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IEEE P1003.0 Draft 14 – November 1991

A.8 Rules for Drafting and Presentation of POSIX SPs

Throughout this Annex, which is concerned with documentation content and layout, reference is made to POSIX SPs. A POSIX SP, or part thereof, may contain a whole profile definition or part of one or more profile definitions. The wording of the Annex assumes that it is describing an undivided POSIX SP that defines one profile in its entirety. Its application to the other cases is easily deduced. Note, however, that each part of a Multipart POSIX SP shall use the same format as far as appropriate.

A.8.1 General Arrangement

The elements that together form a POSIX SP are classified into three groups:

(1) Preliminary elements are those elements that identify the POSIX SP, introduce its content, and explain its background, its development, and its relationship with other standards and POSIX SPs.

(2) Normative elements are those elements setting out the provisions with which it is necessary to comply in order to be able to claim conformity with the POSIX SP.

(3) Supplementary elements are those elements that provide additional information intended to assist the understanding or use of the POSIX SP.

These groups of elements are described in the following clauses.

A.8.2 Preliminary Elements

A.8.2.1 Foreword

The foreword shall appear in every POSIX SP. It consists of a general part giving information relating to the organization responsible and a specific part giving as many of the following as are appropriate:

— An identification of the organization or committee that prepared the POSIX SP; information regarding the approval of the POSIX SP

— A statement that the POSIX SP cancels or replaces other documents in whole or in part

— A statement of significant technical changes from the previous edition

— A statement of which annexes are normative and which are informative

A.8.2.2 Introduction

The introduction shall appear in every POSIX SP. It gives specific information about the process used to draft the POSIX SP and about the degree of international harmonization that it has received.

A.8.3 General Normative Elements

A.8.3.1 Title

The title shall be composed of the following three elements:

(1) An introductory element: *Standard for Information Technology*

(2) An identification element: *POSIX Standardized Profile*

(3) A main element indicating the subject matter of the POSIX SP. For a Multipart POSIX SP, this element shall be subdivided into a general title element common to all parts, and a specific title element for each part; where necessary, this specific element may include the identifier of an individual profile. The first word of this element should be the word ‘‘POSIX’’.

Example:

Standard for Information Technology —
POSIX Standardized Profile —
POSIX Transaction Processing

A.8.3.2 Scope

This element contains two subclauses as follows:

(1) General

This element shall appear at the beginning of the POSIX SP or POSIX SP part to define without ambiguity the purpose and subject matter of the document, thereby indicating the limits of its applicability. It shall not contain requirements.

(2) Scenario

If the POSIX SP or POSIX SP part defines a profile, it shall include (where appropriate) the ‘‘scenario’’ of the profile; i.e., an illustration of the environment within which it is applicable. This may show in a simplified graphic form how this fits within the POSIX Reference Model.

A profile should first introduce the functional area being addressed and the applications activities within that area. The requirements that have been addressed should be delineated, as well as those areas outside of the scope of the profile.

A.8.3.3 Normative References

This element shall give a list of normative documents (base standards), with their titles and publication dates, to which reference is made in the text in such a way as to make them indispensable for the application of the POSIX SP. Where published amendments or technical errata to base standards are relevant to the definition of the profile in such a way as to have a potential impact on interworking or portability, they shall be explicitly referenced here.

Reference shall also be made to this guide.

A.8.4 Technical Normative Elements

A.8.4.1 Requirements

This element includes clauses relating to the use made of each of the main base standards referenced in the profile definition. The content and layout of these clauses are not defined, but can be tailored to the type of material that has to be specified in each case.

The information given shall not repeat the text of the base standards, but shall define the choices made in the profile of classes, subsets, options and ranges of parameter values. It shall be in the form of conformance requirements and may, where appropriate, be given in tabular form.

See 6.3.3 for more detail concerning the nature of the content required in this element of a POSIX SP.

A.8.4.2 Normative Annexes

Normative annexes are integral sections of the POSIX SP that, for reasons of convenience, are placed after all other normative elements. The fact that an annex is normative (as opposed to informative) shall be made clear by the way in which it is referred to in the text, by a statement to this effect in the foreword, and by an indication at the head of the annex itself.

A.8.5 Supplementary Elements

A.8.5.1 Informative Annexes

Informative annexes give additional information and are placed after the normative elements of a POSIX SP. They shall not contain requirements. The fact that an annex is informative (as opposed to normative) shall be made clear by the way in which it is referred to in the text, by a statement to this effect in the foreword, and by an indication at the head of the annex itself.

Informative annexes provide a point for documenting useful information for the users of a profile that poses no requirements. Such annexes can include:

(1) Specification of additional standards or options that will make the profile useful for specific locales (character sets, etc.)

(2) Pointers to the referenced standards and information on ordering these

(3) Pointers to related specifications that may provide additional insight or potentially serve to fill gaps in the profile

(4) Comments and concepts in using the profile for various target readers. This could include use in procurements (perhaps cross referencing

related procurement standards like the FIPS in the US). The annex may be used to provide recommendations for use that are not warranted in the standard (e.g., ‘‘Algol is not recommended for new applications development’’).

Annex B
(inform ative)

Bibliography

Note to reviewers: This annex is not complete. It should include references to standards, books, articles, etc., that are not required for an integral understanding of the document (as are the entries in Normative References). It currently consists only of sample entries. It will be replaced in a later draft.

{B1} ISO 7498: 1984, *Information processing systems—Open Systems Interconnection—Basic Reference Model.* [1)]

{B2} ISO 8072: 1986, *Information processing systems—Open Systems Interconnection—Transport service definition.*

{B3} ISO/IEC 8073: 1988, *Information processing systems—Open Systems Interconnection—Connection oriented transport protocol specification.* [2)]

{B4} CCITT Recommendation X.25, *Interface between data terminal equipment (DTE) and data circuit-terminating equipment (DCT) for terminals operating in the packet mode and connected to public data networks by dedicated circuit.* [3)]

{B5} CCITT Recommendation X.212, *Information processing systems—Data communication—Data link service definition for Open Systems Interconnection.*

{B5} ANSI X3.113-1987 [4)], *Information systems—Programming language— FULL BASIC.*

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1) ISO documents can be obtained from the ISO office, 1, rue de Varembé, Case Postale 56, CH-1211, Genève 20, Switzerland/Suisse.

2) IEC documents can be obtained from the IEC office, 3, rue de Varembé, Case Postale 131, CH-1211, Genève 20, Switzerland/Suisse.

3) CCITT documents can be obtained from the CCITT General Secretariat, International Telecommunications Union, Sales Section, Place des Nations, CH-1211, Genève 20, Switzerland/Suisse.

4) ANSI documents can be obtained from the Sales Department, American National Standards Institute, 1430 Broadway, New York, NY 10018.