SNOWTAM Format Change in EAD

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NMD/INF/IAC/EAIM Service
SNOWTAM Format change in EAD

- EAD, as EASA certified service provider against CIR (EU) 2017/373, will implement the New SNOWTAM format on

12 August 2021!

- This information had been communicated to all EAD clients in Dec 2020
EAD International NOTAM Operations - INO

**Migrated**
- Data Provider
- TAM maintenance
- Secure connection
- B2C Data User

**Non-migrated**
- EAD Ops Staff
- WW TAM processing
- WWW
- Public User
- AFTN
ICAO Guidance on the Issuance of SNOWTAM

- All detailed information about EAD policy/approach related to NEW SNOWTAM format is included into Attachment A

<table>
<thead>
<tr>
<th>Question/Issue</th>
<th>Comments/Initial Analysis</th>
<th>Remarks (if issue is not resolved)</th>
<th>EAD Implementation / Policy/Approach</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW SNOWTAM format (version 2.0) 31/10/2020</td>
<td>Likely to cause the SNOWTAM under the new format</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Guidance on the Issuance of SNOWTAM

**ICAO Guidance on the Issuance of SNOWTAM**

(Applicable from 3 November 2020)

- First Edition
- (F.1.0)
- February 2020

**Guidance on the Issuance of SNOWTAM**

First Edition 21
February 2020
Alignment with EU Regulations

- Relaxed a strict validation between Item D and Item G, allowing storing and distribution SNOWTAM with RWYCC upgrade/downgrade criteria.

- Item G extended with
  - SPECIALLY PREPARED WINTER RUNWAY
  - SLIPPERY WET

- Item M, Item N and Item O supports both format SNOW BANK and SNOWBANK

- Item P supports both format TWY [n or nn] POOR, or TWYS [n or nn]/[n or nn]/... POOR
  - Example: TWY A1 POOR. TWY A2 POOR. or TWYS A1/A2 POOR.

- Item R supports both format APRON [nnnn] POOR, or APRONS [nnnn]/[nnnn]/... POOR
  - Example: APRON 1 POOR. APRON 2 POOR. or APRONS 1/2 POOR.

- Item S supports value NR
Handling of SNOWTAM in EAD after 12 Aug 2021 – Migrated Clients

- Use B2C (ECIT) for SNOWTAM creation
  - **ONLY** New format
  - New HMI for clients, integrated into INO DP application’s tree
- Use B2B (ESI/AIMSL) for SNOWTAM creation
  - **ONLY** New format
  - Current ESI / AIMS/ XML Schemas – OK for new SNOWTAM format
  - New SNOWTAM message validation – INO DP back-end new checks

```xml
<Snowtam>
    <Aerodrome>EBBR</Aerodrome>
    <Observation>07311334</Observation>
    <SnowtamText>
        B) 07311334
        C) 02 D) 1002 E) 5L F) NIL/NIL/NIL G) 45/45/45 H) 4/4/4 J) 26/3L
        K) YESL L) TOTAL N) NO S) 07170956 T) SNOW REMOVAL AND DEICING
    </SnowtamText>
</Snowtam>
```
Handling of SNOWTAM in EAD after 12 Aug 2021 – Migrated Clients

- Use B2C (ECIT) for SNOWTAM creation
  - All migrated NOFs, by default:

