

Service Road Map Legend

FY 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025

ATC-Separation Assurance / Separation Management

TM-Synchronization / Trajectory Management

TM-Strategic Flow / Flow Contingency Management (Strategic Flow)

Airspace Management / Capacity Management (Airspace)

ATC-Advisory & Flight Planning, Emergency and Alerting, Infrastructure-Information Management / Flight and State Data Management

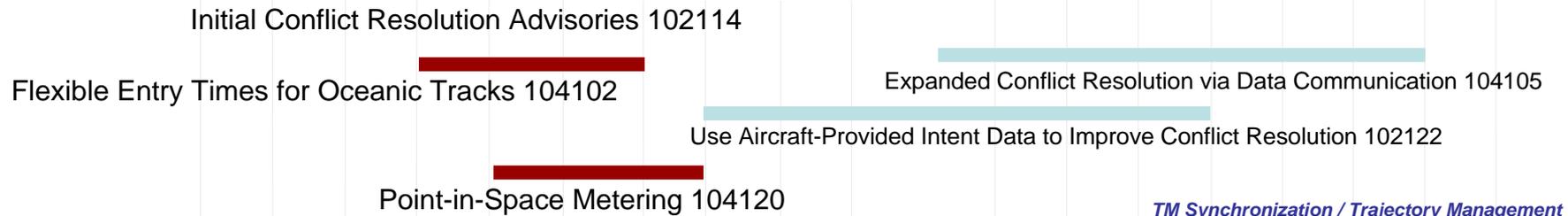
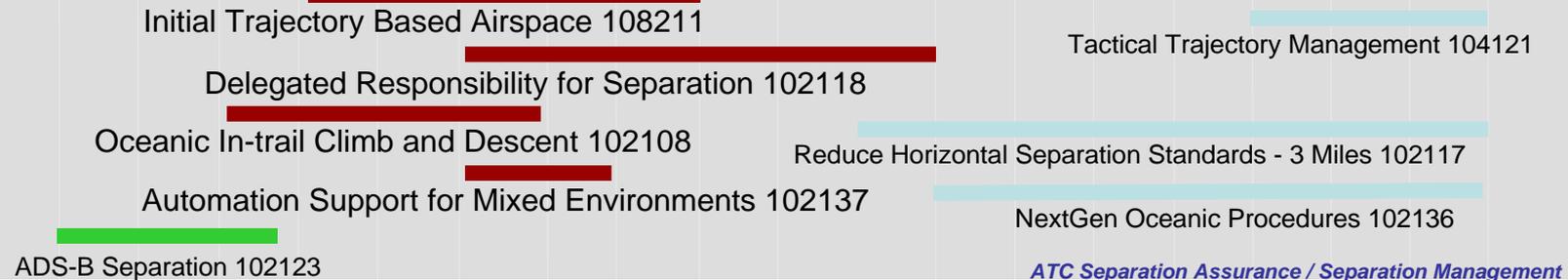
Key

•NAS EA Service / NIP Function

-  •Near-Term Commitment
•2008-2012
-  •MidTerm Capability
•2012 -2018
-  •Far Term Capability
-  •In the FAA EA; Not in the NAS EA
- (Initial Operating Capability targeted within the box)

Initiate Trajectory-Based Operations

FY 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025



TM Strategic Flow / Flow Contingency Management (Strategic Flow)



Provide Interactive Flight Planning from Anywhere 101103

ATC-Advisory & Flight Planning, Emergency and Alerting, Infrastructure-Information Management / Flight and State Data Management

