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EUR/NAT 2020-2022 operating plans Air Navigation Capacity and Efficiency

ICAO EUR/NAT

TC-FBT

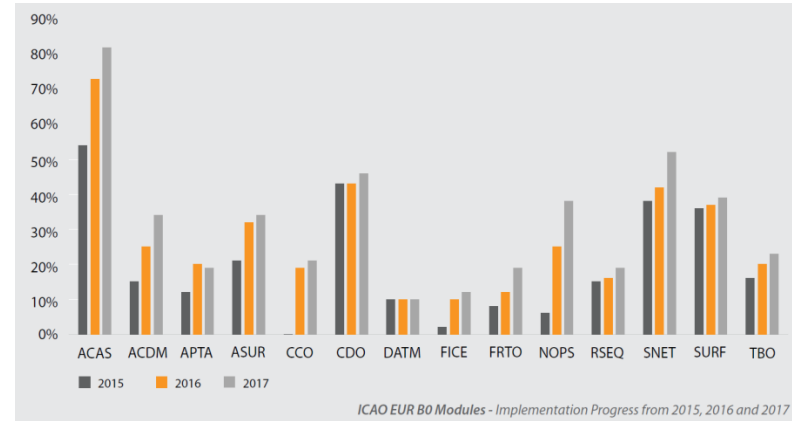
HB-IJL

TURKISH



Examples of EUR/NAT accomplishments

- Monitoring of the GANP/ASBU implementation, **in cooperation with EUROCONTROL** (all 55 States participated in GANP reporting) and annual publication of report for EUR and NAT
- Improved civil-military coordination (Baltic Sea Project Team, EUR Doc 032 & OPS Bulletins, **collaboration with NATO, EDA**)
- Increased PBN implementation - 54 EUR/NAT States developed PBN implementation plans which included also CDO and CCO
- Implementation assistance for new Annex 15 and PANS-AIM



- NAT Data Link Mandate and reduced lateral and longitudinal separation minima
- Implementation of PBCS based operations in the NAT and start of space based ADS-B trials
- EUR Region Search and Rescue Plan (EUR Doc 039) and support of SAREXs
- Increased **Inter-Regional Coordination** with adjacent States from MID and APAC Regions and support to Crisis Coordination Teams in the interface areas (e.g. Afghanistan, Iran, Iraq, Syria, DPRK)
- For 2018, implementation of over 225 ATS Route improvements, 12 major airspace projects in RDGE area and 155 Free Route Airspace projects and airspace optimization measures **in cooperation with EUROCONTROL**



Air Navigation Capacity and Efficiency – 8 key activities

Aligned with GANP &
ICAO 2020-2022 Business
Plan
Regional priorities

Assist States in the implementation of policies and provisions to **OPTIMISE AERODROME AND TMA OPERATIONS**

Assist States in the implementation of policies and provisions on **CNS ENABLERS**

Assist States in the implementation of policies and provisions on **INFORMATION MANAGEMENT AND SWIM**

Assist States in the implementation of policies and provisions on **METEOROLOGY**

Develop and measure progress against **REGIONAL AN PRIORITIES THROUGH REGIONAL AIR NAVIGATION PLANS** and PIRGs

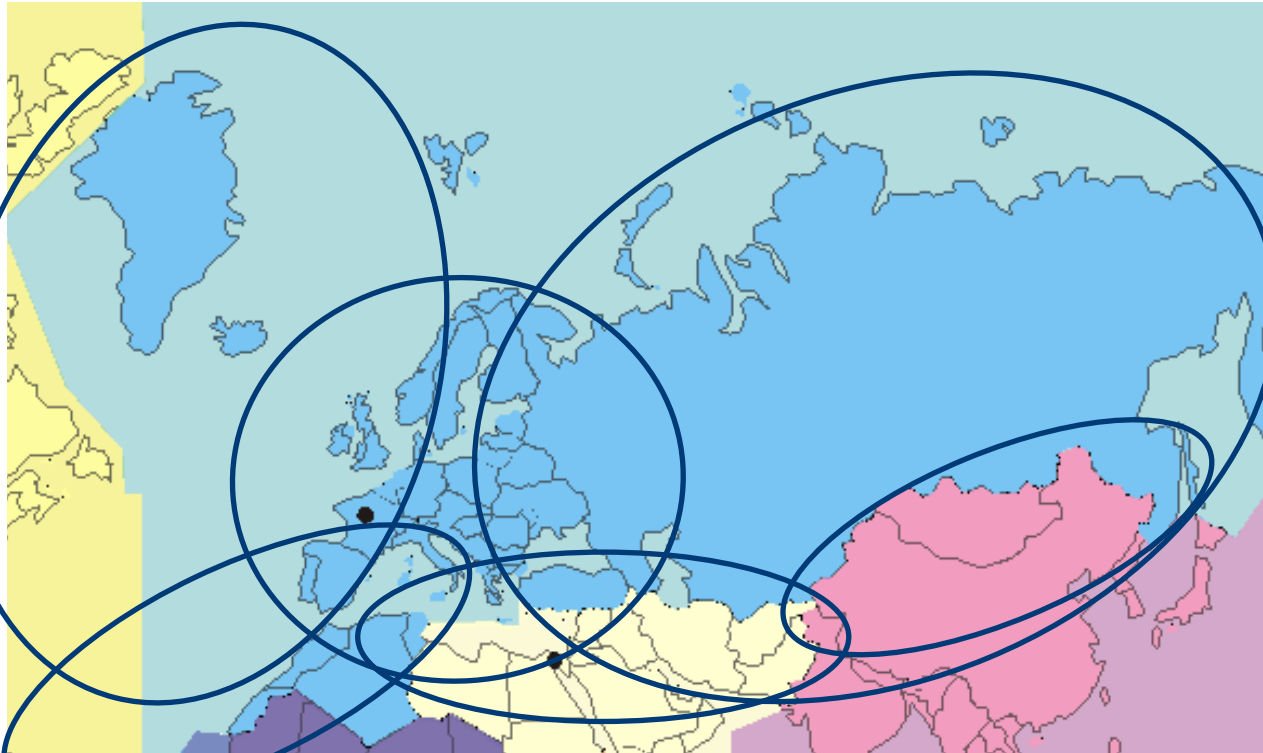
Assist States in the implementation of policies and provisions to improve **EFFICIENCY OF EN-ROUTE OPERATIONS** through the availability of **USER PREFERRED ROUTING**

