
**Road vehicles — Standardized access
to automotive repair and maintenance
information (RMI) —**

**Part 4:
Conformance test**

*Véhicules routiers — Normalisation de l'accès aux informations
relatives à la réparation et à la maintenance pour l'automobile
(RMI) —
Partie 4: Test de conformité*

Document Preview

[ISO 18541-4:2021](https://standards.iteh.ai/catalog/standards/iso/562e3d45-cad5-47bf-86bf-52548ec32ae3/iso-18541-4-2021)

<https://standards.iteh.ai/catalog/standards/iso/562e3d45-cad5-47bf-86bf-52548ec32ae3/iso-18541-4-2021>



iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[ISO 18541-4:2021](https://standards.iteh.ai/catalog/standards/iso/562e3d45-cad5-47bf-86bf-52548ec32ae3/iso-18541-4-2021)

<https://standards.iteh.ai/catalog/standards/iso/562e3d45-cad5-47bf-86bf-52548ec32ae3/iso-18541-4-2021>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, 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
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

	Page
Foreword.....	xiii
Introduction.....	xiv
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions.....	1
4 Abbreviated terms.....	2
5 Conformance test basic principles and clustering.....	2
5.1 Basic principles for conformance test case definition.....	2
5.2 Conformance test clustering.....	3
5.2.1 General.....	3
5.2.2 Main conformance test case clusters.....	3
6 Test case structure.....	7
6.1 Conformance test case — General structure.....	7
6.1.1 Overview.....	7
6.1.2 Test case reference number and title [RMI-CT_...] [title].....	8
6.1.3 Test purpose.....	8
6.1.4 Configuration.....	8
6.1.5 Preamble (setup state).....	8
6.1.6 Test execution.....	8
6.1.7 Post-amble.....	8
6.2 Result criteria.....	8
7 CT cluster 1 — Test technical infrastructure.....	9
7.1 [RMI-CT_TREQ-13, 14, 15, 16, 18, Annex A] Test client configuration.....	9
7.1.1 Overview.....	9
7.1.2 Test purpose.....	9
7.1.3 Configuration.....	9
7.1.4 Preamble (setup state).....	9
7.1.5 Test execution.....	9
7.1.6 Post-amble.....	10
7.2 [RMI-CT_TREQ-17] Test presentation formats for information packages.....	10
7.2.1 Overview.....	10
7.2.2 Test purpose.....	10
7.2.3 Configuration.....	10
7.2.4 Preamble (setup state).....	10
7.2.5 Test execution.....	10
7.2.6 Post-amble.....	10
8 CT cluster 2 — Test client's external interfaces.....	10
8.1 [RMI-CT_TREQ-9] Test vehicle communication interface (VCI).....	10
8.1.1 Overview.....	10
8.1.2 Test purpose.....	10
8.1.3 Configuration.....	11
8.1.4 Preamble (setup state).....	11
8.1.5 Test execution.....	11
8.1.6 Post-amble.....	11
8.2 [RMI-CT_TREQ-11] Test parts ordering for security-related features.....	11
8.2.1 Overview.....	11
8.2.2 Test purpose.....	11
8.2.3 Configuration.....	12
8.2.4 Preamble (setup state).....	12
8.2.5 Test execution.....	12
8.2.6 Post-amble.....	12

