

PA-RAST/31

MAC Team Status
February 2018

List of Detailed Implementation Plans (DIP)

1. Prevention of Level Bust events: adoption of recommendations from Eurocontrol's Action Plan
2. Prevention of Level Bust events: flight crew and ATCO training review (Eurocontrol's Level Bust Toolkit)
3. Callsign Confusion Avoidance: review flight designation processes to avoid communication flaws
4. Human factors: Pilots' Role in Collision Avoidance (incorporation of FAA AC 90-48D recommendations)
5. Radio Discipline: use of standard ICAO phraseology
6. Radio Discipline: avoiding multiple clearances in the same transmission

DIP #1

Prevention of Level Bust events: adoption of recommendations from Eurocontrol's Action Plan

- Reference document:
Eurocontrol's Action Plan for the prevention of Level Busts
- Objective:
Implement recommendations:
 - Update SOPs to reduce likelihood to level busts (e.g. reduce vertical speeds close to the end of climb);
 - Reduce flight deck workload by avoiding all activity not directly related to the safe conduct of the flight;
 - Ensure clear procedures for altimeter cross-checking and approaching level calls;
 - Always confirm the clearance if any doubt exists on the flight deck;
 - Always report the level cleared to when checking in on a new frequency while in the climb or descent.

Category	Leader	Affects
Training / Procedures	Brazil / Costa Rica	Airlines

Actions	Status
Translate BCAST Toolkits to Spanish	Not implemented
Send information to airlines (national level)	Not implemented

https://www.skybrary.aero/index.php/European_Action_Plan_for_the_Prevention_of_Level_Bust

DIP #2

Prevention of Level Bust events: flight crew and ATCO training review (Eurocontrol's Level Bust Toolkit)

- Reference document:
Eurocontrol's Level Bust Toolkit
https://www.skybrary.aero/index.php/Toolkit:Level_Bust
- Objective:
Incorporate the Toolkit's contents into the flight crew and ATCO training programs.
- Strategy:
Adoption by airlines and ANSP information ("top tips") and/or a 30 minute e-learning module.

Category	Leader	Affects
Training / Procedures	Aerocivil Colombia	Airlines / ANSP

Actions	Status
Translation of relevant contents to Spanish	Delayed
Translation of relevant contents to Portuguese	Completed
Recommendation to airlines	In progress
Recommendation to ANSPs	In progress

DIP #3

Callsign Confusion Avoidance: review flight designation processes to avoid communication flaws

- Reference documents:
 - Eurocontrol's Call Sign Similarity (CSS) Service
 - FAA AC 120-26L
- Objective:
Reduce the number of communication flaws related to callsign confusion.
- Strategy:
At national level, gather data and review callsign designation rules.

Category	Leader	Affects
Regulation	BCAST	CAA / ANSP

Actions	Status
Identify patterns	In progress
Implement callsign designation process changes	In progress

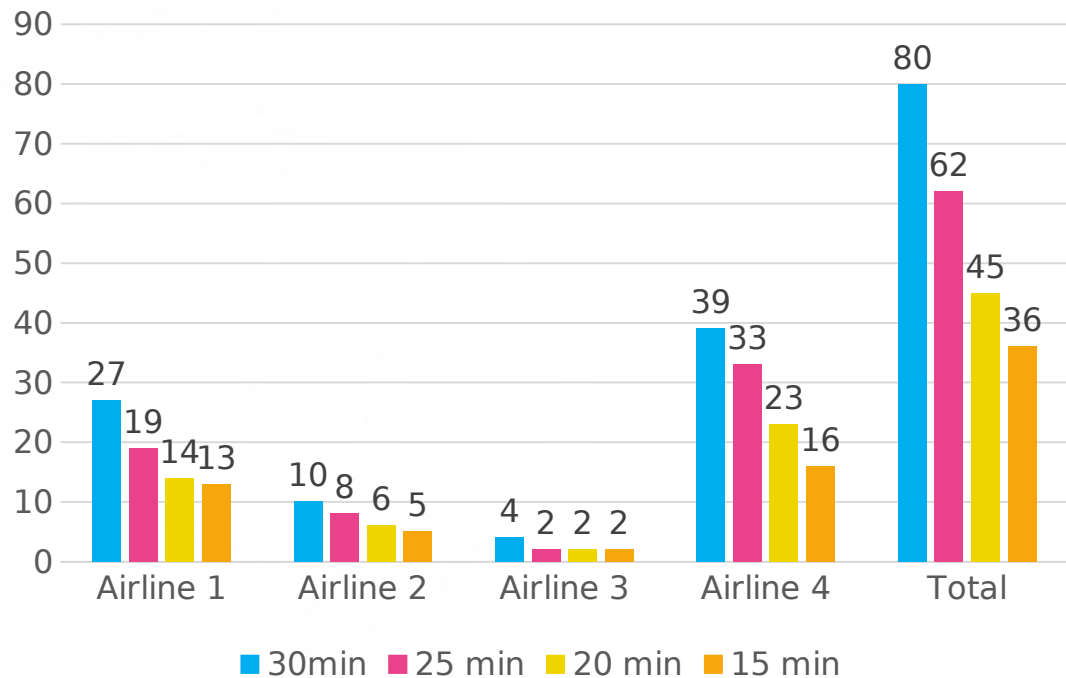
https://www.skybrary.aero/index.php/Call-sign_Confusion

DIP #3

BCAST DIP - Initial numbers

- Evaluation of scheduled flights table (15min initial)
- 4154 flights evaluated, 1317 identified conflicts
 - Format is ZZ1234
 - 100 anagram cases (1234 --- 4312)
 - 36 repetition cases (1333 - 6333)
- Time window variation increased number of repetition cases

Callsign conflicts - repetition cases



DIP #4

Human factors: Pilots' Role in Collision Avoidance (incorporation of FAA AC 90-48D recommendations)

- Reference documents:
 - FAA AC 90-48D
- Objective:
Increase crew awareness of potential MAC and NMAC situations and proactive actions.
- Strategy:
Evaluate pilot awareness of the AC contents.

Category	Leader	Affects
Training / procedures	Brazil / IATA	Airlines (pilots)

Actions	Status
Design survey	Completed
Translate survey to pt_br and es	Completed
Send survey to pilots	In progress (30APR)
Evaluate survey	Target MAY2018

DIP #5

Radio Discipline: use of standard ICAO phraseology

- Reference documents:
 - Eurocontrol's:
 - Action Plan for the Prevention of Level Bust
 - A Quick Reference Guide for Commercial Air Transport Pilots

Category	Leader	Affects
Regulation	TBD	CAA / ANSP

- Objective:
Ensure proper phraseology use, including language review.

Actions	Status
Not implemented	Not implemented

- Strategy:
<under review>

https://www.skybrary.aero/index.php/European_Action_Plan_for_the_Prevention_of_Level_Bust

DIP #6

Radio Discipline: avoid giving multiple clearances in the same transmission

- Reference documents:
 - Eurocontrol's:
 - Action Plan for the Prevention of Level Bust
 - A Quick Reference Guide for Commercial Air Transport Pilots

Category	Leader	Affects
Training / Procedures	TBD	CAA / ANSP

- Objective:
Avoid communication mishaps.

Actions	Status
Not implemented	Not implemented

- Strategy:
 - To further implement the “Top Tips” in actual training - under review

https://www.skybrary.aero/index.php/European_Action_Plan_for_the_Prevention_of_Level_Bust

Thank you!



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