

### **OVERVIEW**

- **⇒** About ICAO
- **⇒ ICAO AIS-AIM work programme**
- ⇒ Making an ICAO Standard
- ⇒ Plan for a Global Aeronautical Information Exchange Standard

#### ICAO

- ⇒ Convention (Chicago, 1944) and Annexes
- ⇒ UN Specialized Agency
- ⇒ 190 Contracting States
- ⇒ Assembly (ordinarily every 3 years)
- ⇒ Council 36 States
- ⇒ Air Navigation Commission 19 members
- ⇒ Air Navigation Bureau
- **⇒** Standards, Recommended Practices

## ICAO Regional Support





## **OBJECTIVE**

Provision in real-time of accredited and quality-assured information to any ATM user, anytime, anywhere, that will allow and support decision-making processes.

#### **ISSUES**

- □ Data-dependant present and future navigation and ATM systems
- □ Require access to global broad-based aeronautical information of higher quality and timeliness than now available.
- ⇒ Product centric AIS will not meet new requirements arising from the ICAO ATM Concept
- **⇒** Essential to transition to data centric AIM

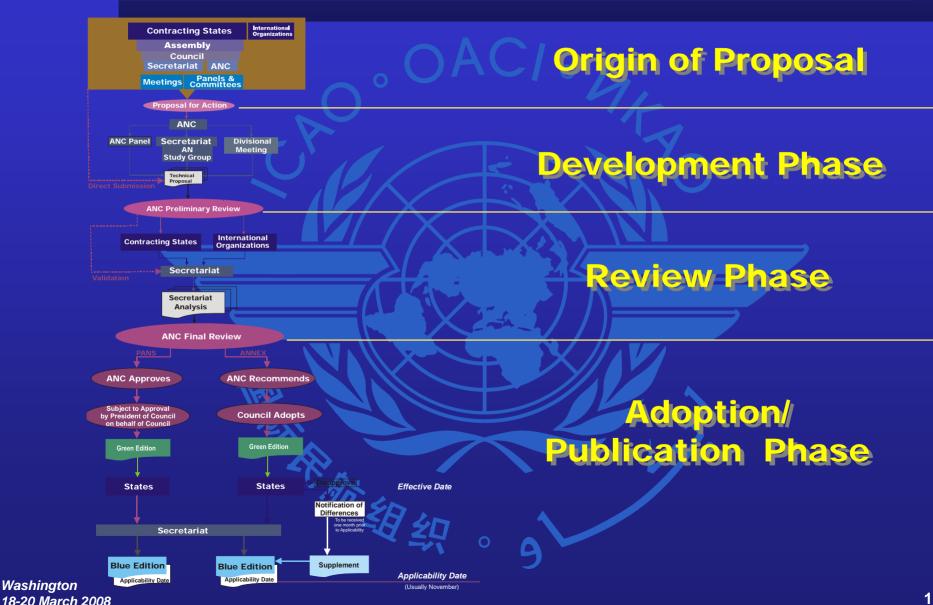
#### KEY ELEMENTS

- ⇒ 1) Global Strategy/road map document
- ⇒ 2) Provide and promote standard aeronautical information conceptual and exchange models
- ⇒ 3) Other Annex amendments to support digital requirements
  - > eAIP, electronic charts, use of GIS

### KEY ELEMENTS

- ⇒ 4) Implementation of existing Annex 15 provisions
  - quality management and automation
- ⇒ 5) Definition of human resource requirements
- ⇒ 6) Legal and institutional issues

