1. DR xx — xx

Status: Open

Subject: Clearly state the differences between XSD scheams and RNG schemas.

Qualifier: Request for clarification

Submitter: MURATA Makoto   **Organization:** JISC

Contact Information: eb2m-mrt@asahi-net.or.jp

Submitter's Defect Number: None

Supporting Document(s): None

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IS 29500 Reference(s): Parts 1 and 4, Appendix B

Related DR(s): None

Nature of the Defect:

Although the RELAX NG schemas are not completely identical to the XSD schemas, the differences are not explained at all.

Solution Proposed by the Submitter:

In Appendix B of Part 1, add:

Differences between RELAX NG schemas and W3C XML Schema schemas in Part 1

RELAX NG schemas in Appendix B are generated from W3C XML Schema schemas (Annex A),

namespace prefix mapping (Annex D), Root Element Locations (Annex L), automatically, and then slightly changed by hand. There are some important differences between the RELAX NG schemas and XSD schemas.

RELAX NG schemas specify root elements of each OPC part, while XSD schemas do not.

RELAX NG schemas do not specify default values, while XSD schemas do. However, default values in XSD schemas will not be embedded within information sets when office software does not validate OOXML documents

RELAX NG schemas mimic minOccurs="0", minOccurs="1", maxOccurs="1", and maxOccurs="unbounded" in XSD schemas exactly, but do not mimic minOccurs="32" or maxOccurs="256". Such minOccurs and maxOccurs are loosely simulated by <oneOrMore> or <zeroOrMore>.

RELAX NG schemas can represent co-occurrence constraints between elements and attributes.

In Appendix B of Part, add:

Differences between RELAX NG schemas and W3C XML Schema schemas in Part 4

On top of the differences described in Part 1, Appendix B, there are some other differences.

VML drawing parts (Part 4, 8.1) can be validated against RELAX NG schemas, but cannot be validated against XSD schemas. This is because there are no XSD schemas for the unqualified xml element, which is the root element of VML drawing parts.

Schema Change(s) Needed: No

Editor's Response:

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Changes to Part 1: Y **Part 2:** N **Part 3:** N **Part 4:** Y