

ENVISION + INNOVATION

Standards Project Updates – NISO–STS

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- and particular apologies to
Neil Innes
(9 Dec 1944–29 Dec 2019)
and
Terry Jones
(1 Feb 1942–21 Jan 2020)

Intro – Standards for Standards

- Standards developers published independently of each other for years with little “standardization”
- **ISO STS** released as draft in October 2011
- In August 2015, NISO announced the approval of a work item for **NISO STS**
- **NISO STS** aimed to reach further, for more standards developers (SDOs), while retaining use value for NSBs



The Origins of ISO STS

- ISO Standards Publication, circa 2010
 - ISO STD Word template for authoring
 - In-house “clean-up” of STD template use
 - Word → PDF conversion
 - Word file returned to committee for next update
- No XML, HTML, EPUB, etc.
- Inefficient, slow, publication – Word is not a typesetting tool!

Goals of the ISO XML Workflow

- Improve ISO publication process
- Output in many formats: PDF, HTML or EPUB
- Create change documents (redlines)
- See: Rosenblum, B. *Standards Engineering*, Vol. 65, No. 6, November/December 2013



Creating ISO STS

- ISO engaged Mulberry Technologies
- Reviewed existing XML models for documents
 - DITA, DocBook, JATS, TEI
- JATS was selected for foundation
- Modified JATS to give STS for Standards

Why start from JATS?

- Standards and journal articles share structures
 - Sections
 - Tables
 - Figures
 - Equations
 - Bibliography
- Well-developed and well-tested model
- Easily modifiable for Standards use
- Strong third-party support

And so JATS begat ISO STS

- Based on JATS version 0.4
- Added:
 - New top-level element <standard>
 - Standards-specific metadata elements
 - iso-meta, reg-meta, nat-meta
 - TBX (ISO 30042:2008) terms and definitions model
 - Elements to cite other standards

So why do we need NISO STS?

- ISO STS has been:
 - Successful for ISO and NSBs
 - Too limited for other standards bodies
- NISO STS was intended to provide:
 - A stable standard for most standards publishers
 - Guidance to tool and conversion vendors
 - A common format for sharing metadata, full text
 - A common XML model across pubs (standards, journals)
- Lower barrier to entry for XML publication

NISO STS Working Group

- Call for participation, August 2015
- Large global interest
 - SDOs, NSBs
 - Suppliers, Vendors, Consultants
- Almost 50 members from > 30 organizations
- Too large for one group
 - Steering group
 - Technical group

NISO STS Goals

- Expand for SDO and other use beyond NSBs
- Align with JATS 1.1 and future versions
- Support additional structures
 - Indexes
 - CALS tables
- Maintain backwards compatibility for existing users of ISO STS

Let there be NISO STS!



ANSI/NISO Z39.102-2017
ISSN: 1041-5653

STS: Standards Tag Suite

Abstract: The Standards Tag Suite (STS) provides a common XML format that developers, publishers, and distributors of standards, including national standards bodies, regional and international standards bodies, and standards development organizations, can use to publish and exchange full-text content and metadata of standards. STS is based on ANSI/NISO Z39.96 (JATS). Structures are provided to encode both the normative and non-normative content of: standards, adoptions of standards, and standards-like documents that are produced by standards organizations.

An American National Standard
Developed by the
National Information Standards Organization

