Subject matter and scope

The Network integration of departure estimates from medium and small sized airports via the exchange of Departure Planning Information (DPI), specifically ATC-DPI and CNL-DPI messages is needed to enhance the network benefit and improve the flow management process. This functionality aims to improve integration of departure estimates from medium or small-size airports when serving a complex airspace with dense traffic through improved availability of aircraft pre-departure information to the ATM Network, through the provision of accurate pre-departure information to the NM.

The objective also supports further integration of airports into the Network by addressing the reception from the NM of estimated landing times.

This objective should be considered as not applicable for the airports that already deployed A-CDM or planned to deploy A-CDM in near future.

NOTE FOR MILITARY AUTHORITIES: It is the responsibility of each military authority to review this Objective IN ITS ENTIRETY and address each of the SLoAs that the military authority considers RELEVANT for itself. This has to be done on top and above of the review of "MIL" SLoAs which identify actions EXCLUSIVE to military authorities.

Applicability Area(s) & Timescale(s)

Applicability Area | Subject to local need.
---|---

<table>
<thead>
<tr>
<th>Timescales:</th>
<th>From:</th>
<th>By:</th>
<th>Applicable to:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial operational capability</td>
<td>2018</td>
<td>Subject to local need.</td>
<td></td>
</tr>
<tr>
<td>Full operational capability</td>
<td>N/A</td>
<td>Subject to local need.</td>
<td></td>
</tr>
</tbody>
</table>

References

European ATM Master Plan

OI step - [DCB-0304] — Improved Integration of Regional Airports into the Network

<table>
<thead>
<tr>
<th>Enablers</th>
<th>NIMS-03</th>
<th>NIMS-06</th>
</tr>
</thead>
</table>

Legend:

- **Wxyz-001**: Covered by SLoA(s) in this objective
- **Wxyz-002**: Covered by SLoA(s) in another objective
- **Wxyz-003**: Objective covering the enabler
- **zzz**: Not covered in the Implementation Plan

Applicable legislation

- none-

ICAO GANP – ASBUs

<table>
<thead>
<tr>
<th>B1-ACDM</th>
<th>Optimized Airport Operations through A-CDM Total Airport Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1-NOPS</td>
<td>Enhanced Flow Performance through Network Operational Planning</td>
</tr>
</tbody>
</table>

Deployment Programme

- none-

SESAR Solution

<table>
<thead>
<tr>
<th>SOL #61</th>
<th>Low cost and simple departure data entry panel</th>
</tr>
</thead>
</table>

Operating Environment

| Airport, Network |

Network Strategic Plan

<p>| SO 06/3 | Implement the Advanced Tower concept (tower with DPI messaging) |</p>
<table>
<thead>
<tr>
<th>SloA ref.</th>
<th>Title</th>
<th>From</th>
<th>By</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOP17-ASP01</td>
<td>Upgrade the local ATC system so as to provide departure planning information</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>AOP17-ASP02</td>
<td>Upgrade the local system to support reception of estimated landing time from NM</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>AOP17-ASP03</td>
<td>Develop the procedures for information exchanges with the NM</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>AOP17-ASP04</td>
<td>Train all relevant staff in information exchanges with the NM</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>AOP17-ASP05</td>
<td>Develop local safety case</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>AOP17-ASP06</td>
<td>Provide DPI message to NM</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>AOP17-NM01</td>
<td>Integrate Depart Planning Information (DPI) in NM systems</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Description of finalised and deleted SLoAs is available on the eATM Portal @ [https://www.eatmportal.eu/working/depl/essip_objectives](https://www.eatmportal.eu/working/depl/essip_objectives)

### Expected Performance Benefits

**Safety:**
There will be an overall minor improvement in the safety of operations through the provision of timely and accurate information that is widely shared amongst all partners in the ATM business.

**Capacity:**
Improved availability of more accurate departure data will improve the performance of network management, thereby enabling the improvement of capacity through better confidence in NMOC traffic load predictions.

**Operational Efficiency:**
The improved data will increase predictability within the NMOC systems for demand on a sector, leading to:
- Better decision making concerning when to open or close a sector;
- Fewer unnecessary regulations leading to a reduction of ATFM delays;
- Fewer overloads as sudden increases in demand will be rare.