8.3	[RMI-CT_TREQ-12] Test partnered accessory provider systems.....	12
8.3.1	Overview.....	12
8.3.2	Test purpose.....	12
8.3.3	Configuration.....	12
8.3.4	Preamble (setup state).....	12
8.3.5	Test execution.....	13
8.3.6	Post-amble.....	13
9	CT cluster 3 — Test user authentication, authorization and administration.....	13
9.1	[RMI-CT_UC1.1] Test to register IO for use of the VM RMI system.....	13
9.1.1	Overview.....	13
9.1.2	Test purpose.....	13
9.1.3	Configuration.....	13
9.1.4	Preamble (setup state).....	13
9.1.5	Test execution.....	14
9.1.6	Post-amble.....	14
9.2	[RMI-CT_UC1.2_A] Test to register IO employee for use of the VM RMI system — Scenario A.....	14
9.2.1	Overview.....	14
9.2.2	Test purpose.....	14
9.2.3	Configuration.....	14
9.2.4	Preamble (setup state).....	14
9.2.5	Test execution.....	15
9.3	[RMI-CT_UC1.2_B] Test to register IO employee for use of the VM RMI system — Scenario B.....	15
9.3.1	Overview.....	15
9.3.2	Test purpose.....	15
9.3.3	Configuration.....	15
9.3.4	Preamble (setup state).....	15
9.3.5	Test execution.....	15
9.3.6	Post-amble.....	16
9.4	[RMI-CT_UC1.3] Test to maintain IO status.....	16
9.4.1	Overview.....	16
9.4.2	Test purpose.....	16
9.4.3	Configuration.....	16
9.4.4	Preamble (setup state).....	16
9.4.5	Test execution.....	16
9.4.6	Post-amble.....	17
9.5	[RMI-CT_UC1.4] Test to maintain user status.....	17
9.5.1	Overview.....	17
9.5.2	Test purpose.....	17
9.5.3	Configuration.....	17
9.5.4	Preamble (setup state).....	17
9.5.5	Test execution.....	17
9.5.6	Post-amble.....	18
9.6	[RMI-CT_UC1.5] Test to the deletion of the registration of an IO employee.....	18
9.6.1	Overview.....	18
9.6.2	Test purpose.....	18
9.6.3	Configuration.....	18
9.6.4	Preamble (setup state).....	18
9.6.5	Test execution.....	18
9.6.6	Post-amble.....	19
9.7	[RMI-CT_UC1.6] Test login to VM RMI system.....	19
9.7.1	Overview.....	19
9.7.2	Test purpose.....	19
9.7.3	Configuration.....	19
9.7.4	Preamble (setup state).....	19
9.7.5	Test execution.....	19
9.7.6	Post-amble.....	19

9.8	[RMI-CT_UC1.7] Test for granting access to security-related RMI	19
9.8.1	Overview	19
9.8.2	Test purpose	19
9.8.3	Configuration	20
9.8.4	Preamble (setup state)	20
9.8.5	Test execution	20
9.8.6	Post-amble	20
10	CT cluster 4 — Test functional user interface implementation	20
10.1	[RMI-CT_FREQ-1] Test for RMI access mode	20
10.1.1	Overview	20
10.1.2	Test purpose	20
10.1.3	Configuration	20
10.1.4	Preamble (setup state)	21
10.1.5	Test execution	21
10.1.6	Post-amble	21
10.2	[RMI-CT_FREQ-2] Test for registration and login support	21
10.2.1	Overview	21
10.2.2	Test purpose	21
10.2.3	Configuration	21
10.2.4	Preamble (setup state)	21
10.2.5	Test execution	21
10.2.6	Post-amble	22
10.2.7	Result criteria	22
10.3	[RMI-CT_FREQ-3] Test for implemented use cases map	22
10.3.1	Overview	22
10.3.2	Test purpose	22
10.3.3	Configuration	22
10.3.4	Preamble (setup state)	22
10.3.5	Test execution	22
10.3.6	Post-amble	22
10.4	[RMI-CT_FREQ-4] Test for download area	23
10.4.1	Overview	23
10.4.2	Test purpose	23
10.4.3	Configuration	23
10.4.4	Preamble (setup state)	23
10.4.5	Test execution	23
10.4.6	Post-amble	23
10.5	[RMI-CT_FREQ-5] Test for navigational pathway	23
10.5.1	Overview	23
10.5.2	Test purpose	24
10.5.3	Configuration	24
10.5.4	Preamble (setup state)	24
10.5.5	Test execution	24
10.5.6	Post-amble	24
11	CT cluster 5 — Test payment for RMI	24
11.1	[RMI-CT_UC2] Test payment for RMI	24
11.1.1	Overview	24
11.1.2	Test purpose	25
11.1.3	Configuration	25
11.1.4	Preamble (setup state)	25
11.1.5	Test execution	25
11.1.6	Post-amble	25
12	CT cluster 6 — Test for vehicle identification	26
12.1	[RMI-CT_UC3.1] Test vehicle identification through use of VIN	26
12.1.1	Overview	26
12.1.2	Test purpose	26
12.1.3	Configuration	26

