CAR REGIONAL ADS-C/CPDLC IMPLEMENTATION WORKSHOP

Regional Implementation of Automatic Dependent Surveillance – Contract (ADS-C) and Controller–Pilot Data Link Communications (CPDLC) in the CAR Region

9–11 November 2026
ICAO NACC Regional Office, Mexico City, Mexico
Bilingual Workshop – English/Spanish

Workshop Objectives

1. Establish a common operational and technical understanding of ADS-C/CPDLC.
2. Assess the specific implementation needs of Mexico, COCESNA, Curaçao, and Trinidad and Tobago.
3. Identify operational, technical, interoperability, safety, regulatory, and training gaps.
4. Define the initial elements of a coordinated CAR regional implementation approach.
5. Agree on the scope and coordination of the next phases, including the proposed technical mission to Oakland, implementation-support mission to Mexico, regional documentation, regional training programme, and coordination mechanisms for deployment.
6. Provide input for the CAR ADS-C/CPDLC Assessment Report, Concept of Operations (CONOPS), Implementation Roadmap, training programme, and future technical assistance activities.

DAY 1 – MONDAY, 9 NOVEMBER 2026

ADS-C/CPDLC Operational Concept and Regional Requirements

Time	Session	Main Topics / Lead
09:30–10:00	Registration	Participant registration.
10:00–10:30	Opening Session	Welcome remarks; introduction of participants; workshop objectives, expected outcomes, organization and methodology. **Open Remarks: Mr. Julio Cesar Siu/Deputy Director NACC** Lead / Participants: ***ICAO: Mayda Ávila*** *Presentation No 1: CAR Regional ADS-C/CPDLC Implementation Workshop Methodology*
10:30–10:50	ICAO Provisions and Implementation Requirements	Applicable ICAO provisions and guidance; PBCS; FANS 1/A environment Lead / Participants: ***ICAO: Eddian Mendez*** *Presentation No 2: ICAO Documentation Supporting ADS-C and CPDLC Implementation.*
10:50–11:20	CAR Regional ADS-C/CPDLC Implementation Initiative	ICAO NACC: regional background and operational need; GANP/ASBU and NACC/WG context; project objectives, phases, deliverables and subsequent activities. Lead / Participants: ***ICAO: Mayda Ávila*** *Presentation No 3: ADS-C & CPDLC-GANP V8*
11:20–11:40	Coffee Break	

Time	Session	Main Topics / Lead
11:40–12:10	ADS-C and CPDLC Operational Concept	ICAO: fundamentals; complementary functions; operational use; controller–pilot interaction; voice versus data link; oceanic, remote and continental applications; benefits, limitations and typical scenarios. Lead / Participants: ***ICAO: Josué González*** *Presentation No 4: Controller–Pilot Data Link Communications*
12:10–12:40	ICAO Provisions, System Architecture and Implementation Requirements	**Global Operational Data Link (GOLD) Manual** Doc 10037 (GOLD) Lead / Participants: ***ICAO: Mayda Ávila*** *Presentation No 5: Global Operational Data Link (GOLD) Manual*
12:40–14:00	Lunch	
14:00–15:00	Mexico/SENEAM – Status and Implementation Needs	Mazatlán Oceanic FIR requirements; implementation status; May 2026 Oakland visit lessons; infrastructure; technical/operational gaps; training; priorities, timeframe and required support. Lead / Participants: ***Mexico/SENEAM: Alberto Romero Flores, Uriel González*** *Presentation No 6: ADS-C/CPDLC Implementation Progress and Current Status in Mexico*
15:00–16:00	COCESNA – Status, Experience and Regional Needs	Current capability and architecture; implementation experience; lessons learned; adjacent FIR interfaces; interoperability; gaps, future needs and opportunities to support regional implementation. Lead / Participants: ***COCESNA: Héctor Lee*** *Presentation No 7: ADS-C/CPDLC Implementation Progress and Current Status in COCESNA*

DAY 2 – TUESDAY, 10 NOVEMBER 2026

State Needs and Technical/Operational Implementation

Time	Session	Main Topics / Lead
08:30–09:30	Curaçao – Status and Implementation Needs	Current CNS/ATM environment; operational characteristics; data-link capabilities; infrastructure and automation; gaps; training; adjacent FIR interoperability; assistance and priorities. Lead / Participants: ***Curaçao: Timothy Bregita*** *Presentation No 8: ADS-C/CPDLC Implementation Progress and Current Status in Curacao*
09:30–10:30	Trinidad and Tobago – PIARCO FIR Requirements	Operational environment; oceanic/remote requirements; CNS capabilities; ADS-C/CPDLC needs; technical/operational gaps; interoperability; training and required assistance. *Lead / Participants:* ***Trinidad and Tobago: Riaaz Mohammed and Rohan Garib*** *Presentation No 9: ADS-C/CPDLC Implementation Progress and Current Status in Trinidad and Tobago.*
10:30-11:00	Coffee	

