

Australian Standard™

**Industrial automation systems and  
integration—Manufacturing software  
capability profiling for interoperability**

**Part 2: Profiling methodology**



**STANDARDS  
AUSTRALIA**

This Australian Standard was prepared by Committee IT-006, Information Technology for Industrial Automation and Integration. It was approved on behalf of the Council of Standards Australia on 30 March 2004 and published on 3 June 2004.

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## PREFACE

This Standard was prepared by the Standards Australia Committee IT-006, Information Technology for Industrial Automation and Integration.

This Standard is identical with, and has been reproduced from, ISO 16100-2:2003, *Industrial automation systems and integration—Manufacturing software capability profiling for interoperability, Part 2: Profiling methodology*.

The objective of this Standard is to provide a methodology for constructing profiles of manufacturing software capabilities, and is applicable to software products used in the manufacturing domain.

This Standard is Part 2 of AS ISO 16100—2004, *Industrial automation systems and integration—Manufacturing software capability profiling for interoperability*, which is published in parts as follows:

Part 1: Framework

Part 2: Profiling methodology (this Standard)

The terms ‘normative’ and ‘informative’ are used 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.

- (a) Its number appears on the cover and title page while the international standard number appears only on the cover.
- (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 Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
ISO		AS ISO	
16100	Industrial automation systems and integration—Manufacturing software capability profiling for interoperability	16100	Industrial automation systems and integration—Manufacturing software capability profiling for interoperability
16100-1	Part 1: Framework	16100.1	Part 1: Framework

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## INTRODUCTION

The motivation for this International Standard stems from the industrial and economic environment noted in the strategic plan of ISO/TC 184/SC 5, in particular:

- a) a growing base of vendor-specific solutions;
- b) user difficulties in applying standards;
- c) a need to move to modular sets of system integration tools;
- d) a recognition that application software and the expertise to apply that software are assets of the enterprise.

ISO 16100 (all parts) is an International Standard for the computer-interpretable and human-readable representation of a software capability profile. Its goal is to provide a method to represent the capability of manufacturing software relative to its role throughout the life cycle of a manufacturing application, independent of a particular system architecture or implementation platform.

## AUSTRALIAN STANDARD

**Industrial automation systems and integration — Manufacturing software capability profiling for interoperability—****Part 2:  
Profiling methodology****1 Scope**

This part of ISO 16100 specifies a methodology for constructing profiles of manufacturing software capabilities, and is applicable to software products used in the manufacturing domain.

**2 Normative references**

The following referenced documents are indispensable for the application 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 16100 (all parts), *Industrial automation systems and integration — Manufacturing software capability profiling for interoperability*

REC-xmlschema-1-20010502, XML Schema Part 1: Structures — W3C Recommendation 02 May 2001

REC-xmlschema-2-20010502, XML Schema Part 2: Datatypes — W3C Recommendation 02 May 2001

**3 Terms and definitions**

For the purposes of this document, the terms and definitions given in ISO 16100-1 and the following apply.

**3.1****association**

semantic relationship between two or more classifiers that specifies connections among their instances [ISO/IEC 15950-1]

**3.2****base specification**

base standard or widely accepted and available specification