<table>
<thead>
<tr>
<th>Country</th>
<th>NOF</th>
<th>Country</th>
<th>NOF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albania /LA</td>
<td>Albcontrol</td>
<td>Kazakhstan /UA</td>
<td>Kazaeronavigatsia</td>
</tr>
<tr>
<td>Armenia /UD</td>
<td>Armats</td>
<td>Kyrgyzstan /UC</td>
<td>Kyrgyzaeronavigatsia</td>
</tr>
<tr>
<td>Azerbaijan /UB</td>
<td>AZANS</td>
<td>Malta /LM</td>
<td>ATS</td>
</tr>
<tr>
<td>Belarus /UM</td>
<td>Belaeronavigatsia</td>
<td>Moldova /LU</td>
<td>MOLDATSA</td>
</tr>
<tr>
<td>Croatia /LD</td>
<td>CroControl</td>
<td>Netherlands /EH</td>
<td>Royal Air Force</td>
</tr>
<tr>
<td>Cyprus /LC</td>
<td>DCA</td>
<td>New Caledonia /NW</td>
<td>SEAC</td>
</tr>
<tr>
<td>Denmark /EK</td>
<td>Navlair</td>
<td>North Macedonia /LW</td>
<td>M-NAV</td>
</tr>
<tr>
<td>Denmark /BG</td>
<td>Navlair- Greenland</td>
<td>Portugal /LP</td>
<td>NAV-EP</td>
</tr>
<tr>
<td>Finland /EF</td>
<td>ANS Finland</td>
<td>Romania /LR</td>
<td>Romatsa</td>
</tr>
<tr>
<td>Greece /LG</td>
<td>Hellenic CAA</td>
<td>Serbia /LY</td>
<td>SMATSA</td>
</tr>
<tr>
<td>Ireland /EI</td>
<td>IAA</td>
<td>Slovenia /LJ</td>
<td>Slovenia Control Ltd.</td>
</tr>
<tr>
<td>Jordan /OJ</td>
<td>CARC</td>
<td>Ukraine /UK</td>
<td>UksATSE</td>
</tr>
</tbody>
</table>

- SNOWTAM DP with EADPro licenses, via HTTPS:

<table>
<thead>
<tr>
<th>Country</th>
<th>License</th>
</tr>
</thead>
<tbody>
<tr>
<td>France SIA</td>
<td>31</td>
</tr>
<tr>
<td>Serbia SMATSA</td>
<td>3</td>
</tr>
<tr>
<td>Slovenia Control Ltd.</td>
<td>1</td>
</tr>
<tr>
<td>Turkey DHMI</td>
<td>10</td>
</tr>
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</table>
Handling of SNOWTAM in EAD after 12 Aug 2021 – Migrated Clients

- Use B2B (ESI/AIMSL) for SNOWTAM creation
  - All ESI migrated NOFs, by default:

<table>
<thead>
<tr>
<th>Country</th>
<th>Operator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estonia /EE</td>
<td>EANS</td>
</tr>
<tr>
<td>Germany /ET</td>
<td>ZLO aka AFSBw</td>
</tr>
<tr>
<td>Norway /EN</td>
<td>Avinor</td>
</tr>
<tr>
<td>Philippines /RP</td>
<td>CAAP</td>
</tr>
<tr>
<td>Slovak Republic /LZ</td>
<td>LPS</td>
</tr>
<tr>
<td>Spain /LE</td>
<td>ENAIRE</td>
</tr>
</tbody>
</table>

- SNOWTAM DP, AIMSL migrated:

<table>
<thead>
<tr>
<th>Country</th>
<th>Operator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sweden /ES</td>
<td>Swedavia Airports</td>
</tr>
</tbody>
</table>

- SNOWTAM received via AFTN from SNOWTAM DP of migrated States:
  - **ONLY** New Format
  - Validation of the SNOWTAM message on the INO DP, using the new validation rules during the automatic processing (auto storage)
Handling of SNOWTAM in EAD after 12 Aug 2021 – Non-Migrated Clients

- WW SNOWTAM received via AFTN
  - Processing by DOP:
    - **New Format**
      - Validation of the SNOWTAM message on the INO DP, using the new validation rules
    - **Old Format**
      - INO DP automatically recognises and ‘marks’ SNOWTAM in ‘old’ format
      - No validation, in case DOP manual processing
      - Old format converted into the new SNOWTAM format and stored (automated)
      - Autocompleting
        - SNOWTAM header, including number
        - Item A) – Aerodrome Location Indicator
        - Item B) – Date/Time of assessment (without repetition)
        - Item C) – RWY designation number (without repetition)
        - Copying the original SNOWTAM text, starting from Item B) into Item T) – Plain language remark.
Handling of SNOWTAM in EAD after 12 Aug 2021 – Non-Migrated Clients