Coordinate and implement assistance on **TRUST FRAMEWORK**

Support the rapid and coordinated **RESPONSE TO CRISIS**, contingencies and other situations requiring urgent assistance



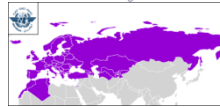
EUR/NAT focus areas



- EUR-ECAC



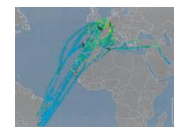
- Eastern part



- NAT



- SAT



- Interface with MID

- Interface with APAC



Air Navigation Capacity and Efficiency

Deliverables

Implementation of prioritized GANP/ASBU B0 and B1 modules in PIA Airport Operations

Indicators & Targets

Percentage (80%) of selected B0 and B1 modules implemented, including RNP APCH at all instrument runways; PBN SID/STARs at all international TMAs; Improved efficiency of surface operations supported

2020-2022 Operating plan

- Support States to further increase of relevant B0 and B1 modules implementation (APTA, CCO, CDO)
- Development of a regional PBN charting implementation transition plan (Circular 353)
- Full implementation of the PBN Chart Naming Convention in EUR/NAT by 2022



Air Navigation Capacity and Efficiency

Deliverables

Regional agreements, decisions and recommendations of regional meetings (AFSG and FMG);

Implementation of priority B0 and B1 modules by 2022;

Workshops/Meetings promoting ICAO ITU WRC position and ICAO WRC position included in the national WRC preparations

Indicators & Targets

Percentage (80%) of implementation of selected B0 and B1 modules;

Number (56) of States supporting the ICAO WRC position at the WRC;

Number (1) of workshops/meetings per year

2020-2022 Operating plan

- Support States to further increase the implementation of AMHS and AIDC/OLDI
- Support transition to SWIM Infrastructure through evolution of AFSG to an AFS/SWIM Infrastructure Task Force (by end of 2019)
- Promote ICAO ITU WRC position and availability of aviation radio frequency spectrum



Air Navigation Capacity and Efficiency

Deliverables

Regional agreements, decisions and recommendations of regional meetings (METG);
World Area Forecast System will bring higher resolution data sets and new data delivery system in support to TBO;
MET information will transition to the ICAO Meteorological Information Exchange Model (IWXXM) in support to SWIM

Indicators & Targets

More accurate information on turbulence and icing;
Spatial resolution of World Area Forecast Centres (WAFC) data sets increased by more than 5 times;
WAFCs data sets provided in more time steps and increase the maximum outlook from current 1.5 days to 5 days;
In EUR Region implementation of IWXXM should approach 100%

2020-2022 Operating plan

- MET information with increased resolution in space and time delivered in a format that supports SWIM and TBO



Air Navigation Capacity and Efficiency

Deliverables

Regional agreements, decisions and recommendations of regional meetings;
AIM assistance missions to States;
Regional and/or Interregional Seminar(s)/Workshop(s) on IM and SWIM;
EUR/NAT SWIM Roadmap developed and implemented

Indicators & Targets

Percentage (80%) Implementation of selected B0 and B1 modules by 2022

2020-2022 Operating plan

- TOD Workshop (Algeria, 29-31 October 2019) (with support of ACAO, EUROCONTROL and DGCA France)
- Interregional AIM Seminar to address Digital Datasets & AIXM Implementation (2020-2021)
- AIM Go-Team missions to address AIM implementation (Proposal: 5 States over 2020-2022)
- Joint ICAO/ACAO AIM Go Teams & National AIM Implementation Workshops (Tunisia, Algeria, Morocco) (2019-2021)



Air Navigation Capacity and Efficiency

Deliverables

Implementation of prioritized GANP/ ASBU B0 and B1 modules in the PIAs Optimum Capacity and Flexible Flights, Efficient Flight Path;