## Making an ICAO Standard



## Origin of Proposal

**CONTRACTING STATES** 

**ASSEMBLY** 

COUNCIL

**SECRETARIAT** 

**ANC** 

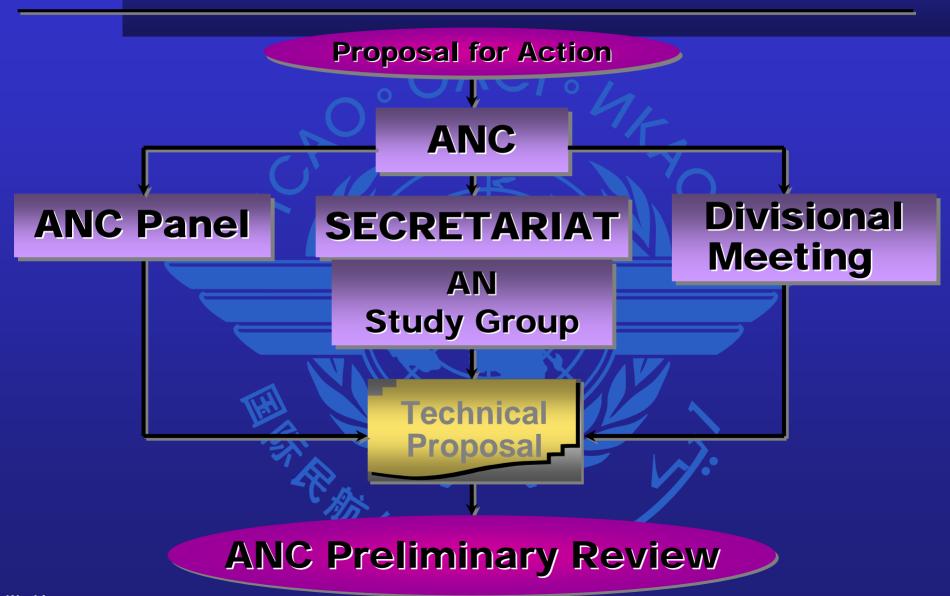
**Meetings** 

Panels and Committees

International
Organizations

**Proposal for Action** 

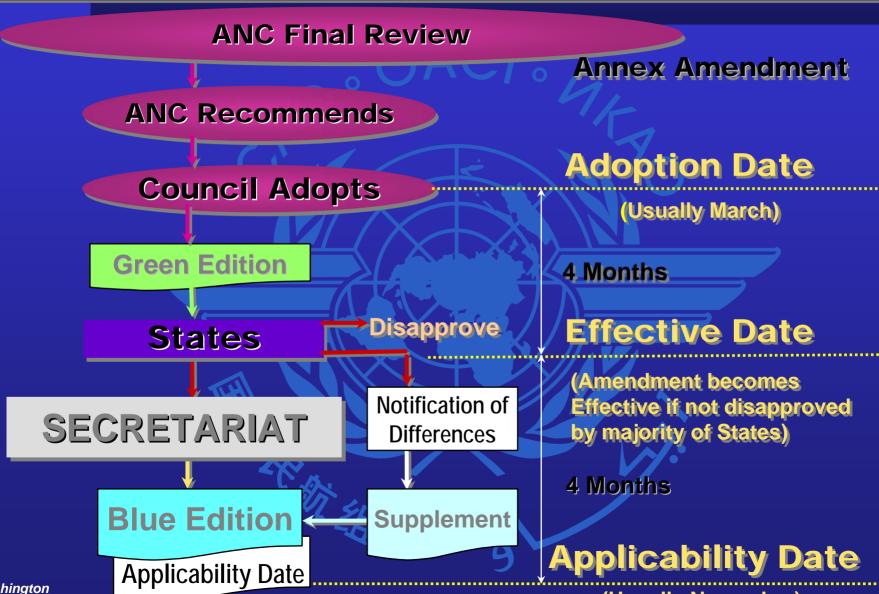
## Development Phase



### **Review Phase**



## **Adoption/Publication Phase**



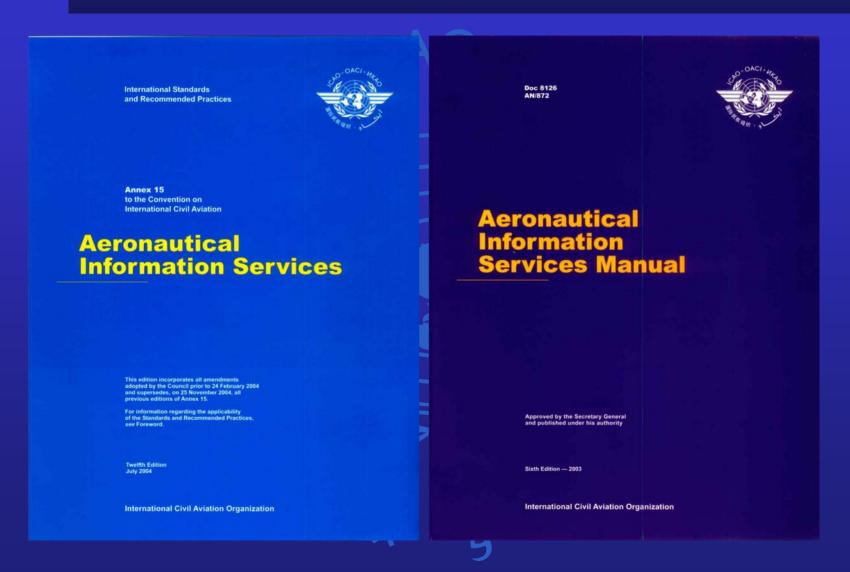
Washington 18-20 March 2008

(Usually November)

## Adoption/Publication Phase



#### **Annex 15 and AIS Manual**



# Challenges for a Global Standard

- ⇒ Global and transparent process
- ⇒ Allow for regional needs
- ⇒ Ongoing and timely amendments
- ⇒ Supportive guidance material
- ⇒ A plan and follow-up assistance for implementation

## Plan for a Global Exchange Standard

- ⇒ Annex 15, 4 and guidance material will need to provide for standard aeronautical conceptual and exchange models
- ⇒ ICAO does not intend to develop a new exchange standard
- ⇒ Over arching ICAO Annex Standards
- □ Detailed technical specifications in another more easily amendable form

# Plan for a Global Exchange Standard

- ⇒ Harmonised definitions of data structures and elements required AIHWG
- **⇒ Semantic Web**
- □ Interoperability, Enterprise
   Architecture and Net Centric
   environment

## Plan for a Global Exchange Standard

- ⇒ ICAO AIS-AIM study group proposed
- ⇒ Study group to:
