

Australian Standard™

**Data elements and interchange  
formats—Information interchange—  
Representation of dates and times**

This Australian Standard was prepared by Committee IT-001, Information Systems – Interconnection. It was approved on behalf of the Council of Standards Australia on 30 July 2003 and published on 30 October 2003.

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## PREFACE

This Standard was prepared by the Standards Australia Committee IT-001, Information Systems – Interconnection.

This Standard is identical with, and has been reproduced from ISO 8601:2000, *Data elements and interchange formats—Information interchange—Representation of dates and times*.

The objective of this Standard is to provide specifications for a numeric representation of information regarding date and time of day. This Standard is applicable wherever dates and times are included in information interchange.

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.

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- (a) Its number appears on the cover and title page while the international standard number appears only on the cover.
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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	
31-0	Quantities and units—Part 0: General principles	2900	Quantities and units—Part 0: General principles
31-1	Quantities and units—Part 1: Space and time	2900.1	Quantities and units—Part 1: Space and time

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## AUSTRALIAN STANDARD

# Data elements and interchange formats — Information interchange — Representation of dates and times

## 1 Scope

This International Standard specifies the representation of dates in the Gregorian calendar and times and representations of periods of time. It includes

- a) calendar dates expressed in terms of year, month and day of the month;
- b) ordinal dates expressed in terms of year and day of the year;
- c) week dates expressed in terms of year, week number and day of the week;
- d) time of the day based upon the 24-hour timekeeping system;
- e) differences between local time and Coordinated Universal Time (UTC);
- f) combination of date and time;
- g) time-intervals;
- h) recurring time-intervals.

This International Standard is applicable whenever dates and times are included in information interchange.

This International Standard does not cover dates and times where words are used in the representation and dates and times where characters are not used in the representation.

This International Standard considers the leap seconds that are occasionally inserted at the end of a calendar month to maintain astronomic precision of the calendar day.

This International Standard does not assign any particular meaning or interpretation to any data element that uses representations in accordance with this International Standard. Such meaning will be determined by the context of the application.

## 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 31-0:1992, *Quantities and units — Part 0: General principles*.

ISO 31-1:1992, *Quantities and units — Part 1: Space and time*.