Acquisition Management Policy - (7/2016)

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2.3 Service Analysis and Strategic Planning Revised 4/2013

Service analysis and strategic planning determines what capabilities must be in place now and in the future to meet agency goals and the service needs of customers. Results are captured in the "as is" and "to be" states of the enterprise architecture, as well as the roadmaps for moving from the current to the future state. Results are also captured in line-of-business business plans and service organization operating plans, which specify how each will manage its RE&D, F&E, and OPS resources over time. These plans integrate new investment initiatives with the operation and support of fielded assets and other necessary actions to optimize service delivery. Continuing analysis keeps planning current with changes in the service and operational environment.

Industry best practices (e.g., technology and service demand forecasting, portfolio management, customer surveys) are employed during service analysis to align service outcomes with actions and activities necessary and sufficient to realize benefits for the FAA and its customers. Service analysis may lead to the refocus, reduction, or elimination of ongoing investment programs, and may identify new and more productive ways of doing business. It may also identify alternative paths for achieving service goals in a dynamic environment, and may identify opportunities for improving FAA strategic planning when the service environment evolves in ways not anticipated. Some investment opportunities may require research and development to demonstrate operational concepts, reduce risk, or define requirements before proceeding further in the lifecycle management process.

2.3.1 What Must Be Done Revised 10/2015

Figure 2.3-1-1 portrays the key activities of service analysis and strategic planning. These activities develop the information necessary for determining which service shortfalls or new ideas for improving service delivery are approved for inclusion in agency strategic planning documents. When a service shortfall impacts the National Airspace System, it enters the NAS ConOps change development and decomposition process (see Figure 2.3.1-2) to determine how it fits within the National Airspace System.

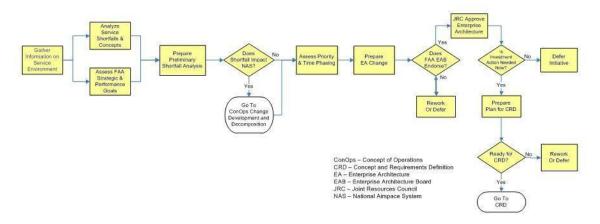


Figure 2.3-1-1 Key Activities of Service Analysis and Strategic Planning

Gather Information on the Service Environment. Service organizations analyze forecasts for aviation service needs and stay abreast of opportunities for improving

