

<b>STN</b>	<b>Stomatológia</b> <b>Interoperabilita CAD/CAM systémov</b> <b>(ISO 18618: 2025)</b>	<b>STN</b> <b>EN ISO 18618</b>  85 6388
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Dentistry - Interoperability of CAD/CAM systems (ISO 18618:2025)

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. 12/25

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English Version

**Dentistry - Interoperability of CAD/CAM systems (ISO 18618:2025)**

Médecine bucco-dentaire - Interopérabilité des systèmes de CFAO (ISO 18618:2025)

Zahnheilkunde - Interoperabilität der CAD/CAM-Systeme (ISO 18618:2025)

This European Standard was approved by CEN on 3 July 2025.

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**EN ISO 18618:2025 (E)**

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## **European foreword**

This document (EN ISO 18618:2025) has been prepared by Technical Committee ISO/TC 106 "Dentistry" in collaboration with Technical Committee CEN/TC 55 "Dentistry" 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of an identical text or by endorsement, at the latest by February 2026, and conflicting national standards shall be withdrawn at the latest by February 2026.

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.

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## **Endorsement notice**

The text of ISO 18618:2025 has been approved by CEN as EN ISO 18618:2025 without any modification.



# International Standard

**ISO 18618**

## Dentistry — Interoperability of CAD/CAM systems

*Médecine bucco-dentaire — Interopérabilité des systèmes de CFAO*

**Third edition  
2025-08**

## ISO 18618:2025(en)



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**ISO 18618:2025(en)****Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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This document was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 9, *DentalCAD/CAM systems*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 55, *Dentistry*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 18618:2022), which has been technically revised.

The main change compared to the previous edition is as follows:

- The XML schema for IDS (interface for dental CAD/CAM systems) examples of interoperability of digital dental products relating to inlay, onlay, crown, dental implant systems, removables, dental appliances, orthodontics, and dentures have been updated in [Annex A](#) due to the fast nature of the software system innovation and the need for ongoing testing.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

**ISO 18618:2025(en)****Introduction**

Manufacturers of dental CAD/CAM systems differ in how they exchange manufacturing information and three-dimensional data. This causes difficulty in data processing, design processes and manufacturing processes for users of those systems. In order to overcome these interoperability issues, this document has been prepared to facilitate open interoperability between CAD/CAM systems in dentistry.

# Dentistry — Interoperability of CAD/CAM systems

## 1 Scope

This document specifies an extensible markup language (XML) format to facilitate the transfer of dental case data and CAD/CAM data between software systems.

## 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 1942, *Dentistry — Vocabulary*

ISO 3166-1, *Codes for the representation of names of countries and their subdivisions — Part 1: Country code*

ISO 3950, *Dentistry — Designation system for teeth and areas of the oral cavity*

ISO 16443, *Dentistry — Vocabulary for dental implants systems and related procedure*

ISO 18739, *Dentistry — Vocabulary of process chain for CAD/CAM systems*

W3C — Extensible Markup Language (XML) 1.0 (Fifth Edition), November 2008

W3C XML Schema Definition Language (XSD) 1.1, April 2012

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**