

Metadata Working Group Update to Coordination Group

Lorna Schmid FGDC OS December 12, 2017



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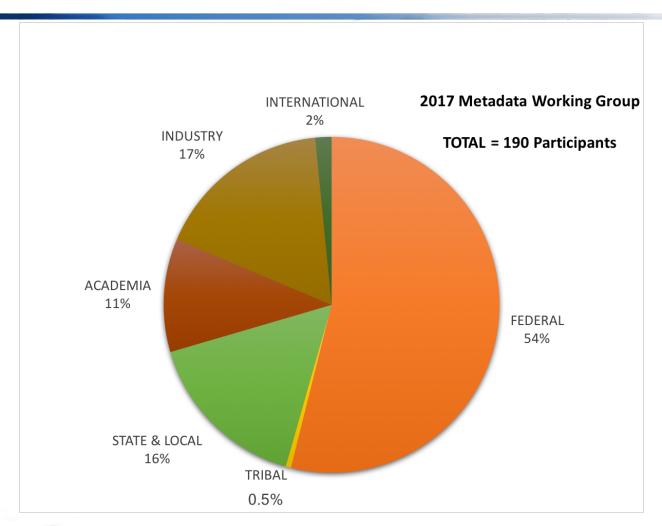
Introduction

The purpose of the Metadata Working Group is to:

- Promote awareness of and best practices for the metadata component of geospatial data
- Facilitate the coordination, development, use, sharing, and dissemination of geospatial metadata
- Supports the implementation of geospatial metadata and other related Federal, National, and International standards established organizations including
 - FGDC
 - Open Geospatial Consortium (OGC)
 - American National Standards Institute (ANSI)
 - International Organization for Standardization (ISO)



Metadata Working Group Members





https://www.fgdc.gov/organization/working-groups-subcommittees/mwg/

NGDA Themes and Datasets

The Metadata Working Group is a cross cutting team:

All NGDA Themes and Datasets are represented



Recent Meetings

The Metadata Working Group meets Quarterly

- September topics included:
 - ❖Status of ISO 191** Suite of Metadata Standards, update from Standards Working Group on proposals and endorsement of ISO standards
 - Best Practices Document Review (companion to NGDA Metadata Guidelines)
 - ❖ISO Metadata Summit Highlights, Recommendations
- Meeting outcomes include:
 - Increase understanding of status and relationships among ISO metadata standards
 - Meeting summaries and presentations available at:

http://www.fgdc.gov/participation/working-groups-subcommittees/mwg/



Recent Developments & Projects



FGDC Endorsement of INCITS/ISO Metadata Standards

Steering Committee Endorsement

- ❖19115-1:2014 Geographic information -- Metadata -- Part 1: Fundamentals
- ❖ 19157:2013 Geographic information -- Data quality standard

Proposed Endorsement by MWG and SWG: Preparing for CG

- ❖ 19115-3:2016 Geographic information -- Metadata -- Part 3: XML schema implementation for fundamental concepts
- ❖19157-2:2016 Geographic information -- Data quality -- Part
 2: XML schema implementation