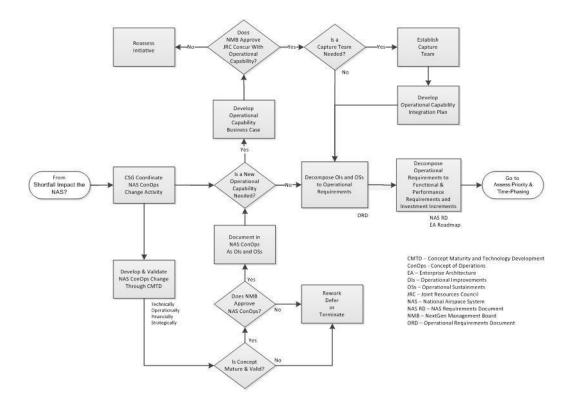
	service delivery as a basis for determining and prioritizing service needs and
	shortfalls. A continuing dialog with and feedback from customers (e.g., commercial
	air carriers, general aviation, air transport industry, state and local airport
	authorities) and users (air traffic and technical operations) are crucial, as is the
	supportability and operational outlook for fielded assets.
	Analyze Service Shortfalls and Concepts. Lines of business use service environment
	performance information to identify shortfalls and ideas for improving service delivery
	within their domain. Aviation research by NASA and other industry and government
	organizations may also identify emerging service shortfalls or technological opportunities
	for improving service delivery. This activity identifies business, technology,
	organizational, process, and personnel issues that affect service outcomes, as well as
	assumptions, risks, and dependencies.
	Assess FAA Strategic and Performance Goals. Service shortfalls or new ideas for
	improving service delivery should support current services or fulfillment of FAA strategic
	and performance goals. When they do not, the shortfall or new idea must be shown to have
	sufficient merit to warrant inclusion in agency strategic planning documents. Agency
	strategic plans and performance goals may also define service shortfalls that must be
	addressed in lower-level agency planning.
	Prepare Preliminary Shortfall Analysis. The service organization analyzes the shortfall
	or new idea as a foundation for understanding the problem and its urgency and impact. The
	shortfall is the difference between future service need and current capability. A service
	shortfall is usually addressed by a sustainment action for existing assets or a new service
	delivery idea including cloud services for predicted gaps. A new idea or concept should
	deliver existing services more efficiently or provide new services of value to the FAA and
	aviation industry. At this stage, the service shortfall is expressed as levels of service
	improvement, not by specific performance values.
	Does Shortfall Impact the National Airspace System? A new service need or shortfall
	that impacts the National Airspace System is assessed by means of the NAS ConOps
	Change Development and Decomposition Process (see Figure 2.3.1-2) to determine
	whether or how the NAS ConOps should be changed. Once NAS needs or shortfalls have
	been appropriately included in the NAS ConOps as operational improvements or
	sustainments, they move forward with non-NAS shortfalls to determine how they should
	be integrated within the FAA enterprise architecture.
Ш	Assess Priority and Time-phasing. A new service shortfall or need must be shown to
	have sufficient merit to warrant inclusion in the enterprise architecture when evaluated
	against other service needs of the agency. The line of business works with the Technical
	Review Board (NAS) or the Architecture Review Board (non-NAS) and other lines of
	business to determine how a new service need, technology refresh, or sustainment activity
	should be planned, time-phased, and integrated within the architecture relative to all other
	agency service needs. This activity may require rework of existing shortfalls and
	improvements already in the architecture.
	Prepare Enterprise Architecture Change. The service organization prepares change
	documents reflecting the service need or shortfall and submits them to the FAA
	Enterprise Architecture Board for endorsement. NAS service needs and shortfalls are
	expressed as operational improvements and operational sustainments. Page FAA Enterprise Ambitacture Reard Endorse the Change? The FAA Enterprise
	Does FAA Enterprise Architecture Board Endorse the Change? The FAA Enterprise
	Architecture Board determines whether and how to integrate new service needs within the
	enterprise architecture and its roadmaps. In making this determination, the board analyzes

criteria as contribution to agency strategic goals, monetary or performance benefits, compatibility with the enterprise architecture, risk, and political sensitivity. The decision to endorse and place a new service need, improvement, or sustainment within the enterprise architecture validates that this service need is an agency priority and warrants further action. ☐ Joint Resources Council Approves the Enterprise Architecture. The Joint Resources Council approves the FAA Enterprise Architecture annually. No service need can proceed further in the AMS lifecycle management process unless it is in the enterprise architecture approved by the JRC. Emergency needs not contained in the JRC-approved architecture may be presented to the FAA Enterprise Architecture Board by exception. **Rework or Defer.** Service needs, shortfalls, improvements, and sustainments not approved for inclusion in the enterprise architecture are reworked or deferred according to the direction of the FAA Enterprise Architecture Board or Joint Resources Council, as appropriate. ☐ **Is Investment Action Needed Now?** The investment increment enters concept and requirements definition at the appropriate time as determined by its time-phasing in the appropriate enterprise architecture roadmap. □ **Defer Initiative.** Investment action is deferred when action is not needed now to meet agency plans and schedules. ☐ Prepare Plan for Concept and Requirements Definition. NAS Systems Engineering Services (NAS) or Office of Information & Technology, Strategy & Performance Service, EA Division (non-NAS) works with the implementing and operating service organizations to prepare a plan for concept and requirements definition. This plan (1) specifies how tasks will be accomplished; (2) defines roles and responsibilities of participating organizations; (3) defines outputs and exit criteria; (4) establishes a schedule for completion; and (5) specifies needed resources. By signing the plan for concept and requirements definition, organizations that will do the work agree to provide the necessary resources. ☐ **Ready for Concept and Requirements Definition?** The FAA Enterprise Architecture Board makes the decision to enter concept and requirements definition or directs other Rework or Defer. The investment initiative is reworked or deferred when planning or organizational support is not sufficient to enter concept and requirements definition.

