







- ☐ EUR and NAT GANP/ASBU Implementation reports
- EUR and NAT safety performance reports
- □ Air Navigation Deficiencies
- □ Regional Contingency arrangements
- ☐ CAPSCA
- □ Crisis coordination
- □ Performance framework
- ☐ Search and Rescue



EUR and NAT GANP ASBU implementation reports









- ☐ Uses combined data, from the ESSIP/LSSIP mechanism and questionnaire, in order to avoid duplication of reporting from stakeholders
- Gives an overview of the planning dates and implementation progress for the ICAO ASBU Block 0 Modules (15 out of 18 B0 modules) within the ICAO EUR Region during the reporting year 2015



- Following the formal EANPG endorsement, the report has been submitted for inclusion into the annual ICAO Global Air Navigation Report so that the regional developments/deployment actions can be coordinated across the regions and global interoperability can be ensured at the highest level
- ☐ For the 2015 Report, 52 out of 55 States were included into the EUR ASBU Implementation Monitoring Report
- ☐ Has been included into EUR eANP and published as Doc 7754, Vol III

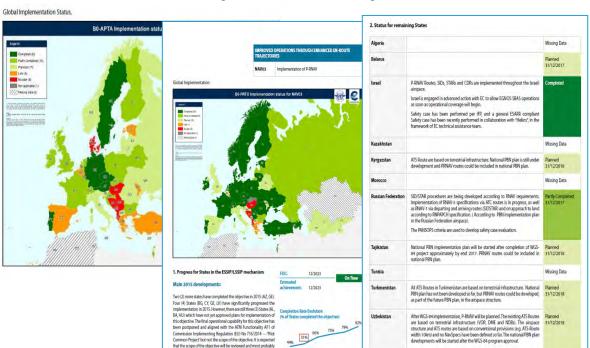








Example: ASBU implementation B0-APTA example



2013 2015 2017 2019 2021 2023

amended to be aligned with the forthcoming Commission PBN Implementing Regulation. According to the EUROCONTROL PRISME Fleet database, 66% of the flights in IFPS zone, had RNAV1 capabilities (all permitted sensors) in 2015.

Outlook for 2018

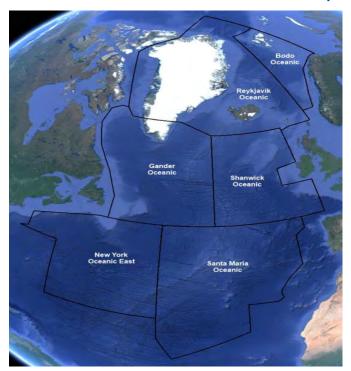
ASBU B0 Module	Number of States foreseen to be Completed by the end of 2018	Not Applicable States	Completion foreseen by the end of 2018 (%) - Excludes States where the module is Not Applicable
ACAS	45	0	87%
APTA	39	1	76%
DATM	47	0	90%
FICE	40	0	77%
SNET	40	0	77%
SURF	30	16	83%
ACDM	27	19	82%
ASUR	24	1	47%
CDO	33	13	85%
FRTO	34	1	66%
NOPS	9	0	18%
RSEQ	22	18	65%
ТВО	32	10	76%



NAT ASBU priorities

NAT priority modules	Progress
FRTO - Reduced longitudinal separation	Phase 1-implemented Phase 2- tbd 2018
FRTO - Reduced lateral separation	Phase 1 – implemented Phase 2 – tbd 2018
TBO - FANS 1/A data link	Phase 1/2a – implemented Phase 2b – Dec 2017
FICE- AIDC	Implemented
ASUR- ADS-B	Ongoing Space based ADS-B CONOPS TBD
OPFL – ITP ADS-B	implemented

NAT ASBU implementation for 2016



Module	Number of fully or partially implemented	Number of N/A	% of implemented with N/A excluded	
ACDM	1	4	25	
APTA	3	2	50	
RSEQ	1	4	25	
SURF	1	4	25	
WAKE	1	5	33	
AMET	6	1	88	
DATM	5	2	83	
FICE	4	3	80	
ACAS	3	4	75	
ASEP	1	5	33	
ASUR	3	2	50	
FRTO	5	2	83	
NOPS	4	2	67	
OPFL 1		5	33	
SNET	5	2	83	
CCO	4	3	80	
CDO	4	3	80	
TBO	5	2	83	



