

SWIM Connect 2015

*An Interagency Approach
to Information Management*

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Federal Aviation
Administration

The logo for SWIM connect 2015, featuring the text "SWIM" in a large, bold, black font, followed by "connect 2015" in a smaller, black font. To the right of the text are three blue circles of varying sizes. The entire logo is set within a white circular background that has a blue shadow effect on the right side.

SWIM
connect 2015

Agenda

Introduction

History

Program Objectives

Modeling and Simulation

- Enhanced Test Bed including high fidelity C-17 LVC

Mini Global II Participation



The Importance

- Critical tactical aviation operations occur every day – most coordinated through legacy means
- Basic level of understanding of mission and status only available to select roles
- Agencies must establish a trust paradigm to more freely share information in real time



The Approach



- Research and Engineer possible network and information sharing architectures that are compliant with FedGov policies and champion interoperability
- Develop security requirements and potential implementations that meet homeland security data protection standards and establish trust models
- Preserve enterprise specific requirements while providing a common exchange solution



CIM Mission:

- Foster interagency communication and collaboration through research and analysis.
- Bring innovation in information management to the FAA and partner agencies
- Leverage modern technologies and operational procedures



History

Network Enabled Operations

- Interagency information sharing and interoperability with an aviation focus

NEO Spiral 0 (2005)

- Proof of concept demo

NEO Spiral I (2007-2008)

- Operational vignettes and experiments
- Joint Government-Industry Team

- NEO Spiral I+ (2009)

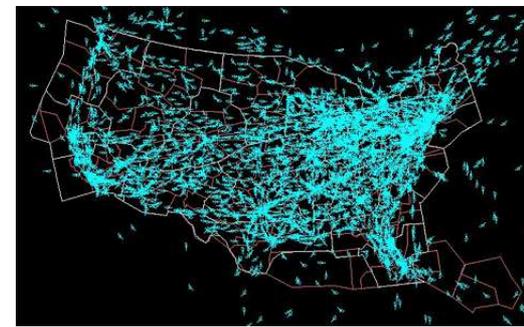
- NEO Spiral II (2010-2012)

Collaborative Information Management (2013-15)

- Secure interagency Flight Objects publication with FIXM in FAA MiniGlobal environment



Objectives



Address information management shortfalls in the National Airspace System (NAS)

- Focus on inter-agency information exchange
- Promote International data exchange

Perform surveys, studies and analyses

- *DoD Air-to-ground Data Link Strategy*
- *Inter-Agency Data Link Information Sharing Use Cases*

Evaluate capability to use existing DoD infrastructure to securely and efficiently transfer FAA flight data

- Create an infrastructure for completing FAA↔DoD research
- Provide a more complete view of the NAS to the DoD
- Exchange valuable data that are not currently being shared between the two agencies

Provide recommendations to FAA and other government agency that will inform potential implementation

Mini Global II Participation

CIM's joint demonstration with Mini-Global II

- Realistic end-to-end authentication as a result of leveraging existing FAA infrastructure
- DoD flight information will leverage the FAA infrastructure as a security proxy for on-ramping into the Mini-Global environment
- Greater integration with Mini-Global environment offers producers of data greater ways of governance and control
- *Supports a key theme of MG II: Security*