and assesses the new service need against all other service needs of the FAA using such

Figure 2.3.1-2 NAS ConOps Change Development and Decomposition Process

(Applies to the NAS only)



- Concept Steering Group Coordinates NAS ConOps Change Activity. The Concept Steering Group reviews the preliminary shortfall analysis to determine whether the service shortfall or new idea is addressed in the NAS ConOps. New shortfalls or ideas that are already within the scope of the NAS ConOps move to decomposition into operational requirements and investment initiatives after determining whether they should be incorporated into a new or existing operational capability. For shortfalls and ideas not addressed in the NAS ConOps, the Concept Steering Group coordinates discussion with the sponsor and the lines of business to determine what development or validation activity is needed.
- Develop and Validate NAS ConOps Change Through Concept Maturity and Technology Development. New ideas for improving NAS service or eliminating a shortfall must be validated to be technically and financially feasible, strategically aligned with agency goals and objectives, and have significant operational benefit to warrant inclusion in the NAS ConOps. The Concept Steering Group coordinates activity to develop and validate new ideas and concepts. Typically, the concept maturity and technology development process is applied to the point where technical risk is sufficiently low and potential benefits sufficiently high to justify inclusion. This activity includes safety and security assessments to identify and characterize any safety hazards and information security factors associated with the idea or concept.
- □ **Is Concept Mature and Valid?** The NAS ConOps is a stable document that evolves over time. Only the best high-value new concepts and ideas are added. The Concept Steering Group assesses development and validation results and records their findings and recommendations in a memorandum to the NextGen Management Board, which approves all changes to the NAS ConOps.
- □ **Does NextGen Management Board Approve NAS CONOPS?** The NextGen Management Board approves changes to the NAS ConOps. Changes are presented to the

Joint Resources Council. Any JRC concerns or issues are resolved to ensure approved concepts are beneficial <i>and</i> affordable and supported by both management bodies.
Document Changes in NAS ConOps as Operational Improvements or Sustainments.
Service shortfalls and new concepts are documented in the NAS ConOps as operational
improvements and operational sustainments.
Is a New Operational Capability Needed? Grouping and managing operational
improvements and sustainments with a high degree of interdependency may result in a
high-value operational capability for the agency and aviation community. In such cases,
one or more operational improvements will be organized and managed as a portfolio to
ensure all essential elements of the operational capability are obtained and deployed.
Develop Operational Capability Business Case. Advanced Concepts and Technology
Development works with the ATO Program Management Office and Investment Planning
& Analysis to develop a business case for the operational capability. The business case
contains a rough estimate of the costs and benefits associated with developing and
deploying the operational sustainments and improvements necessary to enable the
operational capability. The PMO coordinates with ATO service organizations
to derive rough cost estimates for the work required to develop and deploy the investment
increments necessary to achieve the operational capability. These same organizations derive a rough monetized estimate of benefits that will accrue to the FAA and aviation
community when the operational capability is fully deployed. A preliminary assessment of
risk, priority, affordability, and political sensitivity complete the business case.
Does NMB Approve and JRC Concur With the Operational Capability? The
NextGen Management Board decides whether to approve and establish the operational
capability. The decision is based on the business case, contribution to agency strategic and
performance goals, and affordability. The operational capability is implemented through
its constituent investment increments approved and baselined individually by the Joint
Resources Council. Obtaining these capabilities may require establishment of a capture
team to integrate and coordinate activity by multiple program offices or service
organizations providing the investment increments necessary to achieve the overall
operational capability. By concurring with the NextGen Management Board decision, the
Joint Resources Council acknowledges the operational capability and its constituent
investment increments are agency priorities. The business case for the operational
capability is a determining factor at future investment decisions for increments necessary
to achieve the operational capability.
Reassess Initiative. If the NextGen Management Board does not approve the operational
capability, it may terminate the effort or recommend other activity to amend the concept of reduce risk. Any issues or concerns of the Joint Resources Council must be resolved
before the operational capability is implemented.
Is a Capture Team Needed? The NextGen Management Board decides whether to
establish a capture team to coordinate the development, integration, and deployment of
investment increments necessary to achieve an operational capability. In making this
decision, the board evaluates the complexity and risk associated with the operational
capability and the availability of resources. The capture team brings together cross-
agency empowered representatives from each organization that must develop and deploy
an investment increment to achieve the operational capability. The objective is informed,
integrated, and coordinated decision-making by all parties.
Establish Capture Team. Each line of business that must contribute to achieve the
operational capability provides an empowered representative to the capture team. The