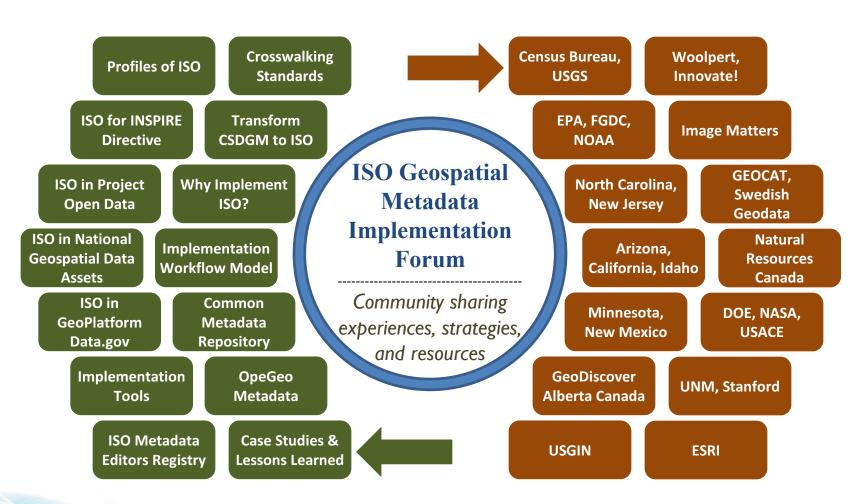
ISO Metadata Implementation Forum

- Purpose: A monthly webinar information series for the presentation and discussion of ISO metadata implementation shared experiences, strategies, topics, and resources
- Audience: FGDC Metadata Working Group & NSDI Stakeholders
- Presenters: ISO metadata implementers from all community sectors
- ❖ Schedule: Second Wednesday of the month from 3 − 4:30 ET (alternate with MWG meetings). First meeting on Jan. 11, 2017
- We're always looking for presenters!
 Please contact: Lorna Schmid (lorna@usgs.gov)



Presentation Materials & Information

ISO Forum Topics





ISO Geospatial Metadata Editors Registry

- Share information about ISO creation tools
- Supporting MWG member reviews and feedback on registered tools
- Reaching out to ISO Summit tool developers to add new tools

Feature	GeoNetwork Opensource	CatMDEdit V.5.0	Esri Geoportal Server	QSphere
ospatial Metadata Conte	ent Standards Supported			
ISO 19115:2003 - Metadata	full	full	full	partial
O 19115-2 - Gridded Imagery Extension	full	none	full	none
ISO 19110 - Feature Catalog	full	full	full	none
ISO 19119 - Services	full	full	full	none
ISO 19115-1 - Metadata Fundamentals	full	none	full	partial
Other Related Metadata Standards	View	View	View	View
ser Interface				
GUI	✓	•	✓	~
Edit XML Directly	~		✓	~
Other / Comments	View	View	View	View
perating Platform				
Desktop	~	✓		~
Distributed/Enterprise	✓		✓	
Online Application	✓		✓	
Other / Comments	View			
oprietary Nature				
Open Source (publicly available)	~	•	•	•
Source Code Available (customers only)	~	•	✓	~



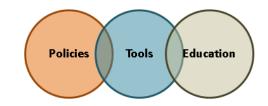
http://www.fgdc.gov/metadata/iso-metadata-editor-review-v2

Metadata Guidance & Best Practices

- Worked with Agencies GeoPlatform Team and Data.gov teams to manage documentation
- Updated NGDA Metadata Guidelines
 - Documentation best practices for incorporation of web service and data download links
- *Updated Best Practices Companion: Metadata Recommendations Supporting Data Discovery and Use in Data.gov and the Geospatial Platform
 - Supports the ISO suite of metadata standards
 - Includes guidance & best practices on
 - Metadata Content such as documenting services, collections, and the assignment of unique identifiers and Metadata publishing



ISO Geospatial Metadata Summit



More than 120 attendees ~ 40 government and non-governmental organizations

Focused on:

- Identifying and addressing implementation issues
- Developing implementation plans
- Leveraging the Geospatial Platform to implement the standard and access services
- Engaging participation in ISO metadata policies, tools and outreach
- Sustaining implementation efforts

