

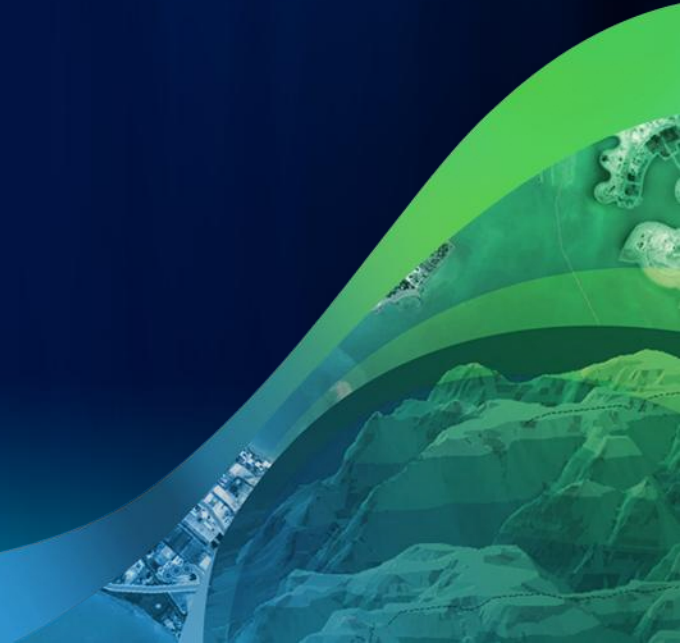


Esri International User Conference | San Diego, CA
Special Interest Group | July 13, 2011

Metadata SIG

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Agenda


- **Introductions**
- **What's happening with metadata standards**
- **ArcGIS 10 – metadata**
- **Regional, national, organizational metadata activities
- members**
- **Open discussion**

ISO Metadata standards activities

- **ISO 19115:2003 Revision**
 - ISO standards are reviewed every 5 years – vote to revise
 - Changes not major
 - Quality model moving to 19157
 - Adding Services (19119)
 - Target 2013
- **ISO/WD 19139-2 Extensions for imagery and gridded data XML schema**
 - Proposed Draft Technical Spec for review - August 2011
- **ISO 19110:2005 Amendment 1 Feature Catalogue**
 - At ISO for publication - XML Schema FC encoding
- **ISO 19110 Revision**
 - First PT meeting held 24May2011
- **ISO 19139:2007 Amendment pending - following 19115 Revision completion**
- **ISO 19157 Quality (incorporating 19113/19114/19138)**
 - UML model for Quality
 - DIS approved
- **ISO 19130:2010 Imagery sensor models for geopositioning**
 - identifies the information required to determine the relationship between the position of a remotely sensed pixel in image coordinates and its geoposition
 - Published
 - Part 2 work started – SAR, InSAR, Lidar & Sonar – Looking for experts

ISO 19115:2003 Revision

ISO 19115-1 Metadata - Fundamentals

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- **ISO 19115:2003 Metadata**
 - **ISO 19115 Corrigendum**
 - **ISO 19119:2005 Services and extensions for service metadata model (Part)**
 - **User suggestions**
 - **Lessons learned**
 - **New methods**
 - **Changes in related standards**

Revision to ISO 19115-1

- **Backward compatible***
- **Feature catalog included (physically or by link)**
- **Many new elements added or replaced (online linkage in Citation)**
- **Reference system type code attribute added to reference system identifier**
- **Responsible party restructured to enable reuse for different roles**
- **Data quality moved to ISO 19157**

*by translation

Backward compatibility - way forward

- Revision and relationship with old document and concept used for backward compatibility described in Introduction
- Annex provided showing changes and mapping between old and new elements
- No new mandatory unless it is a replacement element
- If a metadata element's definition/concept changed it was replaced (old names not used)
- Metadata element's type allowed to change without replacement
- Model refactoring – OK
 - Very minor (responsible party?)
 - Maintain element order wherever possible
- New XML namespace in new ISO 19139
- An XSLT would be provided in ISO 19139 revision
- Old ISO 19139:2007 schemas would remain in place indefinitely
- Old implementations would remain compliant to ISO 19115:2003/ISO 19139:2007
- New implementations would be compliant with ISO 19115-1:2013/ISO 19139:2013

ISO 19115-1 Schedule

Committee Draft released	2011-01
Editing committee meeting – Delft, NL	2011-5-23-26
EC document sent to ISO TC 211 members	2011-8-31
Vote in Pretoria	2011-11-18
DIS	2011-12
FDIS	2012-12
IS	2013-05

Other ISO Revision Schedules

- **ISO 19157 Data Quality**
 - Draft International Standard 2011-06
 - Final Draft International Standard 2012-06
 - International Standard 2013-01
- **ISO/TS 19139 Metadata XML schema implementation**
 - Work to generate new schema and revise the document will begin when ISO 19115-1 is technically stable

NAP ISO 19115 and 19110

- **NAP ISO 19115 Metadata**
 - Once ISO 19115-1 revision has reached DIS work will start to update the document
- **NAP ISO 19110 Feature Catalog**
 - Work is on hold until work on next version of NAP 19115 is started

Dear ESDSDW Friends and Colleagues,

I invite you submit an abstract to an AGU 2011 session devoted to ISO metadata for earth science data including satellite data.

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N03: Applications of ISO Metadata Models to Earth Science Data

Description:

The ISO/TC211 abstract standards for metadata (ISO 19115 and friends) are finding increasing usage in developing next-generation metadata models describing Earth science data. This session will highlight the experiences of implementers and users of the ISO 191xx standards for geospatial metadata, including practical demonstrations, implementation examples, and authoring tools. We seek implementation experience as it relates to describing Earth science data services, data quality, processing history and provenance, in addition to other metadata characteristics. The goal of the session is to share expertise within the informatics community on this subject including the benefits and the challenges of adopting an ISO metadata framework.

Sponsor: Earth and Space Science Informatics (IN)

Co-Sponsor(s): None

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