



AAtS Standards Harmonization RFI Information Webinar

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Executive Director, OGC Interoperability Program

Oct 1, 2013

Everyone but the panelists is muted

To ask a question, “raise your hand” on the webinar

Or write your question in the Questions box



Standards
▸ OGC® Standards
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Specification Profiles
Abstract Specification
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GeoDRM Reference Model
Best Practices
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AAtS Standards Harmonization Guidance Initiative

OGC Requests

Status:

Please note: Proposals must be received by OGC no later than 1700 BST 15th October 2013.

Description:

The Open Geospatial Consortium (OGC) has issued a Request for Information (RFI) to engage the aviation community in identifying standards efforts relevant to the provision of aircraft connectivity to the FAA's [System Wide Information Management \(SWIM\)](#) infrastructure.

RFI Information:

- Responses are due by 5 pm EST on 15 October 2013.
- A public Q&A webinar is scheduled for 1 October 2013 to provide the community with more information on the context and objectives behind this RFI. Register for the Webinar at <https://www4.gotomeeting.com>

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requirement
OGC Schema Repository Updates
<ul style="list-style-type: none"> • OGC Earth Observation Metadata profile of Observations and Measurements Standard Schema Posted • OGC WaterML 2.0 Implementation Standard Schema Updated • OGC GeoSPARQL 1.0 Updated to 1.0.1
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industry groups that are also pursuing the development of requirements and standards to leverage ground-based aviation related information and data networking technology to support aircraft operations. The need to understand the scope, applicability and relationship between these efforts is both critical and timely.

Staff and members of all such industry groups are encouraged to respond to this RFI and to participate and contribute information on:

- Technologies, standards and general trends relevant to AAtS
- Practical recommendations on harmonization opportunities and challenges
- Insights on how to best craft an interim path for the community and to develop a technical architecture that is forward thinking and can accommodate this emerging and evolving environment.
- Global harmonization considerations

Responses provided will guide the discussion at a community workshop, scheduled for 5-6 November 2013 in Washington DC (details to be made available at the 1 October webinar or shortly thereafter), and will be considered in the development of a report that will form the basis for harmonization guidance and recommendations.

Downloads:

[Request for Information \(RFI\) for Guidance on AAtS Standards Harmonization](#)

Agenda

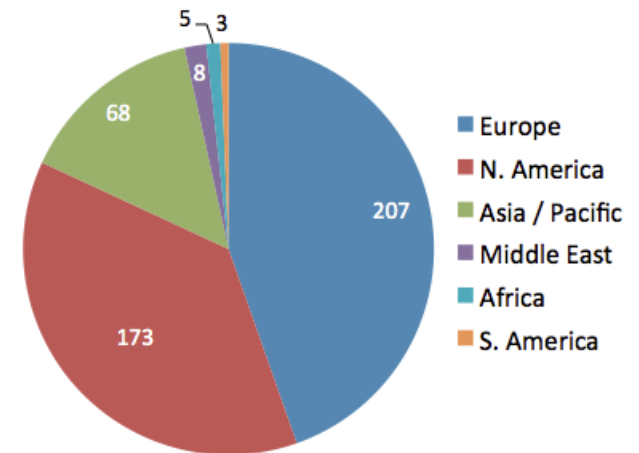
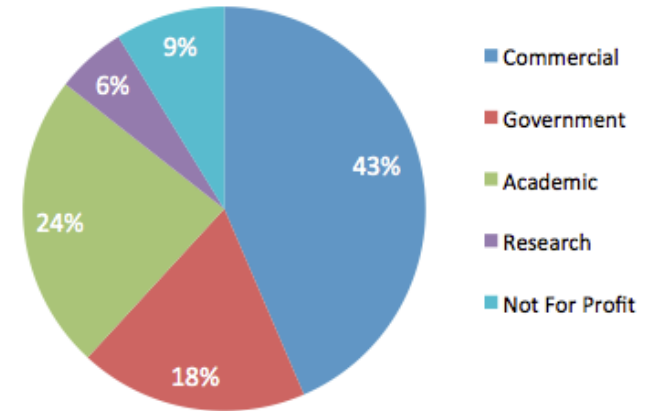


- Introduction – Nadine Alameh, OGC
- AAtS Context – Lockett Yee, North Star Group (on behalf of FAA)
- SC 206 Overview – Matt de Ris, Panasonic/SC-206 representative
- AGIE Overview – Rick Wilber, Boeing/ARINC 830/839 AGIE/MAGIC Co-Chair
- OGC Standards Overview – Johannes Echterhoff, Interactive Instruments/OGC
- Recap – Nadine Alameh, OGC
- Q&A

What is OGC?



- A Voluntary Consensus Standards Organization, founded in 1994.
- 480+ members
- 38 adopted standards
- Hundreds of product implementations
- Broad user community implementation worldwide
- Alliance partnerships with 30+ standards & professional orgs



OGC – Geospatial Standards for and by Multiple Domains



Geospatial and location standards for:

