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AMENDMENT 5
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Information technology — Open Systems Interconnection — Network Service Definition

AMENDMENT 5: Group Network addressing

*Technologies de l'information — Interconnexion de systèmes ouverts —
Définition du service de réseau*

AMENDEMENT 5: Adressage de réseau groupé

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Foreword

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In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. 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.

This amendment to International Standard ISO/IEC 8348:1993 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

This amendment to ISO/IEC 8348:1993 has not been approved by ITU-T and is an ISO/IEC amendment only. When approved by ITU-T a second edition of the amendment will be published conforming to the Rules for presentation of ISO/IEC/ITU-T common texts.

Amendments 1 to 4 were consolidated into the second edition of ISO/IEC 8348.

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Information technology — Open Systems Interconnection — Network Service Definition

AMENDMENT 5: Group Network addressing

0. Introduction

This Amendment to ISO/IEC 8348:1993 defines the concept of **group Network address**. ISO/IEC 8348:1993 defines the Network service access point (NSAP) address as an identifier for a single NSAP, supporting a Network service that is exclusively unicast (i.e., between a single source NSAP and a single destination NSAP). This Amendment does not change the definition of the NSAP address, but adds a new type of identifier - the group Network address - that supports a multicast Network service (i.e., between a single source NSAP identified by an individual Network address, and a group of destination NSAPs, identified by a group Network address). The multicast Network service is itself defined in a separate Amendment to ISO/IEC 8348:1993.

This Amendment defines group Network addresses by creating a new set of AFI values, one for each existing AFI value, and a fixed one-to-one mapping between each of the existing AFI values and a corresponding group AFI value. The syntax of a group Network address is identical to the syntax of an individual Network address, except that the value of the AFI in an individual Network address may be only one of the values already allocated for individual Network addresses, whereas the value of the AFI in a group Network address may be only one of the values allocated for group Network addresses by this Amendment. The AFI values allocated for group Network addresses have been chosen in such a way that they do not overlap, in the preferred encoding defined by ISO/IEC 8348:1993, with any of the AFI values that have already been allocated for individual Network addresses.

1. Scope

This Amendment makes no changes to clause 1 of ISO/IEC 8348:1993.

2. References

This Amendment makes no changes to clause 2 of ISO/IEC 8348:1993.

3. Definitions

Add two definitions as 3.4.X and 3.4.Y (after the present 3.4.10) and a Note within clause 3 of ISO/IEC 8348:1993 with the following text:

3.4.X group Network address: an address that identifies a set of zero or more Network service access points; these may belong to multiple Network entities, in different end systems.

3.4.Y individual Network address: an address that identifies a single NSAP.

Note: - Where the distinction between a group Network address and an individual Network address is not important, the term **NSAP address** is used.

4. Abbreviations

This Amendment makes no changes to clause 4 of ISO/IEC 8348:1993.

5. Conventions

This Amendment makes no changes to clause 5 of ISO/IEC 8348:1993.

6. Overview and general characteristics

*Change point (e) of clause 6 from “(NSAP addressing)” to:
(NSAP addressing and group Network addressing)*

7. Types and classes of Network Service

This Amendment makes no changes to clause 7 of ISO/IEC 8348:1993.

PART 2 - DEFINITION OF CONNECTION-MODE SERVICE

This Amendment makes no changes to clauses 8 through 14 of ISO/IEC 8348:1993.

PART 3 - DEFINITION OF CONNECTIONLESS-MODE SERVICE

This Amendment makes no changes to clauses 15 through 19 of ISO/IEC 8348:1993.

A. Annex A.

A.1 General

Add a paragraph to the end of clause A.1:

In addition this annex defines the abstract syntax and semantics of the group Network address. The group Network address is used to support multicast services and is the address that may appear in the primitives of the connection-mode Network service as the called address parameter, and in the primitives of the connectionless-mode network service as the destination address parameter.