Requirements for the SCF Module STL2STLXML

Contents

Disclaimer

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 STL2STLXML

requirement-164: Code Page 850 - GSI Header (20h - 7Fh)

Description

The STL to STLXML module supports the Code Page 850 for the GSI Header block. Only the chars 0x20 to 0xFF (except 0x7F) are considered, as the other chars are usually treated as control chars.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-165: Character Code table 00 - TTI blocks - Code Range 20h-7Eh

Description

The STL to STLXML module supports the character code table 00 (ISO 6937/2) for the TTI Blocks in the code range 20h - 7Eh.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-166: Character Code table 00 - TTI blocks (A0h - FFh)

Description

The STL to STLXML module supports the character code table 00 (ISO 6937/2) for the TTI Blocks in the code range A0h - FFh.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-171: Decoding Code Page dependent

Description

The values of the GSI element's children are decoded depending on the used Code Page that's given in the CPN-field of the GSI Header as described in EBU Tech 3264 Table 1 (p.4).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-172: Code Page Number mapping

Description

The Code Page Number (CPN) field in the STL file (Bytes 0 to 2) is mapped to the CPN element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-173: Disk Format Code mapping

Description

The Disk Format Code (DFC) field in the STL file (Bytes 3 to 10) is mapped to the DFC element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-174: Display Standard Code mapping

Description

The Display Standard Code (DSC) field in the STL file (Byte 11) is mapped to the DSC element. The Display Standard Code "Blank" for the value "Undefined" is translated as a space (20h).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-175: Character Code Table Number mapping

Description

The Character Code Table Number (CCT) field in the STL file (Bytes 12 to 13) is mapped to the CCT element. If the character code in the STL is not defined by Tech 3264 the conversion is stopped.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-176: Language Code mapping

Description

The Language Code (LC) field in the STL file (Bytes 14 to 15) is mapped to the LC element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-177: Original Programme Title (OPT), Bytes 16 to 47, OPT

Description

The Original Programme Title (OPT) field in the STL file (Bytes 16 to 47) is mapped to OPT element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-178: Original Episode Title mapping

Description

The Original Episode Title (OET) field in the STL file (Bytes 48 to 79) is mapped to the OET element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-179: Translated Programme Title mapping

Description

The Translated Programme Title (TPT) field in the STL file (Bytes 80 to 111) is mapped to the TPT element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-180: Translated Episode Title mapping

Description

The Translated Episode Title (TET) field in the STL file (Bytes 112 to 143) is mapped to the TET element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-181: Translator's Name mapping

Description

The Translator's Name (TN) field in the STL file (Bytes 144 to 175) is mapped to the TN element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-182: Translator's Contact Details mapping

Description

The Translator's Contact Details (TCD) field in the STL file (Bytes 176 to 207) is mapped to the TCD element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-183: Subtitle List Reference Code mapping

Description

The Subtitle List Reference Code (SLR) field in the STL file (Bytes 208 to 223) is mapped to the SLR element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-184: Creation Date mapping

Description

The Creation Date (CD) field in the STL file (Bytes 224 to 229) is mapped to the CD element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-185: Revision Date mapping

Description

The Revision Date (RD) field in the STL file (Bytes 230 to 235) is mapped to the RD element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-186: Revision Number mapping

Description

The Revision Number (RN) field in the STL file (Bytes 236 to 237) is mapped to the element RN.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-187: Total Number of Text and Timing Information blocks mapping

Description

The Total Number of Text and Timing Information (TNB) field in the STL file (Bytes 238 to 242) is mapped to the TNB element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-188: Total Number of Subtitles mapping

Description

The Total Number of Subtitles (TNS) field in the STL file (Bytes 243 to 247) is mapped to the TNS element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-189: Total Number of Subtitle Groups mapping

Description

The Total Number of Subtitle Groups (TNG) field in the STL file (Bytes 248 to 250) is mapped to TNG element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-190: Maximum Number of Displayable Characters in any text row mapping

Description

The Maximum Number of Displayable Characters in any text row (MNC) field in the STL file (Bytes 251 to 252) is mapped to the MNC element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-191: Maximum Number of Displayable Rows mapping

Description

The Maximum Number of Displayable Rows (MNR) field in the STL file (Bytes 253 to 254) is mapped to the MNR element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-192: Time Code: Status mapping

Description

The Time Code: Status (TCS) field in the STL file (Byte 255) is mapped to the TCS element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-193: Time Code: Start-of-Programme mapping

