

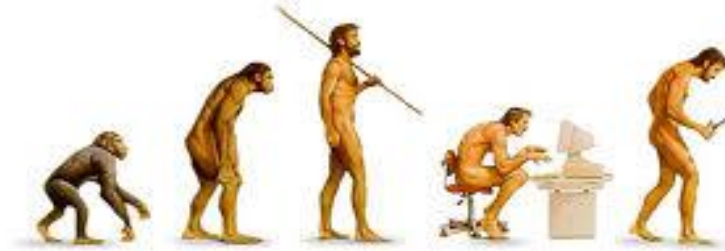
Mid-Air Collision SET Status & Next Steps

PA-RAST/25, Bogotá, 6 – 8 September 2016



MAC Team Status

- History



- **3 June 2016:** MAC Team's kick-off;
- **7 June 2016:** Proposed working plan, presenting MAC Team's objective, reasons to start developing MAC DIPs for CAR/SAM Region, Membership list, preliminary working plan based on 7-Step methodology;
- **15 June 2016:** First group meeting (Webconference);

MAC Team Status

- History (cont.)
 - **30 June 2016:** Refined working plan, presenting a reactive and a proactive approach to develop DIPs;
 - **28 July 2016:** Proposal to choose Colombia as first pilot for DIP cycle (reactive approach), first list of candidate DIPs based on existing recommendations (proactive approach) and follow-up on pending issues;
 - **6-8 September 2016:** PA-RAST/25, Colombia.

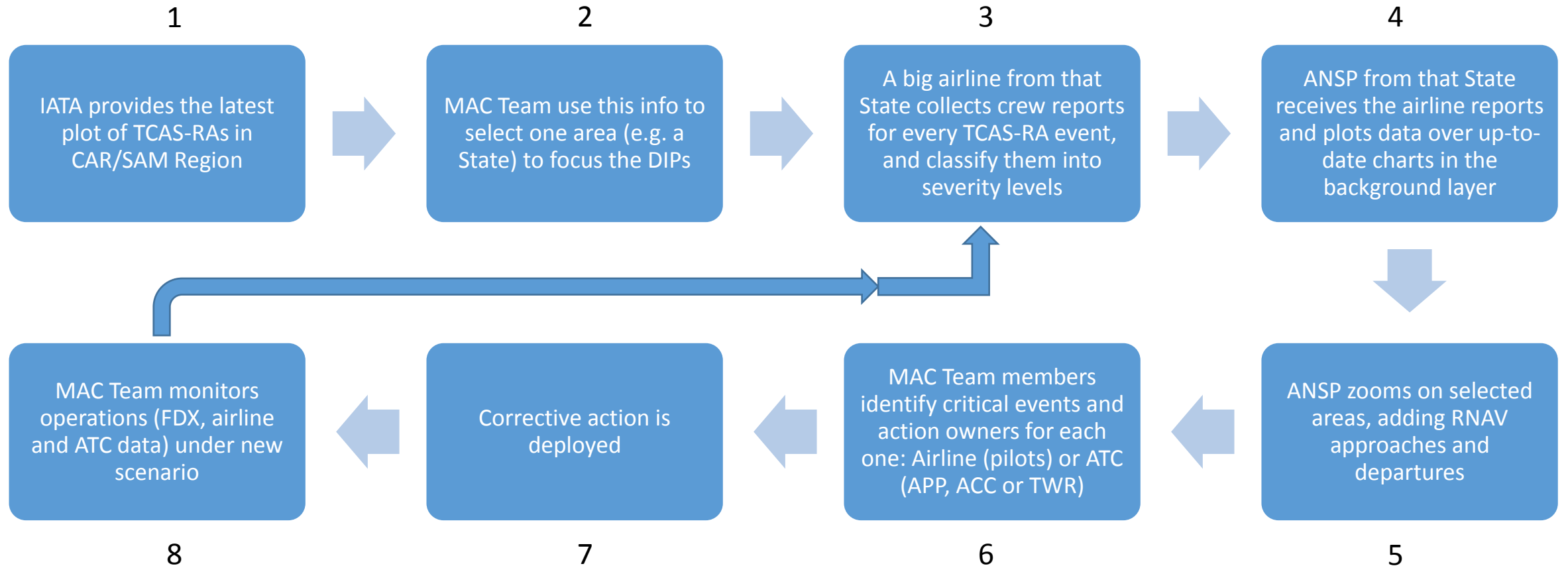
MAC Team Membership



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Rep 1	American Airlines	?
Rep 2	COPA	?

