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Industrial automation systems and integration — JT file format specification for 3D visualization —

Part 2: Vocabulary

Systèmes d'automatisation industrielle et intégration — Spécification de format de fichier JT pour visualisation 3D —

Partie 2: Vocabulaire

Reference number
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Foreword

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This document was prepared by Technical Committee ISO/TC 184, *Automation systems and integration*, Subcommittee SC 4, *Industrial data*.

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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.

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Introduction

The ISO 14306 series format is an industry focused, high-performance, lightweight, flexible file format for capturing and repurposing 3D product definition data for visualization to enable collaboration and validation throughout the extended enterprise. The ISO 14306 series format is capable of being streamed and contains compression for compact and efficient representation.

The ISO 14306 format file is based upon the JT file format and is stored on disk with a file extension of ".jt".

This document provides a listing of the terms and definitions and required to understand the ISO 14306 series.

This document also acts as a terminology reference for the development of related standards outside of the ISO 14306 series.

Annex A contains an identifier that conforms to ISO/IEC 8824-1. The identifier unambiguously identifies this document in an open information system.

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Industrial automation systems and integration — JT file format specification for 3D visualization —

Part 2: Vocabulary

1 Scope

This document defines terms relating to the JT file format specification for 3D visualization.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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/

3.1
3D visualization
visual presentation on a screen or another media of graphical and textual three-dimensional representation of a set of data representing an object, information or results of a computational process in order to facilitate the understanding of the object, for visual information sharing with users and to assist in decision processes by a human reviewing the visualized data

3.2
streaming
sequentially loading data from a disk based medium

Note 1 to entry: The motivation for streaming is to more efficiently manage system memory.

Note 2 to entry: Transfer of data in a stream of packets, over the internet on an on-demand basis, where the data is interpreted in real-time by the application as the data packets arrive.

Note 3 to entry: The motivation for streaming is that the user can begin using or interacting with the data almost immediately, therefore no waiting for the entire data file(s) to be transferred before starting.

Note 4 to entry: The desired end result of streaming is to deliver only the ISO 14306 data that the user needs, where the user needs it, when the user needs it.

3.3
boundary representation solid model
b-rep
type of geometric model in which the size and shape of a solid is defined in terms of the faces, edges and vertices which make up its boundary

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