
P4002

Type of Project: New IEEE Standard
Project Request Type: Initiation / New
PAR Request Date: 15 Mar 2018
PAR Approval Date: 14 May 2018
PAR Expiration Date: 31 Dec 2024
PAR Status: Active

1.1 Project Number: P4002
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Project Title: Standard for Synthetic Aperture Radar Metadata Content

3.1 Working Group: Working Group for SAR Metadata Content Standard(GRSS/SC/SAR)

3.1.1 Contact Information for Working Group Chair:

Name: Wade Schwartzkopf
Email Address: ieee.utwade@spamgourmet.com

3.1.2 Contact Information for Working Group Vice Chair:

None

3.2 Society and Committee: IEEE Geoscience and Remote Sensing Society/Standards Committee(GRSS/SC)

3.2.1 Contact Information for Standards Committee Chair:

Name: Siri Jodha Khalsa
Email Address: sirijodha.khalsa@ieee.org

3.2.2 Contact Information for Standards Committee Vice Chair:

Name: George Percivall
Email Address: george.percivall@verizon.net

3.2.3 Contact Information for Standards Representative:

None

4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot:
Feb 2020

4.3 Projected Completion Date for Submittal to RevCom: Oct 2020

5.1 Approximate number of people expected to be actively involved in the development of this project: 12

5.2 Scope of proposed standard: The scope of this standard involves the metadata content for all airborne and spaceborne Synthetic Aperture Radar (SAR) data. This specifies the metadata content only, not the encoding of the metadata. In particular, this standard provides the means for describing the instrument, the acquisition, and operating mode(s) and parameters, as well as the processing algorithms that have been applied to the data, as well as any parameters related to those processing algorithms. It also specifies the data storage format.

5.3 Is the completion of this standard contingent upon the completion of another standard? No

5.4 Purpose: The purpose of this standard is to provide a set of standard elements that can be used to describe any known SAR dataset. These standard elements are intended to be used in any software that uses this data, enabling the software to operate with a greater variety of input data.

5.5 Need for the Project: This standard will enable the writing of standardized software that can be applied to a great variety of existing and future SAR data. This will solve the current problem where different software is required for applying the same algorithm to different SAR datasets merely because the software can only read a particular dataset format.

5.6 Stakeholders for the Standard: SAR instrument developers. SAR data providers at the various SAR processing facilities. SAR data processing software providers. SAR data users.

6.1 Intellectual Property

6.1.1 Is the Standards Committee aware of any copyright permissions needed for this project?

Yes

Explanation: The ISO standards may be used in the development of this standard, and they are copyrighted.

6.1.2 Is the Standards Committee aware of possible registration activity related to this project?

No

7.1 Are there other standards or projects with a similar scope? Yes

Explanation: The SICD, SIDD and CPHD NGA standards, as well as ISO 19159-3 (03/10/2017)

7.1.1 Standards Committee Organization: NGA

Project/Standard Number: NGA.STND.0024 - 1 _1. 1

Project/Standard Date: 30 Sep 2014

Project/Standard Title: SENSOR INDEPENDENT COMPLEX DATA (SICD)

7.2 Is it the intent to develop this document jointly with another organization? No

8.1 Additional Explanatory Notes: #7.1 There are 2 known standards for this, the NGA standard, which is complete, and the ISO standard which is still under development. #7.3 Potential for it to be adopted by OGC, but also ISO, perhaps others. Coordination with ISO is critical.