12.1.4	Preamble (setup state)	26
12.1.5	Test execution	26
12.1.6	Post-amble	26
12.2	[RMI-CT_UC3.2] Test vehicle identification via product features	27
12.2.1	Overview	27
12.2.2	Test purpose	27
12.2.3	Configuration	27
12.2.4	Preamble (setup state)	27
12.2.5	Test execution	27
12.2.6	Post-amble	27
13	CT cluster 7 — Test selection methods for RMI	28
13.1	[RMI-CT_UC4.1] Test selection of information type	28
13.1.1	Overview	28
13.1.2	Test purpose	28
13.1.3	Configuration	28
13.1.4	Preamble (setup state)	28
13.1.5	Test execution	28
13.1.6	Post-amble	28
13.2	[RMI-CT_UC4.2] Test search by standardized terms	28
13.2.1	Overview	28
13.2.2	Test purpose	29
13.2.3	Configuration	29
13.2.4	Preamble (setup state)	29
13.2.5	Test execution	29
13.2.6	Post-amble	29
13.3	[RMI-CT_UC4.3] Test navigation using product structure	29
13.3.1	Overview	29
13.3.2	Test purpose	29
13.3.3	Configuration	30
13.3.4	Preamble (setup state)	30
13.3.5	Test execution	30
13.3.6	Post-amble	30
13.4	[RMI-CT_UC4.4] Test selection by document identifier	30
13.4.1	Overview	30
13.4.2	Test purpose	30
13.4.3	Configuration	30
13.4.4	Preamble (setup state)	30
13.4.5	Test execution	31
13.4.6	Post-amble	31
14	CT cluster 8 — Test retrieval of information packages	31
14.1	[RMI-CT_UC5.1.1] Test retrieval of general workshop procedures	31
14.1.1	Overview	31
14.1.2	Test purpose	31
14.1.3	Configuration	31
14.1.4	Preamble (setup state)	31
14.1.5	Test execution	32
14.1.6	Post-amble	32
14.2	[RMI-CT_UC5.1.2] Test retrieval of body repair procedures	32
14.2.1	Overview	32
14.2.2	Test purpose	32
14.2.3	Configuration	32
14.2.4	Preamble (setup state)	32
14.2.5	Test execution	32
14.2.6	Post-amble	33
14.3	[RMI-CT_UC5.1.3] Test retrieval of temporary repair procedures	33
14.3.1	Overview	33
14.3.2	Test purpose	33

14.3.3	Configuration	33
14.3.4	Preamble (setup state)	33
14.3.5	Test execution	33
14.3.6	Post-amble	34
14.4	[RMI-CT_UC5.1.4] Test retrieval of preparation for PTI	34
14.4.1	Overview	34
14.4.2	Test purpose	34
14.4.3	Configuration	34
14.4.4	Preamble (setup state)	34
14.4.5	Test execution	34
14.4.6	Post-amble	35
14.5	[RMI-CT_UC5.2] Test retrieval of wiring diagrams	35
14.5.1	Overview	35
14.5.2	Test purpose	35
14.5.3	Configuration	35
14.5.4	Preamble (setup state)	35
14.5.5	Test execution	35
14.5.6	Post-amble	35
14.6	[RMI-CT_UC5.3] Test retrieval of technical service bulletin	35
14.6.1	Overview	35
14.6.2	Test purpose	36
14.6.3	Configuration	36
14.6.4	Preamble (setup state)	36
14.6.5	Test execution	36
14.6.6	Post-amble	36
14.7	[RMI-CT_UC5.4] Test retrieval of recall information	36
14.7.1	Overview	36
14.7.2	Test purpose	36
14.7.3	Configuration	36
14.7.4	Preamble (setup state)	37
14.7.5	Test execution	37
14.7.6	Post-amble	37
14.8	[RMI-CT_UC5.5] Test retrieval of maintenance schedule	37
14.8.1	Overview	37
14.8.2	Test purpose	37
14.8.3	Configuration	37
14.8.4	Preamble (setup state)	37
14.8.5	Test execution	38
14.8.6	Post-amble	38
14.9	[RMI-CT_UC5.6.1] Test retrieval of spare parts (identification)	38
14.9.1	Overview	38
14.9.2	Test purpose	38
14.9.3	Configuration	38
14.9.4	Preamble (setup state)	38
14.9.5	Test execution	38
14.9.6	Post-amble	39
14.10	[RMI-CT_UC5.6.2] Test retrieval of spare parts (access)	39
14.10.1	Overview	39
14.10.2	Test purpose	39
14.10.3	Configuration	39
14.10.4	Preamble (setup state)	39
14.10.5	Test execution	39
14.10.6	Post-amble	40
14.11	[RMI-CT_UC5.7.1] Test retrieval of accessory information factory fitted (included in general RMI)	40
14.11.1	Overview	40
14.11.2	Test purpose	40
14.11.3	Configuration	40