- WW SNOWTAM received via AFTN
  Example of old format processing:
  - Original SNOWTAM:
    SWED0012 EDDK 11042330
    (SNOWTAM 0012
     A) EDDK
     B) 11042330 C) 14L F) 2/2/2 G) 30/30/40 H) 5/5/5
     B) 11042325 C) 14R F) 5/5/5 G) 30/30/40 H) 3/3/3
     B) 11042320 C) 07 F) 5/5/5 G) 40/30/30 H) 2/3/2
     R) 2 S) 12300800
     T) RWY CONTAMINATION 100 PERCENT. SNOW REMOVAL IN PROGRESS)
  - SNOWTAM autostored in EAD (validity 8 hours):
    SWED0012 EDDK 11050145
    (SNOWTAM 0012
     EDDK
     11050145 14L
     THIS SNOWTAM WAS PUBLISHED BY ORIGINATOR IN OLD FORMAT.
     SNOWTAM STORED IN EAD DATABASE WITHOUT ANY VALIDATION CHECKS.
     TEXT PROVIDED FOR SAFETY REASON ONLY.
     QUOTE
     B) 11042330 C) 14L F) 2/2/2 G) 30/30/40 H) 5/5/5
     B) 11042325 C) 14R F) 5/5/5 G) 30/30/40 H) 3/3/3
     B) 11042320 C) 07 F) 5/5/5 G) 40/30/30 H) 2/3/2
     R) 2 S) 12300800
     T) RWY CONTAMINATION 100 PERCENT. SNOW REMOVAL IN PROGRESS)
     UNQUOTE
Transition and activation of new SNOWTAM format

• The *NEW* format support will be activated by system’s configuration parameter
  \textit{SNOWTAM\_2020\_START\_DATE}, with the current default value \textit{2021.08.12 00:00 UTC}

• During the activation the following steps will be performed:
  • \textbf{Stop} EAD related services, including Forms, ESI, AIMS
  • Activate system’s parameters for \textit{NEW} format
  • Remove \textit{OLD} SNOWTAM templates
  • Remove \textit{OLD} SNOWTAM rules
  • Invalidate \textit{OLD} SNOWTAM with observation time older than 8 hours
  • Convert stored \textit{OLD} SNOWTAM with observation time not older than 8 hours to \textit{CONVERTED} format
  • \textbf{Start} EAD related services, allowing \textbf{creation} of SNOWTAM in \textit{NEW} format and \textbf{processing} in \textit{NEW/CONVERTED} format
EAD – European AIS Database

Thank you!
## Acronyms and Abbreviations

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFTN</td>
<td>Aeronautical Fixed Telecommunications Network</td>
</tr>
<tr>
<td>AIMSL</td>
<td>AIM Service Layer</td>
</tr>
<tr>
<td>DOP</td>
<td>EAD Data Operational Provider</td>
</tr>
<tr>
<td>DP</td>
<td>Data Provider</td>
</tr>
<tr>
<td>EASA</td>
<td>European Union Aviation Safety Agency</td>
</tr>
<tr>
<td>ESI</td>
<td>EAD System Interface</td>
</tr>
<tr>
<td>ECIT</td>
<td>EAD Client Interface Terminal</td>
</tr>
<tr>
<td>HMI</td>
<td>Human Machine Interface</td>
</tr>
<tr>
<td>INO</td>
<td>International NOTAM Operation</td>
</tr>
<tr>
<td>INO DP</td>
<td>INO Data Provider</td>
</tr>
<tr>
<td>NOF</td>
<td>NOTAM Office</td>
</tr>
<tr>
<td>RWY</td>
<td>Runway</td>
</tr>
<tr>
<td>TAM</td>
<td>All kind of NOTAM, SNOWTAM, ASHTAM, BIRDTAM</td>
</tr>
<tr>
<td>XML</td>
<td>Extensible Markup Language</td>
</tr>
<tr>
<td>WW</td>
<td>World Wide</td>
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Definitions

For the purpose of this presentation:

**EAD B2B**
means the software that allows the Client to develop its own client interface to access the EAD

**EAD B2C**
means the software made available to the Client to directly access the EAD

**Migrated client**
means a Client (Data Provider) that has been declared operational by EUROCONTROL for INO area for which it is responsible.

**Non-Migrated client**
means a Client (Data Provider) that has not declared operational by EUROCONTROL for INO area for which it is responsible.