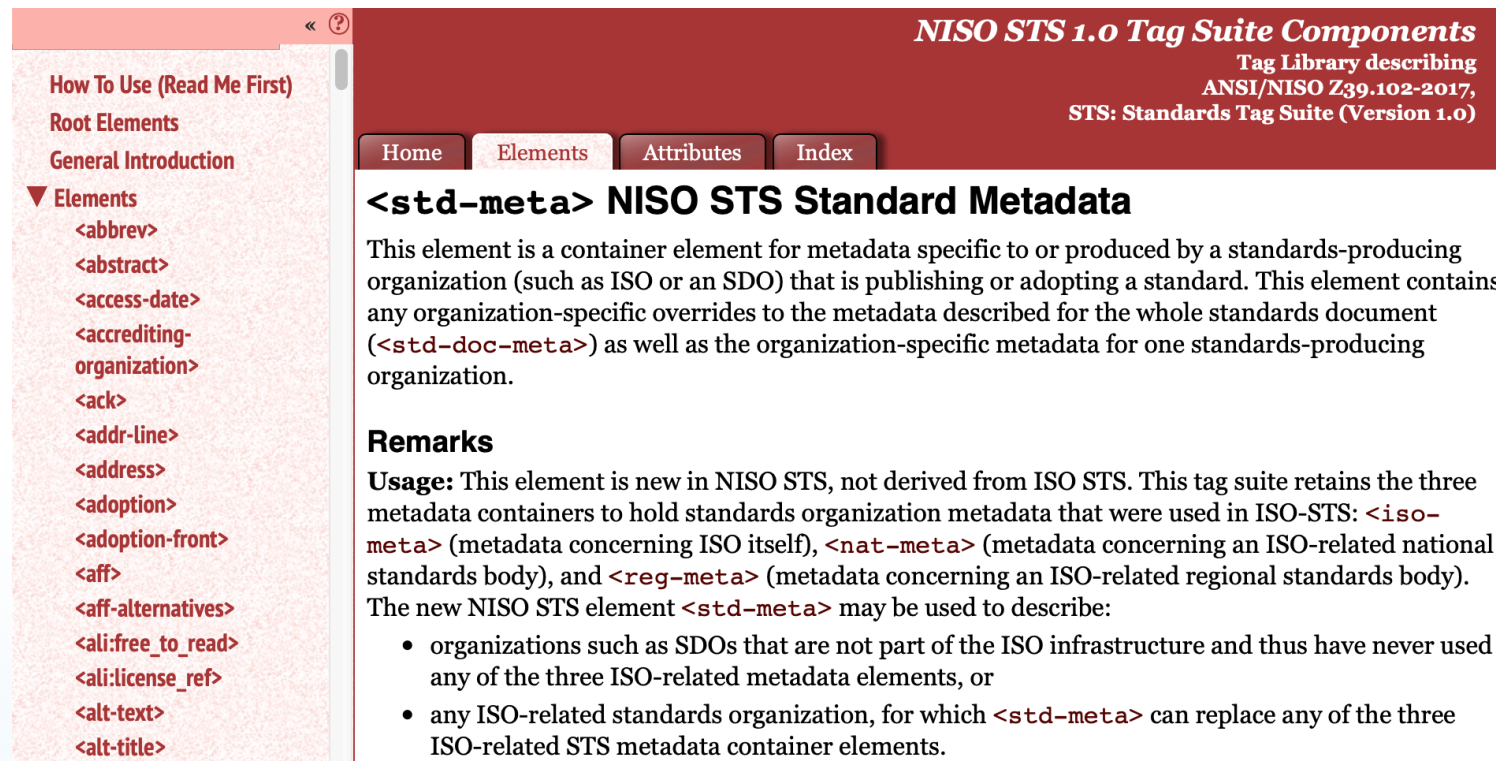
Approved: October 6, 2017
by the
American National Standards Institute

Published by the National Information Standards Organization
Baltimore, Maryland, U.S.A.

- ANSI/NISO Z39.102-2017, STS: Standards Tag Suite
- Published 6 October 2017
- Non-normative NISO STS
Supporting Materials available at <http://www.niso-sts.org/>

Documentation is available

- From <https://www.niso-sts.org/TagLibrary/niso-sts-TL-1-0-html/index.html>



NISO STS 1.0 Tag Suite Components
Tag Library describing
ANSI/NISO Z39.102-2017,
STS: Standards Tag Suite (Version 1.0)

Home Elements Attributes Index

<std-meta> NISO STS Standard Metadata

This element is a container element for metadata specific to or produced by a standards-producing organization (such as ISO or an SDO) that is publishing or adopting a standard. This element contains any organization-specific overrides to the metadata described for the whole standards document (<std-doc-meta>) as well as the organization-specific metadata for one standards-producing organization.

Remarks

Usage: This element is new in NISO STS, not derived from ISO STS. This tag suite retains the three metadata containers to hold standards organization metadata that were used in ISO-STS: <iso-meta> (metadata concerning ISO itself), <nat-meta> (metadata concerning an ISO-related national standards body), and <reg-meta> (metadata concerning an ISO-related regional standards body). The new NISO STS element <std-meta> may be used to describe:

- organizations such as SDOs that are not part of the ISO infrastructure and thus have never used any of the three ISO-related metadata elements, or
- any ISO-related standards organization, for which <std-meta> can replace any of the three ISO-related STS metadata container elements.

A work in progress

- Open to public comment at
https://groups.niso.org/apps/group_public/document.php?document_id=18492

Comments					
Showing 31 of 31 comments					
Subject	#	State	Submitter	Date	Action
Provisions/Requirements in standards	0	New	Alisdair Menzies	2020-02-18	Details
TBX	0	New	Joanna Goodwin	2020-02-18	Details
TBX	0	New	Joanna Goodwin	2020-02-18	Details
TBX	0	New	Joanna Goodwin	2020-02-18	Details

Conclusions

- ISO STS has been successful for ISO and NSBs
- NISO STS expands STS for SDO needs
- Benefits of using a standard XML model
 - Production efficiencies
 - New product opportunities
 - Easier interchange with development and distribution partners

Questions?

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