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Kibernetska varnost (CYBER) - CRA - Zahteve za kibernetsko varnost za osebne nosljive naprave

Cyber Security (CYBER) - CRA - Cybersecurity requirements for personal wearable

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Foreword

This draft Harmonised European Standard (EN) has been produced by ETSI Technical Committee Cyber Security (CYBER), and is now submitted for the combined Public Enquiry and Vote phase of the ETSI Standardisation Request deliverable Approval Procedure (SRdAP).

The present document has been prepared under the Commission's Standardisation request M/606 - C(2025)618 [i.3] to provide one voluntary means of conforming to the requirements of EU Regulation No 2024/2847 of the European Parliament and of the Council of 23 October 2024 on horizontal cybersecurity requirements for products with digital elements and amending Regulations (EU) No 168/2013 and (EU) No 2019/1020 and Directive (EU) 2020/1828 (Cyber Resilience Act) (CRA) [i.1].

Once the present document is cited in the Official Journal of the European Union under that Regulation, compliance with the normative clauses of the present document given in Table A.1 confers, within the limits of the scope of the present document, a presumption of conformity with the corresponding requirements of that Regulation and associated EFTA regulations.

Proposed national transposition dates	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	18 months after doa

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.

Introduction

The present document provides the technical cybersecurity requirements for the products in scope, following a risk-based approach in support of the Regulation (EU) 2024/2847 [i.1]. The technical cybersecurity requirements are thereby proportionate to the intended purpose, reasonably foreseeable use, deployment context, and threat exposure of the products:

- Clause 4 does not contain technical requirements; it describes the product context that is considered for the application of the present document.
- Clause 5 specifies technical cybersecurity requirements for the product to mitigate the identified risks, including their applicability conditions.
- Clause 6 specifies the assessment criteria and compliance verification procedures with the requirements of clause 5.
- Annex A maps the technical requirements of the present document with the essential requirements of the Regulation (EU) 2024/2847 [i.1].
- Annex B informs about the methodology used to assess the security risks of the products in their context.
- Annex D maps the data assets and function assets addressed by the present document to their impact classes. This mapping is necessary to identify the technical requirements and the related details that are to be applied for a product.
- Annex E provides specific technical requirements and related assessment criteria for certain protection measures that might be required for a product according to clause 5.
- Annex F provides guidance on the application of the present document.
- Annex K supports the definition of the cryptographic requirements and assessment criteria used by the present document.
- Annex R provides guidance on applying the technical requirements of the present document on Remote Data Processing Solutions (RDPS).

1 Scope

The present document specifies technical requirements and corresponding assessment criteria for personal wearable products that have a health monitoring purpose or that are intended for the use by and for children, related to cybersecurity. The products with digital elements in scope, thereafter "personal wearable":

- are specified within the "technical description" of the "category of product" number "19" by the Commission Implementing Regulation (EU) 2025/2392 of 28 November 2025 [i.2] as:
"Personal wearable products to be worn or placed on a human body that have a health monitoring (such as tracking) purpose and to which Regulation (EU) 2017/745(2) or (EU) 2017/746 of the European Parliament and of the Council do not apply, or personal wearable products that are intended for the use by and for children".
- are only covered within the product context described in clause 4.

The present document covers those products to demonstrate compliance with essential cybersecurity requirements in the Regulation (EU) 2024/2847 [i.1] Annex I Part I under the conditions identified in Annex A.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found in the [ETSI docbox](#).

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long-term validity.

The following referenced documents are necessary for the application of the present document.

- [1] [ENISA Report 1747792503](#) (version 2 - April 2025): "European Cybersecurity Certification Group Sub-group on Cryptography Agreed Cryptographic Mechanisms".

2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long-term validity.

The following referenced documents may be useful in implementing an ETSI deliverable or add to the reader's understanding but are not required for conformance to the present document.

- [i.1] [Regulation \(EU\) 2024/2847](#) of the European Parliament and of the Council of 23 October 2024 on horizontal cybersecurity requirements for products with digital elements and amending Regulations (EU) No 168/2013 and (EU) No 2019/1020 and Directive (EU) 2020/1828 (Cyber Resilience Act).
- [i.2] [Commission Implementing Regulation \(EU\) 2025/2392](#) of 28 November 2025 on the technical description of the categories of important and critical products with digital elements pursuant to Regulation (EU) 2024/2847 of the European Parliament and of the Council.

[i.3] [Standardisation request M/606 - C\(2025\)618](#): "Commission Implementing decision of 3.2.2025 on a standardisation request to the European Committee for Standardisation (CEN), the European Committee for Electrotechnical Standardisation (Cenelec) and the European Telecommunications Standards Institute (ETSI) as regards products with digital elements in support of Regulation (EU) 2024/2847 of the European Parliament and of the Council of 23 October 2024 on horizontal cybersecurity requirements for products with digital elements and amending Regulations (EU) No 168/2013 and (EU) 2019/1020 and Directive (EU) 2020/1828 (Cyber Resilience Act)".

[i.4] prEN 40000-1-1: "Cybersecurity requirements for products with digital elements – Vocabulary" (produced by CEN CENELEC).

NOTE: Version and date to be added upon its publication by CEN CENELEC.

[i.5] prEN 40000-1-3: "Cybersecurity requirements for products with digital elements - Vulnerability Handling" (produced by CEN CENELEC).

NOTE: Version and date to be added upon its publication by CEN CENELEC.

[i.6] ETSI TS 103 732-2 (V1.1.2): "CYBER; Consumer Mobile Device; Part 2: Biometric Authentication Protection Profile Module".

[i.7] ETSI EN 304 623 (V1.1.1): "Cyber Security (CYBER); CRA; Cybersecurity requirements for boot managers".

[i.8] IETF RFC 8446: "The Transport Layer Security (TLS) Protocol Version 1.3".

[i.9] IETF RFC 8613: "Object Security for Constrained RESTful Environments (OSCORE)".

[i.10] IETF RFC 9528: "Ephemeral Diffie-Hellman Over COSE (EDHOC)".

[i.11] IETF RFC 9147: "The Datagram Transport Layer Security (DTLS) Protocol Version 1.3".

3 Definition of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the terms given in Regulation (EU) 2024/2847 [i.1], prEN 40000-1-1 [i.4] and the following apply:

access control mechanism: personal wearable function that enforces an authorisation policy

activity data: data asset that describes physical movements, behaviours or activity patterns to monitor the personal fitness level of humans

actuator: device or component able to affect its physical environment as a result of command inputs

EXAMPLE: Electric motor, heater, etc.

adjacent communication: public communication limited to a logically adjacent topology or ingoing/outgoing communication to private networks

EXAMPLE: Intranet network (including VPN) or private mobile cellular network.