	capture team monitors development, integration, and deployment of all elements of the
	operational capability, as well as plan and oversee a post-implementation evaluation to
	confirm that forecast benefits are being achieved or to define and implement corrective
	action when they are not.
	Develop Operational Capability Integration Plan. The team works with the portfolio
	manager to develop an Operational Capability Integration Plan (OCIP) that specifies
	responsibilities and agreements among all team members and organizations. The OCIP
	also defines the lifecycle plan, performance goals and measures, and operational benefits
	that will accrue from implementation of the operational capability.
	Decompose Operational Improvements and Operational Sustainments to Operational
	Requirements. A cross-organizational team with members from all lines of business and
	led by Advanced Concepts and Technology Development decomposes the NAS ConOps
	narrative of operational improvements and operational sustainments into NAS operational
	requirements. These requirements are recorded in the NAS Operational Requirements
	Document.
	Decompose Operational Requirements to Functional and Performance
	Requirements and Investment Increments. A cross-organizational team decomposes
	NAS operational requirements to NAS functional and performance requirements. These
	requirements are specified with sufficient detail for allocation to investment increments
	that will be undertaken to achieve the operational improvements and sustainments in the
	NAS ConOps. The goal is clear and unambiguous traceability of requirements from the
	NAS ConOps to the NAS Operational Requirements Document to the NAS Requirements
	Document and then to the program requirements document of specific investment
	increments. Each investment increment enters concept and requirements definition at the
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Capture team;
Operational Capability Integration Plan;
Updates to the NAS Operational Requirements Document; and
Updates to the NAS Requirements Document.

Key work products are verified and validated according to the FAA AMS Verification and Validation Guidelines before the CRD readiness decision.

2.3.3 Who Does It? Revised 4/2013

2.3.3.1 Service Analysis and Strategic Planning Revised 1/2015

Organization(s)	Responsibilities
Service organizations	☐ Conduct service analysis
	☐ Prepare preliminary shortfall analysis reports
	☐ Prepare EA change notices, products, and amendments
Advanced Concepts and	☐ Assists NAS service organizations when preparing service
Technology	analysis outputs and products
Development Office	
(ANG-C), NextGen	
Lifecycle Integration	
Office (ANG-D)	
Office of Information &	☐ Assists non-NAS service organizations when preparing
Technology, Strategy &	service analysis outputs and products
Performance Service, EA	
Division (non-NAS)	
Lines of Business	☐ Prioritize LOB service shortfalls and new ideas
	☐ Determine whether a service shortfall impacts the National
	Airspace System
	☐ Work with the Technical Review Board to time-phase
	operational improvements and operational sustainments in the
	NAS architecture roadmaps
Technical Review Board	☐ Works with the lines of business to time-phase operational
	improvements and operational sustainments in the NAS
	architecture roadmap
Architecture Review	☐ Works with the lines of business to prioritize non-NAS
Board	service shortfalls and needs
FAA Enterprise	☐ Manages the FAA Enterprise Architecture
Architecture Board	

2.3.3.2 NAS ConOps Change Development and Decomposition Revised 4/2013

Organization(s)	Responsibilities
Service organization with	☐ Develop information needed to assess impact of
shortfall/concept,	shortfall/concept on the NAS ConOps
Advanced Concepts and	_
Technology	