Aviation

Built Environment & 3D

Business Intelligence

Defense & Intelligence

Emergency Response &
Disaster Management

Geosciences & Environment

Government &
Spatial Data Infrastructure

Mobile Internet &
Location Services

Sensor Webs

University & Research





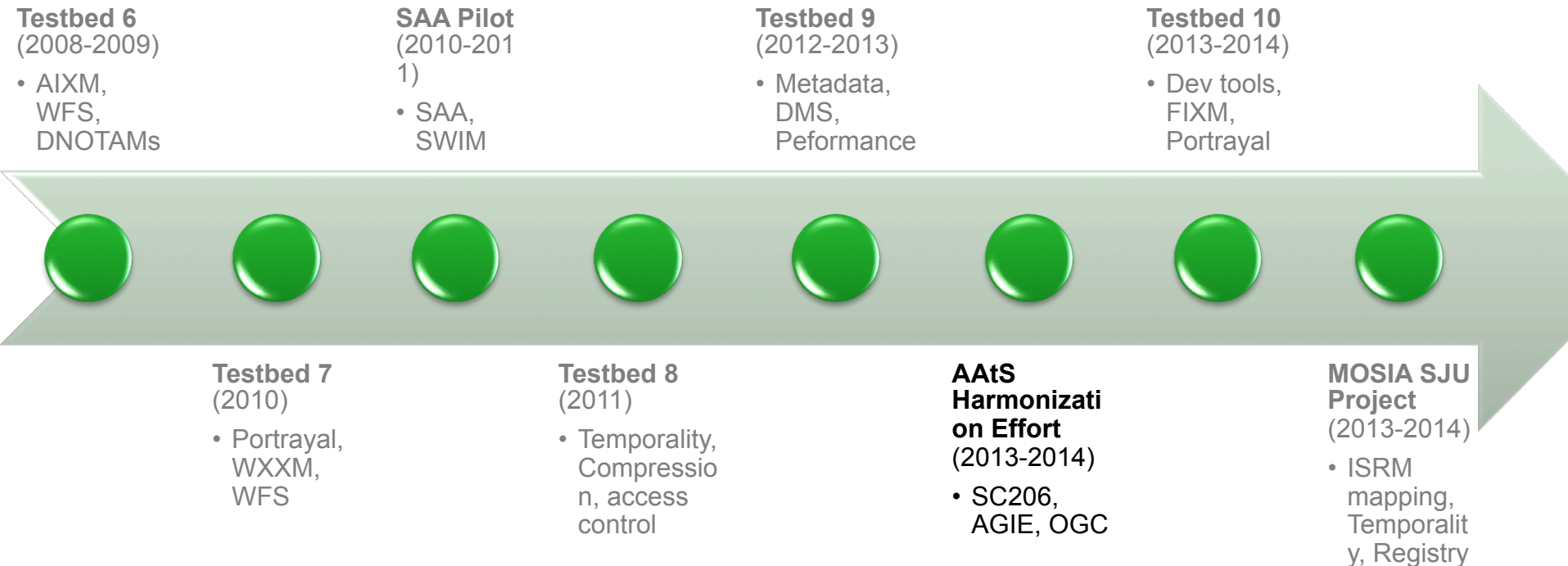
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INTEROPERABILITY PROGRAM

Advances in Multiple Technologies

- *A setting that aligns technology users and providers to work collaboratively*
- *An agile development environment to evolve, test, and validate standards under marketplace conditions*
- *An effective way to share the costs of developing well-crafted standards that provide concrete foundations for future enterprise architectures*
- *A repeatable process for building & exercising private-public partnerships to drive global trends in technology and interoperability*

A series of initiatives



This is not just about research but rather about hands-on engineering efforts to determine the ability of standards to solve real interoperability problems and assess if they're mature enough for deployment in operational environments.

Harmonization Strategy



- **Objective**

- Evaluate the industry standards applicable to AAtS air/ground information exchange
- Identify requirement similarities/gaps/integration points
- Create a framework to recommend and test a harmonized architecture to address both domestic and international interests

- **Open Geospatial Consortium (OGC) Led Team**

- Air/Ground Information Exchange/Manager of Air-Ground Interface Communications (AGIE/MAGIC)
 - Application-level information interchange standard, including protocols, functions and interfaces that enable application-to-application information exchange between aircraft and ground applications
- RTCA Special Committee (SC) 206
 - Description of AIS and MET data link services, intended to provide information for pilot decision support, collaborative decision making between ground services, flight deck, ATC, etc
- OGC
 - Discovery, access, integration, filtering, portrayal, notification of location-based information (AI, MET, Flight, terrain, etc)

Harmonization Strategy



- **Approach**

- Engage the community in the process
- Identify relevant standards, areas of overlap/gaps/conflicts/connections
- Perform a deep dive into relevant standards
- Recommend a harmonized architecture guidance
- Prototype high-priority aspects of the architecture using community-provided assets

- **Limited scope, time and funds**

- This project is NOT about harmonization of all standards across all organizations...
- The team will attempt to identify the general problem domain
 - Responses encouraged to focus on data exchange, services and applications issues per the direction of the sponsoring organization

- **Expected Outputs**

- Specific recommendations to the relevant standards group to relieve areas of confliction
- Standards community guidance for a harmonized approach
- NOT
 - Requirements, specifications or standards
 - Responsibility of the standards groups who can assess/choose how to apply and execute the recommendations

Community Input



1. Technologies, standards and general trends relevant to AAtS
2. Practical recommendations on harmonization opportunities and challenges
3. Insights on how to best craft an interim path for the community and to develop a technical architecture that is forward thinking and can accommodate this emerging and evolving environment.
4. Global harmonization considerations

Responses will guide the discussion at a community workshop, scheduled for 5-6 November 2013 in Washington DC, and will be considered in the development .

*Information about the workshop will be available at
<http://www.opengeospatial.org/standards/requests/111>*

Preliminary Schedule



Date	Milestone
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Oct 1, 2013	Information Session (via webinar)
Oct 15, 2013	RFI Due date
Nov 5-6, 2013	2-day community workshop (Wash DC)
Dec 31, 2013	Draft harmonization assessment report
Jan - May 2014	Prototyping Phase
June 2014	Final findings / report

- For more info:
 - Dr. Nadine Alameh, email: nalameh@opengeospatial.org
- More questions?
 - Email techdesk@opengeospatial.org
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