EUR/NAT Air Navigation Safety

- ☐ Regional continuous monitoring mechanisms:
 - EANPG in the EUR Region
 - NAT SPG in the NAT Region
- Annual safety reports based on:
 - Quantitative data through regional monitoring agencies (EUR RMA, EURASIA RMA, NAT CMA)
- Quantitative and qualitative assessment of operational issues (ICAO EUR and NAT technical groups, Eurocontrol EVAIR system)





EUR Air Navigation Safety (2015 data)

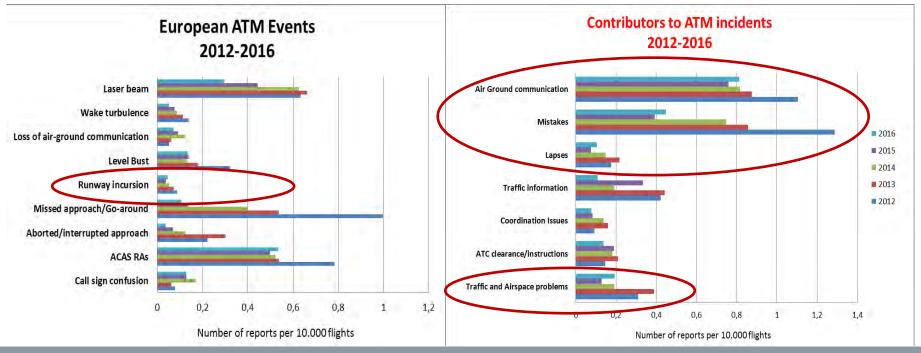
Monitored by 2 Regional Monitoring Agencies (2015 and partly 2016 data)

Safety Objecti ve 1	computed technical vertical collision risk	Meets TLS of 2.5 x 10 ⁻⁹ fapfh
Safety Objecti ve 2	overall vertical collision risk	Meets TLS of 5 x 10 ⁻⁹ fapfh
Safety Objecti ve 3	continuous operations in EUR RVSM have not adversely affected the overall risk of en-route mid-air collision.	Confirmed
Safety Objecti ve 4	all identified have been addressed satisfactorily	Confirmed





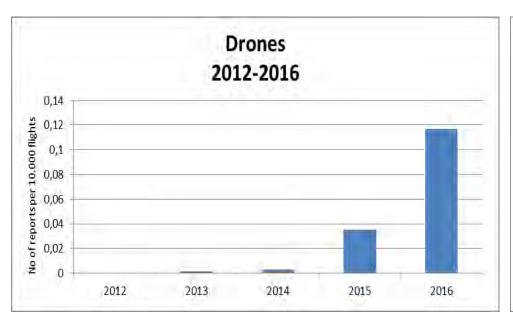
EVAIR (EUROCONTROL Voluntary ATM Incident Reporting) in cooperation with Air Traffic Management Group Eastern Part of the ICAO Region (ATMGE)

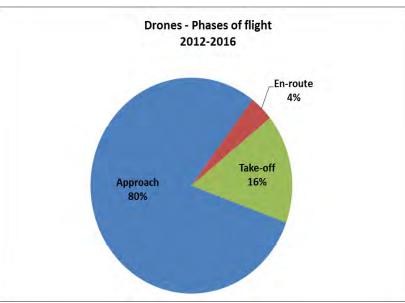






EVAIR Emerging Issues RPAS

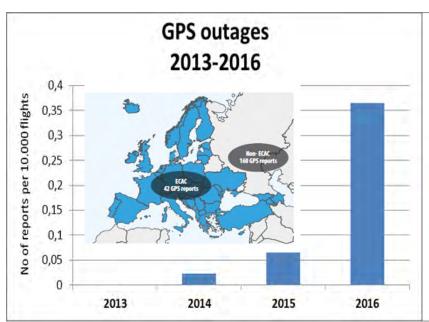


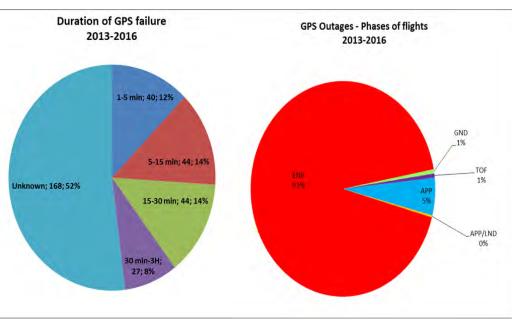






EVAIR Emerging Issues GNSS Outages







NAT Air Navigation Safety (2015 data)

