

ISO/IEC 19508:2014-04 (E)

Information technology - Object Management Group Meta Object Facility (MOF) Core

Contents		Page
1	Scope	1
2	Conformance	1
3	Normative References	2
4	Terms and Definitions	2
5	Symbols	3
6	Additional Information	3
6.1	General Information	3
6.2	Structure of the MOF 2 Specification	3
7	MOF Architecture (informative)	5
7.1	General	5
7.2	MOF 2 Design Goals	5
7.3	How Many Meta Layers?	6
7.4	Reuse of Common Core Packages by UML 2 and MOF 2	7
8	Language Formalism	9
8.1	General	9
8.2	Metamodel Specification	9
8.3	Using Packages to Partition and Extend Metamodels	9
9	Reflection	11
9.1	General	11
9.2	Element	11
9.3	Factory	13
9.4	Object	14
9.4.1	Operations	14
10	Identifiers	17
10.1	General	17
10.2	Extent	17
10.3	URIExtent	18
10.4	MOF::Common	19
10.5	ReflectiveCollection	19
10.6	ReflectiveSequence	20
11	Extension	23
11.1	General	23
11.2	Tag	23
12	The Essential MOF (EMOF) Model	25
12.1	General	25
12.2	EMOF Merged Model	26
12.3	Merged Elements from MOF	28
12.4	EMOF Constraints	29
12.5	EMOF Definitions and Usage Guidelines for the UML Models	31
12.6	Predefined Tags	32

13	CMOF Reflection	35
13.1	General	35
13.2	Link	36
13.3	Argument	37
13.4	Object	37
13.5	Element	38
13.6	Factory	38
13.7	Extent	38
14	The Complete MOF (CMOF) Model	41
14.1	General	41
14.2	Elements used from UML 2	42
14.3	Imported Elements from MOF	42
14.4	CMOF Constraints	43
14.5	CMOF Extensions to Capabilities	45
14.5.1	Reflection	45
14.5.2	Extension	45
15	CMOF Abstract Semantics	47
15.1	General	47
15.2	Approach	47
15.3	MOF Instances Model	47
15.4	Remarks on MOF Instance Modeling	50
15.5	Object Capabilities	50
15.6	Link Capabilities	52
15.7	Factory Capabilities	52
15.8	Extent Capabilities	53
15.9	Additional Operations	55
Annex A	- XMI for MOF 2 Core	59
Annex B	- Metamodel Constraints in OCL	61
Annex C	- Migration from MOF 1.4	63
Annex D	- Bibliography	69
Annex E	- Legal Information	71
Annex F	- Acknowledgments	75