

Global Operational Data Link Document (GOLD)

Implementation and Amendments

**AFI CNS SG /4, Dakar, Senegal, 25-29 July
2011**

Presented by the Secretariat



**Federal Aviation
Administration**



GOLD

Overview

- **Status**
- **About the GOLD**
- **Implementation considerations**
- **Candidate proposals for amendments**
- **Follow-on activity**
- **Summary**



GOLD status

- **14 June 2010 – GOLD, First Edition, issued**
- **25 June 2010 – North Atlantic (NAT) SPG/46 adopts GOLD**
- **28 June 2010 – State letter from ICAO Asia-Pacific Regional Director adopts GOLD**
 - recalled that APANPIRG/20 (September 2009) concluded to adopt the GOLD upon its release
 - requested administrations “to promulgate GOLD to ADS/CPDLC system users including aircraft operators and air navigation service providers for them to make full use of the document”



GOLD status (continued)

- All subordinate ATS coordinating groups (formal and informal) in NAT and the Asia-Pacific Regions have adopted the GOLD
- 18 May 2010 – South Atlantic FIT supports GOLD
- **GOLD supersedes**
 - FANS 1/A Operations Manual (FOM)
 - Guidance Material for ATS Data Link Services in North Atlantic Airspace (NAT Data Link GM)

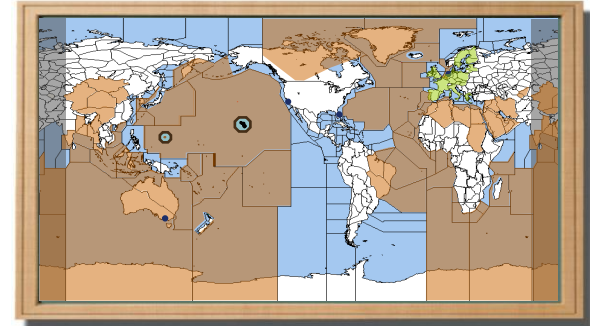


GOLD status (continued)

- **25 Nov 2010 – European Air Navigation Planning Group (EANPG) mandated the Programme Coordination Group (COG) to**
 - Address the practical aspects of harmonization of the LINK2000+ Operational Guidance and GOLD documents
 - Establish a mechanism to advance this work
 - Report to EANPG/53 (Nov 2011)



GOLD – benefits



- **It is being accepted WORLDWIDE**
- **It provides cost-effective and practical solutions to advance safety, improve efficiency, and save the environment**
 - Harmonizes implementation for seamless operations
 - Provides guidance material to facilitate implementation
 - Contributes to safe application of reduced separations
 - Provides a baseline for next generation data link (NextGen)
- **It has buy-in from those who plan for, implement, provide and use data link services daily**
 - They are using it! They want to use it!

