

AS 10303.203—1998

ISO 10303-203:1994

ISO 10303-203:1994/Cor.1:1996

Australian Standard™

---

**Industrial automation systems  
and integration—Product data  
representation and exchange**

**Part 203: Application protocol:  
Configuration controlled design**

---

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:

Association of Consulting Engineers Australia  
Australian Air Transport Association  
Australian Chamber of Manufactures  
Australian Electrical and Electronic Manufacturers Association  
Australian Foundry Institute  
Australian Information Industry Association  
Australian Institute of Steel Construction  
Australian Robot Association  
Bureau of Steel Manufacturers of Australia  
CSIRO Centre for Planning and Design  
CSIRO Manufacturing Science and Technology  
Department of Defence, Australia  
Department of Industry, Science and Tourism, Australia  
Federal Chamber of Automotive Industries  
Institute of Engineers, Australia  
Ministry of Defence New Zealand  
Monash University  
New South Wales TAFE Commission  
New Zealand Chambers of Commerce and Industry  
New Zealand Defence Force  
New Zealand Heavy Engineering Research  
New Zealand Institute of Architects  
New Zealand Manufacturers' Federation  
Royal Australian Institute of Architects  
Royal Melbourne Institute of Technology  
University of Auckland (New Zealand)  
University of Melbourne

---

**Review of Australian Standards.** To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

---

*This Standard was issued in draft form for comment as DR 98106.*

AS 10303.203—1998

Australian Standard™

---

**Industrial automation systems  
and integration—Product data  
representation and exchange**

**Part 203: Application protocol:  
Configuration controlled design**

---

First published as AS 10303.203—1998.

## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee IT/6, Information Technology for Industrial Automation and Integration. The Standard is the result of a consensus among the representatives on the Joint Committee that it be produced as an Australian Standard. It is identical with and has been reproduced from ISO 10303-203:1994, *Industrial automation systems and integration—Product data representation and exchange*, Part 203: *Application protocol: Configuration controlled design* including Technical Corrigendum 1, which replaces Annex B, supplied on diskette.

The objective of this Standard is to provide users of integrated automation systems with the integrated resources necessary for the scope and information requirements for the exchange between application systems of configuration controlled 3D designs of mechanical parts and assemblies.

This Standard is Part 203 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
- 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 representation
- Part 101: Integrated application resources: Draughting
- Part 201: Application protocol: Explicit draughting
- Part 203: Application protocol: Configuration controlled design (this Standard)

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.

Annex B, which is in the form of computer-interpretable listings, and Annex A are supplied on a diskette, which is part of this Standard.

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.
- (b) In the source text ‘this International Standard’ should read ‘this Australian Standard’.
- (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:

<i>Reference to International Standard or other publication</i>		<i>Australian or Joint Australian/New Zealand Standard</i>	
ISO		AS	
31	Quantities and units	2900	Quantities, units and symbols
1000	SI units and recommendations for the use of their multiples and of certain other units	1000	The International System of Units (SI) and its application
10303	Industrial automation systems and integration—Product data representation and exchange	10303	Industrial automation systems and integration—Product data representation and exchange

## ISO

- 10303-1 Part 1: Overview and fundamental principles
- 10303-11 Part 11: Description methods: The EXPRESS language reference manual
- 10303-21 Part 21: Implementation methods: Clear text encoding of the exchange structure
- 10303-31 Part 31: Conformance testing methodology and framework: General concepts
- 10303-41 Part 41: Integrated generic resources: Fundamentals of product description and support
- 10303-42 Part 42: Integrated generic resources: Geometric and topological representation
- 10303-43 Part 43: Integrated generic resources: Representation structures
- 10303-44 Part 44: Integrated generic resources: Product structure configuration
- 10303-101 Part 101: Integrated application resources: Draughting

## ISO/IEC

- 8824 Information Technology—Open Systems Interconnection—Abstract Syntax Notation One (ASN.1)
- 8824-1 Specification of Basic Notation

## AS

- 10303.1 Part 1: Overview and fundamental principles
- 10303.11 Part 11: Description methods—The EXPRESS language reference manual
- 10303.21 Part 21: Implementation methods—Clear text encoding of the exchange structure
- 10303.31 Part 31: Conformance testing methodology and framework—General concepts
- 10303.41 Part 41: Integrated generic resources—Fundamentals of product description and support
- 10303.42 Part 42: Integrated generic resources—Geometric and topological representation
- 10303.43 Part 43: Integrated generic resources—Representation structures
- 10303.44 Part 44: Integrated generic resources—Product structure configuration
- 10303.101 Part 101: Integrated application resources—Draughting

## © Copyright — STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-