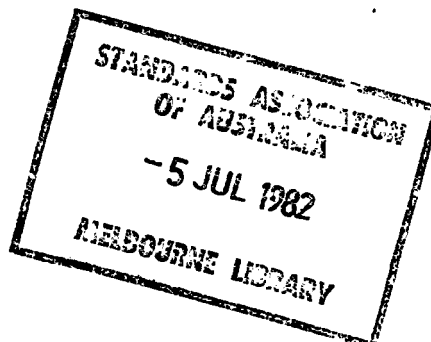


Withdrawn TAS July 1999

# Australian Standard 1189, Part 14—1982

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## DATA PROCESSING—VOCABULARY Part 14—RELIABILITY, MAINTENANCE AND AVAILABILITY



**STANDARDS ASSOCIATION OF AUSTRALIA**  
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The following interests were represented on the committee responsible for the preparation of this standard:

Australian Banks Payment Systems Committee  
Australian Bureau of Statistics  
Australian Computer Equipment Suppliers Association  
Australian Computer Services Association  
Australian Computer Users Association  
Australian Public Service Board  
CSIRO, Division of Computing Research  
Department of Defence  
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**AUSTRALIAN STANDARD**

**DATA PROCESSING—VOCABULARY**  
**Part 14**  
**RELIABILITY, MAINTENANCE**  
**AND AVAILABILITY**

**AS 1189, Part 14—1982**

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## PREFACE

This standard was prepared under the authority of the Association's Committee on Computers and Information Processing. It is one part of a series superseding AS 1189—1972, and is identical with and has been reproduced from the corresponding part of International Standard ISO 2382, drawn up by ISO/TC 97, Computers and Information Processing.

The 1972 edition of the standard was based on the American National Standard ANSI X3.12—1970 pending the publication of the ISO vocabulary as ISO 2382. The committee has decided that sufficient parts of the ISO vocabulary have been published to warrant the revision of AS 1189.

The complete standard comprises the following parts:

- Part 0: Consolidated Index
- Part 1: Fundamental Terms
- Part 2: Arithmetic and logic operations
- Part 3: Equipment technology
- Part 4: Organization of data
- Part 5: Representation of data
- Part 6: Preparation and handling of data
- Part 7: Digital computer programming
- Part 8: Control, integrity and security\*
- Part 9: Data communication\*
- Part 10: Operating techniques and facilities
- Part 11: Control, input-output and arithmetic equipment
- Part 12: Data media, storage and related equipment
- Part 13: Computer graphics and computer micrographics\*
- Part 14: Reliability, maintenance and availability
- Part 15: Programming languages\*
- Part 16: Information theory
- Part 17: Data base management\*
- Part 18: Remote access data and data processing system\*
- Part 19: Analog computing\*
- Part 20: System development\*
- Part 21: Interfaces\*
- Part 24: Numerical control of machines\*

In addition to the alphabetical index in this part, Part 0 provides a consolidated alphabetical index to the terms defined in Parts 1 to 7, 10 to 12, 14, 16, 19 and 24.

As this standard consists of several parts prepared over a long period there could be some inconsistencies introduced in the later parts when compared with the earlier ones. These inconsistencies will be eliminated as far as possible in later editions. This procedure allows for immediate publication of needed parts and permits an element of flexibility in the preparation of a comprehensive vocabulary in view of the dynamics of language.

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\*In course of preparation.

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**STANDARDS ASSOCIATION OF AUSTRALIA****Australian Standard  
for  
DATA PROCESSING—VOCABULARY****PART 14—RELIABILITY, MAINTENANCE AND AVAILABILITY****FOREWORD**

Data processing gives rise to numerous international exchanges of both intellectual and material nature. These exchanges often become difficult, either because of the great variety of terms used in various fields or languages to express the same concept, or because of the absence of or the imprecision of useful concepts.

To avoid misunderstandings due to this situation and to facilitate such exchanges, it is advisable to select terms to be used in various languages or in various countries to express the same concept and to establish definitions providing satisfactory equivalents for the various terms in different languages.

In accordance with the directions given to the ISO subcommittee in charge of the Vocabulary, the work on it has been mainly based on the usage to be found in the Vocabulary of information processing\* established and published by the International Federation for Information Processing and the International Computation Centre, and in the U.S.A. Standard vocabulary for information processing established, published and revised by the American National Standards Institute. (AS 1189—1972 was based on this revised edition.) The subcommittee also considered various international documents or drafts issued by ISO Technical Committee 97 and its subcommittees and other international organizations (such as the International Telecommunication Union) and national drafts or standards.

The definitions have been drawn up with the objective of achieving a proper balance between precision and simplicity. The main objective of this Vocabulary is to provide definitions that can be understood to have the same meaning by all concerned. It may thus be felt that some definitions are not sufficiently precise, do not include all cases, do not take into account certain exceptions, or are in conflict with established uses in particular fields of application.

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\*North Holland Publishing Company—AMSTERDAM 1966.

## GENERAL

### 1.1 Introduction

This part of the Vocabulary defines major concepts in current use concerning reliability, maintenance and availability in the field of data processing. (Definitions involving statistical notions have been excluded.) See also IEC publication 271, *List of basic terms, definitions and related mathematics for reliability*.

### 1.2 Scope

The Vocabulary is intended to facilitate international communication in data processing. It presents in two languages terms and definitions of selected concepts relevant to the field of data processing and identifies relationships between the entries.

In order to facilitate their translation into other languages, the definitions are drafted so as to avoid, as far as possible, any peculiarity attached to a language.

### 1.3 Field of application

The Vocabulary deals with the main areas of data processing, including the principal processes and types of equipment used, the representation, organization and presentation of data, the programming and operation of computers, input-output devices and peripheral equipment, as well as particular applications.

## 2 PRINCIPLES AND RULES FOLLOWED

The sub-clauses under this heading included in AS 1189, Part 1 are equally applicable to this part. They are not reproduced here. The corresponding sub-clause headings are the following:

### 2.1 Definition of an entry

### 2.2 Organization of an entry

### 2.3 Classification of entries

### 2.4 Selection of terms and wording of definitions

### 2.5 Multiple meanings

### 2.6 Abbreviations

### 2.7 Use of parentheses

### 2.8 Use of (square) brackets

### 2.9 Use of terms printed in italic typeface in definitions and use of asterisks

### 2.10 Spelling

### 2.11 Organization of the alphabetical index