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Digital Enhanced Cordless Telecommunications (DECT); New Generation DECT; Part 3: Extended wideband speech services

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Full standard:
<https://standards.iteh.ai/catalog/standards/sist/dac1ab54-3520-4b21-b448-f1b2485e5c9f/etsi-ts-102-527-3-v1.7.1-2019-08>

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Digital Enhanced Cordless Telecommunications (DECT).

The present document is based on ETSI EN 300 175 parts 1 [1] to 8 [8] and ETSI EN 300 444 [12]. General attachment requirements and speech attachment requirements are based on ETSI EN 301 406 [11] (replacing ETSI TBR 006 [i.2]) and ETSI EN 300 176-2 [10] (previously covered by ETSI TBR 010 [i.3]). Further details of the DECT system may be found in ETSI TR 101 178 [i.1].

The present document has been developed in accordance to the rules of documenting a profile specification as described in ISO/IEC 9646-6 [i.14].

The information in the present document is believed to be correct at the time of publication. However, DECT standardization is a rapidly changing area, and it is possible that some of the information contained in the present document may become outdated or incomplete within relatively short time-scales.

The present document is part 3 of a multi-part deliverable covering the New Generation DECT as identified below:

- Part 1: "Wideband speech";
- Part 2: "Support of transparent IP packet data";
- Part 3: "Extended wideband speech services";**
- Part 4: "Light Data Services: Software Update Over The Air (SUOTA), content downloading and HTTP based applications";
- Part 5: "Additional feature set nr.1 for extended wideband speech services".

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

1 Scope

The present document specifies a set of functionalities of the New Generation DECT.

The New Generation DECT provides the following basic new functionalities:

- Wideband speech service (ETSI TS 102 527-1 [21] of this multi-part deliverable).
- Packet-mode data service supporting Internet Protocol with efficient spectrum usage and high data rates (ETSI TS 102 527-2 [i.4] of this multi-part deliverable).
- Extended wideband speech services (the present document).
- Light Data Services: Software Update Over The Air (SUOTA), Content Downloading and HTTP based applications (ETSI TS 102 527-4 [i.5] of this multipart deliverable).
- Additional feature set nr.1 for Extended wideband speech services.

Additional functionalities of the New Generation DECT may be defined in the future in further parts of this multi-part deliverable, or in different documents.

All New Generation DECT devices will offer at least one or several of these services.

The present document describes the part 3: Extended wideband speech services:

- For the description of the wideband speech service, see ETSI TS 102 527-1 [21].
- For the description of the support of transparent IP packet data, see ETSI TS 102 527-2 [i.4].
- For the description of the Light Data Services: Software Update Over The Air (SUOTA), Content Downloading and HTTP based applications, see ETSI TS 102 527-4 [i.5].
- The description of the additional feature set nr.1 for Extended wideband speech services will be published as ETSI TS 102 527-5 [i.13].

Part 3 ("Extended wideband speech services") is defined as an extension of part 1 ("Wideband speech" [21]), which means that all devices compliant to the present document will also implement at least all mandatory features and may implement the optional features defined in part 1. In addition to that, the present document defines additional mandatory or optional features.

Part 1 [21], and therefore part 3, are also defined as extensions of the "Generic Access Profile (GAP)" [12]. All DECT devices offering Wideband speech services (part 1 or part 1 plus part 3) are also compliant with the "Generic Access Profile (GAP)" [12], and offer the DECT standard 32 kbit/s voice service according to GAP [12].

All DECT devices claiming to be compliant with this Application Profile will offer at least the basic services defined as mandatory. In addition to that, optional features can be implemented to offer additional DECT services.

The aim of the present document is to guarantee a sufficient level of interoperability and to provide an easy route for development of DECT wideband speech applications, with the features of the present document being a common fall-back option available in all compliant to this profile equipment.