

Concept and Requirements Definition Guidelines

November 05, 2009

Presented by:

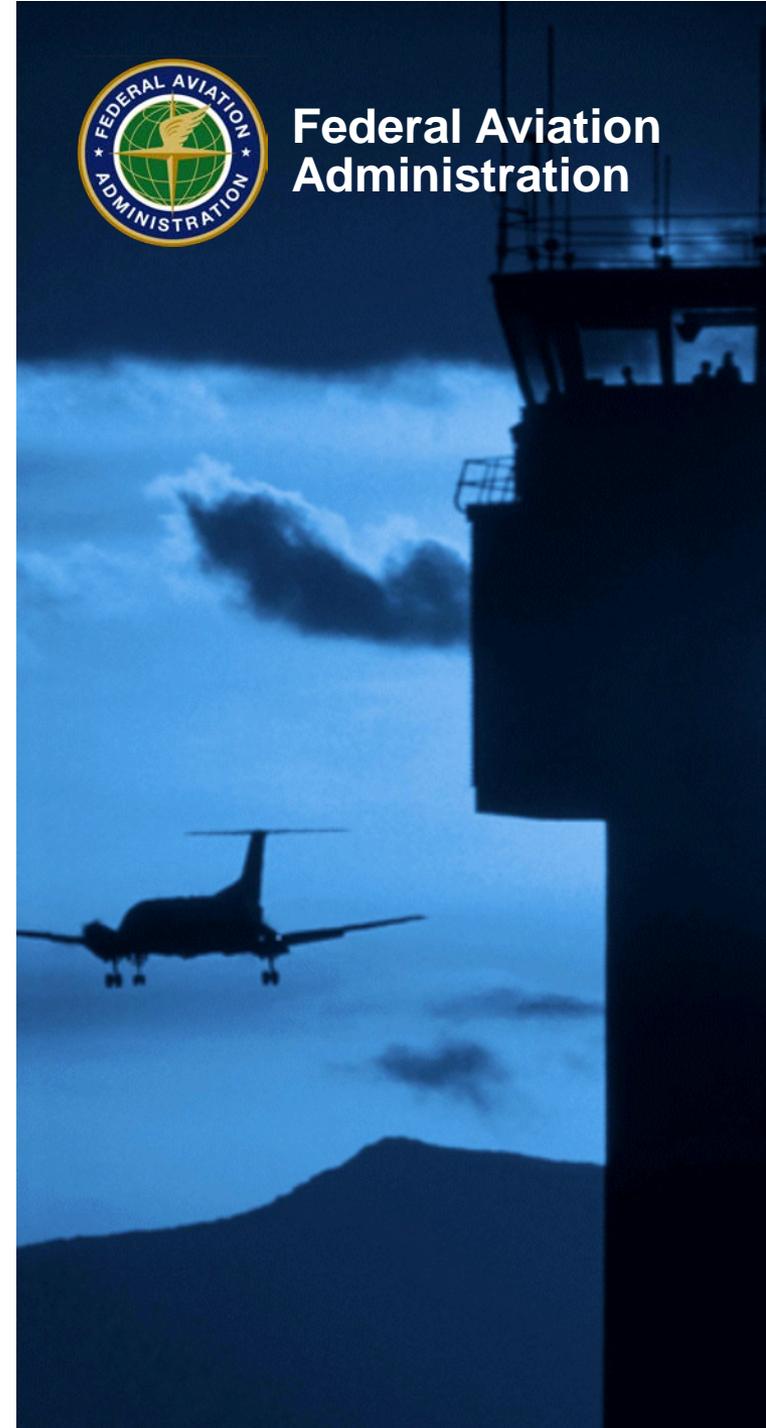
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CRD Group

AJP-1A



**Federal Aviation
Administration**



Agenda

- **Background**
- **Partners**
- **Considerations**
- **Improvements**
- **Guideline Outline**
 - Service Analysis
 - CRD Process and Participants
- **Outputs**
- **Next Steps**



Key Partners

- **AJF – 3 Investment Planning & Analysis**
 - Shortfall Analysis
 - Template
 - Guidelines
 - Rough Estimate of Lifecycle Costs
 - Procedures and methods
- **AIO – Non-NAS or NAS mission support**
- **Sponsoring Line of Business Requiring CRD support**



Considerations

- **NAS EA initiatives**
 - Systems Engineering and Safety (AJP-1)
- **Regulatory, Mission Support, and Administrative EA initiatives**
 - Office of Information Services (ARD-1)
- **Both organizations work together cooperatively**
- **Either organization may delegate CRD responsibility to the other organization**
- **Length of time to conduct CRD will vary across initiatives, depending on ACAT levels. Current average is about 30-34 weeks.**
- **CRD process will be nearly uniform for NAS and non-NAS requirements. (Minor differences do exist, but we have tried to make them consistent.)**

