

IMPLEMENTATION TASKS

FAA/Flight Standards

Briefing overview

- Review major implementation steps identified in ICAO RVSM Manual (Doc 9574)
- Review Critical Milestones for RVSM Implementation

The Global RVSM Implementation Process

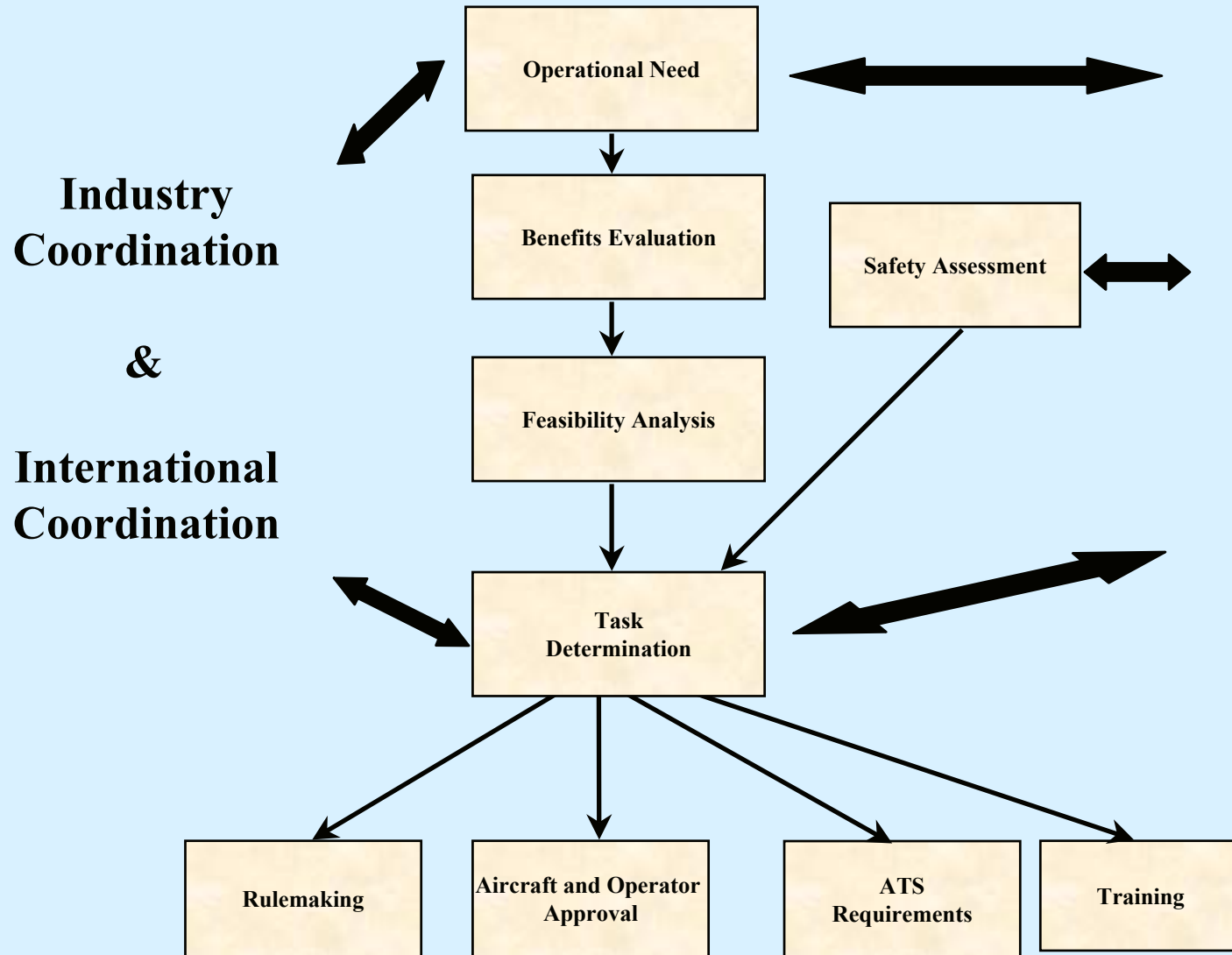
- Developed by ICAO panel: RGCSP (now SASP)
- Contained in “The Manual on Implementation of a 300 M (1 000ft) Vertical Separation Minimum Between FL290 and FL410 Inclusive” (ICAO Doc 9574)
- Edition 2 now available

Doc 9574 Five-Step Process for Implementation

- Step 1 : Assessment of Requirements
- Step 2: Assessment of System Safety
- Step 3: Planning and Preparation
- Step 4: Verification
- Step 5: Full Operational Implementation

DRVSM Process Mirrors Doc. 9574 Implementation steps

Task Definition



Identification of Operational Need

- Characterize Airspace
- Assess airspace, constraints, and future needs
- Examine aircraft population
- Develop Concept of Operations

Benefits Evaluation

- Determine cost to upgrade aircraft fleet
- Examine potential cost to ATS
- Assess benefits
 - Fuel/time savings
 - Increased ATC flexibility
 - Time savings
 - Effect on controller workload
 - Increased capacity

Safety Assessment

- Review aircraft population assigned altitude deviation performance
- Assess the performance
 - Traffic density and complexity
 - Management of operational errors
 - Weather phenomena
 - ATC capabilities
- Validate risk model parameters
 - passing frequency/ lateral path-keeping

Ground System Requirements

- Air Traffic System requirements
- Monitoring methodology

Modification of Documentation

- ICAO Regional Supplementary Procedures
(Doc 7030)
- Guidance Material
- State Regulatory Material

Aircraft Performance

- Predicted based on aircraft equipage surveys, previous and new data collections
- Verified during system verification stage of implementation

Industry Coordination

- Coordination with airspace users
- Coordination with adjoining ATC providers
- Other appropriate regional forums

EXAMPLE CRITICAL MILESTONES IN US IMPLEMENTATION PLAN

Rulemaking

- Notice of Proposed Rulemaking (NPRM) published May 10
- Publish Final Rule by June 2003

International Coordination

- Determine the plans of States with airspace that joins US controlled airspace

General Education

- Seminars conducted for operators and AFS field offices
- DRVSM site added to FAA RVSM website

ATS Readiness.

- AT policy/procedures documents revised
- NAS automation systems modified
- Controller training complete

Regulation and Certification (AVR) Readiness

- AVR field resources in place
- Updated AFS inspector guidance published
- DRVSM pilot and dispatch procedures published

Safety Assessment

- Deploy monitoring systems to assess aircraft altitude-keeping performance
- Assess DRVSM safety analysis parameters
- Safety analysis review

Operator/Aircraft Readiness

- Track fleet readiness against implementation goals using FAA RVSM approvals database
- **12 month prior readiness review.**
- **6 month prior readiness review.**
- **3 month prior readiness review.**

When all required tasks are completed, implementation can proceed.