

Requirements for the SCF Module TTML2SRXML

Contents

- Disclaimer..... 3**
- Structure of the requirements..... 3**
- Requirements for Sub-module TTML2SRTXML.....3**
 - requirement-850: TTML to SRT XML.....3
 - requirement-851: tt:p element mapping..... 4
 - requirement-852: ID generation..... 4
 - requirement-853: begin attribute mapping.....4
 - requirement-854: end attribute mapping..... 5
 - requirement-855: text nodes mapping - text..... 5
 - requirement-856: text nodes mapping - line breaks..... 6

Disclaimer

Copyright 2020 Institut für Rundfunktechnik GmbH, Munich, Germany

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

You may obtain a copy of the License at <https://www.apache.org/licenses/LICENSE-2.0>.

Unless required by applicable law or agreed to in writing, the subject work distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

Structure of the requirements

The structure of the requirements is as follows:

- **Title:** a short title, prepended with the internal ID of the requirement
- **Description:** the requirement text. The specified text will be used to test the implementation.
- **Area:** Apart from more general requirements the requirements are categorized by modules (e.g. STLXML2EBU-TT or EBU-TT2EBU-TT-D)
- **Requirement Review Status:** This is the internal review status of the requirement itself (especially of the requirement text).
- **Status Implementation:** This status indicates if the requirement is already met by the implementation. The possible status codes are:
 - *outstanding* - the corresponding code has not yet been written, or the requirement has been implemented but there are no test files for it
 - *waitingReview* - the code to implement the requirement has been written but nobody (except the developer) has reviewed the code yet
 - *underReview* - the corresponding code is under review and has not yet been accepted by the first reviewer
 - *reviewed* - the corresponding code has been reviewed and accepted by the first reviewer
 - *accepted* - the corresponding code has been accepted by the developer team and is ready to be published
- **Priority according to MoSCoW:** the priority that is the base to decide when the feature will be implemented. The possible values are:
 - *M* - must
 - *S* - should
 - *C* - could
 - *W* - won't

For more information see: https://en.wikipedia.org/wiki/MoSCoW_method

Requirements for Sub-module TTML2SRTXML

requirement-850: TTML to SRT XML

Description

There is the option to transform a TTML file into an SRT XML file.

Area

TTML2SRTXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-851: tt:p element mapping

Description

A tt:p element of the input document is mapped to a subtitle element in the output document.

Area

TTML2SRTXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-852: ID generation

Description

The value of the id child element of a subtitle element of the output document is set to an integer number. This is done in such a way that all subtitle elements in the output document are numbered consecutively, starting with 1.

Area

TTML2SRTXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-853: begin attribute mapping

Description

The begin attribute of a tt:p element of the input document is mapped to the begin child element of the corresponding subtitle element of the output document. Hereby the timecode is converted to the format "hh:mm:ss,sss" (e.g. "01:23:45,678"). In the input document the attribute must be present on tt:p elements, but not on the tt:body element or any of its other descendants. The value of the attribute must not make use of frames or ticks units.

Area

TTML2SRTXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-854: end attribute mapping

Description

The end attribute of a tt:p element of the input document is mapped to the end child element of the corresponding subtitle element of the output document. Hereby the timecode is converted to the format "hh:mm:ss,sss" (e.g. "01:23:45,678"). In the input document the attribute must be present on tt:p elements, but not on the tt:body element or any of its other descendants. The value of the attribute must not make use of frames or ticks units. In the input document the "dur" attribute must not be present on the tt:body element or any of its descendants.

Area

TTML2SRTXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-855: text nodes mapping - text

Description

All descendant text nodes of a tt:p element of the input document are mapped to zero or more line child elements of the corresponding subtitle element of the output document. Any other descendant nodes of the tt:p element are discarded. Possible whitespace is replaced by a single space and leading/trailing whitespace is stripped.

Area

TTML2SRTXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-856: text nodes mapping - line breaks

Description

As every tt:br element descendant of a tt:p element of the input document corresponds to a line break between adjacent text lines, any affected text nodes before and after that tt:br element are stored in different, adjacent line elements in the output document.

Area

TTML2SRXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m