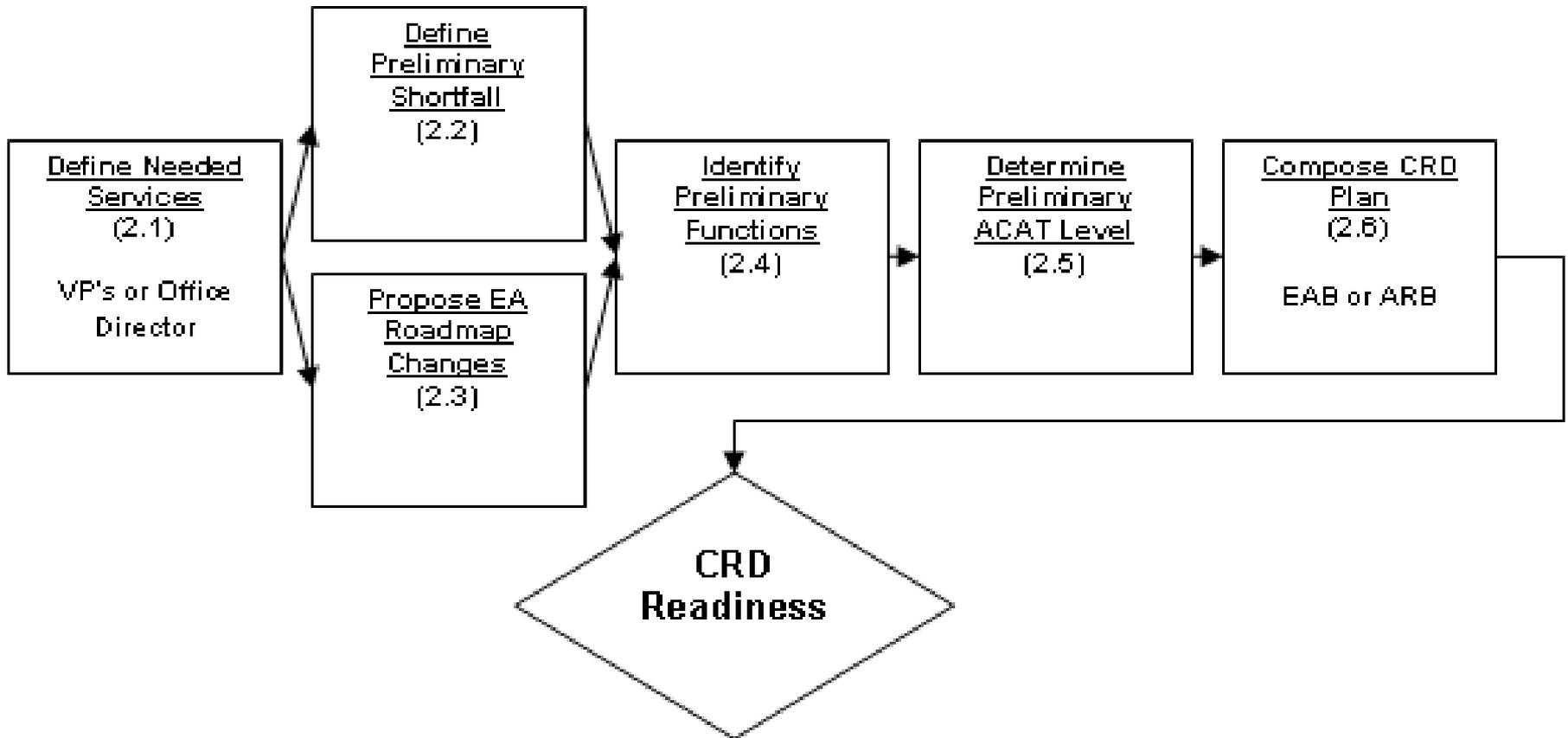


Improvements

- **Required documentation dramatically reduced, and tailored to your specific designated ACAT Level.**
- **Architecture “roles” significantly enhanced.**
- **Documents eliminated or reduced in scope. No more separate CRD Tailoring memos. (All tailoring will be accomplished via the approved CRD Plan.)**
- **Improved templates.**
- **Website with good examples on each CRD product (Web site address TBD)**



