Configuration Management for FAA Information Technology

Presented to: National CM Conference

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CM Governance Challenges

- **Integration with Capital Planning and Investment Control**
- **Authority over what devices and software processes are allowed access to the FAA network**
- **Policy and management process for Non-NAS**
- **Integration with different software development lifecycle methodologies**
- **Controls on contractor work products**

FY09-FY11 Flight Plan Initiative under the Organizational Excellence Goal

- **Enable enterprise-wide conformance to IT Enterprise Architecture through**
  - establishment and enforcement of IT standards for non-NAS
  - integrating standards in software development
  - integrating standards and configuration management (CM)
  - coordinating standards for NAS and non-NAS

Last year we said: here's what happened

- **In partnership with ATO-W the other Lines of Business and Staff Offices have agreed to extend the NAS CM order to the Non-NAS: Cross-LOB working group has continued through 2008**
- **A revised version of FAA Order 1800.66 NAS CM has gone to the administrator for signature: signed 09/07**
- **The next steps are**
  - Charter the Non-NAS IT CCB: draft going to the ITEB 09/08
  - Develop the process and procedures for the Non-NAS by the end of the next fiscal year: process model ready for review by 01/09
  - Update 1800.66 by the end of the following fiscal year: coordination to begin 03/09

FAA Decision Structure Detail for CM

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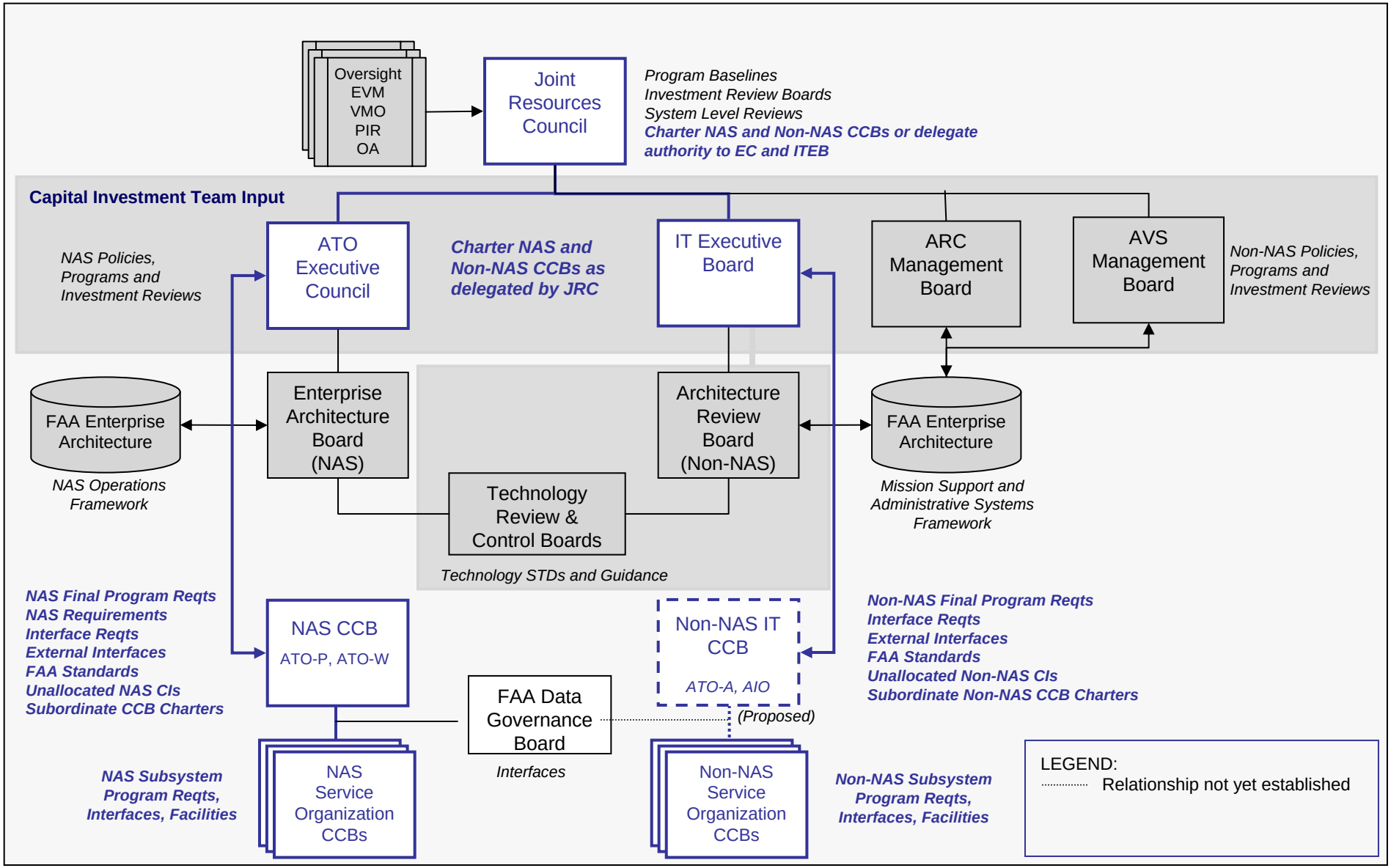
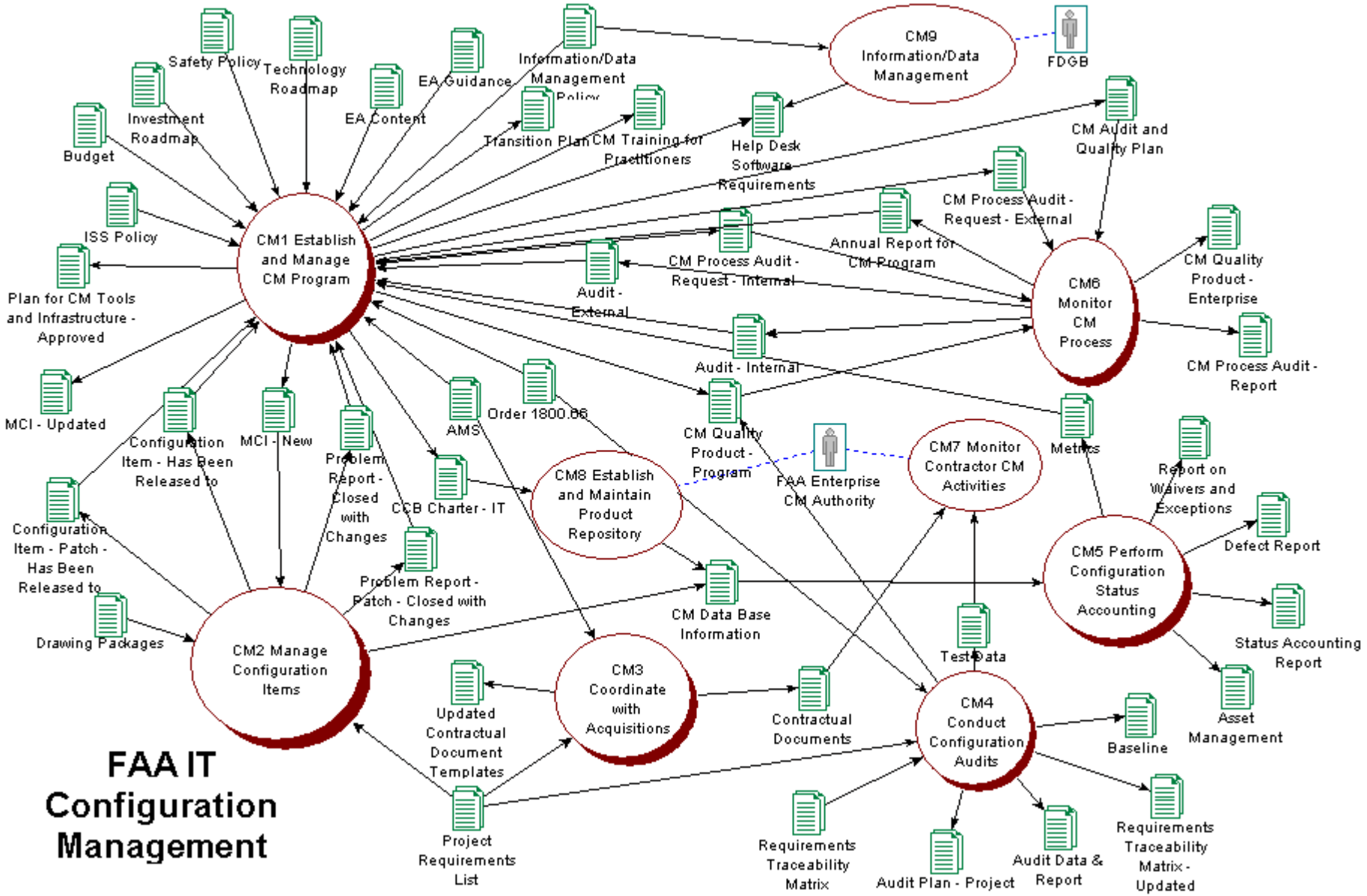


