International Telecommunications Union

ITU-T

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TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Series

metanorma-itu: Asciidoctor processor for ITU

Keywords:
Article ITU-T

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications , information and communication technologies (ICTs). The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1 .

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency .

Compliance with this Recommendation is voluntary. However, the Recommendation may contain certain mandatory provisions (to ensure, e.g., interoperability or applicability) and compliance with the Recommendation is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the Recommendation is required of any party .

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As of the date of approval of this Recommendation, ITU had received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at http://www.itu.int/ITU-T/ipr/.

CONTENTS

1. FUNCTIONALITY

This gem processes Asciidoctor documents following a template for generating ITU documents.

The gem currently inherits from the https://github.com/metanorma/metanorma-standoc gem, and aligns closely to it. Refer to the ISO gem documentation for guidance, including https://github.com/metanorma/metanorma-iso/wiki/Guidance-for-authoring

The following outputs are generated.

— an XML representation of the document, intended as a document model for ITU documents.
— The XML representation is processed in turn to generate the following outputs as end deliverable ITU documents.

  — HTML
  — AsciiMathML is to be used for mathematical formatting. The gem uses the Ruby AsciiMath parser, which is syntactically stricter than the common MathJax processor; if you do not get expected results, try bracketing terms your in AsciiMathML expressions.

2. USAGE

The preferred way to invoke this gem is via the `metanorma` script:

```
$ metanorma --type itu a.adoc                   # output HTML
$ metanorma --type itu --extensions html a.adoc # output just HTML
$ metanorma --type itu --extensions xml a.adoc  # output RSD XML
```

The gem translates the document into Metanorma XML format, and then validates its output against the Metanorma XML document model; errors are reported to console against the XML, and are intended for users to check that they have provided all necessary components of the document.

The gem then converts the XML into HTML.

2.1. Installation

If you are using a Mac, the https://github.com/metanorma/metanorma-macos-setup repository has instructions on setting up your machine to run Metanorma scripts such as this one. You need only run the following in a Terminal console:

```
$ bash <(curl -s https://raw.githubusercontent.com/metanorma/metanorma-macos-setup/master/metanorma-setup)
$ gem install metanorma-acme
$ gem install metanorma-cli
```

3. DOCUMENTATION

See Write ITU-T documents with Metanorma.

4. EXAMPLES

— spec/examples/rfc6350.adoc is an Metanorma Asciidoctor version of RFC 6350.
— spec/examples/rfc6350.html is an HTML file generated from the Asciidoctor.
— spec/examples/rfc6350.doc is a Word document generated from the Asciidoctor.