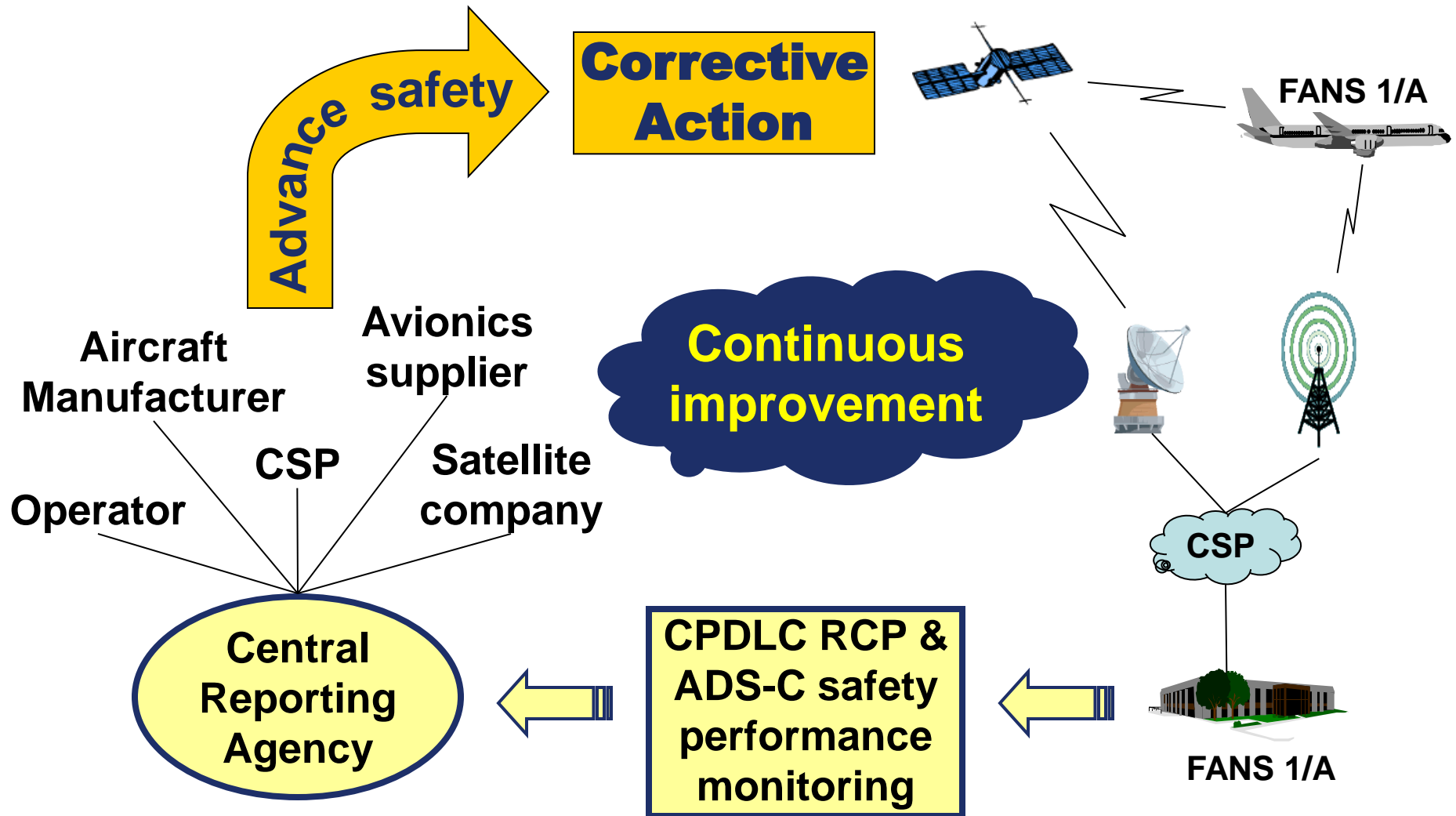


GOLD contents – guidance material

- **Service provision**
- **Operator preparation and aircraft equipage**
- **Controller and flight crew procedures**
- **RCP and surveillance performance specifications**
- **Post-implementation monitoring and corrective action**



Post-implementation monitoring



GOLD implementation considerations

- **Examples**

- Specific ANSP registration procedures for aircraft operators
- Operational authorizations to use data link
- Awareness of GOLD procedures
- Proposals for Amendments to Regional Supplementary Procedures (SUPPs) and aeronautical charts
- Post-implementation monitoring and corrective action
- Position reporting requirements and ADS contract management
- Items specific to any airspace user or Region



Candidates for GOLD amendments

- **Procedures**

- Report severe and moderate turbulence (JCAB)
- ADS-B in trail procedures (ITP) (Airbus, SC214/WG78)
- ADS-C climb/descent procedures (CDP) (GOLD Editor)
- Reroutes (NAT)
- ADS-C out-of-conformance inquiries and instructions (NAT)
- Revised estimated time of arrival (ETA) (Delta)
- CPDLC use in airspace with VHF coverage (Delta)
- Oceanic clearance (NAT, Portugal)
- Departure clearance & other ACARS applications (AEEC DLUF)



Candidates for GOLD amendments

- **Post-implementation monitoring**
 - Clarify analysis of outages, notifications, and missing ADS-C reports (U.S., New Zealand)
- **Region specific**
 - Include focal points for CTA/FIR (Nav Canada)
 - AIDC capability (Operators)
 - DARP (Operators)
 - Add new CTA/FIRs as Regions become participants (GOLD Editor)
- **Expansion**
 - African-Indian Ocean (AFI) and South American (SAM) Regions (SAT/FIT)
 - European (EUR) Region (Maastricht UAC)



Follow-on activity

- **GOLD/3 - Ad Hoc Working Group agreed to assist Regions in managing amendments to the GOLD after its release**
- **Follow-on work**
 - Solicit proposals for amendments to the GOLD
 - Coordinate proposed amendments across the regions
 - Provide interpretation and further clarification to GOLD guidelines
 - Facilitate implementation of standardized data link operations, post-implementation monitoring, and corrective actions
 - Develop a proposal for ICAO on establishing a global configuration management process for the GOLD



Processing proposed amendments

- **All participating regions must accept any proposal for amendment**
- **Use processes and forum similar to change processes used prior to the First Edition**
 - Master comment matrix
 - Proposed amendment packages
 - Teleconferences/Web Ex sessions
 - Meetings will be arranged, as needed



Envisaged change cycle

- **GOLD editions – every two years**
 - APANPIRG – meets annually in September
 - NAT SPG – meets annually in June
 - ...
- **GOLD amendments – when needed**
 - An amendment could be accepted as an individual package until such time that it is incorporated into a new edition of the GOLD



Summary

- **GOLD has been adopted by North Atlantic, Asia, and Pacific Regions and portions of the African-Indian Ocean (AFI) Region – 46 FIRs/CTAs**
- **Supersedes the FOM and NAT Data Link GM**
- **Plans for adoption within the entire AFI, South American and European Regions**
- **Jan 2011 – solicited updates to GOLD work program**
 - Address implementation considerations
 - Identify candidate proposals for amendment to the GOLD
- **Possible GOLD/4 meeting September 2011**







GOLD
9-February 2011



GOLD



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