Highlights

- **Developed draft CM process model**
  - Incorporated ITIL methodology
  - Identified known process exceptions, e.g., emergency modifications and interfaces
- **Developed draft scenarios to test the process model**
  - Identified 19 key scenarios, the 11 of which will be tested during the offsite
  - The selected scenarios cover the major areas within the process model
- **Provided the ARB with the draft NRSA CCB charter for review and recommendation for approval by the ITEB**


FAA IT Configuration Management
CM1 Establish and Manage CM Program
CM2 Manage Configuration Items
CM3 Coordinate with Acquisitions
CM4 Conduct Configuration Audits
CM5 Perform Configuration Status Accounting
CM6 Monitor CM Process
CM7 Monitor Contractor CM Activities
CM8 Establish and Maintain Product Repository
CM9 Information/Data Management
FDGB
FAA Enterprise CM Authority
Safety Policy
Technology Roadmap
Investment Roadmap
EA Content
EA Guidance
Budget
ISS Policy
Plan for CM Tools and Infrastructure - Approved
MCI - Updated
Configuration Item - Has Been Released to
MCI - New
Problem Report - Closed with Changes
CCB Charter - IT
AMS
Order 1800.66
Configuration Item - Patch - Has Been Released to
Drawing Packages
Problem Report - Patch - Closed with Changes
Information/Data Management Policy
Transition Plan
CM Training for Practitioners
Help Desk Software Requirements
CM Audit and Quality Plan
CM Process Audit - Request - External
Annual Report for CM Program
CM Process Audit - Request - Internal
Audit - External
Audit - Internal
CM Quality Product - Enterprise
CM Process Audit - Report
CM Quality Product - Program
Metrics
Report on Waivers and Exceptions
Defect Report
Status Accounting Report
Asset Management
Baseline
Requirements Traceability Matrix - Updated
Audit Data & Report
Audit Plan - Project
Requirements Traceability Matrix
Project Requirements List
Updated Contractual Document Templates
Contractual Documents
CM Data Base Information
Test Data

Selected Scenarios

- Change to Application Software
- Change to Interface
- Change to Systems Software
- Change to Hardware
- Change to Document
- Emergency Modification to Application Software
- Emergency Modification to Systems Software
- Patch for Systems Software
- Design Decision affecting Requirements Traceability Matrix
- Audit of Program CM
- Coordinate changes between CCBs

Next Steps

- **Brief the ITEB on CCB charter and CM procedure approval responsibilities (both scheduled for completion by September 30, 2008)**
- **Obtain ITEB approval on the NRSA CCB charter**
- **Finalize the process model by 12/08 and coordinate LOB reviews**
- **Draft top level procedures by 03/09**
- **Provide ARB with the draft CM procedures prior to clearance that is due to start 4/09**

Backup slides

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FAA Configuration Control Board Structure

