

ISO/IEC 19763-7:2015-10 (E)

Information technology - Metamodel framework for interoperability (MFI) - Part 7: Metamodel for service model registration

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms, definitions and abbreviated terms	2
3.1	Terms and definitions	2
3.2	Abbreviated terms	4
4	Conformance	5
4.1	General	5
4.2	Degree of conformance	5
4.2.1	General	5
4.2.2	Strictly conforming implementation	5
4.2.3	Conforming implementation	5
4.3	Implementation Conformance Statement (ICS)	5
5	MFI Service model registration	6
5.1	Overview of MFI Service model registration	6
5.2	Associations between MFI Service model registration and other parts in MFI	7
5.3	Structure of MFI Service model registration	8
5.3.1	Atomic_Expression	8
5.3.2	Composite_Expression	9
5.3.3	Exit_Condition	9
5.3.4	Expression	10
5.3.5	Input_Message	11
5.3.6	Message_Type	11
5.3.7	Output_Message	12
5.3.8	Postcondition	13
5.3.9	Precondition	13
5.3.10	QoS_Assertion	14
5.3.11	QoS_Type	14
5.3.12	Service	15
5.3.13	Service_Description_Language	16
5.3.14	Service_Model	16
5.3.15	Service_Operation	17
5.3.16	Service_Type	18
5.3.17	User_Tag	18
Annex A (informative)	List of existing service description languages	19
Annex B (informative)	Examples	20
Bibliography		35
Figures	Figure 1 -- Scope of MFI Service model registration	1
	Figure 2 --Metamodel of MFI service model registration	6

Figure 3 --The associations between MFI Service model registration and MFI Process model registration and MFI Role and Goal model registration	7
Figure 4 --The associations between MFI Service model registration and MFI Core and mapping	8
Figure B.1 -The service model of Hotel_Reservation in WSDL 2.0 notation (fragment) (Part 1 of 2) ..	21
Figure B.1 -The service model of Hotel_Reservation in WSDL 2.0 notation (fragment) (Part 2 of 2) ..	22
Figure B.2 -Registration of the Hotel_Reservation example	23
Figure B.3 -The service model of Book_Ticket in WSML notation (fragment)	24
Figure B.4 -Registration of the Book_Ticket example (Part 1 of 2)	25
Figure B.4 -Registration of the Book_Ticket example (Part 2 of 2)	26
Figure B.5 -The service model of Search_item in WADL notation (fragment)	27
Figure B.6 -Registration of the Search_Item example	28
Figure B.7 -The service model of Congo_BookBuying_Agent in OWL-S notation (fragment) (Part 1 of 4)	29
Figure B.7 -The service model of Congo_BookBuying_Agent in OWL-S notation (fragment) (Part 2 of 4)	30
Figure B.7 - The service model of Congo_BookBuying_Agent in OWL-S notation (fragment) (Part 3 of 4)	31
Figure B.7 - The service model of Congo_BookBuying_Agent in OWL-S notation (fragment) (Part 4 of 4)	32
Figure B.8 -Registration of the Congo_BookBuying_Agent example (Part 1 of 2)	33
Figure B.8 -Registration of the Congo_BookBuying_Agent example (Part 2 of 2)	34
Tables Table A.1 - List of existing service description languages	19