

ISO/IEC 19757-3:2025-09 (E)

Information technology - Document Schema Definition Languages (DSDL) - Part 3: Rule-based validation using Schematron

Contents

Page

- Foreword v
- Introduction vi
- 1 Scope 1
- 2 Normative references 1
- 3 Terms and definitions 2
- 4 Notation 4
- 5 Syntax 4
 - 5.1 Well-formedness 4
 - 5.2 Namespace 4
 - 5.3 Whitespace 4
 - 5.4 Core elements 5
 - 5.4.1 General 5
 - 5.4.2 `active` element 5
 - 5.4.3 `assert` element 5
 - 5.4.4 `extends` element 5
 - 5.4.5 `group` element 6
 - 5.4.6 `include` element 6
 - 5.4.7 `let` element 6
 - 5.4.8 `library` element 6
 - 5.4.9 `name` element 6
 - 5.4.10 `ns` element 6
 - 5.4.11 `param` element 7
 - 5.4.12 `pattern` element 7
 - 5.4.13 `phase` element 7
 - 5.4.14 `report` element 8
 - 5.4.15 `rule` element 8
 - 5.4.16 `rules` element 8
 - 5.4.17 `schema` element 8
 - 5.4.18 `value-of` element 9
 - 5.5 Ancillary elements and attributes 9
 - 5.5.1 `diagnostic` element 9
 - 5.5.2 `diagnostics` attribute 9
 - 5.5.3 `diagnostics` element 9
 - 5.5.4 `dir` element 9
 - 5.5.5 `emph` element 9
 - 5.5.6 `flag` attribute 9
 - 5.5.7 `from` attribute 10
 - 5.5.8 `fpi` attribute 10
 - 5.5.9 `icon` attribute 10
 - 5.5.10 `p` element 10
 - 5.5.11 `properties` attribute 10
 - 5.5.12 `properties` element 10
 - 5.5.13 `property` element 10
 - 5.5.14 `role` attribute 11
 - 5.5.15 `schematronEdition` attribute 11
 - 5.5.16 `severity` attribute 11
 - 5.5.17 `see` attribute 11
 - 5.5.18 `span` element 11
 - 5.5.19 `subject` attribute 11

5.5.20	<code>title</code> element.....	12
5.5.21	<code>visit-each</code> attribute.....	12
5.5.22	<code>when</code> attribute.....	12
6	Semantics	12
6.1	Validation function.....	12
6.2	Minimal syntax.....	13
6.3	Processing model.....	13
6.4	Abstract pattern processing.....	14
6.5	Query language binding.....	16
6.6	Order and side-effects.....	16
6.7	Localization and language fixup.....	17
6.8	Base URI fixup.....	17
7	Conformance	17
7.1	Simple conformance.....	17
7.2	Full conformance.....	17
	Annex A (normative) RELAX NG schema for Schematron	19
	Annex B (normative) Schematron schema for additional constraints	23
	Annex C (normative) Default query language binding	25
	Annex D (informative) Schematron Validation Report Language	26
	Annex E (informative) Design requirements	35
	Annex F (informative) Use of Schematron as a vocabulary	36
	Annex G (informative) Use of Schematron for multi-lingual schemas	37
	Annex H (normative) Query language binding for XSLT2	38
	Annex I (normative) Query language binding for XPath2	40
	Annex J (normative) Query language binding for XSLT3	41
	Annex K (normative) Query language binding for XPath3	43
	Annex L (normative) Query language binding for XPath31	44
	Annex M (normative) Query language binding for XQuery3	45
	Annex N (normative) Query language binding for XQuery31	47
	Annex O (informative) Example usage of Schematron properties	49
	Bibliography	51