

ETSI TC DECT standardzation activities

Jussi Numminen TC DECT Chair

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ETSI TC DECT introduction

Officials:

Chair Jussi Numminen	Wirepas
Vice chair Guenter Kleindl	OVE
Vice chair Andreas Wilzeck	Sennheiser
TDE chair Marco Zoli	LMS

Meetings since DECT World 2025:

- Increasing activity
  - 4 f2f plenary meetings, 7 online plenary telcos and several rapporteurs meeting streams on top of these.
  - Major standards publication activity during this period.
- Contributions: 432 documents in 2025, 432 documents until now during 2026.
  - One plenary still to go in this year
- Delegates: 25 to 30 persons regularly attending in plenary meetings.

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TC DECT standards activity

DECT-2020 NR core standards

- ETSI TS 103 636-1 DECT-2020 New Radio (NR); Part 1: Overview;
- ETSI TS 103 636-2 DECT-2020 New Radio (NR); Part 2: Radio reception and transmission requirements;
- ETSI TS 103 636-3 DECT-2020 New Radio (NR); Part 3: Physical layer;
- ETSI TS 103 636-4 DECT-2020 New Radio (NR); Part 4: MAC layer;
- ETSI TS 103 636-5 DECT-2020 New Radio (NR); Part 5: DLC and Convergence layers.

Release 1:

- **Versions 1.7.1 of the above standards agreed for** publication on September 2026 and currently underway in ETSI.
  - Main modification is some Part 2 high frequency requirement alignment with release 2.

Release 2:

- **Versions 2.2.1 of the above standards** published in July 2026.
  - Maintenance only work for now on

Regulation and equipment compliance

- **ETSI EN 301 406-1 Harmonized standard for DECT, DECT Evolution and DECT ULE published August 2026**
- Update to ETSI EN 301 406-2 Harmonized standard for DECT-2020 NR equipment compliance
- ETSI TS 104 047-1 DECT-2020 NR Conformance Test Specification; Part 1: Radio Transmission and Reception
- ETSI TS 104 047-2 DECT-2020 NR Conformance Test Specification; Part 2: Radio Protocol
- ETSI TR 103 943 DECT-2020 NR System reference document (SRDoc)

Application related to DECT-2020 NR

- Profile specifications parts 1 to 3 defined per release
- ETSI TS 103 874-1 DECT-2020 New Radio (NR); Access Profile Part-1; Overview
- ETSI TS 103 874-2 DECT-2020 New Radio (NR); Access Profile Part-2; Smart Metering, City and Buildings
  - Release 2 published March 2026
  - Release 1 published April 2026
- TS 103 874-3 DECT-2020 New Radio (NR); Access Profile Part 3; IPv6 Profile
  - Release 1 published January 2026
- **TS 103 874-4 Over the Air Software Update Operation Release 2**
  - **Release 2 published August 2026**

Audio codec

- **TS 103 634 Low Complexity Communication Codec plus (LC3plus) published July 2026**

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TC DECT active work or study items:
DECT-2020 NR

Work items

- TS 103 636-6 DECT-2020 New Radio (NR); Part 6: Security.
  - Major activity on 2nd half 2026.
  - Authentication methods and device provisioning processes
  - CRA harmonized standards drafts information taken into consideration
- TS 103 874-5 Application Specific Profile; part 5: Generic Audio Applications profile
  - Work progressing, discusses also audio application details impacting radio access configuration
- **NEW: TS 103 874-6 Application profile; part 6: Industrial automation**
- TR 103 513 DECT technology roadmap
- **NEW: Release 2 core specifications TS 103 636 parts 1-5 maintenance WI**
- **NEW: Release 3 core specification TS 103 636 part 1-5 WI open, new feature development**
  - **Further discussion in following slides**
- Access profiles Parts 1-4 maintenance for release 1 and updates for release 2
- EN 301 406-2 Harmonized Standard for DECT-202 NR in the 1880-1900 MHz band.
  - Draft addressing EU commission comments, has modified environmental clauses and addition of 1910 to 1920 MHz band.

Study items

- TR 103 897 Study on radio spectrum and related technical requirements for DECT-2020 NR
- TR 104 044 Study on information elements for network co-operation
- TR 104 045 Study on optimizing scheduled access for DECT-2020 NR
  - Major activity on 2nd half 2026
- TR 104 046 Study on Information Elements and Functionalities for spectrum management
- TR 103 777 DECT-2020 New Radio (NR) interface; Study of additional functionality for the support of new applications in further releases (will be opened for new studies)
- **NEW: TR xxx xxx Generic Time Distribution Service**