2015 Reported Events		Primary error(s) as defined by the NAT SG
	100	Climb/descent without Air Traffic Control (ATC) clearance (31)
Vertical Large Height Deviations (LHDs)		ATC failure to correctly record, coordinate or follow through on FL changes and/or other clearances (28)
		Aircrew not maintaining level as cleared (20)
	88	Crew error (50)*
		Incorrect transcription of ATC clearance or re-clearance into the FMS (25)*
Lateral deviation < 25 Nautical Mile (NM)		Wrong information faithfully transcribed into the FMS (17)*
		Weather (9)**
		Other (9) * *
		Crew error (8)**
ATC Interventions <i>and</i> Preventions to prevent a Gross Navigation Error (GNE)	137	

	Safety	КРІ	Target	2012 Value	2013 Value	2014 Value	2015 Value
i	Number of hull loss events		0	0	0	0	0
ii	Number of Airborne Collision Avoidance System (ACAS) Resolution Advisory (RA) events		Target not set	1	1	1	1
iii	Number of LHD events involving data link equipped aircraft		1) Not exceeding 85 events per year by 2018 (total LHDs)	422	54	69	73
iv	Number of LHD events involving non data link equipped aircraft		2) Eliminate LD LHD events by end of 2018 (total LHDs)	51	51	323	26
V	Number of minutes that data link equipped aircraft spent at the wrong flight level		Target not set	4904	153	288	116
vi	Number of minutes that non data link equipped aircraft spent at the wrong flight level		Target not set	251	69	315⁵	144
vii	Performance in the vertical dimension against the vertical TLS		5 x 10 ⁻⁹ fapfh	16.8 x 10 ⁻⁹ fapfh ⁶	11.5 x 10 ⁻⁹ fapfh ⁷	15.9 x 10 ⁻⁹ fapfh ⁸	16.4x10 ⁻⁹ fapfh ⁸
viii	Number of GNE events	GNEs ≥ 25 NM	Target not set	6	4	8	6
	involving data link equipped	GNEs ≥ 10 NM < 25 NM	Target not set	9	8	18	23
	aircraft	Total GNEs DL a/c	Target not set	15	12	26	29
ix	Number of GNE events	GNEs ≥ 25 NM	Target not set	22	12	23	4
	involving non data link equipped aircraft	GNEs ≥ 10 NM < 25 NM	Target not set	12	16	24	1
		Total GNEs non DL a/c	Target not set	45	28	47	5
х	Performance in the lateral dimension against the lateral TLS		20 x 10 ⁻⁹ fapfh	0.0 x 10 ⁻⁹ fapfh	0.2 x 10 ⁻⁹ fapfh	0.0 x 10 ⁻⁹ fapfh	0.0 x 10 ⁻⁹ fapfh
xi	Number of losses of separation		Target not set	44	32	42	46



EUR List of Air Navigation deficiencies

- □ A deficiency a facility, service or procedure does not comply with the regional air navigation plan or ICAO SARPs with a negative impact on the safety, regularity and/or efficiency of international civil aviation
- ☐ Complementary to the ICAO USOAP continuous monitoring system
- ☐ Maintained by the EANPG and reported to the ICAO Council and ANC
- ☐ Requires a coordinated action



Defficiency	State(s)
Provision of airspace safety monitoring data	3 States (Algeria, Moldova, Morocco)
Validation of RVSM approvals	7 States (Andorra, Bosnia-Herzegovina, Bulgaria, Croatia, Morocco, Tunisia, Turkmenistan
WGS-84	4 States (Kazakhstan, Tajikistan, Turkmenistan, Uzbekistan)
QMS for AIS	6 States(Bosnia-Herzegovina, Greece, Malta, Kyrgyzstan, Tajikistan, Turkmenistan
Publication of obstacles	4 States (Bosnia-Herzegovina, Bulgaria, fYROM, Ukraine)
Non-adherence to AIRAC cycle	1 State (Kyrgyzstan)



Defficiency	State(s)
Aeronautical Information Publication	1 State (Russian Federation)
eTOD areas 1 and 4	44 States
Aeronautical charts and PANS-OPS	9 States (Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Russian Federation, Uzbekistan, Tajikistan, Turkmenistan)
METAR availability	1 State (Monaco)
WAFS forecasts	5 States (Belarus, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan)
24h TAF	1 State (Tajikistan)
ATS coordination procedure	2 States (Cyprus, Turkey)



Draft EURNAT-DGCA Conclusion 2017/WP/04_1- ICAO EUR list of air navigation deficiencies

That EURNAT-DGCA:

- a) confirm the need to address, as a matter of priority, the air navigation deficiencies identified by EANPG;
- b) urge States to allocate necessary resources to resolve the identified deficiencies by developing and implementing immediate corrective actions and plans;
- c) for similar air navigation deficiencies affecting several States:
 - i. invite States concerned to work in close cooperation with the EUR/NAT Office of ICAO and other partners to develop, within the framework of the ICAO EUR/NAT NCLB programme, a prioritised action plan to address them; and
 - ii. invite States to share their best practices in order to support other States in the EUR Region in the resolution of identified air navigation deficiencies; and
- d) report progress to the next EURNAT-DGCA meeting.



