

**Figure 2: NextGen Transformational Program Deliverables
(FY09-FY13)**

FY 2009

Automatic Dependents Surveillance – Broadcast (ADS-B)

- Louisville Service Acceptance Test (SAT)
- Gulf of Mexico SAT
- Philadelphia SAT
- Gulf of Mexico VHF Voice Communications Initial Operating Capability

Data Communications (Data Comm)

- Draft and begin validation of standards for avionics required for Data Comm operations
- Conduct human factors and operations research to develop concept of use for Data Comm

National Airspace System (NAS) Network Enabled Weather (NNEW):

- Demonstration of interagency Net-Enabled data sharing/interoperability
- Finalize Version 2 of the Data and Service Standards for IOC products for the 4-D Weather Data Cube

NAS Voice Switch Activities (NVS):

- Finalize initial requirements document
- NVS draft Specification
- Draft NVS functional architecture
- Legacy case cost analysis

System Wide Information Management (SWIM):

- Standards/guidance to SWIM implementing programs on SWIM Segment 1 core capabilities
- Service container software to implementing programs
- Code and test of initial Segment 1 capabilities
- Conduct analyses and prepare documentation for Final Investment Decision for Segment 2

FY 2010

ADS-B

- Juneau SAT
- Louisville Initial Operating Capability (IOC) of Surveillance Services
- Gulf of Mexico IOC for Surveillance Services
- Philadelphia IOC of Surveillance Services
- Juneau IOC of Surveillance Services
- Final Rule Published
- Critical Surveillance Services In-Service Decision for ADS-B
- Complete installation of 340 (of 794 total) ground stations

Data Comm

- Screening Information Request (SIR) release for Data Comm Network Service provider acquisition

NNEW

- Data and service standards products that will be used at IOC for the 4-D Weather Data Cube will be mature
- Demonstration of limited 4-D Weather Data Cube functionality including fault tolerance and federation of the registry/repository

NVS

- Initial Investment Decision

SWIM:

- Final requirements specification for Segment 2
- Final Investment Analysis for Segment 2 capabilities
- System integration and test for Aeronautical Information Management (AIM) portion of Special Use Airspace Automated Data Exchange capability
- Code and test for Integrated Terminal Weather System (ITWS) Data Publication
- Design and prototype for Pilot Report (PIREP) Data Publication
- Code for Initial Flight Data Services
- Requirements analysis for additional Traffic Flow Management (TFM) capabilities
- Requirements definition and prototyping for Terminal Data Distribution System (TDDS)

FY 2011

Data Comm

- Final Investment Decision for Data Comm Network Service provider acquisition
- Contract award for Data Comm Network Service provider acquisition

NNEW:

- Service adapters for selected legacy FAA systems
- Architecture for the 4-D Weather Data Cube

NVS:

- Screening Information Request (SIR) released
- Final Investment Decision
- Contract award

SWIM:

- TFM initial flow object prototype
- ITWS integration and test
- TDDS design
- SWIM Segment 1 capability deployment – Corridor Integrated Weather System (CIWS)

FY 2012

Data Comm

- Final Investment Decision for En Route automation enhancements acquisition
- Task order for En Route automation enhancements acquisition awarded

NNEW:

- Installation of initial set of hardware and software for FAA's portion of 4-D Weather Data Cube
- Demonstration of full IOC system in preparation for Operational Test & Evaluation (OT&E)

NVS:

- Switch Development/Modification initiated

SWIM:

- SWIM Segment 1 capability deployment – Weather Message Switching Center Replacement (WMSCR)
- TDDS deployment

FY 2013

ADS-B

- Installation completed at all remaining ground stations as well as NAS-wide Deployment of Essential and Critical services

Data Comm

- Training and operations policies developed to support use of Data Comm

NNEW:

- FAA-National Oceanic and Atmospheric Administration (NOAA) 4-D Weather Data Cube OT&E
- Weather Data Cube IOC

NVS:

- Initial system deployment at selected Key site(s)
- System testing initiation

SWIM:

- SWIM Segment 1 capability deployment - AIM, En Route Automation Modernization (ERAM), TDDS