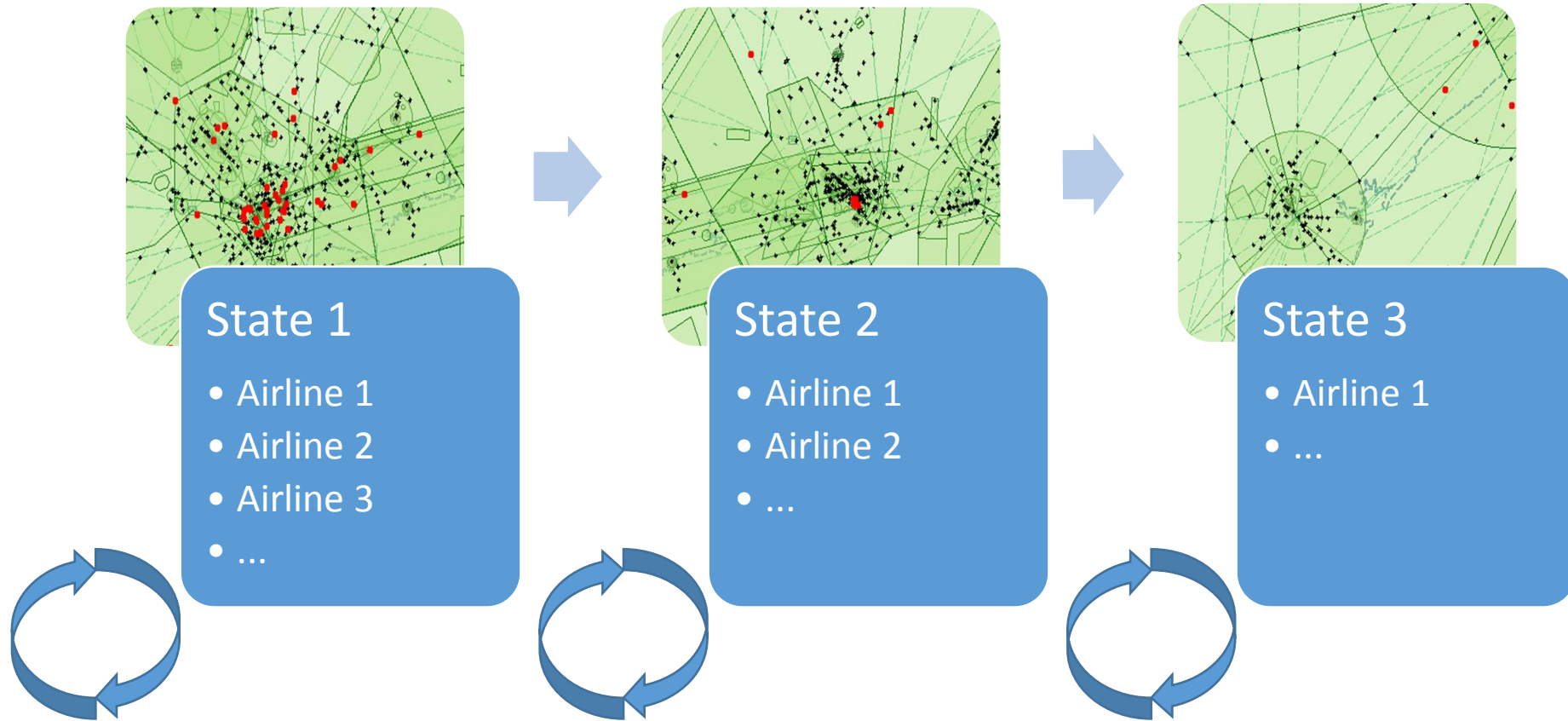
APPROACH 1

MAC DIP Cycle (Reactive Approach)



APPROACH 1

Running the Cycle



APPROACH 2

Internalize Existing Recommendations (Proactive Approach)