Description

The Time Code: Start-of-Programme (TCP) field in the STL file (Bytes 256 to 263) is mapped to the TCP element. The format of the element TCP is HHMMSSFF (hours, minutes, seconds, frames).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-194: Time Code: First In-Cue mapping

Description

The Time Code: First In-Cue (TCF) in the STL file (Bytes 264 to 271) is mapped to the TCF element. The format of the element TCF is HHMMSSFF (hours, minutes, seconds, frames)

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-195: Total Number of Disks mapping

Description

The Total Number of Disks (TND) field in the STL file (Byte 272) is mapped to the TND element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-196: Disk Sequence Number mapping

Description

The Disk Sequence Number (DSN) field in the STL file (Byte 273) is mapped to the DSN element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-197: Country of Origin mapping

Description

The Country of Origin (CO) field in the STL file (Bytes 274 to 276) is mapped to the CO element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-198: Publisher mapping

Description

The Publisher (PUB) field in the STL file (Bytes 277 to 308) is mapped to the PUB element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-199: Editor's Name mapping

Description

The Editor's Name (EN) field in the STL file (Bytes 309 to 340) is mapped to the EN element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-200: Editor's Contact Details mapping

Description

The Editor's Contact Details (ECD) field in the STL file (Bytes 341 to 372) is mapped to the ECD element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-201: User-Defined Area mapping

Description

The User-Defined Area (UDA) field in the STL file (Bytes 448 to 1023) is mapped to the UDA element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

c

requirement-206: Subtitle Group Number mapping

Description

The Subtitle Group Number (SGN) field in the STL file (Byte 0) is mapped to the SGN element. The value is encoded as decimal.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-207: Subtitle Number mapping

Description

The Subtitle Number (SN) field in the STL file (Bytes 1 to 2) is mapped to the SN element. The value is encoded as decimal. The TTI

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-208: Extension Block Number mapping

Description

The Extension Block Number (EBN) field in the STL file (Byte 3) is mapped to the EBN element. The TF field of a TTI Blocks that has a EBN number in the Range 00-EF is concatenated with following one until a TTI Block has an EBN with the value FF (except an optional parameter disables the concatenation). TTI Blocks with the value FE (User Data) are output with the Text Field (TF) content converted to Base64. TTI Blocks with an EBN in the range F0-FD (Reserved Codes) are ignored.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-209: Cumulative Status mapping

Description

The Cumulative Status (CS) field in the STL file (Byte 4) is mapped to the CS element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-210: Time Code In mapping

Description

The Time Code In (TCI) field in the STL file (Bytes 5 to 8) is mapped to the TCI element. The hex values are encoded as decimal.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-211: Time Code Out mapping

Description

The Time Code Out (TCO) field in the STL file (Bytes 9 to 12) is mapped to the TCO element. Hex values are encoded as decimals.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-212: Vertical Position mapping

Description

The Vertical Position (VP) field in the STL file (Byte 13) is mapped to the VP element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-213: Justification Code mapping

Description

The Justification Code (JC) field in the STL file (Byte 14) is mapped to the JC element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-214: Comment Flag mapping

Description

The Comment Flag (CF) field in the STL file (Byte 15) is mapped to the CF element.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-215: Text Field mapping

Description

The Text Field (TF) field in the STL file (Bytes 16 to 127) is mapped to the TF element. If the respective TTI block contains User Data (EBN value 0xFE), the content is converted to Base64.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-217: Space mapping

Description

A Space (20h) within a TTI block's Text field (TF) is mapped to the element space. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-218: Text Field mapping - Text

Description

Text within a TTI block's Text field (TF) is decoded according to the Character Code Table (CCT) in EBU Tech 3264 stored in the Bytes 12 to 13 of the GSI Header. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-219: AlphaBlack Control mode mapping

Description

A Alpha Black Control code (00h) within a TTI block's Text field (TF) is mapped to the element AlphaBlack. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-220: Alpha Red Control Code mapping

Description

An Alpha Red Control codes (01h) within a TTI block's Text field (TF) is mapped to the element AlphaRed. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-221: Alpha Green Control Code mapping

Description

An Alpha Green Control code (02h) within a TTI block's Text field (TF) is mapped to the element AlphaGreen. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-222: Alpha Yellow Control Code mapping