Development Office	
(ANG-C), NextGen	
Lifecycle Integration	
Office (ANG-D)	
Service organization with	☐ Develop and validate shortfalls and new concepts
shortfall/concept,	technically, operationally, strategically, and financially
Advanced Concepts and	
Technology	
Development Office	
(ANG-C), Investment	
Analysis and Planning	
(IP&A)	
Advanced Concepts and	☐ Present shortfall/concept to the NextGen Management Board
Technology	for inclusion in the NAS ConOps
Development Office	1
(ANG-C), CSG, service	
organization with	
shortfall/concept	
NAS Systems	☐ Document shortfall as operational improvements or
Engineering Services	sustainments in the NAS ConOps
Office (ANG-B),	sustainments in the 1446 conops
Advanced Concepts and	
Technology	
Development Office	
(ANG-C), NextGen	
Lifecycle Integration	
Office (ANG-D)	
ANG-B/C/D, PMO/LOB	☐ Determine need for new operational capability
ANG-C, ANG-5,	☐ Develop operational capability business case
PMO/LOB, IP&A	☐ IP&A reviews the business case for the Joint Resources
	Council
ANG-C, ANG-5,	☐ Contribute to and participate in the decision to create a new
PMO/LOB	operational capability
ANG-C/D, PMO/LOB	☐ Determine the need for a capture team to plan and oversee a
	new operational capability
ANG-C/D, PMO/LOB,	☐ Contribute to and establish a capture team
operating organization	
ANG-C, AJV-7, LOBs,	☐ Decompose operational improvements and sustainments in
service organizations	the NAS ConOps into operational requirements and
_	investment increments
ANG-B/C/D, operating	☐ Decompose NAS operational requirements into NAS
organization, capture	functional and performance requirements
team (if applicable)	1
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2.3.4 Who Approves? Revised 4/2013

2.3.4.1 Service Analysis and Strategic Planning Revised 4/2013

Artifact	Approval Authority
Preliminary shortfall	NextGen Lifecycle Integration Office, Director of the service
analysis	organization with the need
Enterprise architecture	FAA Enterprise Architecture Board
products and	
amendments	
Plan for concept and	Vice Presidents (ATO) or Directors (non-ATO) of the service
requirements definition	organization with the service need and the operating service
	organization and the FAA Enterprise Architecture Board
	chairperson
FAA Enterprise	Joint Resources Council
Architecture	

2.3.4.2 NAS ConOps Change Development and Decomposition Revised 4/2013

Artifact	Approval Authority
NAS ConOps	NextGen Management Board
Operational Capability	NextGen Systems Analysis and Modeling (ANG-5)
Business Case	
Operational capability	NextGen Management Board (JRC concurs)
Capture team	NextGen Management Board
Operational Capability	NextGen Management Board
Integration Plan	
NAS Operational	ATO Operational Concepts, Validation & Requirements (AJV-7)
Requirements Document	
NAS Requirements	NAS Systems Engineering Service (ANG-B)
Document	

2.3.5 Concept and Requirements Definition Readiness Decision Revised 4/2013

The concept and requirements definition readiness decision occurs when an enterprise architecture roadmap indicates action must be taken to address a critical service shortfall or opportunity. At this decision, the FAA Enterprise Architecture Board verifies: (1) the service shortfall, operational improvement, or operational sustainment is in an enterprise architecture roadmap; and (2) planning and resources for concept and requirements definition are in place. The readiness decision is the gateway between service analysis and strategic planning and concept and requirements definition.

2.3.5.1 Entrance Criteria Revised 4/2013

The following are required for the concept and requirements definition readiness decision:

Service shortfall, operational improvement, or sustainment is in an enterprise architecture
roadmap and represents a compelling need of the FAA; and the
Plan for concept and requirements definition is approved by the FAA Enterprise
Architecture Board.

2.3.5.2 Decision Actions Revised 4/2013

The FAA Enterprise Architecture Board makes the decision to enter concept and requirements definition.