  - Review documentation on models to ensure global suitability
  - Develop modalities for acquisition of the models and implementation process
  - Advise on integration of AMXM, WXXM
  - Develop a global mechanism for further evolution of technical specifications

## **Key Events**

- ⇒ AIS-AIM study group Approval planned March 2008
- ⇒ ICAO Worldwide Symposium on Enabling the Net-Centric Information Environment
  - 2 to 4 June 2008 at ICAO HQ
  - http://www.icao.int/NetCentric
- ⇒ AIM Congress 2008 Quality AIM
  - > 17 to 19th June 2008 in Singapore
  - http://www.eurocontrol.int/aim/public/standard page/globalaim2008\_intro.html

## **Key Events**

- ⇒ ICAO Forum on Integration and Harmonization of NextGen and SESAR into the Global ATM Framework
  - 8 to 10 September 2008 at ICAO HQ
  - http://www.icao.int/NexSes
- ⇒ Global Strategy/road map document
  - Publication 2009
- ⇒ AIM Annex 15 and 4 Standards
  - Adoption planned 2010
  - Related guidance material 2010

### Conclusion

#### ⇒ What ICAO needs from AIXM:

- Documentation on AIXM/AICM for the AIS-AIM study group to review
- Documentation on the comparison of AIXM and AMXM
- Current thinking on how the AIXM would be updated in the future (control board?)

#### 

- Global acceptance
- Global acceptance involves global review and elements from this review can be expected to be integrated into the models
- Positioning of AIM as a core element of the ATM operational concept

