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ISO/IEC 39794-4 application profile for finger image data in machine-readable travel documents

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 03/26

Táto predbežná slovenská technická norma je určená na overenie. Prípadné pripomienky pošlite do decembra 2027 Úradu pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky.

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TECHNICAL SPECIFICATION
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English Version

**ISO/IEC 39794-4 application profile for finger image data
in machine-readable travel documents**

Anwendungsprofil nach ISO/IEC 39794-4 für
Fingerabdruckbilder in maschinenlesbaren
Reisedokumenten

This Technical Specification (CEN/TS) was approved by CEN on 1 December 2025 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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CEN/TS 18214:2025 (E)

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European foreword

This document (CEN/TS 18214:2025) has been prepared by Technical Committee CEN/TC 224 “Personal identification and related personal devices with secure elements, systems, operations and privacy in a multi sectorial environment”, the secretariat of which is held by AFNOR.

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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.

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CEN/TS 18214:2025 (E)**Introduction**

To meet newly emerging requirements and to avoid compatibility issues in future, ISO/IEC JTC 1/SC 37 developed the ISO/IEC 39794 series of standards defining extensible biometric data interchange formats capable of including possible extensions in a structured manner. The eighth edition of ICAO Doc 9303 “Machine readable travel documents” (MRTDs) moves from using the first edition of the ISO/IEC 19794 series for encoding biometric reference data to using the ISO/IEC 39794 series for this purpose. To support the transition to the extensible biometric data interchange format, ISO/IEC JTC 1/SC 17 developed an ICAO TR “ISO/IEC 39794-5 application profile for eMRTDs” [1] specifying how to use ISO/IEC 39794-5 [2] for the mandatory face image data stored in electronic MRTDs (eMRTDs).

According to ICAO Doc 9303, storage of fingerprint and iris image data in eMRTDs is optional. In electronic identity documents issued by several countries, however, fingerprint image data are mandatory in addition to face image data [3] [4]. Therefore, this document specifies how to use ISO/IEC 39794-4 for fingerprint image data stored in eMRTDs. This document follows the same approach as the ICAO TR “ISO/IEC 39794-5 application profile for eMRTDs” by restricting optional elements and permitted values. The encoding specified in this document takes precedence over the encoding examples in ISO/IEC TR 49794:2022 [5].

1 Scope

The eighth edition of ICAO Doc 9303 progresses from using the first edition of the ISO/IEC 19794 series for encoding biometric reference data in electronic machine-readable travel documents to using the ISO/IEC 39794 series for this purpose. This document specifies how to use ISO/IEC 39794-4 for fingerprint image data stored in electronic machine-readable travel documents.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 39794-1, *Information technology — Extensible biometric data interchange formats — Part 1: Framework*

ISO/IEC 39794-4:2019,¹ *Information technology — Extensible biometric data interchange formats — Part 4: Finger image data*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

¹ As impacted by ISO/IEC 39794-4:2019/Amd.1:2023