AS 10303.1—1998
ISO 10303-1:1994

Australian Standard™

Industrial automation systems and integration—Product data representation and exchange

Part 1: Overview and fundamental principles

This Australian Standard was prepared by Committee IT/6, Information Technology for Industrial Automation and Integration. It was approved on behalf of the Council of Standards Australia on 16 June 1998 and published on 5 September 1998.

The following interests are represented on Committee IT/6:

Australian Bankers Association

Australian Bureau of Statistics

Australian Computer Association

Australian Computer Society

Australian Information Industry Association

Australian Vice Chancellors Committee

Department of Defence, Australia

Department of Industry, Science and Technology, Australia

Electrical Compliance Testing Association

Government Computing Service, New Zealand

Institute of Information and Communication Technologies, CSIRO, Australia

Telecom, New Zealand

Telstra Corporation, Australia

Additional interests participating in preparation of Standard:

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PREFACE

This Standard was prepared by Standards Australia Committee IT/6, Information Technology for Industrial Automation and Integration. The Standard is the result of a consensus among the representatives on the Committee that it be produced as an Australian Standard. It is identical with and has been reproduced from ISO 10303-1:1994, *Industrial automation systems and integration—Product data representation and exchange*, Part 1: *Overview and fundamental principles*.

The objective of this Standard is to provide users of integrated automation systems with a representation of product information along with the necessary mechanisms and definitions to enable product data to be exchanged.

This Standard is Part 1 of AS 10303, *Industrial automation systems and integration—Product data representation and exchange*, which is published in Parts as follows:

Part 1: Overview and fundamental principles (this Standard)
Part 11: Description methods: The EXPRESS language reference manual
Part 21: Implementation methods: Clear text encoding of the exchange structure
Part 31: Conformance testing methodology and framework: General concepts
Part 41: Integrated generic resources: Fundamentals of product description and support
Part 42: Integrated generic resources: Geometric and topological representation
Part 43: Integrated generic resources: Representation structures
Part 44: Integrated generic resources: Product structure configuration
Part 46: Integrated generic resources: Visual presentation
Part 101: Integrated application resources: Draughting
Part 201: Application protocol: Explicit draughting
Part 203: Application protocol: Configuration controlled design

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annex to which they apply. A ‘normative’ annex is an integral part of a Standard, whereas an ‘informative’ annex is only for information and guidance.

As this Standard is reproduced from an international Standard, the following applies:

(a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.

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(c) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to equivalent Australian or Australian/New Zealand Standards, as follows:

Reference to International Standard or other publication		*Australian or Joint Australian/New Zealand Standard*	
ISO		AS	
10303	Industrial automation systems and integration—Product data representation and exchange	10303	Industrial automation systems and integration—Product data representation and exchange
10303-31	Part 31: Conformance testing methodology and framework: General concepts	10303.31	Part 31: Conformance testing methodology and framework: General concepts

ISO/IEC		AS
8824	Information technology— Open Systems Interconnection— Abstract Syntax Notation One (ASN.1)	
8824-1	Part 1: Specification of Basic Notation	—