
**Industrial automation systems and
integration — Service interface for testing
applications —**

Part 2:
Resource management service interface

*Systèmes d'automatisation industrielle et intégration — Interface de
service pour contrôler les applications —*

Partie 2: Interface de service pour la gestion de ressources

www.iso.org/iso/20242-2



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.

www.iso.org/iso/iso_20242-2



COPYRIGHT PROTECTED DOCUMENT

© ISO 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 0111
Fax + 41 22 749 0947
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and abbreviated terms	1
5 Conventions for service definitions and procedures	2
5.1 General	2
5.2 Parameters	2
5.3 Service procedures	3
5.4 Service primitives and state diagrams	3
6 Resource Management Services	4
6.1 Overview	4
6.2 List of services	5
6.3 Management support services	7
6.4 Input/output services	11
6.5 Extended services	28
6.6 Operating Support Services	32
6.7 States of RMS state machine	60
Annex A (informative) Implementation guidelines for RMSI — Mapping of services to C/C++ function calls	64
Annex B (informative) Cascading of device drivers via RMSI	77
Bibliography	79