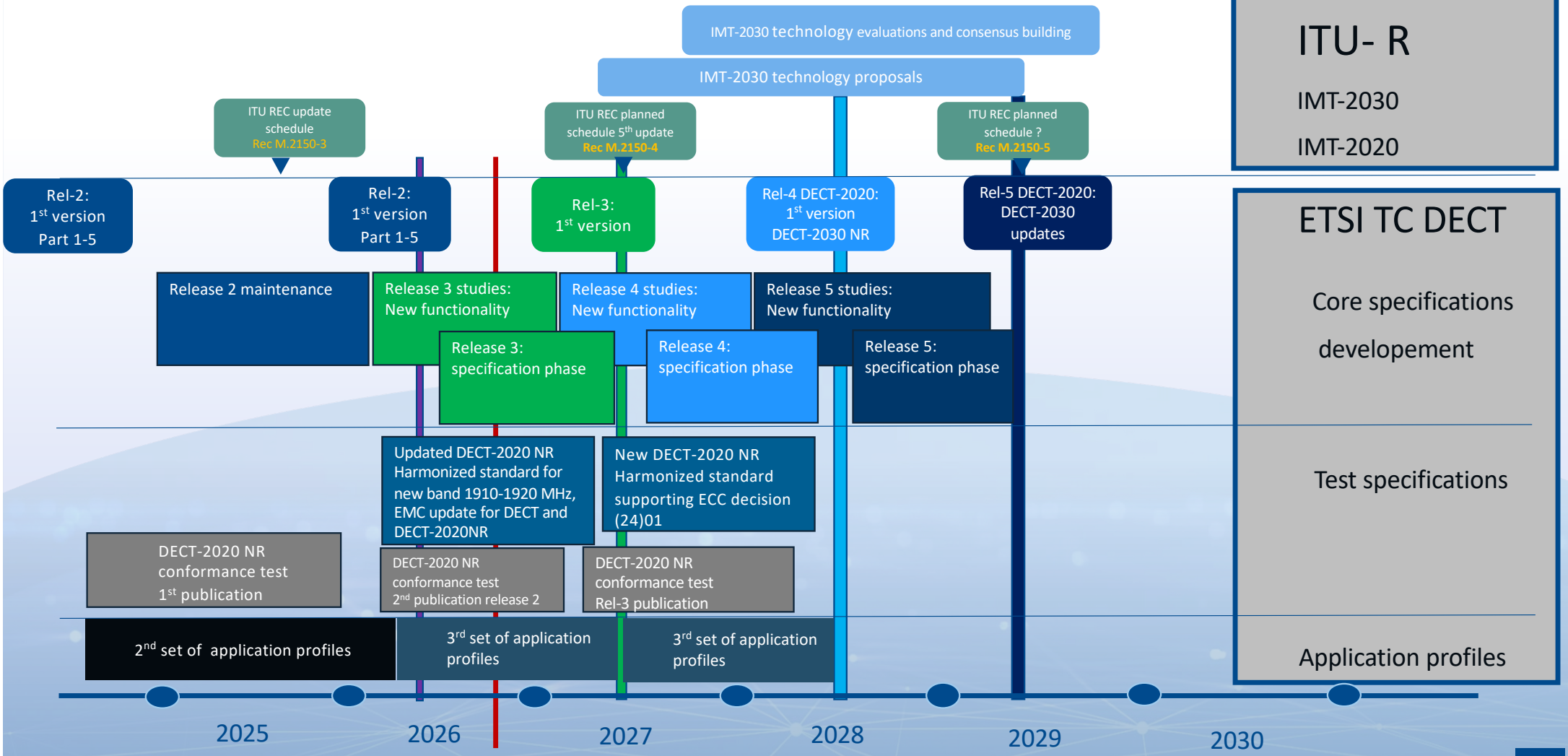
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Release 3 and beyond

- Release 3 and beyond work is now ongoing for core specifications.
  - Release 3 and beyond studies has been ongoing in TR 103 777 and draft TR 104 045
    - TC DECT is currently discussing potential core specification improvements such as more Optimized Phy layer configuration, Scheduled access optimization, Bandwidth optimization for 5, 10 Spectrum management and security enhancements to name few topics
  - IMT-2030 requirement definitions now completed by ITU WP5D
    - IMT-2030 will bring new functionality requirement such as ISAC (integrated sensing and communication) and location capabilities and immersive communication (i.e broadband access) on top of current requirements. Note this list is non exhaustive !
- Profiles
  - Maintenance of part 2, 3 and 4 (Smart metering profile, IPv6, OTA update)
  - Generic audio profile first publication
  - Industry automation profile kick off.
- Test specification
  - Test cases covering new functionality
- Harmonized standard development for 3.8-4.2 GHz operation

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TC DECT DECT-2020 NR release cadence