Service Analysis Process

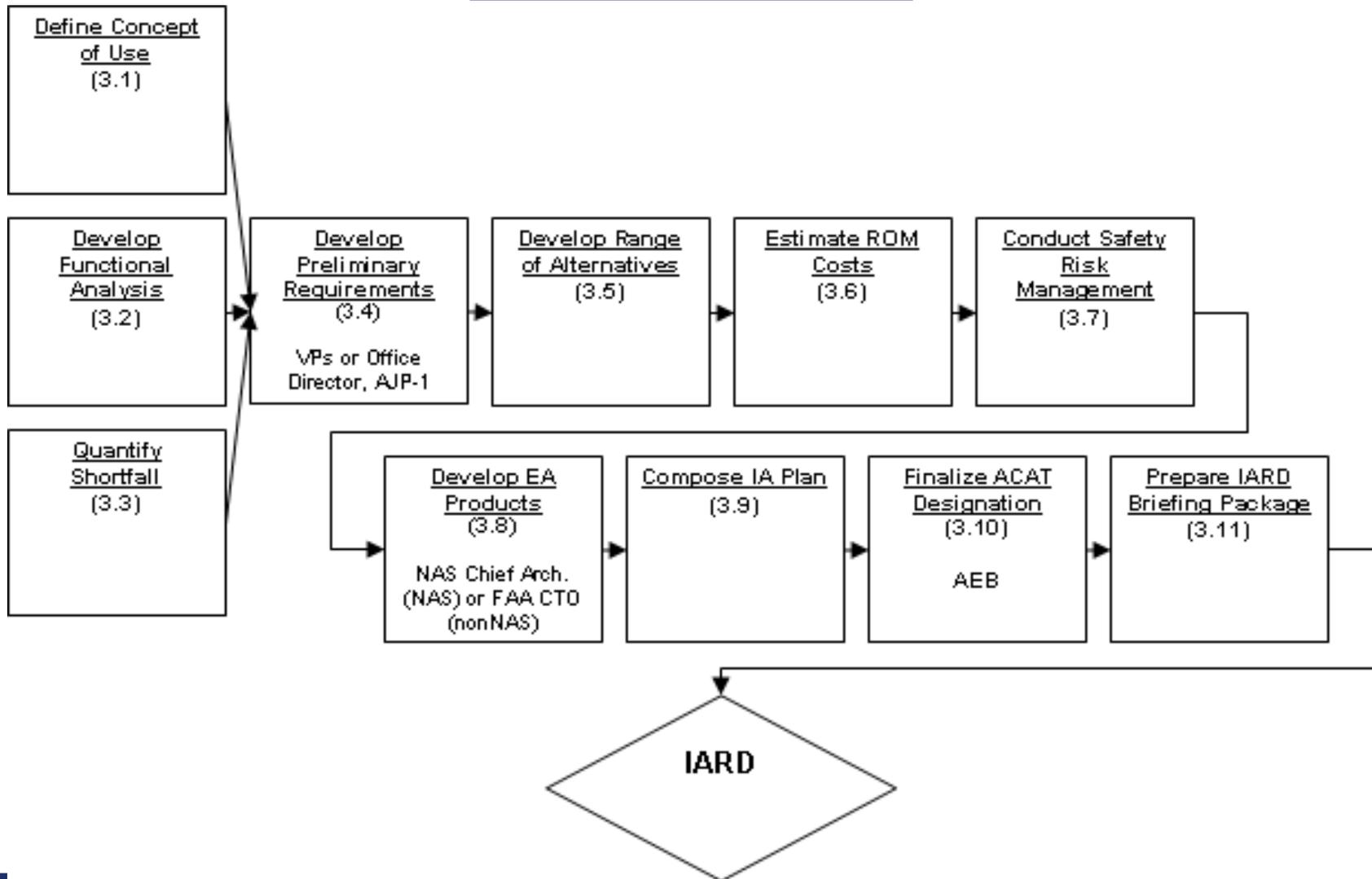


* Please note AJP-1A and Program Office participate in every step

** Also note AIO will participate in each step for all Regulatory, Mission support, and Administrative initiatives



CRD Process



Outputs of CRD Process

- **Problem Statement/Shortfall Analysis**
- **Concept of Use (stand-alone document for ACATs 1 & 2)**
- **Functional Analysis Document**
- **Preliminary Program Requirements**
- **Preliminary Alternative Descriptions Document**
 - Trade Study Reports
 - Rough Estimate Lifecycle Costs
- **Safety Risk Management**
 - Operational Safety Assessment
 - Safety Risk Management Decision Memo
- **Enterprise Architecture Products**
 - AV-1, AV-2, OV-1, OV-5, OV-6c, SV-4 (NAS Architecture)
 - Other FAA Architecture Products
- **Investment Analysis Plan**
- **Finalized ACAT Determination**
- **Executive Summary for IARD**



Next Steps

- **Present to AEB on 11/6 for final approval.**
- **Links to all related supporting tools and templates (e.g., AJF documents), as well as related guidelines.**

