
**Information technology —
Telecommunications and information
exchange between systems —
Magnetic field area network (MFAN) —
Part 4:
Security Protocol for Authentication**

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



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2016, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and abbreviated terms	2
4.1 Symbols.....	2
4.2 Abbreviated terms.....	2
5 Overview	2
6 Network elements	3
6.1 General.....	3
6.2 Time element.....	3
6.3 Physical element.....	3
6.4 Address element.....	3
7 Network functions	3
7.1 General.....	3
7.2 Request period.....	4
7.3 Response period.....	4
7.4 Confirmation period.....	4
7.5 Key generation.....	4
8 Network status	5
8.1 General.....	5
8.2 Network authentication.....	5
9 MAC layer frame format	5
9.1 General.....	5
9.2 Frame format.....	5
9.3 Frame type.....	5
9.4 Payload format.....	5
9.4.1 Request frame.....	5
9.4.2 Response frame.....	6
9.4.3 Response confirmation frame.....	7
10 MAC layer function	9
10.1 General.....	9
10.2 Authentication.....	9
Annex A (informative) Security considerations	10
Bibliography	11