Description

An Alpha Yellow Control code (03h) within a TTI block's Text field (TF) is mapped to the element AlphaYellow. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-223: Alpha Blue Control Code mapping

Description

An Alpha Blue Control code (04h) within a TTI block's Text field (TF) is mapped to the element AlphaBlue. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-224: Alpha Magenta Control Code mapping

Description

An Alpha Magenta Control codes (05h) within a TTI block's Text field (TF) is mapped to the element AlphaMagenta. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-225: Alpha Cyan Control Code mapping

Description

An Alpha Cyan Control code (06h) within a TTI block's Text field (TF) is mapped to the element AlphaCyan. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-226: Alpha White Control Code mapping

Description

An Alpha White Control code (07h) within a TTI block's Text field (TF) is mapped to the elements AlphaWhite. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-227: Flash Control Code mapping

Description

A Flash Control codes (08h) within a TTI block's Text field (TF) is mapped to the element Flash. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-228: Steady Control Code mapping

Description

Steady Control codes (09h) within a TTI block's Text field (TF) is mapped to the element Steady. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-229: End Box Control Code mapping

Description

An End Box Control code (0Ah) within a TTI block's Text field (TF) is mapped to the element EndBox. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-230: Start Box Control Code mapping

Description

A Start Box Control codes (0Bh) within a TTI block's Text field (TF) is mapped to the elements StartBox. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-231: Normal Height Control Code mapping

Description

A Normal Height Control code (0Ch) within a TTI block's Text field (TF) is mapped to the element NormalHeight. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-232: Double Height Control Code mapping

Description

A Double Height Control code (0Dh) within a TTI block's Text field (TF) is mapped to the DoubleHeight element. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-233: Double Width Control Code mapping

Description

A Double Width Control code (0Eh) within a TTI block's Text field (TF) is mapped to the element DoubleWidth. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

c

requirement-234: Double Size Control Code mapping

Description

A Double Size Control code (0Fh) within a TTI block's Text field (TF) is mapped to a DoubleSize element. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

c

requirement-246: Black Background Control Code mapping

Description

A Black Background Control code (1Ch) within a TTI block's Text field (TF) is mapped to a BlackBackground elements. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-247: New Background Control Code mapping

Description

A New Background Control codes (1Dh) within a TTI block's Text field (TF) is mapped to a NewBackground element. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-250: CR/LF Control Code mapping

Description

A CR/LF Control codes (8Ah) within a TTI block's Text field (TF) is mapped to the element newline. Does not apply to TTI Blocks with User Data (EBN value 0xFE).

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

m

requirement-460: Parameter for setting the TTI block merging behaviour

Description

A parameter (-s) exists, that allows for disabling the TTI block merging of subtitles that are split into several TTI blocks. Merging these TTI blocks is the default behaviour. When the parameter "-s" is set, TTI blocks are not merged.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-461: Parameter for clearing the UDA field

Description

A parameter (-a) exists, that allows to clear the User-Defined Area (UDA) field of the GSI block. This field contains user defined data and can be used e.g. for proprietary data of subtitle editors. Keeping the UDA field content is the default behaviour.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-462: Parameter for discarding User Data TTI blocks

Description

A parameter (-u) exists, that allows to discard TTI blocks that consist of user data i.e. for which the EBN field is set to 0xFE. In such a case the Text Field (TF) contains user defined data and can be used e.g. for proprietary data of subtitle editors. Keeping such TTI blocks can lead to issues in case that data consists of a copy of the subtitle text (in a proprietary format) in addition to the original (standard compliant) subtitle text. Keeping TTI blocks as described is the default behaviour.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-463: Parameter for storing the source STL file

Description

A parameter (-b) exists, that allows to store the source STL file below the StlSource element in a Data child element, encoded as Base64. The filename of that file is stored in a Filename child element of the StlSource element. If the input is the standard input (STDIN), the filename "stdin" is used. If the parameter is not set, the default behaviour applies. In this case the source STL file will not be stored.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s

requirement-464: Parameter for overwriting the filename of the stored source STL file

Description

A parameter (-f) exists, that allows to overwrite the filename of the stored source STL file, if the parameter to store that file is used (if that parameter is not used, the parameter in question has no effect). If the parameter is not set, the default behaviour applies. In this case the original filename of the stored source STL file will not be overwritten.

Area

STL2STLXML

Requirement Review Status

accepted

Status Implementation

accepted

Priority according to MoSCoW

s