RAADIOSEADMETE ÜHISED TURVANÕUDED. OSA 3: INTERNETIGA ÜHENDATUD RAADIOSEADMED, MIS TÖÖTLEVAD VIRTUAALRAHA VÕI RAHALIST VÄÄRTUST

Common security requirements for radio equipment - Part 3: Internet connected radio equipment processing virtual money or monetary value

EESTI STANDARDIMIS- JA AKREDITEERIMISKESKUS
ESTONIAN CENTRE FOR STANDARDISATION AND ACCREDITATION

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 18031-3:2024 sisaldab Euroopa standardi EN 18031-3:2024 ingliskeelset teksti.	This Estonian standard EVS-EN 18031-3:2024 consists of the English text of the European standard EN 18031-3:2024.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 14.08.2024.	Date of Availability of the European standard is 14.08.2024.
Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.	The standard is available from the Estonian Centre for Standardisation and Accreditation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 33.060.20

EUROPEAN STANDARD **EN 18031-3**

NORME EUROPÉENNE

EUROPÄISCHE NORM August 2024

ICS 33.060.20

English version

Common security requirements for radio equipment - Part 3: Internet connected radio equipment processing virtual money or monetary value

Exigences de sécurité communes applicables aux équipements radioélectriques - Partie 3 : Équipements radioélectriques connectés à l'internet qui traitent une monnaie virtuelle ou de la valeur monétaire

Gemeinsame Sicherheitsanforderungen für mit dem Internet verbundene Funkanlagen, die für die Datenverarbeitung im Zusammenhang mit virtuellen Währungen oder monetären Werten eingesetzt werden

This European Standard was approved by CEN on 1 August 2024.

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Ref. No. EN 18031-3:2024 E

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European foreword

This document (EN 18031-3:2024) has been prepared by Technical Committee CEN/CENELEC JTC 13 “Cybersecurity and Data Protection”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2025, and conflicting national standards shall be withdrawn at the latest by February 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a standardization request addressed to CEN-CENELEC by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Introduction

Vigilance is required from manufacturers to improve the overall resilience against cybersecurity threats caused by the increased connectivity of radio equipment [34] and the growing ability of malicious threat actors to cause harm to users, organizations, and society.

The security requirements presented in this baseline standard are developed to improve the ability of radio equipment to protect its security and financial assets against common cybersecurity threats and to mitigate publicly known exploitable vulnerabilities.

It is important to note that to achieve the overall cybersecurity of radio equipment, defence in depth best practices will be needed by both the manufacturer and user. In particular, no single measure will suffice to achieve the given objectives, indeed achieving even a single security objective will usually require a suite of mechanisms and measures. Throughout this document, the guidance material includes lists of examples. These examples given are only indicative possibilities, as there are other possibilities that are not listed, and even using the examples given will not be sufficient unless the mechanisms and measures chosen are implemented in a coordinated fashion.

1 Scope

This document specifies common security requirements and related assessment criteria for internet connected radio equipment [35]. That equipment enables the holder or user to transfer money, monetary value or virtual currency [35] (hereinafter referred to as "equipment").

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp/
- IEC Electropedia: available at https://www.electropedia.org/
- ISO Online browsing platform: available at https://www.iso.org/obp/

3.1
access control mechanism
equipment functionality to grant, restrict or deny access to specific equipment's *resources*

Note 1 to entry: Access to specific equipment's resources can amongst others be:

- reading specific data; or
- writing specific data to equipment's persistent storage; or
- performing a specific equipment functionality such as recording audio.

3.2
authentication
provision of assurance that an *entity* is who or what it claims to be

Note 1 to entry: An entity can amongst others claim to be:

- a specific human, owner of a user account, device, or service; or
- a member of specific groups such as an authorized group to access a specific equipment's resource; or
- authorized by another entity to access a specific equipment's resource.

3.3
authentication mechanism
equipment functionality to verify that an *entity* is who or what it claims to be

Note 1 to entry: Typically, the verification is based on examining evidence from one or more elements of the categories:

- knowledge; and
- possession; and