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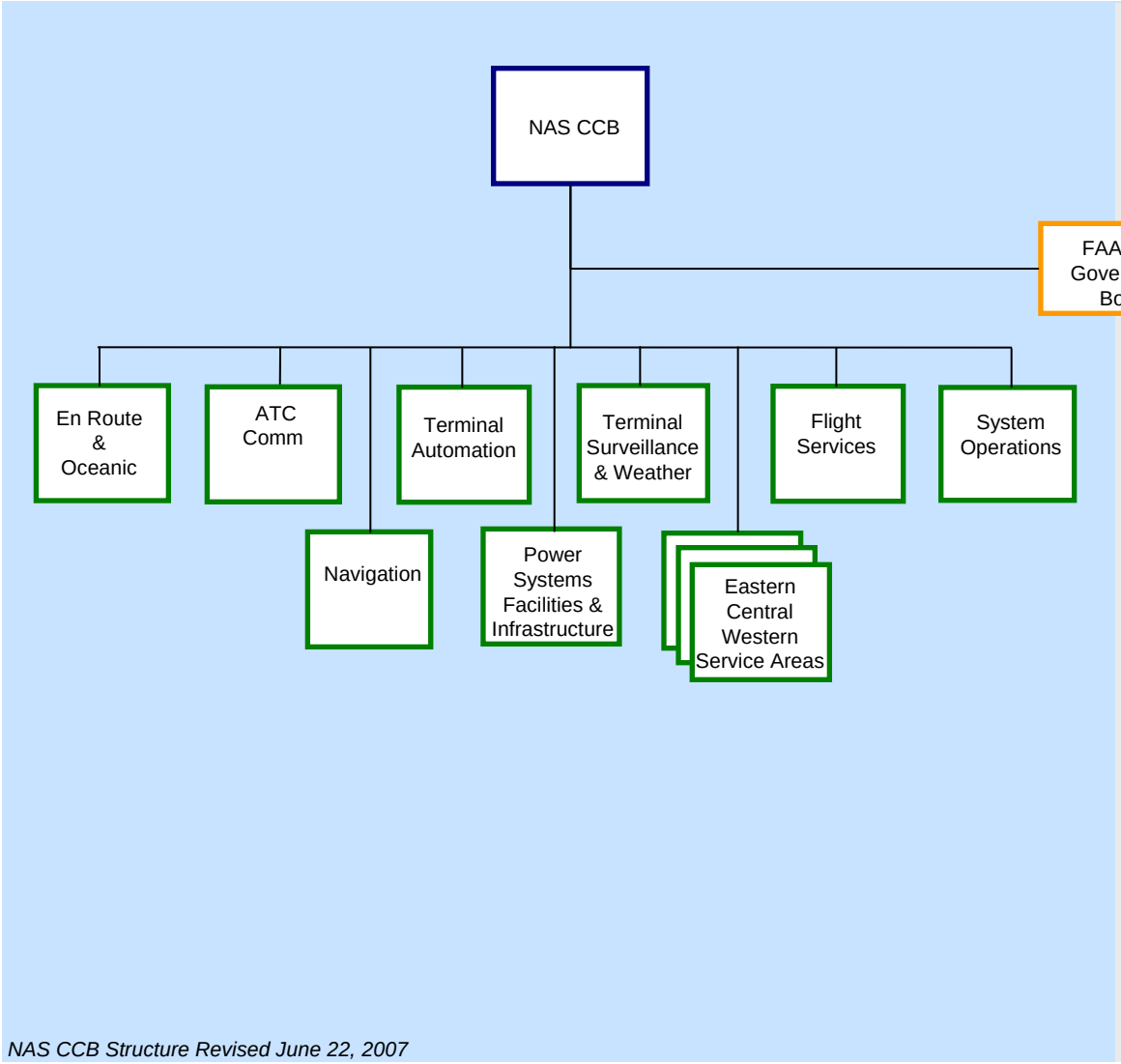
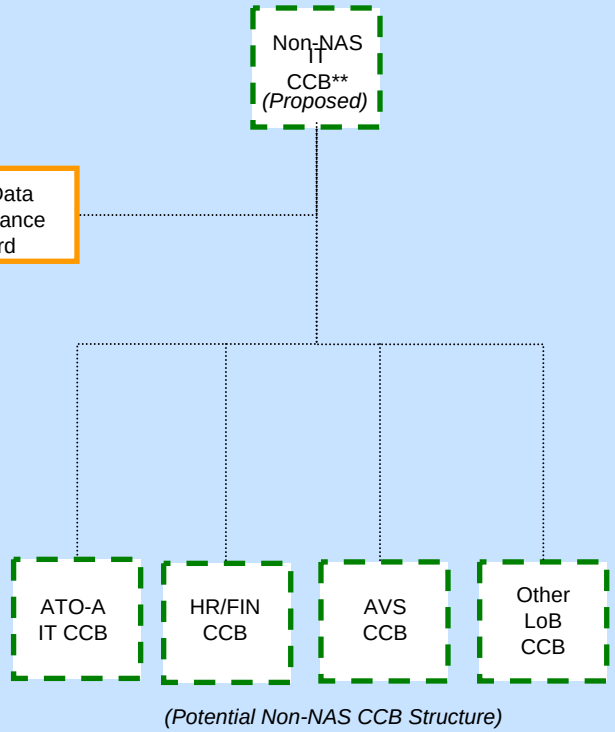


NAS CCB Structure Revised June 22, 2007



(Potential Non-NAS CCB Structure)