**Cost Efficiency:**
No.

**Environment:**
No.

**Security:**
No.

### Detailed SLoA Descriptions

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>AOP17-ASP01</td>
<td>Upgrade the local ATC system so as to provide departure planning information</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Action by:** ANS Provider

**Description & purpose:** TWR tools and systems (e.g. Advanced Tower tools, Electronic flight strip) are upgraded as necessary so with the capability of providing departure planning information (ATC-DPI and CNL-DPI messages) to NM.

**Supporting material(s):**
- SJU - SESAR Solution 61: Data pack for Controller Working Position (CWP) Airport – Low Cost and Simple Departure Data Entry Panel
- EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP)
- EUROCONTROL Implementation Guidelines Advanced ATC TWR airports
  Url: [https://www.eurocontrol.int/articles/advanced-atc-twr-airports](https://www.eurocontrol.int/articles/advanced-atc-twr-airports)
- EUROCONTROL DPI Implementation Guide
  Url: [https://www.eurocontrol.int/publications/dpi-implementation-guide](https://www.eurocontrol.int/publications/dpi-implementation-guide)

**Finalisation criteria:**
1 – Installation completed, TWR system capable of generating DPI.

**ATM Master Plan relationship:** [AERODROME-ATC-20] Enhanced ADDEP (Airport Departure Data Entry Panel)

<table>
<thead>
<tr>
<th>SloA ref.</th>
<th>Title</th>
<th>From</th>
<th>By</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOP17-ASP02</td>
<td>Upgrade the local system to support reception of estimated landing time from NM</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Action by:** ANS Provider
AOP17 Provision/integration of departure planning information to NMOC

Description & purpose: The upgrade of TWR systems should allow the reception/presentation of estimated landing time (ELDT) from NM. ELDT may be received via AFTN using the FUM messages or via dedicated NM B2B web services.

Supporting material(s):
- SJU - SESAR Solution 61: Data pack for Controller Working Position (CWP) Airport – Low Cost and Simple Departure Data Entry Panel
- EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP)
- EUROCONTROL Implementation Guidelines Advanced ATC TWR airports
  - URL: [https://www.eurocontrol.int/articles/advanced-atc-twr-airports](https://www.eurocontrol.int/articles/advanced-atc-twr-airports)
- EUROCONTROL DPI Implementation Guide
  - URL: [https://www.eurocontrol.int/publications/dpi-implementation-guide](https://www.eurocontrol.int/publications/dpi-implementation-guide)

Finalisation criteria: 1 – Installation completed, TWR system receives estimated landing time from NM.

ATM Master Plan relationship: [AERODROME-ATC-20] Enhanced ADDEP (Airport Departure Data Entry Panel)

### AOP17-ASP03

**Description & purpose:** Develop the procedures for information exchanges with the NM. The procedures specifying responsibilities and actions that should be taken by TWR in relation to information exchanges with NM (departure planning information and/or estimated landing time), should be developed.

**Supporting material(s):**
- SJU - SESAR Solution 61: Data pack for Controller Working Position (CWP) Airport – Low Cost and Simple Departure Data Entry Panel
- EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP)
- EUROCONTROL Network Operations Handbook (Manuals and Guidelines related to DPI exchange)
  - URL: [https://www.public.nm.eurocontrol.int/PUBPORTAL/gateway/spec/index.html](https://www.public.nm.eurocontrol.int/PUBPORTAL/gateway/spec/index.html)
- EUROCONTROL Implementation Guidelines Advanced ATC TWR airports
  - URL: [https://www.eurocontrol.int/articles/advanced-atc-twr-airports](https://www.eurocontrol.int/articles/advanced-atc-twr-airports)
- EUROCONTROL DPI Implementation Guide
  - URL: [https://www.eurocontrol.int/publications/dpi-implementation-guide](https://www.eurocontrol.int/publications/dpi-implementation-guide)

**Finalisation criteria:** 1 – The procedures specifying responsibilities and actions that should be taken by TWR in relation information exchanges with NM have been published in the Operations Manual.

**ATM Master Plan relationship:** [AERODROME-ATC-20] Enhanced ADDEP (Airport Departure Data Entry Panel)

### AOP17-ASP04

**Description & purpose:** Train TWR controllers in the responsibilities and actions that should be taken in relation to information exchanges with NM.