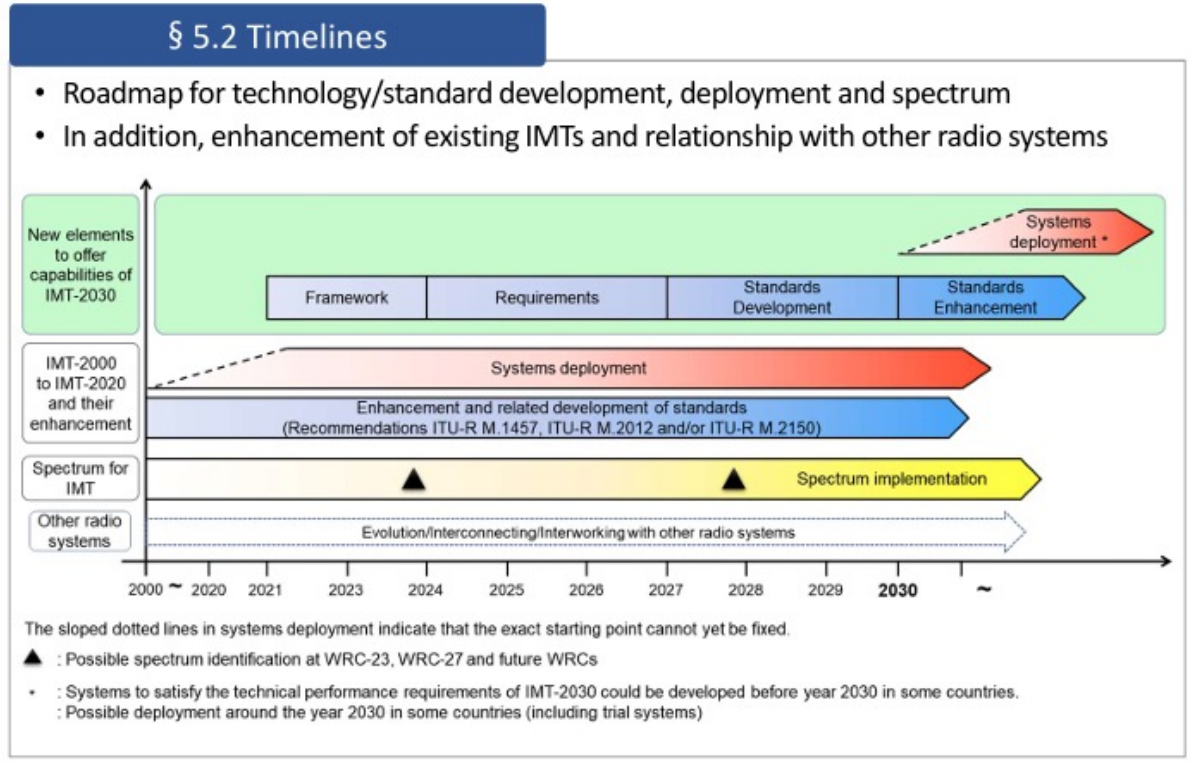


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ITU-R timelines

IMT-2020

- TC DECT will inform ITU-R for new updates of DECT 5G-SRIT specifications for IMT-2020 technology recommendation. 4th update will be completed mid 2027.
- 5th update process will be during WP5D meeting#53 and #54, submission dates between Sept 2026 to Febr 2027.

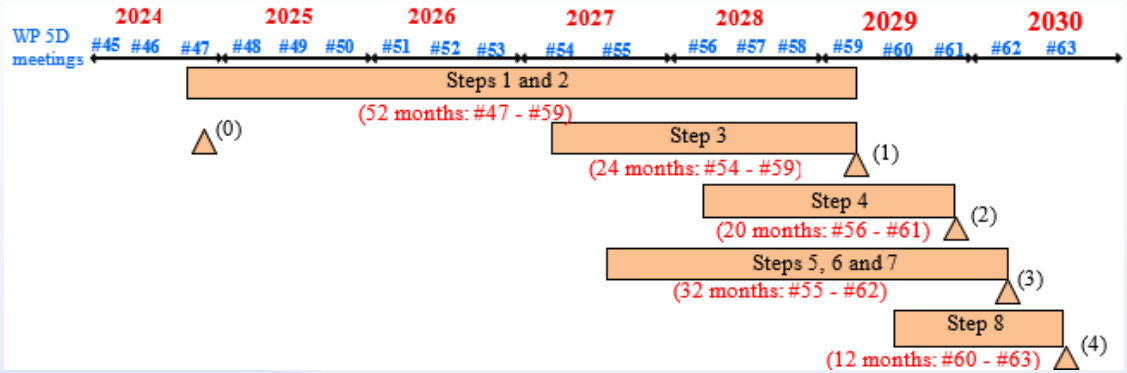


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IMT-2030 process

IMT-2030

- IMT-2030 technology requirements finalization by Octobe 2026 WP5D meeting.
- Technology proposals submission time line is between Mid 2027 to Sept of 2028.



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