

INTERNATIONAL
STANDARD

ISO/IEC
19763-3

Third edition
2020-10

**Information technology —
Metamodel framework for
interoperability (MFI) —**

**Part 3:
Metamodel for ontology registration**

*Technologies de l'information — Cadre du métamodèle pour
l'interopérabilité (MFI) —*

Partie 3: Métamodèle pour l'enregistrement de l'ontologie



Reference number
ISO/IEC 19763-3:2020(E)

© ISO/IEC 2020



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2020

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	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms, definitions and abbreviated terms	1
3.1 Terms and definitions	1
3.1.1 Terms on ontology	2
3.1.2 Other terms	2
3.2 Abbreviated terms	2
4 Conformance	3
4.1 General	3
4.2 Levels of conformance	3
4.2.1 General	3
4.2.2 Conformance level 1	3
4.2.3 Conformance level 2	3
4.3 Degree of conformance	3
4.3.1 General	3
4.3.2 Strictly conforming implementation	3
4.3.3 Conforming implementation	3
4.4 Implementation conformance statement (ICS)	4
5 Structure of MFI ontology registration	4
5.1 Overview of MFI ontology registration	4
5.2 Overview of Basic_Model package	4
5.3 Overview of Evolution_Model package	6
5.4 Association between MFI ontology registration and MFI core and mapping	7
5.5 Basic_Model package	8
5.5.1 Authoritative_Extent	8
5.5.2 Local_Item	8
5.5.3 Ontology_Language	9
5.5.4 Ontology_Whole	9
5.5.5 Registered_Ontology_Whole	9
5.5.6 Unregistered_Ontology_Whole	10
5.5.7 Reference_Registered_Ontology_Whole	10
5.5.8 Local_Registered_Ontology_Whole	11
5.5.9 Ontology_Component	11
5.5.10 Registered_Ontology_Component	12
5.5.11 Reference_Registered_Ontology_Component	12
5.5.12 Local_Registered_Ontology_Component	13
5.5.13 Ontology_Atomic_Construct	14
5.5.14 Registered_Ontology_Atomic_Construct	14
5.5.15 Unregistered_Ontology_Atomic_Construct	15
5.5.16 Reference_Registered_Ontology_Atomic_Construct	16
5.5.17 Local_Registered_Ontology_Atomic_Construct	16
5.6 Evolution_Model package	17
5.6.1 Item_Evolution	17
5.6.2 Registered_Ontology_Whole_Evolution	17
5.6.3 Registered_Ontology_Component_Evolution	18
5.6.4 Registered_Ontology_Atomic_Construct_Evolution	19
Annex A (informative) List of Ontology_Languages	20
Annex B (informative) Example of Basic_Model	21
Annex C (informative) Example of Evolution_Model	31