
**Software and system engineering —
High-level Petri nets —**

**Part 1:
Concepts, definitions and graphical
notation**

AMENDMENT 1: Symmetric Nets

*Ingénierie du logiciel et du système — Réseaux de Petri de haut
niveau —*

Partie 1: Concepts, définitions et notation graphique

AMENDEMENT 1: Réseaux symétriques

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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

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Amendment 1 to ISO/IEC 15909-1:2004 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 7, *Software and systems engineering*.

This amendment to ISO/IEC 15909-1 concerns the addition of a class of high-level nets, known as Symmetric Nets, to Annex B and the corresponding changes required to the Conformance Clause. Additional references related to Symmetric Nets are to be included in the Bibliography. Revised Annex B is included in full, due to some minor notational corrections in clause B.1.

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Cover page and page 1

In the document title, replace “Software and system engineering” with “Systems and software engineering”.

Page 19, Conformance

Insert the following subclause after subclause 9.1 (PN Conformance):

9.2 Conformance to Symmetric Nets

This subclause expresses the requirements for a tool implementing high-level Petri nets to conform to the Symmetric Net class.

9.2.1 Level 1

To claim Level 1 conformance to the Symmetric Net class of this International Standard, an implementation shall demonstrate that it has the semantics defined in clause 4, with the types (domains) and pre and post functions that can be derived from the Symmetric Net Graph defined in Annex B.2, by providing a mapping from the implementation’s syntax to the semantic model in a similar way to that defined in clause 8.

9.2.2 Level 2

To claim Level 2 conformance to the Symmetric Net class of this International Standard, an implementation must satisfy the requirements for Level 1 conformance to the Symmetric Net class and additionally shall include the syntax of the Symmetric Net Graph defined in Annex B.2 and the notational conventions of clause 7.

Change the numbering of HLPN Conformance to subclause 9.3.

Page 25, Annex B

Replace normative Annex B with the text starting on the next page, which adds new clause B.2 to define the Symmetric Net class of High-level Petri Net Graphs (HLPNGs).