Sharing Best Practices and

Developing Recommendations for Standards Implementation



ISO Summit Report



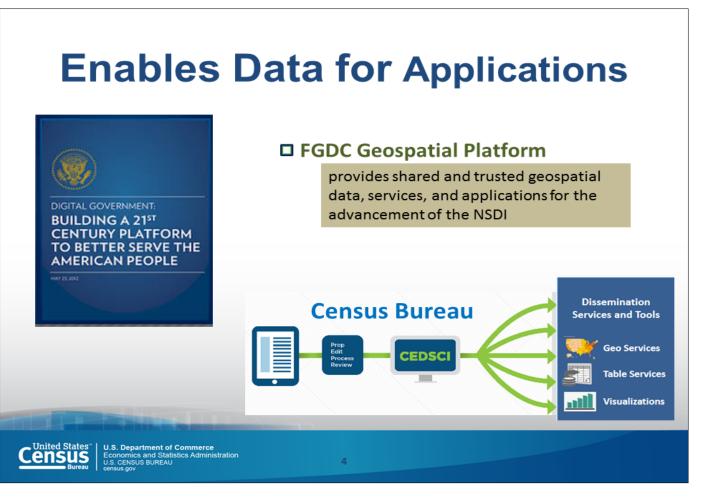
ISO Metadata Summit Day 1: ISO Tools

Tool	Create/ Validate	Assess / Enhance	Publish	Features
Geospatial Platform Object Editor	×	×	×	Enhanced documentation to link resources and validate Import and export ISO 19139 ISO 19115-1/-3 & GeoPlatform profile planned for Aug 2017
Esri Geoportal Server	ж		×	Web based metadata editor Supports multiple standards
EPA Metadata Editor (EME 5.0)	×		×	ISO 19115-1/-3 compliant Supports Project Open Data schema
NASA Metadata Management Tool	ж		×	Open source Standards agnostic
NOAA Metadata Rubric		×		Online application available to assess metadata completeness Adaptable to other resource types, e.g. services
Alaska Consortium ISO Metadata Toolkit	×		×	Open source metadata editor Transforms mdJSON to CSDGM, ISO 19115-1/-3/-2, 19110, HTML and USGS ScienceBase (sbJSON)



ISO Summit: Day 2 Understanding Current Implementation Activities & Challenges

Multiple presenters
&
Breakout Sessions
to
Document Issues and
Suggestions





Census Presentation highlighted processes, challenges, and benefits of 2012 ISO implementation for both geospatial data files and web services

Web Services and Metadata Project

Improving Access to NGDA Data via Web Services & Documentation in Metadata

- Metadata Community Embraces documentation of Web Services
- There are 176 NGDA Datasets
 - In 2016, 41 Datasets reported having a web service and
 - June 2017, this number has increased to 92 NGDA Datasets reporting with 192 web services



2017 GeoPlatform Workshop

Leveraging Mission Efficiencies for Event Driven Collaboration October 24 & 25th 2017, USGS

Jen Carlino Participated on Panel:

Metadata Transitions and Challenges
With FGDC, Esri, Image Matters and
DoD/DISDI





Next Steps: Moving Towards ISO Metadata & Building Off ISO Summit Recommendations

Policy and Planning

- Develop plan of action for transition to ISO 19115-1/-3
- Streamline reporting requirements (e.g., crosswalks)
- Support FGDC endorsement of ISO standards and profiles

Tools and Applications

- ISO Metadata Editor Registry (e.g., creation, validation)
- Consistency in content (e.g., URI's, vocabularies)
- Coordinate publishing with Data.gov and GeoPlatform.gov

Education and Outreach

- Enhance best practices for documentation of services, etc.
- Develop online "workbook" with examples
- ISO Forum and other training (e.g., email listserv)





Next Steps

- Update Documentation to incorporate information on new and retired standards, and other relevant updates
- Update Crosswalk towards ISO 19115-1 implementation
- Propose endorsement of ISO geospatial metadata standards through FGDC process including:
 - ❖ISO 19110:2016 Proposal: Geographic information -- Methodology for feature cataloguing (ISO TC 211, 2016
- Continue coordination with GeoPlatform & Data.gov teams on access and incorporation of Agency Metadata
- Continue work to improve access to Federal Geospatial Data through bigger, better, more Metadata!



Next Metadata Working Group Meeting

❖ Wednesday December 13, 2017 at 3pm ET



- Topics to be discussed:
 - Presentation: Geospatial Intelligence Standards Working Group Update on ISO 19115-1:2014 Implementation
 - Status of proposed FGDC endorsement of 2 standards
 - Request for review of new standard proposal: ISO 19110:2016 Geographic information - Methodology for feature cataloguing
 - ❖ Metadata Update from Esri



Questions?

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