

NAS Enterprise Architecture

Service Roadmaps v17.1



BASELINE

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Service Roadmaps Overview

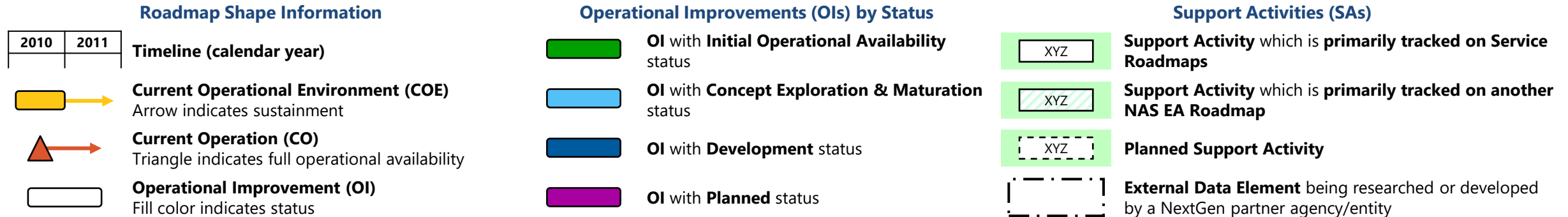
What are the Service Roadmaps?

- The NAS Service Roadmaps depict current NAS operations and the timeline for planned improvements that will deliver benefits to NAS users in pursuit of the Next Generation Air Transportation System (NextGen) vision and move towards a fully integrated information environment for select FAA services.
- The Service Roadmaps are updated annually as research and analyses more clearly define FAA service evolution.

Guidelines for Understanding the Roadmaps

- The Operational Improvement (OI) bars represent the date range within which an Operational Improvement is expected to be initially (e.g. at the first location) available to users. For OIs that are expected to be made operationally available incrementally, the range represents the earliest date for the first initial operational change to the latest date for the final operational change.
- Each Service Roadmap diagram is segmented by service capabilities, which are depicted by alternating gray and white backgrounds. The diagrams use segments with green background to capture Support Activities as needed.
- Appendix A contains the list of OIs that were completed more than 3 years ago and are no longer included on the current Service Roadmaps

Roadmap Legend



Service Roadmaps Status Definitions

OI Status Definitions

- OI status is determined by the most mature capability solution, until the most mature solution achieves Initial Operational Availability (IOA) status.
- Once the most mature capability solution achieves IOA, the OI will remain IOA until all capability solutions are complete, and then the OI will transition to a Current Operation (CO).

OI Status	Definition
Planned	No funding – either internally or externally (e.g. NASA or other partner agency) – has been allocated. The OI represents a potential future concept.
Concept Exploration & Maturation	Work is underway and funded to define the concept, develop acquisition artifacts, mitigate risks, and determine the options for the implementation strategy. Solutions under development to deliver this operational change are currently in either concept and requirement definition or investment analysis up until a final investment decision is achieved (or a comparable agreement on the scope/implementation).
Development	The most mature solutions to deliver the operational change are under development. There may be additional solutions needed to fully deliver this OI which are less mature.
Initial Operational Availability	At least one of the capability solutions needed to deliver the operational change has been achieved or approved for use at an initial site. IOA occurs after demonstration of initial operational capability at the key test site(s). An OI remains in IOA until all capability solutions have achieved operational use.
Current Operational Environment (COE)	The current operational state of FAA service delivery to NAS users.
Current Operation (CO)	All capability solutions needed to fully deliver the OI are complete.

Service Group 6: Certification

Certification Services is responsible for developing regulations; certification, continued operational safety, production approval and airworthiness of aircraft; in addition to certification of pilots, mechanics, and others in safety-related positions; certification of all operational and maintenance enterprises in domestic civil aviation, certification and safety oversight of U.S. commercial airlines and air operators; and oversight for civil flight operations. Certification services also includes the risk-based decision making framework, tools, and processes used to improve aviation safety overall.

Service 601: Risk-Based Decision Making

Risk-based Decision Making Services build on safety management principles to proactively address emerging safety risk by using consistent, data-informed approaches to make smarter, system-level, risk based decisions.

