Proposal for FGDC endorsement of ISO 19115-3:2016

# Introduction

This proposal provides documentation needed to obtain FGDC recognition of ISO/TS 19115-3:2016 Geographic information -- Metadata -- Part 3: XML schema implementation for fundamental concepts. The recognition level sought for this standard will be FGDC Endorsement, as described in the [FGDC Policy on Recognition of Non-Federally Authored Geographic Information Standards and Specifications](https://www.fgdc.gov/standards/standards_publications/Non-FGDC_StandardsSpecs_Policy.pdf) (November 2005)[[1]](#footnote-1).

The following information responds to the specific questions outlined per Section V.1 of the FGDC Policy and will be submitted to the FGDC Standards Working Group for consideration.

# Documentation

1. **The category of the standard or specification (per Section III).**

International Organization for Standardization (ISO) published standards – consensus-based standards developed through the ISO standards process.

1. **The proposed level of FGDC recognition (per Section IV).**

Endorsement of ISO 19115-3:2016, Geographic information -- Metadata -- Part 3: XML schema implementation for fundamental concepts.[[2]](#footnote-2)

1. **A discussion of the applicability of the proposed standard or specification in Federal geospatial activities, including discussion of the conditions where it should be employed and anywhere it should not be, i.e., provide the scope of Federal geospatial applicability of the standard or specification.**

Many Federal agencies maintain and manage geospatial data and geographic information systems (GIS) and are required to develop metadata as outlined in [Executive Order 12906](https://www.archives.gov/files/federal-register/executive-orders/pdf/12906.pdf)[[3]](#footnote-3) and [OMB Circular A-16 Revised (2002)](https://obamawhitehouse.archives.gov/omb/circulars_a016_rev/)[[4]](#footnote-4) to support the National Spatial Data Infrastructure (NSDI).

This standard complements the previously FGDC endorsed ISO 19115-1:2014 Geographic information -- Metadata -- Part 1: Fundamentals standard, which focuses on content. ISO 19115-3:2016 provides the details of how ISO 19115-1:2014 should be implemented, the rules such as the order or elements or if the elements are mandatory and/or repeatable.

1. **The specific reason(s) that the standard or specification would be of value to the Federal government and, if applicable, to other members of the FGDC. These should include, but not be limited to, identification of the specific FGDC subcommittee(s) and/or working group(s) whose members support the submission of the standard or specification and how it benefits its/their responsibilities.**

The FGDC Metadata Working Group (MWG) supports FGDC endorsement of ISO 19115-3:2016 because this furthers the MWG’s efforts to promote NSDI principles through the implementation of geospatial metadata and related semantic and structural (e.g., non-geospatial) metadata standards established by Federal, National and International Standards organizations by promoting the documentation, discovery, and reuse of geospatial data resources.

[ISO/TS 19115-3:2016, Geographic information -- Metadata -- Part 3: XML schema implementation](https://www.iso.org/standard/32579.html)[[5]](#footnote-5) facilitates the use of the most mature version of the ISO geospatial metadata standards by describing the procedure used to generate XML schema from ISO geographic information conceptual models related to metadata. It defines an integrated XML implementation of the following standards[[6]](#footnote-6):

* [ISO 19115-1:2014](https://www.iso.org/standard/53798.html)[[7]](#footnote-7), Geographic information -- Metadata -- Part 1: Fundamentals;
* [ISO 19115-2:2009](https://www.iso.org/standard/39229.html)[[8]](#footnote-8), Geographic information -- Metadata -- Part 2: Extensions for imagery and gridded data; and
* Concepts from [ISO/TS 19139:2007, Geographic information -- Metadata -- XML schema implementation](https://www.iso.org/standard/32557.html)[[9]](#footnote-9)

1. **Any restrictions, limitations, or other constraints that may affect promulgation and/or adoption and/or implementation of the standard or specification, e.g., copyright, license fees, restriction of applicability to a specific technology, and the like. The FGDC staff will negotiate with standards organizations to make an attempt to acquire free standards documents for FGDC members.**

The schema of this standard is provided for free at <http://standards.iso.org/iso/19115/-3/>.

ISO 19115-3:2016 may be purchased from ISO or ANSI. See Why Charge for Standards?[[10]](#footnote-10) from ANSI.

ISO and ANSI standards are copyrighted. Standards are works of authorship and, under U.S. and international law, are copyright protected to give the owner rights of control and remuneration that cannot be taken away without just compensation. See statement on [ISO copyright](http://www.iest.org/Bookstore/General-Terms-and-Copyright-Statement).[[11]](#footnote-11) For more information, contact:

ISO copyright office

Case postale 56

CH-1211 Geneva 20

Switzerland

Tel + 41 22 749 01 11

Fax + 41 22 749 09 47

E-mail: copyright@iso.org

Web: [www.iso.org](http://www.iso.org)

1. **The name and business addresses of a point-of-contact (POC) in the proposing or sponsoring FGDC member agency and, if applicable, the name and business addresses of a POC in the proposing non-Federal body.**

Jennifer Carlino

FGDC Metadata Coordinator

Chair, Metadata Working Group

Federal Geographic Data Committee

Core Science Systems

U.S. Geological Survey

U.S. Department of the Interior

Email: [jcarlino@usgs.gov](mailto:jcarlino@usgs.gov)

Phone: 303-202-4260

Web: [www.fgdc.gov/metadata](http://www.fgdc.gov/metadata)

1. **Identification and/or explanation of the process by which the proposed standard or specification was developed and reviewed. This information will support FGDC determination as to whether the process meets the criteria for a voluntary consensus standards process as defined in OMB Circular A-119. When accredited standards development bodies such as ISO, ANSI/INCITS, and NIST are the authors only their identity need be supplied. Otherwise, a description of the development and review process and a list of participants must be included.**

ISO/TS 19115-3:2016, Geographic information - Metadata - Part 3: XML schema implementation for fundamental concepts, was developed through the ISO standards development process.

1. <https://www.fgdc.gov/standards/standards_publications/Non-FGDC_StandardsSpecs_Policy.pdf>, accessed June 23, 2017 [↑](#footnote-ref-1)
2. Following endorsement of ISO 19115-3:2016, the FGDC will work with the member agencies to clarify which metadata standards are preferred for use. [↑](#footnote-ref-2)
3. <https://www.archives.gov/files/federal-register/executive-orders/pdf/12906.pdf>, accessed June 23, 2017 [↑](#footnote-ref-3)
4. <https://obamawhitehouse.archives.gov/omb/circulars_a016_rev/>, accessed June 23, 2017 [↑](#footnote-ref-4)
5. <https://www.iso.org/standard/32579.html>, accessed June 23, 2017 [↑](#footnote-ref-5)
6. The FGDC has endorsed these three standards. [↑](#footnote-ref-6)
7. <https://www.iso.org/standard/53798.html>, accessed June 23, 2017 [↑](#footnote-ref-7)
8. <https://www.iso.org/standard/39229.html>, accessed June 23, 2017 [↑](#footnote-ref-8)
9. <https://www.iso.org/standard/32557.html>, accessed June 23, 2017 [↑](#footnote-ref-9)
10. <https://www.ansi.org/help/charge_standards?menuid=15>, accessed August 16, 2017 [↑](#footnote-ref-10)
11. <http://www.iest.org/Bookstore/General-Terms-and-Copyright-Statement>, accessed July 14, 2017 [↑](#footnote-ref-11)