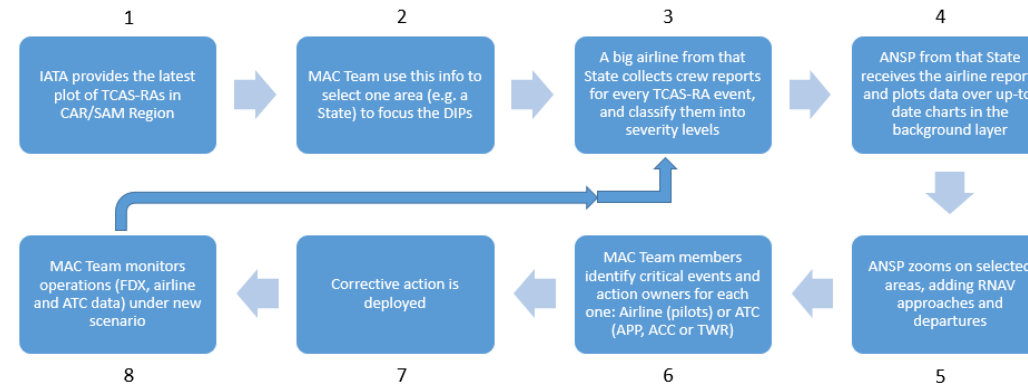
Candidate DIPs for Immediate Development					
Item	Subject	Category	Affected Stakeholder(s)	Reference Material	MAC Team Champ
1	Implement the following recommendations: - Update SDPs to reduce likelihood to level busts (e.g. reduce vertical speeds close to the end of climb); - Reduce flight deck workload 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.	Training/Procedures	Airlines	Eurocontrol's "Action Plan for the Prevention of Level Bust" (file: ActionPn.pdf)	TBD
2	Incorporate Eurocontrol's Level Bust Toolkit (30 minute e-learning module and Top Tips) into the flight crew and ATCO training programs.	Training/Procedures	Airlines / ANSPs	Eurocontrol's "Level Bust Toolkit" http://www.skybrary.aero/index.php/Toolkit:LevelBust (file: Top Tips.pdf)	TBD
3	Verify current Call Sign designation rules and update them according to best practices, preventing communication flaws.	Regulation	National CAAs / ANSPs	Eurocontrol's "Call Sign Similarity Rules" and BCAS's MAC Team DIP	TBD
4	Incorporate AC90-48D (Pilot's Role in Collision Avoidance) content into the flight crew training programs.	Training/Procedures	Airlines	FAA AC90-48D (file: AC_90-48D_CHG_1.pdf)	TBD
5	Radio Discipline: use standard ICAO phraseology.	Regulation	National CAAs / ANSPs	Eurocontrol's "Action Plan for the Prevention of Level Bust", A Quick Reference Guide for Commercial Air Transport Pilots (PhraseologyManual.pdf)	TBD
6	Radio Discipline: avoid giving multiple clearances in the same transmission	Training/Procedures	National CAAs / ANSPs	Eurocontrol's "Action Plan for the Prevention of Level Bust", Top 5 Tips (TT4.pdf)	TBD

Next Steps - Proposal

- Run APPROACH 1 and APPROACH 2 in parallel;



APPROACH 1



- Establish a dedicated group in Colombia composed by local Stakeholders, supported by PA-RAST;
- Team Champion should be from Colombia (e.g. Aeronáutica Civil, a Colombian airline, etc);
- After start of activities, the evolution should be continuously reported at PARAST's MAC Team Webconferences.

Next Steps - Proposal

APPROACH 2

Candidate DIPs for Immediate Development					
Item	Subject	Category	Affected Stakeholder(s)	Reference Material	MAC Team Champ
1	Implement the following 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 callt - 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	Training/Procedures	Airlines	Eurocontrol's "Action Plan for the Prevention of Level Bust" (file: ActionPlan.pdf)	TED
2	Incorporate Eurocontrol's Level Bust Toolkit (30 minute e-learning module and Top Tips) into the flight crew and ATCO training programs.	Training/Procedures	Airlines / ANSPs	Eurocontrol's "Level Bust Toolkit" http://www.skybrary.aero/index.php/ToolKit/LevelBust (file: Top_Tips.pdf)	TED
3	Verify current Call Sign designation rules and update them according to best practices, preventing communication errors.	Regulation	National CAAs / ANSPs	Eurocontrol's "Call Sign Similarity/Pilot" and BCAS's MAC Team DIP	TED
4	Incorporate AC30-48D (Pilot's Role in Collision Avoidance) content into the flight crew training programs.	Training/Procedures	Airlines	FAA AC30-48D (file: AC_30-48D_CFR_1.pdf)	TED
5	Radio Discipline: use standard ICAO phraseology.	Regulation	National CAAs / ANSPs	Eurocontrol's "Action Plan for the Prevention of Level Bust", A Quick Reference Guide for Commercial Air Transport Pilots (P/raedopg/Manual.pdf)	TED
6	Radio Discipline: avoid giving multiple clearances in the same transmission.	Training/Procedures	National CAAs / ANSPs	Eurocontrol's "Action Plan for the Prevention of Level Bust", Top 5 Tips (TT4.pdf)	TED
Note: Many other DIPs should arise during the execution of the Reactive Approach Cycle in each State/Region.					

- MAC Team to agree upon which set of recommendations available can be transformed into DIPs (Breakout Session);
- Champions to be assigned for each one of the DIPs;
- Evolution to be continuously reported at PARAST's MAC Team Webconferences.

QUESTIONS / COMMENTS?



THANK YOU / OBRIGADO / GRACIAS

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