

Third edition
2010-11-15

**Information technology — Radio
frequency identification for item
management —**

**Part 3:
Parameters for air interface
communications at 13,56 MHz**

*Technologies de l'information — Identification par radiofréquence
(RFID) pour la gestion d'objets —*

*Partie 3: Paramètres de communications d'une interface d'air à
13,56 MHz*

Reference number
ISO/IEC 18000-3:2010(E)



© ISO/IEC 2010

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2010

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

	Page
Foreword	vi
Introduction.....	vii
1 Scope.....	1
2 Conformance	1
3 Normative references.....	1
4 Terms and definitions	2
5 Symbols and abbreviated terms	3
5.1 Symbols.....	3
5.2 Abbreviated terms	4
5.3 Notation	5
6 Requirements: Physical layer, collision management system and protocol values for 13,56 MHz systems.....	6
6.0 General and applicable to All Modes.....	6
6.0.1 Presentation as determined in ISO/IEC 18000-1	6
6.0.2 ISO/IEC 18000-3 Interoperability	6
6.0.3 ISO/IEC 18000-3 interrogator conformance/compliance	6
6.0.4 ISO/IEC 18000-3 tag compliance	6
6.0.5 Command structure and extensibility	6
6.0.6 Mandatory commands	6
6.0.7 Optional commands	7
6.0.8 Custom commands	7
6.0.9 Proprietary commands	7
6.1 Physical layer, collision management system and protocols for MODE 1	7
6.1.1 Read/Write system	7
6.1.2 Normative Aspects	7
6.1.3 Conformance and performance measurement aspects	7
6.1.4 Physical Layer	7
6.1.5 Protocol and collision management operating method	7
6.1.6 Commands	8
6.1.7 Parameter tables for interrogator to tag link	8
6.1.8 Parameter tables for tag to interrogator link	11
6.2 MODE 2: Physical layer, collision management system and protocols for MODE 2	14
6.2.1 Normative aspects: physical and media access control (MAC) parameters: interrogator to tag link	15
6.2.2 Tag to interrogator link	17
6.2.3 Description of operating method	20
6.2.4 Protocol parameters	25
6.2.5 Description of protocol operating method	25
6.2.6 Collision management parameters	41
6.2.7 Description of collision management parameters operating method (informative)	41
6.2.8 Tag order sequencing	49
6.2.9 Commands	49
6.2.10 Air interface application layer	49
6.2.11 Optional Functionality	49
6.3 MODE 3: Physical layer, collision management system and protocols for MODE 3	52
6.3.1 Protocol overview	52
6.3.2 General	52
6.3.3 Physical layer, collision management system and protocols	53