Implementation of user preferred routings (e.g. TBO, free route airspace concept);

Increase the use of ASM and FUA;

PBN is fully implemented in the EUR/NAT Region

Indicators & Targets

Percentage (80%) of implementation of selected B0 and B1 modules;
100 per cent of Implementation of selected B0 modules by 2022;
Regional agreements, decisions and recommendations from regional meetings;
Support to 4 meetings per year

2020-2022 Operating plan

- Further increase of relevant B0 and B1 modules implementation
- Assist in the implementation of Airspace Management enhancements, including civ/mil coordination and FUA
- Support States in the PBN/CDO/CCO implementation
- Prepare for TBO



Air Navigation Capacity and Efficiency & Safety

Deliverables

Annual AN safety reports incl. data from RMAs and ATM occurrences reporting analysis ;
Annual GANP/ASBU implementation reports;
Improved level of GANP/ASBU implementation;
Completed implementation of GANP Block 0 EUR priorities;
Resolution of air navigation deficiencies on the EUR list;
Capacity building projects under the EUR/NAT NCLB Technical Assistance Programme (EUR/NAT TAP)

Indicators & Targets

Timely production of annual EUR and NAT ASBU implementation monitoring reports;
Timely completion of annual EUR Air Navigation Safety reports;
Regional Performance Framework;
56 States participating in provision of annual data for AN Safety and GANP/ASBU reports;
Percentage (50%) of AN deficiencies in the EUR list closed

2020-2022 Operating plan

- Annual reports ready for endorsement by EASPG
- Support States in the resolution of AN deficiencies
- Assist States in the provision of annual data



Air Navigation Capacity and Efficiency & Safety

Deliverables

Implementation of contingency plans (e.g. volcanic ash, nuclear, space weather, ATM outages, communicable diseases, Public Health Emergencies (PHE));

Coordination with international organizations (UN Organizations, ECDC, EU/EC, ECAC etc.);

Develop GAT training material (ITP) for crisis management

Indicators & Targets

States national procedures aligned with regional contingency plans focused on applying the SRA approach;
1 volcanic ash exercise per year west of Ural Mountains;
1 volcanic ash exercise per year east of Ural Mountains;
Development of regional space weather contingency plan;
Participate in various exercises (e.g. WHO, IAEA, EACCC);
Organize/participate in PHE activities

2020-2022 Operating plan

- States apply SRA approach aligned to regional contingency plans
- Percentage (99%) of initial crisis response within 24 hours
- Successful resolution of the issue (90% of the time)
- CAPSCA meetings and exercises.
- EACCC yearly exercise and annual meeting
- Support to CCTs from MID and APAC Region



Air Navigation Capacity and Efficiency

Deliverables

Coordination and implementation assistance on the integration of UAS/RPAS/Drones

Indicators & Targets

All EUR States implemented a regulatory and operational system to support drones operations and prepare for initial UAS/RPAS integration

2020-2022 Operating plan

- Support States in the development and publication of drone regulations
- Host or support regular UAS/RPAS/Drones workshops to share best practices



Air Navigation Capacity and Efficiency & Security

Deliverables

Coordination and implementation assistance on ATM cybersecurity;
Implementation of the ICAO TRUST Framework

Indicators & Targets

Implementation of cyber resilient ATM systems and operations in all EUR/NAT States

2020-2022 Operating plan

- Support States in the ATM cyber activities and the implementation of the ICAO Trust Framework



Future areas of impact for the EUR/NAT Region

- Continued integration of new entrants (e.g. Autonomous UAS, Commercial Space Operations and Supersonic Aircraft Operations)
- Implementation of new operational concepts (operations below 1000ft/UTM, operations above FL 600, formation flights)
- Expansion of RVSM above FL 410
- Introduction of new global operating concepts (e.g. FF-ICE, TBO, PBAOM)



EUR/NAT challenges

- **RVSM non-compliant/non-approved aircraft operations issue**
 - EANPG/60&RASG-EUR/07 Conclusion 06
 - review the USOAP CMA data on EUR States' compliance and provide recommendations, including potential MIRs and inclusion on the EUR list of air navigation deficiencies;
 - investigate possible solutions to implement additional measures to filter, potentially leading to rejection, flight plans for aircraft intending to operate in the RVSM airspace and included on the RMAs' lists of RVSM non-approved and non-compliant aircraft;
 - improve awareness on the access and usage of RMA bulletins as regional best practices.
- **Regional interoperability in an unique complex environment**
 - Align the various developments towards the foundation (GANP) of a worldwide integrated, harmonized and interoperable global air transportation system. This is intended to integrate regional and local ATM systems as well as to interoperate and provide seamless services (across all regions, sub-regions and States) to all users in all phases of flight.



Decision

Draft EURNAT-DGCA Decision 2019/ – Air Navigation Capacity and Efficiency activities for 2020-2022

That the EURNAT-DGCA:

support the key EUR/NAT activities in the area of Air Navigation Capacity and Efficiency in 2020-2022; and

support the proposal for the management of RVSM non-compliant/non-approved aircraft operations with the EUR/NAT Regions.



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