

INTERNATIONAL
STANDARD

ISO/IEC
24744

Second edition
2014-11-15

Software engineering — Metamodel for development methodologies

Ingénierie du logiciel — Métamodèle pour les méthodologies de développement

Reference number
ISO/IEC 24744:2014(E)



© ISO/IEC 2014



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2014

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
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	v
Introduction.....	vi
1 Scope.....	1
2 Conformance	1
3 Terms and definitions	1
4 Naming, diagramming and definition conventions, and abbreviated terms	3
4.1 Naming, diagramming and definition conventions.....	3
4.2 Abbreviations.....	4
5 Basic Concepts.....	4
5.1 Method Engineering	5
5.2 Dual-Layer Modelling	5
5.3 Powertypes and Clabjects.....	5
5.4 Uniting Process and Product	6
5.5 Process Assessment	6
6 Introduction to the SEMDM	7
6.1 Highly Abstract View	7
6.2 Abstract View and Core Classes	7
6.3 Process Classes	8
6.4 Producer Classes	10
6.5 Product Classes	11
6.6 Connection between Process and Product	12
6.7 Support Classes	13
7 Metamodel Elements	14
7.1 Classes	14
7.2 Enumerated Types	61
8 Using the Metamodel	62
8.1 Usage Rules	62
8.2 Usage Guidelines	63
9 Extending the Metamodel	64
9.1 Extension Rules.....	64
9.2 Extension Guidelines	65
Annex A (informative) Worked Example	66
A.1 SimpleMethod Description	66
A.2 Construction of Process Components	66
A.3 Construction of Producer Components	68
A.4 Construction of Product Components	68
A.5 Connection Between Process and Product Components	70
Annex B (informative) Mappings to Other Metamodelling Approaches	72
B.1 OMG SPEM 1.1	72
B.2 OOSPICE.....	73
B.3 OPEN	73
B.4 LiveNet	74
B.5 ISO/IEC 12207 and 15288	74
B.6 ISO/IEC 15504 (SPICE).....	75
B.7 ISO/IEC 19501 (UML 1.4.2)	75
Annex C (informative) Graphical Notation	76
C.1 Introduction	76