Aeronautical Information Service to Aeronautical Information Management

National Airspace and Air Navigation Plan Meeting
20 September 2011
Part I – AIS Today

The adequacy of today’s product-centric AIS
AIS Fundamentals – Promulgating the IAIP

“to ensure the flow of aeronautical information necessary for the safety, regularity and efficiency of air navigation”

Adequate? Required?

**Originators**
- Surveyor
- AD
- PD-IFP
- ASP DGN
- ANSP
- MET
- Other

**AIS**
- AIM

**Annex 15 IAIP**
- AIPNZ, Charts
- SUP, AIC, NOTAM, PIB

**TOPO**
- 4 weeks (SUP)
- 8 Weeks (AMDT)
- 7 days
- 8 days
- 20 days
- 28 days
- 30 days

**Verification** is an **Operator Responsibility**
Is the IAIP still adequate today?
Verification is an Operator Responsibility

CHIAN – Controlled & Harmonised AI Network

Originators:
- Surveyor
- AD
- PD-IFP
- ASP DGN
- ANSP
- MET
- Other

TOPO

AIS

Annex 15
IAIP

AIPNZ, Charts

Integrated
AIM

TOPO

4 weeks (SUP)

7 days

8 days

20 days

8 Weeks (AMDT)

SUP, AIC, NOTAM, PIB

Thales, Garmin

ARINC 424 A, B, C

Honeywell

Other

Skyline

OCS

ANAIS /IFIS

Data
Integrator
(Packer)

Data
Warehouse

EAG

JEP

LIDO

EAD

FMS
Part II – AIS Tomorrow

The AIM Concept
and the data-centric AIS
The AIM Concept

Aeronautical Information Management

AIM

The right digital Aeronautical Information, at the right place, at the right time
AIM is about addressing Safety, Capacity, Efficiency, and Institutional issues; and enabling Future ATM.

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<thead>
<tr>
<th>NOTAM</th>
<th>Description</th>
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<tbody>
<tr>
<td>W4164/07 NOTAMN</td>
<td>Q) LIMM/QXXCS/IV/NBO/W /000/010/4547N01201E010</td>
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<tr>
<td>A) LIMM B) 0710010001 C) 0712202359 EST  E) AVIANO CTR.</td>
<td></td>
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<tr>
<td>REF AIP SUPPLEMENT S12/07 ADD A NEW ULTRA LIGHT MACHINES AREA WI MILANO FIR (CTR AVIANO) AS FLW: LATERAL LIMITS: 454613N0115358E 455132N0120128E 454856N0121458E 454500N0115500E 454613N0115358E (SAN MARCO VOLO AREA). VERTICAL LIMITS: GND-500FT AGL</td>
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<td>PERIODS OF ACTIVITY: SAT AND HOL SR-SS ACTIVITY SUBJECT TO: COORDINATION WITH AVIANO APP AUTHORIZATION LIMIT: 18.09.2009 (AS SAN MARCO VOLO)</td>
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<td>F) GND G) 500FT AGL)</td>
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Part III – The Future

AIM into SWIM
(the network-centric information environment)
AIM is a key enabler of Future ATM development
“... the creation of a sufficient, reliable and economic information environment.”

The long term objective is the establishment, in 10-15 years time, of a network-centric information environment ... also known as System Wide Information Management (SWIM)”

- EUROCONTROL
20/20 Vision: AIS to AIM to SWIM

True System Interoperability from Gate-to-Gate
AIS to AIM Roadmap

Phase 1

- P-03 — AIRAC adherence monitoring
- P-04 — Monitoring of States’ differences to Annex 4 and Annex 15
- P-05 — WGS-84 implementation
- P-17 — Quality
AIS to AIM Roadmap

Phase 2

- P-15 — Aerodrome mapping
- P-01 — Data quality monitoring
- P-02 — Data integrity monitoring
- P-06 — Integrated aeronautical information database
- P-07 — Unique identifiers
- P-08 — Aeronautical information conceptual model
- P-11 — Electronic AIP
- P-13 — Terrain
- P-14 — Obstacles
AIS to AIM Roadmap

Phase 3

- P-09 — Aeronautical data exchange
- P-10 — Communication networks
- P-12 — Aeronautical information briefing
- P-16 — Training
- P-18 — Agreements with data originators
- P-19 — Interoperability with meteorological products
- P-20 — Electronic aeronautical charts
- P-21 — Digital NOTAM
Thank you!