Regional Contingency arrangements



VOLCANIC ASH

- VOLCEX/SG
 - One exercise per year
 - Typically, Iceland every other year that impacts NAT, NW EUR
 - Other years, rotation between Atlantic (Portugal) NAT, SW EUR and Mediterranean (Italy) SE EUR
 - Next exercise: VOLCEX17: 29-30 November 2017 (0800 1600 UTC) Mediterranean States
- EUR (EAST) VOLCEX/SG
 - One exercise per year
 - Kamchatka or N Kurile Islands
 - Impacts trans-east, NOPAC, PACOTS routes
 - Next exercise: VOLKAM17: 20-21 April 2017 (2200 0130 UTC) RF, Japan, U.S. & Canada
- Input from exercise
 - To improve response by NSA; ANSPs ATS, AIS, ATFM, MET and airspace users
 - Update merged EUR/NAT Volcanic Ash Contingency Plan (EUR Doc 019, NAT Doc 006, Part II)





Nuclear

- IACRNE Exercise Manual for ConvEx-3 (2017) objectives
 - Exercise: ConvEx-3 (2017): 21 22 June 2017 Paks, Hungary
 - Objectives for ICAO (as part of Joint Radiation Emergency Management Plan of International Organizations – JPLAN)
 - Test provision by WMO of information received concerning the release of radioactive materials into the atmosphere, in the area for which it maintains watch or adjacent areas, to its associated ACC/FIC
 - Test issuance of SIGMET and NOTAM for radioactive cloud
 - Test notification by VAAC London to ACCs concerned about the release
- Evaluation and exercise report
 - To be reviewed and agreed upon at Fifth Task Group Meeting (TGM) in Vienna in Nov/Dec 2017







CAPSCA-EUR (Collaborative Arrangement for the Prevention and management of public health events in Civil Aviation)







- Objectives: Public health protection ,general public, air travelers and aviation personnel. Assistance to States to establish national aviation pandemic preparedness plans and assure:
- Adherence to Article 14 of the Convention on International Civil Aviation
- Compliance with related ICAO SARPs (Annexes 6, 9, 11 and 14) and Procedures (PANS/ATM)
- WHO IHR (2005) regulations.
- Activities:
- Establishing and maintaining a EUR network of public health and aviation medicine experts. CAPSCA- EUR doubled the number of the participating States during the last two years. Organize, jointly with WHO, annual CAPSCA EUR meetings –expanding to the Eastern Part of Europe.
- Training of airport evaluators, evaluation of airports, development of core capacities, and provision
 of advice to States .CAPSCA EUR is developing the first aviation medicine ICAO Training Package
 (ITP), according to Doc 9941, to standardize the training of ICAO and States experts with the
 support of WHO, and an ICAO Regional Training Centre of Excellence (RTCE).
- Coordination to develop and implement ICAO, WHO, ACI and IATA guidelines.
- Cooperation amongst civil aviation authorities, public health authorities, airports, air traffic services, and airlines, both during preparedness period and crisis.
- There is no membership fee or any associated cost to join and be member of the CAPSCA EUR, All EUR NAT states are welcome and invited to join CAPSCA EUR.



Draft EURNAT-DGCA Conclusion 2017/WP/04_2 – Support to CAPSCA EUR implementation and other activities as deemed necessary

That the EURNAT-DGCA:

- a) commit to support the CAPSCA EUR related activities by allocating necessary resources in order to improve coordinated responses to address health events with the potential to impact the international civil aviation system; and
- b) invite those States not yet members to join the CAPSCA EUR Project and actively participate in its activities.



Crisis Coordination

- ☐ Recommendation 4/8 from the 12th ICAO Air Navigation Conference
- EANPG/56 (24-26 November 2014) endorsed the Crisis Management Framework Document (EUR Doc 031):
- a) Ensures a link to major disruption contingency plans;
- b) Builds on arrangements and experience of the European Aviation Crisis Coordination Cell (EACCC);
- Includes guidance for States for enhancing the level of preparedness to threat scenarios and disruptive events;
- d) Provides a framework for coordination with other crisis management organisations both within the EUR Region and in neighbouring Regions (e.g. MID Region Crisis Coordination Teams).