Increase Arrivals/Departures at High Density Airports

FY 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025

Delegated Responsibility for Horizontal Separation 102118

Improved Operations to Closely Spaced Parallel Runways 102141

ATC-Separation Assurance / Separation Management

Initial Surface Traffic Management 104209

Wake Vortex Incorporated into Flow 102142

Time Based Metering Using RNAV and RNP Route Assignments 104123

Optimize Runway Assignments 104117

Use Data Messaging To Provide Flow and Taxi Assignments 104208

Full Surface Traffic Management with Conformance Monitoring 104206

Use Aircraft-Provided Intent Data to Improve Flow and Conflict Resolution 102139

TM-Synchronization / Trajectory Management

TM Strategic Flow / Flow Contingency Management (Strategic Flow)

Integrated Arrival/Departure Airspace Management 104122

Airspace Management / Capacity Management (Airspace)

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Increase Flexibility in the Terminal Environment

FY

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Wake Turbulence Mitigation for Departures (WTMD): Wind-Based Wake Procedures 102140

Ground Based Augmentation System (GBAS) Precision Approaches 107107

Provide Surface Situation to Pilots, Service Providers and Vehicle Operators for All Weather Operations 102409

ADS-B Services to Secondary Airports 102138

ATC-Separation Assurance / Separation Management

Use Optimized Profile Descent 104124

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Expanded Traffic Advisory Services Using Digital Traffic Data 103206

Provide Full Surface Situation Information 102406

Enhanced Surface Traffic Operations 104207

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Improve Collaborative ATM

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Continuous Flight Day Evaluation 105302

Traffic Management Initiatives with Flight Specific Trajectories 105208

Full Collaborative Decision Making 105207

TM-Strategic Flow / Flow Contingency Management (Strategic Flow)

Improved Management of Airspace for Special Use 108212

Manage Airspace to Flow 108207

Manage Airspace as Trajectories 102302

Airspace Management / Capacity Management (Airspace)

Trajectory Flight Data Management 101202

Provide Full Flight Plan Constraint Evaluation with Feedback 101102

On-Demand NAS Information 103305

ATC-Advisory & Flight Planning, Emergency and Alerting, Infrastructure-Information Management / Flight and State Data Management

Reduce Weather Impact

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ATC Separation Assurance / Separation Management

Trajectory-Based Weather Impact Evaluation 103119

Automatic Hazardous Weather Alert Notification 103117

TM Synchronization / Trajectory Management

Full Operational Weather Capability 103121

TM Strategic Flow / Flow Contingency Management (Strategic Flow)

Airspace Management / Capacity Management (Airspace)

Turbulence and Icing Available on Meteorological Data
Collection and Reporting System (MDCRS) 103116

Near-real Time Dissemination of Weather
Information to all Ground and Air Users 103120

Deploy FIS-B Nationally 103104

Wake Vortex Transport Prediction 103118

*ATC-Advisory & Flight Planning, Emergency and Alerting, Infrastructure-
Information Management / Flight and State Data Management*

Increase Safety, Security, and Environmental Performance

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Airspace Management / Capacity Management (Airspace)

Enhance Emergency Alerting 106202

ATC-Advisory & Flight Planning, Emergency and Alerting, Infrastructure-Information Management / Flight and State Data Management

Safety



Increase Safety, Security, and Environmental Performance

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Operational Security Capability for Threat Detection and Tracking, NAS Impact
Analysis and Risk-Based Assessment 109302

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Security


SSA and Information System Security Integrated Incident Detection and Response


Information on System Security and Surveillance Integration / Protection


Full Integrated Surveillance and Information SSA Operational Security

Increase Safety, Security, and Environmental Performance

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Environment

Integrated Models Assess Trade-offs Between Environment and Capacity

Establish Metrics and Formulate Policy

National EMS Supports Integrated Environmental Performance

NGATS Operational Initiatives Implemented that Reduce Environmental Impacts

Transform Facilities

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TM Strategic Flow / Flow Contingency Management (Strategic Flow)

NAS Wide Sector Demand Prediction and Resource Planning 105104

Airspace Management / Capacity Management (Airspace)

Integrated, Development and Operations Analysis Capability

NextGen Facilities 109403

Net-Centric Virtual Facility 109402

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