

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Industrial communication networks – Fieldbus specifications –  
Part 3-22: Data-link layer service definition – Type 22 elements**

**Réseaux de communication industriels – Spécifications des bus de terrain –  
Partie 3-22: Définition des services de la couche liaison de données – Éléments  
de type 22**



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INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

PRICE CODE  
CODE PRIX

W

ICS 25.040.40; 35.100.20; 35.110

ISBN 978-2-8322-1718-4

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Withhold

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**INDUSTRIAL COMMUNICATION NETWORKS –  
FIELDBUS SPECIFICATIONS –****Part 3-22: Data-link layer service definition –  
Type 22 elements**

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NOTE Combinations of protocol types are specified in IEC 61784-1 and IEC 61784-2.

International Standard IEC 61158-3-22 has been prepared by subcommittee 65C: Industrial networks, of IEC technical committee 65: Industrial process measurement, control and automation.

This second edition cancels and replaces the first edition published in 2010. This edition constitutes a technical revision. This edition includes the following technical changes with respect to the previous edition.

- Introduction of two new topology scan services.
- Marking old topology scan services as to be discontinued.

The text of this standard is based on the following documents:

FDIS	Report on voting
65C/759/FDIS	65C/769/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 61158 series, published under the general title *Industrial communication networks – Fieldbus specifications*, can be found on the IEC web site.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be:

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

Withdrawal

## INTRODUCTION

This part of IEC 61158 is one of a series produced to facilitate the interconnection of automation system components. It is related to other standards in the set as defined by the “three-layer” fieldbus reference model described in IEC 61158-1.

Throughout the set of fieldbus standards, the term “service” refers to the abstract capability provided by one layer of the OSI Basic Reference Model to the layer immediately above. Thus, the data-link layer service defined in this standard is a conceptual architectural service, independent of administrative and implementation divisions.

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WO-2006/069691 A1	[PI]	Control system with a plurality of spatially distributed stations and method for transmitting data in said control system
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EP-1 828 858 A1	[PI]	Control system with a plurality of spatially distributed stations and method for transmitting data in said control system
JP-4 848 469 B2	[PI]	Control system with a plurality of spatially distributed stations and method for transmitting data in said control system
CN-101 111 807	[PI]	Control system with a plurality of spatially distributed stations and method for transmitting data in said control system
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