

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
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- Institute of Information and Communication Technologies, CSIRO, Australia
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- Private consultants, New Zealand

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First published as AS 10303.1—1998.

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

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