Draft EURNAT-DGCA Conclusion 2017/WP/04_3 - Support to crisis exercises/arrangements

That EURNAT-DGCA:

- a) commit to support crisis-related activities by allocating necessary resources required in the work of EANPG, NAT SPG and RASG-EUR and their contributory bodies;
- b) invite the ICAO Regional Director, Europe and North Atlantic, on the behalf of the EURNAT-DGCA to remind States, relevant international organizations and operators of the need to continue supporting crisis related preparation activities (e.g. volcanic ash and nuclear emergency exercises) by providing the necessary human and financial resources to plan, conduct and evaluate these exercises.



EUR Regional Performance Framework

- A performance framework for the EUR Region, to improve the performance of the aviation system and identify areas where improvements are possible
- Based on ICAO EUR Doc 030
- ☐ Applicable for the all States within the EUR Region
- Fully aligned with the EU Performance Scheme
- Pre-filled templates prepared by Eurocontrol for their Member States
- ☐ First exercise had low response rate, work in progress
- More detailed EUR performance report expected by the end of 2017

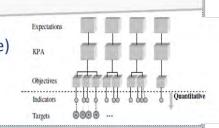
KPA	OBJECTIVES	FOCUS AREAS	INDICATORS
	Ensure safety continuous improvement through reduction		Effectiveness of Safety Management (Safety Maturity Questionnaire)
SAFETY	of ATM related safety occurrences and		Level of State Safety/Just culture (Safety Culture Questionnaire)
	implementation of uniform safety standards		Adoption of an harmonized occurrences severity classification methodology
CAPACITY	Capacity meets demand for en-	En-route ATFM Delay	Average en-route ATFM delay generated by airspace volume
CAPACIIT	route and at airports	Airport ATFM Delay	Average ATFM delay per flight in the main airports (to be identified by States)
EFFICIENCY	Ensure users may use most efficient routes	Horizontal Flight Efficiency	Average horizontal en route flight efficiency (length of the en route part of the actual trajectory/last flight planned route vs great circle)
ENVIRONMENT	Contribute to the protection of environment (fuel/CO2 emissions reduction)		CO2 emissions related to inefficiencies in route extension
COST	Contribute to optimization of costs for ANS	ATCO Productivity	IFR Flights (en-route) per ATCO hour duty
			IFR flight hours per ATCO hour on duty
			IFR movements per ATCO hour on duty
PARTICIPATION BY ATM COMMUNITY	Ensure States' participation to Regional planning and implementation activities		Level of participation to meetings
			Level of responses to planning activities
			Level of provision of performance results





Input

- ICAO framework (ANC, Assembly, etc.)
- EU-ECTL (Single European Sky and Performance Scheme)
- ✓ FAA
- Russian Federation
- ICAO EUR Workshops (Rome, Bishkek, Baku, Madrid)



Pragmatic approach in developing the proposal

Output

- Development of a comprehensive framework
- Identification of 6 KPAs out of 11 ICAO KPAs
- Definition of focus areas, objectives and KPIs
- Definition of Processes, Roles and Responsibilities
- Guidance material



To assess the Regional performance and to identify areas where improvements are possible





Draft EURNAT-DGCA Statement 2017/WP/04_4 - Implementation of the ICAO EUR Region Performance Framework

That in order to ensure comprehensive and mature regional performance reports, the EURNAT-DGCA commit to allocating the necessary resources required to actively participate in the regional performance framework and provide the necessary data in accordance with the EUR Region Performance Framework Document (EUR Doc 030) provisions.



Search and Rescue

- An ICAO European Search and Rescue Task Force (EURSAR/TF)
 - assist States to coordinate the resolution of some common problems/issues in the SAR area;
 - develop an EUR SAR Plan (EUR SAR/TF/2 was presented with the first draft of the EUR Region SAR plan)
 - Search and Rescue Exercises (SAREX).
- □ Cross Border Cooperation initiative
 - A common SAR Agreement sample
- SAR Training efforts to establish internationally recognised SAR Training Centres
- □ Support the Memorandum of Understanding (MoU) on Regional SAR cooperation (involving Bosnia and Herzegovina, Serbia, Slovenia, Slovakia and The former Yugoslav Republic of Macedonia)