** Propose promotion of NAS Support CCB, originally chartered by the NAS CCB, to fulfill this function

DRAFT Non-NAS CCB Structure as of July 3, 2007

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FAA Configuration Management
Baseline Relationships View

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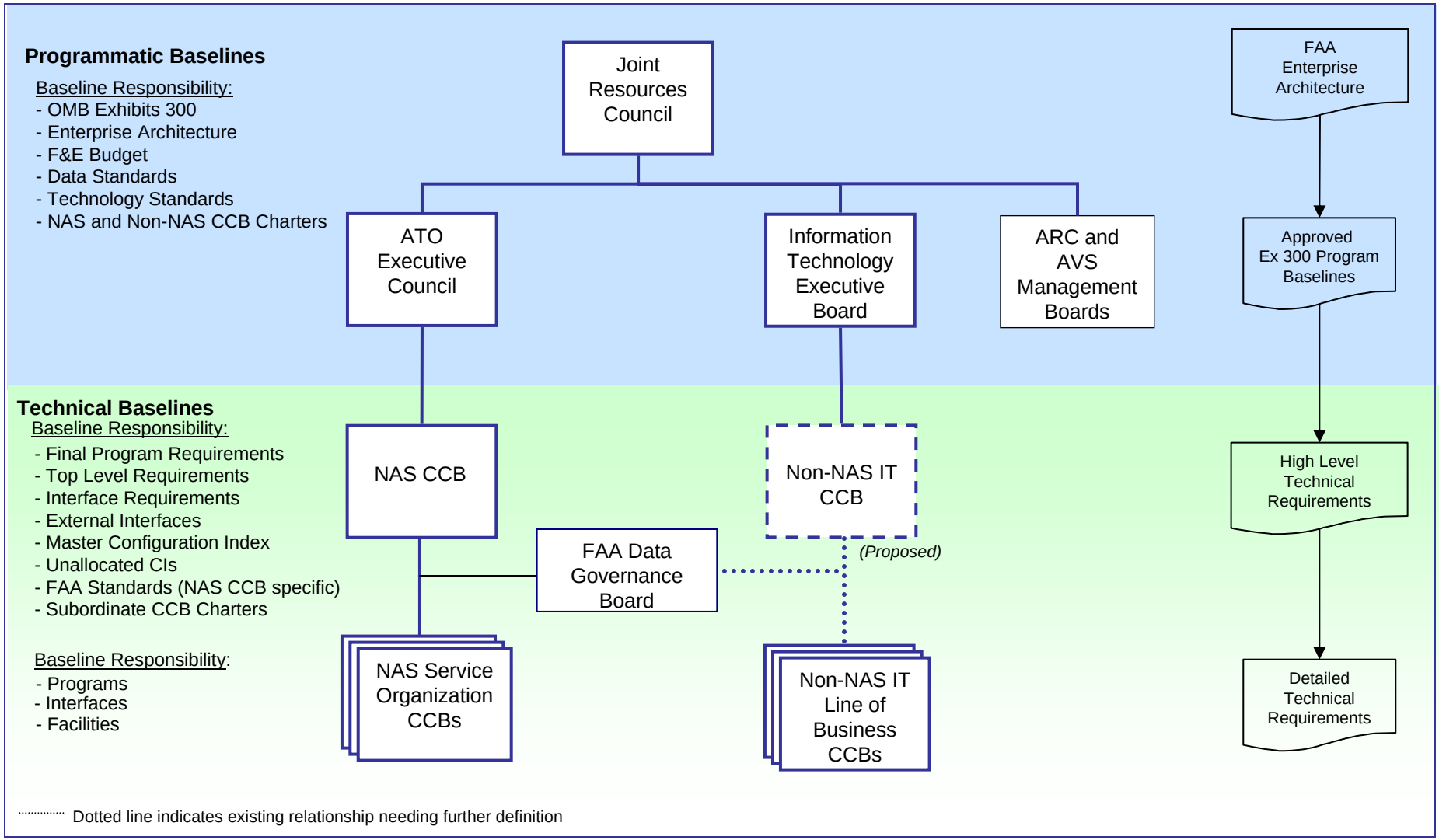

CM Program Drivers: • Acquisition Management System • FAA Order 1800.66 • Enterprise Architecture • FAA iCMM • CM Plans • Charters & Operating Procedures

High-level process relationships