**Supporting material(s):**
- SJU - SESAR Solution 61: Data pack for Controller Working Position (CWP) Airport – Low Cost and Simple Departure Data Entry Panel
- EUROCONTROL Network Operations Handbook (Manuals and Guidelines related to DPI exchange)
  - URL: [https://www.public.nm.eurocontrol.int/PUBPORTAL/gateway/spec/index.html](https://www.public.nm.eurocontrol.int/PUBPORTAL/gateway/spec/index.html)
- EUROCONTROL Implementation Guidelines Advanced ATC TWR airports
  - URL: [https://www.eurocontrol.int/articles/advanced-atc-twr-airports](https://www.eurocontrol.int/articles/advanced-atc-twr-airports)
- EUROCONTROL DPI Implementation Guide
  - URL: [https://www.eurocontrol.int/publications/dpi-implementation-guide](https://www.eurocontrol.int/publications/dpi-implementation-guide)

**Finalisation criteria:** 1 – The training in accordance with agreed training requirements and programme has been completed.

**ATM Master Plan relationship:** [AERODROME-ATC-20] Enhanced ADDEP (Airport Departure Data Entry Panel)
### AOP17-ASP05

**Develop local safety case**

| Action by: | ANS Provider |
| From: | dd/mm/yyyy |
| By: | dd/mm/yyyy |

**Description & purpose:**
Develop safety case for the information exchanges with NM according to applicable legislation.

**Supporting material(s):**
- SJU - SESAR Solution 61: Data pack for Controller Working Position (CWP) Airport – Low Cost and Simple Departure Data Entry Panel
- EUROCONTROL Network Operations Handbook (Manuals and Guidelines related to DPI exchange)
  - ![Link](https://www.public.nm.eurocontrol.int/PUBPORTAL/gateway/spec/index.html)
- EUROCONTROL Implementation Guidelines Advanced ATC TWR airports
  - ![Link](https://www.eurocontrol.int/articles/advanced-atc-twr-airports)
- EUROCONTROL DPI Implementation Guide
  - ![Link](https://www.eurocontrol.int/publications/dpi-implementation-guide)

**Finalisation criteria:**
1. Safety case developed and submitted to NSA.

### AOP17-ASP06

**Provide DPI message to NM**

| Action by: | ANS Provider |
| From: | dd/mm/yyyy |
| By: | dd/mm/yyyy |

**Description & purpose:**
Exchange ATC-DPI and CNL-DPI with NM

**Supporting material(s):**
- SJU - SESAR Solution 61: Data pack for Controller Working Position (CWP) Airport – Low Cost and Simple Departure Data Entry Panel
- EUROCONTROL Network Operations Handbook (Manuals and Guidelines related to DPI exchange)
  - ![Link](https://www.public.nm.eurocontrol.int/PUBPORTAL/gateway/spec/index.html)
- EUROCONTROL Implementation Guidelines Advanced ATC TWR airports
  - ![Link](https://www.eurocontrol.int/articles/advanced-atc-twr-airports)
- EUROCONTROL DPI Implementation Guide
  - ![Link](https://www.eurocontrol.int/publications/dpi-implementation-guide)

**Finalisation criteria:**
1. ATC-DPI and CNL-DPI from concerned airport are integrated with NM systems

**ATM Master Plan relationship:**
[NIMS-03] Reception of DPI messages

### AOP17-NM01

**Integrate Departure Planning Information (DPI) in NM systems**

| Action by: | Network Manager |
| From: | dd/mm/yyyy |
| By: | dd/mm/yyyy |

**Description & purpose:**
Integrate the received DPI messages with NM systems.

**Supporting material(s):**
- SJU - SESAR Solution 61: Data pack for Controller Working Position (CWP) Airport – Low Cost and Simple Departure Data Entry Panel
- EUROCONTROL Network Operations Handbook (Manuals and Guidelines related to DPI exchange)
  - ![Link](https://www.public.nm.eurocontrol.int/PUBPORTAL/gateway/spec/index.html)
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- EUROCONTROL DPI Implementation Guide
  - ![Link](https://www.eurocontrol.int/publications/dpi-implementation-guide)

**Finalisation criteria:**
1. DPI messages from concerned airport integrated with the NM systems

**ATM Master Plan relationship:**
[NIMS-03] Reception of DPI messages
[NIMS-06] Network information management system equipped with post-analysis tools for airport traffic

**Implementation Plan Edition 2019**