European Maritime Day

Digital transformations supporting coast guard functions – workshop

EMSA

Leendert Bal
Head of Department
Safety, Security and Surveillance

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EMSA’s strategic framework

Modern organisational management
efficient, stakeholder oriented, smart, transparent
and gender balanced

- service provider
- reliable partner
- international reference
- knowledge hub
Maritime Data Sources
What can I get from the IMS?

Maritime Picture

Graphical interface(s) – web browser and Mobile

Webservices for specific data and functionalities

Automatic detection and alerting

‘Operation specific’ information/ data
IMS with T-AIS only
IMS with T-AIS and S-AIS
IMS with T-AIS, S-AIS and LRIT
IMS with T-AIS, S-AIS, LRIT and VMS
Integrated Maritime Services (IMS)

- Total messages in one day: 32,087,134
- Distinct vessels: 112,156
  - T-AIS*: 32,300
  - S-AIS: 69,541
  - LRIT: 8,884
  - VMS: 1,431

**Total messages in one day: 32,087,134**

- T-AIS*: 11,541,376
- S-AIS: 20,471,200
- LRIT: 35,408
- VMS: 39,150
#Automated Behaviour Monitoring

## AUTOMATIC DETECTION AND ALERT TRIGGERING OF SHIP BEHAVIOUR

<table>
<thead>
<tr>
<th>#Anchorage /outside port</th>
<th># Drifting</th>
<th>#Spoofing position</th>
<th>#In/out area</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Anchorage Image]</td>
<td>![Drifting Image]</td>
<td>![Spoofing Image]</td>
<td></td>
</tr>
<tr>
<td>#At port at sea</td>
<td>#At sea encounter</td>
<td>#Not reporting</td>
<td>#Time of the day</td>
</tr>
</tbody>
</table>

![SPEED](image)
## #AT SEA ENCOUNTER
EMSA’s support to Border Control

EMSA is the premier provider of maritime information to FRONTEX, giving access to vessel tracking, analysis and satellite imagery capabilities.
Earth Observation Services
Satellite imagery

**SAR DATA**
QUASI REAL TIME* DELIVERY (20’) TO USERS

**OPTICAL DATA**
NEAR REAL TIME* DELIVERY (30’) TO USERS

(*) Depending on acquisition size and value added products
Earth Observation Services Coverage (2020)

15,657 EMSA EO services (2020)

- 8324 CleanSeaNet
- 5495 Copernicus Maritime Surveillance Service
- 1831 Support to Border Control
RPAS portfolio

Pollution monitoring

> 4h  
EO/IR, sniffer

>35min  
EO/IR

>50min  
EO/IR, sniffer

Multipurpose Maritime Surveillance

> 10h, 500 km EO/IR, Mar. radar, radar detector, phone detector, rescue boat for 8 people

>6h, 200km  
EO/IR, opt. scanner VIS

9-15h (depending on payload)  
up to 400km autonomy  
EO/IR, Radar
RPAS operations – Data sharing

EMSA RPAS Data Centre

- Plan
- Follow
- Communicate
- Detect
- Analyse
- Collect