

GIS Working Group (GISWG)

Terms of Reference

December 16, 2002

Background

This initiative will develop data standards associated with geospatial procedures best practices, and calculations related to Geographic Information Systems (GIS) associated with the National Airspace System (NAS). It will then have those data elements approved as standards by the NAS Configuration Control Board (CCB) and registered in the FAA Data Registry. This Terms of Reference (ToR), or charter, establishes a working group in accordance with the NAS Data Standardization Procedures.

The topic of the GISWG is the issue relating to GIS within the NAS. Like the field of geography, the term GIS is hard to define. It represents the integration of many subject areas. A broadly accepted definition of GIS is the one provided by the National Centre of Geographic Information and Analysis:

A GIS is a system of hardware, software and procedures to facilitate the management, manipulation, analysis, modeling, representation and display of georeferenced data to solve complex problems regarding planning and management of resources (NCGIA, 1990)

The GISWG will address topics in accordance with Executive Order 12906, April 13, 1994, and with the Office of Management and Budget (OMB) Circular A-16, August 19, 2002, "Coordination of Geographic Information and Related Spatial Data Activities". In reference to these orders, the GISWG believes it can make the most contribution to the NAS by establishing standards and best practices associated with GIS within the NAS. This set of standards and best practices will ensure quality of the technology for safety and accuracy. Furthermore it will provide the basis needed for future initiatives to develop tools for interoperability of GIS technology.

Scope

The scope of this effort is to develop data standards associated with geospatial procedures, best practices, calculations, and quality assurance associated with the National Airspace System (NAS) to achieve improved interoperability. These standards and best practices will be engineered to ensure the quality, safety, and accuracy from Geospatial Information Systems (GIS) within the NAS. In accordance with direction from the Federal Geographic Data Committee (FGDC), the GISWG will not develop or propose standards that will constrain developing technologies or limit the use of new and emerging technologies.

Working Group Action Plan

The Working Group members will:

- Review standards
- Assure quality of results on geodetic calculations
- Develop proofs of accuracy for geodetic calculator
- Explore emerging technologies associated with GIS for the NAS
- Produce examples of possible standards/best practices code
- Use CDIMS: virtual discussion, and meet as necessary

Product Schedule

- ToR presented to NIAC, April 12, 2002, put to a vote, August, 2002
- Identify data standards, procedures and calculations within scope – February, 2003
- Develop standards for the identified procedures and calculations.
- Register and approve proposed standards in the FDR as each one is completed.
- Develop any other material required for NAS CCB.

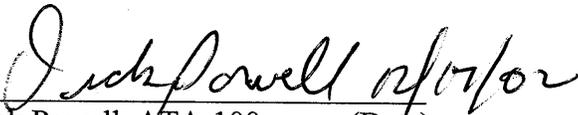
Working Group Membership

Membership of the GISWG will initially include the following active participants:

NAME	ORGANIZATION
Robert Niedermair (WG Chair)	AVN-41
Clifton Baldwin	ACB-210
Carol Brandt	BTS
Mike Cicali	ACX-42/Radian
Anona Day	AIO-5
Ted Doyle	NOAA/NGS 33
Debra French	AVN-41C1
Chuck Hedges	ASY-300
Josh Hung	ASD-120
Bob Hutchins	ASW
Richard Jordan	AIO-300
Rebecca Shumaker	AVN-41C1
Susan Vidal	NOAA/NGS
Valerie Watson	ATA-100

Other interested parties may be invited to attend the meetings and participate in the workings of the GISWG on an ad hoc basis.

Approvals


Dick Powell, ATA-100 (Date)
NIAC Co-Chair


Bennie Sanford, AUA-6 (Date)
NIAC Co-Chair


Tom Fulcher, AIO-300 (Date)
NIAC Co-Chair for AIO