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Information technology — Telecommunications and information exchange between systems — Magnetic field area network (MFAN)

Part 3: Relay Protocol for Extended Range

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The UK participation in its preparation was entrusted to Technical Committee IST/6, Data communications.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Published by BSI Standards Limited 2016

ISBN 978 0 580 86906 8

ICS 35.110

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 January 2016.

Amendments/corrigenda issued since publication

Date	Text affected

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INTERNATIONAL STANDARD

ISO/IEC 15149-3

First edition
2016-01-15

Information technology — Telecommunications and information exchange between systems — Magnetic field area network (MFAN) —

Part 3: Relay Protocol for Extended Range

Technologies de l'information — Téléinformatique — Réseau de zone de champ magnétique (MFAN)

Reference number
ISO/IEC 15149-3:2016(E)

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Foreword

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The committee responsible for this document is ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

This first edition of ISO/IEC 15149-3, together with ISO/IEC 15149-1, ISO/IEC 15149-2, and ISO/IEC 15149-4, cancels and replaces ISO/IEC 15149:2011, which has been technically revised.

ISO/IEC 15149 consists of the following parts, under the general title *Information technology — Telecommunications and information exchange between systems*:

— *Part 1: Air Interface*

— *Part 2: In-Band Control Protocol for Wireless Power Transfer*

— *Part 3: Relay Protocol for Extended Range*

— *Part 4: Security Protocol for Authentication*

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Introduction

This part of ISO/IEC 15149 provides protocols for magnetic field area networks (MFAN). MFAN can support the service based on wireless communication and wireless power transfer in harsh environments. MFAN is composed of four protocols; air interface, in-band control protocol, relay protocol and security protocol.

ISO/IEC 15149-1 specifies the physical layer and media access control layer protocols of wireless network over a magnetic field.

ISO/IEC 15149-2 specifies the control protocol for wireless power transfer based on magnetic field area network.

ISO/IEC 15149-3 specifies the relay protocol to extend effective network coverage of magnetic field area network.

ISO/IEC 15149-4 specifies the security protocol to authenticate nodes to communicate in magnetic field area network.

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