

ISO/IEC 19757-4:2006-06 (E)

Information technology - Document Schema Definition Languages (DSDL) - Part 4: Namespace-based Validation Dispatching Language (NVDL)

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Notation	3
5	Data model	3
5.1	General	3
5.2	Creating a data model from the infoset	4
6	Syntax	6
6.1	General	6
6.2	Full syntax	6
6.3	Simple syntax	8
6.4	Simplification	10
6.4.1	General	10
6.4.2	Annotations	10
6.4.3	Whitespace	10
6.4.4	message attribute	10
6.4.5	mustSupport attribute	10
6.4.6	schemaType attribute of rules elements	11
6.4.7	rules without mode children	11
6.4.8	child mode elements of validate, allow, reject, attach, unwrap, attachPlaceholder, or context elements	11
6.4.9	namespace or anyNamespace elements	11
6.4.10	mode inclusion	11
6.4.11	competition within mode	12
6.4.12	default anyNamespace	12
6.4.13	allow and reject	12
6.4.14	useMode attribute	13
7	Primitive operations	13
7.1	General	13
7.2	Creating element sections and attribute sections	13
7.3	Decomposition of element sections by trigger elements	15
7.4	Attaching attribute sections to elements	17
7.5	Attaching element sequences to elements	17
7.6	Creating placeholder elements from element sections	18
7.7	Converting attribute sections to empty elements	18
8	Semantics	18
8.1	General	18
8.2	Preliminaries	19
8.3	Stage 1: Creating element and attribute sections	20
8.4	Stage 2: Constructing interpretations	20

8.5	Stage 3: Combining sections	20
8.6	Stage 4: Filtering of the combined sections	22
8.7	Stage 5: Validation	22
8.7.1	General	22
8.7.2	Determining schemas and schema languages	22
8.7.3	Schema rewriting for attribute sections	23
8.7.4	Options	23
9	Conformance	23
C.2	RELAX NG schema	35
C.3	NVDL script	40
Annex D (informative) Example		42
D.1	General	42
D.2	RDF embedded within XHTML	42
D.2.1	Simplification	42
D.2.2	Dispatching	43
D.2.2.1	General	43
D.2.2.2	Stage 1	43
D.2.2.3	Stage 2	44
D.2.2.4	Stage 3	44
D.2.2.5	Stage 4	44
D.2.2.6	Stage 5	44
D.3	XHTML 2.0 and XForms	44
D.3.1	Simplification	44
D.3.2	Dispatching	47
D.3.2.1	General	47
D.3.2.2	Stage 1	47
D.3.2.3	Stage 2	47
D.3.2.4	Stage 3	48
D.3.2.5	Stage 4	48
D.3.2.6	Stage 5	49
Bibliography		50
Annex A (normative) Full syntax in RELAX NG		24
Annex B (normative) Simple syntax in RELAX NG		31
Annex C (informative) An NVDL script and RELAX NG schema for the full syntax		35
C.1	General	35