked through version updates through to completion and approval

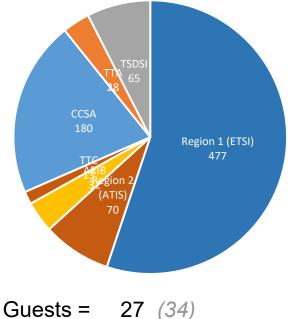
3GPP Membership

Master Tech Standardization with ETSI

- These are organisations not people
- ETSI members pay an additional fee to attend face-to-face meetings



Number of Individual Members rising...



Total membership = 865 (849)

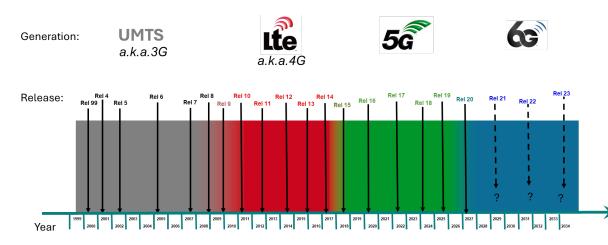
	TSG#102	TSG#101
ETSI	477	470
ATIS	70	64
ARIB	32	32
ттс	13	13
CCSA	180	178
ТТА	28	28
TSDSI	65	64
Total	865	849

Data of 30/11/2023

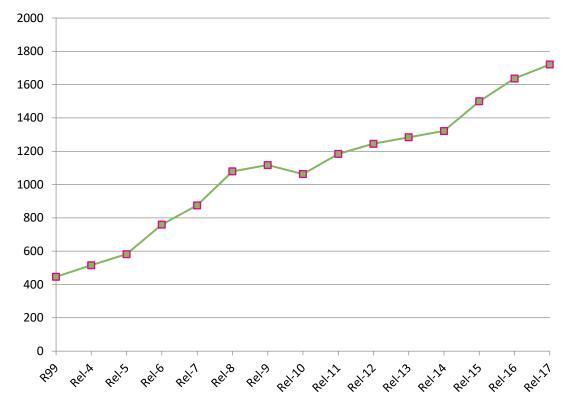
Don't get frightened by the numbers

Master Tech Standardization with ETSI

- OK they are big
- Release 16 has 165,745 pages
- They cover everything from the air interface to the core network protocol
- Easy to find on https://www.3gpp.org/specifications-technologies/specifications-by-series
- Open and free to download



Nbr of specs (frozen Releases)



- As we saw in the last section, corrections and improvements can be made
- A Change Request (CR) is used
- These documents explain what is wrong and how it should be mended
- Again, the numbers are big



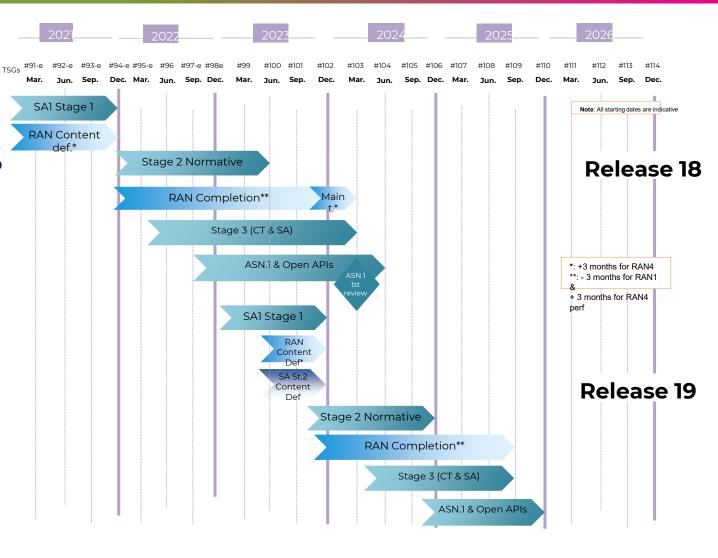


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2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023*



- Major changes are made in releases
- 4G and 5G cover more than one release
- The definition of a G is made outside of 3GPP
- A waterfall approach used
- Stage 1 requirements
- Stage 2 architecture
- Stage 3 detailed specs



Time for 6G





- Initial talks/decisions taking place in SA1 about Rel-20:
 - The first 6G release
 - Studies:
 - All SA1 Rel-20 SIDs to be approved by Sept. 2024
 - Workshop held in May 2024
 - All documents open to all and see the summary - <u>https://www.3gpp.org/component/content/article/stage</u> <u>1-imt2030-uc-ws?catid=67<emid=101</u>

• You could help write these specifications!



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- Learn more about 3GPP on 3gpp.org
- Watch the 5G introductory video -<u>https://vimeo.com/manage/videos/79</u> 0081425
- Read a specification
- Ask the phone salesperson which release of 5G is supported



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Thank you for your attention



