

# TECHNICAL SPECIFICATION

# IEC 61158-3

First edition  
1999-03

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**Digital data communications for  
measurement and control –  
Fieldbus for use in industrial control systems –**

**Part 3 :  
Data Link Service Definition**

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Reference number  
IEC 61158-3:1999(E)

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International Electrotechnical Commission  
Международная Электротехническая Комиссия

PRICE CODE **XG**

*For price, see current catalogue*

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**DIGITAL DATA COMMUNICATIONS FOR MEASUREMENT AND CONTROL –  
FIELDBUS FOR USE IN INDUSTRIAL CONTROL SYSTEMS –****Part 3: Data Link Service definition**

## FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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Technical specifications are subject to review within three years of publication to decide whether they can be transformed into International Standards.

IEC 61158-3, which is a technical specification, has been prepared by subcommittee 65C: Digital communications, of IEC technical committee 65: Industrial-process measurement and control.

The text of this technical specification is based on the following documents:

Enquiry draft	Report on voting
65C/197/FDIS	65C/205+205A/RVD

Full information on the voting for the approval of this technical specification 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 3.

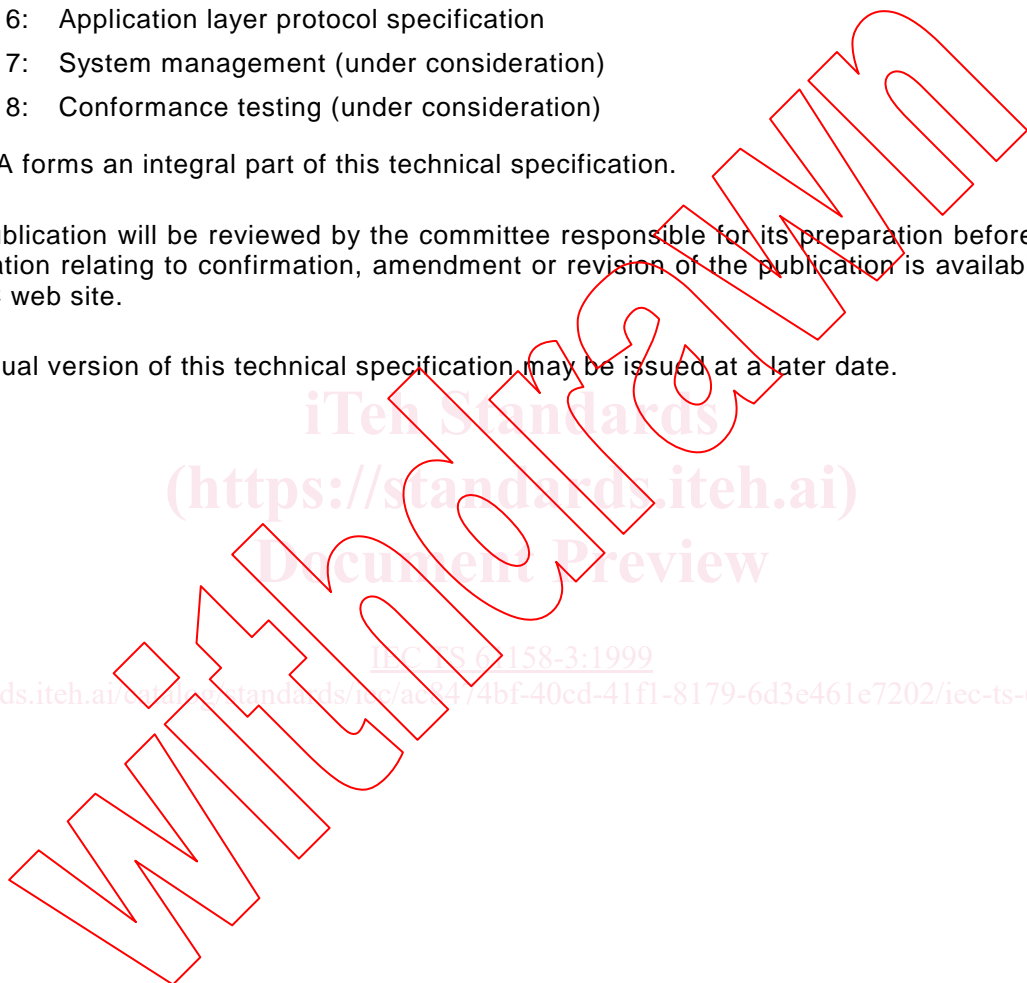
IEC 61158 consists of the following parts, under the general title *Digital data communications for measurement and control — Fieldbus for use in industrial control systems*:

- Part 1: Introductory guide (under preparation)
- Part 2: Physical layer specification and service definition
- Part 3: Data Link Service definition
- Part 4: Data Link Protocol specification
- Part 5: Application layer service definition
- Part 6: Application layer protocol specification
- Part 7: System management (under consideration)
- Part 8: Conformance testing (under consideration)

Annex A forms an integral part of this technical specification.

This publication will be reviewed by the committee responsible for its preparation before 2002. Information relating to confirmation, amendment or revision of the publication is available from the IEC web site.

A bilingual version of this technical specification may be issued at a later date.



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