Time	Session	Main Topics / Lead
11:00–12:00	United States/FAA Experience and Lessons Learned	Oakland ARTCC experience; operational and technical lessons; training; testing/validation; adjacent FIR coordination; CAR-applicable best practices. Lead / Participants**: United States/FAA: Michael McManus and Gregory L. Kalla** *Presentation No 10: ADS-C/CPDLC Implementation experience and lesson learned in United States.*
12:00–12:30	Technical Requirements for Implementation	ICAO/SMEs: ground systems; communication service provision; aircraft capabilities; infrastructure; interfaces; redundancy; recording/monitoring; cybersecurity; testing and validation. Lead / Participants: ***ICAO: Mayda Ávila*** *Presentation No 11: ADS-C / CPDLC implementation checklist*
12:30–14:00	Lunch	
14:00–14:30	ADS-C Operational Procedures and Applications	ICAO: periodic, event and demand contracts; reporting parameters; operational use; surveillance applications; monitoring and contingency arrangements. Lead / Participants: ***ICAO: Josué González*** *Presentation No 12: ADS-C and CPDLC - data link in practice*
14:30–16:00	Regional Interoperability and FIR-to-FIR Coordination – Roundtable	Mexico, COCESNA, Curaçao, Trinidad and Tobago, FAA/United States and ICAO: cross-FIR operations; transfer of communications; data-link continuity; interoperability; harmonized procedures; LOAs; contingencies; potential trials and priority scenarios. *Lead / Participants**: Roundtable: Alberto Romero Flores, Hector Lee, Timothy Bregita, Riaazz Mohamed, Rohan Garib, Michael McManus, Gregory L. Kalla, Mayda Ávila, Josué González and Eddian Méndez*** ***Summary of the two days discussion***

DAY 3 – WEDNESDAY, 11 NOVEMBER 2026

Regional Roadmap, Future Activities and Coordination

Time	Session	Main Topics / Lead
08:30–09:00	Review of Days 1 and 2	Objectives for Day 3. Lead / Participants: ICAO: Mayda Ávila
10:00–10:30	Consolidated Regional Gap Analysis	***Session discussion***: Part 1: ICAO: current/target capabilities; common technical and procedural gaps; training; safety/regulatory requirements; interoperability dependencies; external assistance and priorities. Lead / Participants: ***ICAO: Mayda Ávila, Josué González and Eddian Méndez***
10:30–11:00	Coffee Break	
11:00–12:40	Priority Regional Operational Scenarios and	***Session discussion***:

Time	Session	Main Topics / Lead
	Implementation Roadmap	Part 2: Mexico/Mazatlán Oceanic FIR; COCESNA; PIARCO; Curaçao; U.S. and other CAR interfaces; pilot implementations; dependencies; testing/validation; indicative implementation sequence. Lead / Participants: **All participating delegations**
12:40–14:00	Lunch	
14:00–14:30	Activity 2 – Proposed Technical Mission to Oakland	***Session discussion***: Part 3: Agree objectives/scope; May 2026 SENEAM lessons; operational exposure for Curaçao, Trinidad and Tobago and COCESNA SMEs; best practices; interoperability, training and operational requirements; participants/focal points; tentative timeframe; deliverables and dissemination. Lead / Participants**: ICAO and United States/FAA: Josué González, Michael McManus and Gregory L. Kalla**
14:30–15:00	Activity 3 – Proposed Technical Mission to Mexico	***Session discussion***: Part 4: Agree scope of U.S./FAA SME support to SENEAM; validate operational procedures; review technical/system aspects; testing and readiness; remaining issues; participants; tentative timeframe; deliverables. Lead / Participants: **Mexico/SENEAM and United States/FAA: Alberto Romero Flores, Michael McManus and Gregory L. Kalla**
15:00–15:15	Activity 4 – Regional Documentation and Capacity Building	***Session discussion***: Part 5: Agree scope/structure and responsibilities for: ADS-C/CPDLC Assessment Report; CAR CONOPS; Regional Implementation Roadmap; Regional Training Programme. Lead / Participants***: ICAO: Josué González and Eddian Méndez***
15:15–15:30	Facilitated Discussion	***Session discussion***: Part 6: ICAO: common requirements; initial regional gaps; comparison of operational environments; technical discussion; issues requiring further analysis. Lead / Participants**: ICAO: Eddian Méndez, Josué González**
15:30–16:00	Final Coordination, Action Plan, Conclusions and Closing	Agree follow-up activities; focal points; responsibilities; Oakland and Mexico mission preparation; documentation review; information-sharing mechanism; virtual coordination; milestones; reporting to NACC/WG and GREPECAS; additional support needs. Lead / Participants: ICAO: all delegations

Expected Workshop Outputs

1. State/ANSP Needs and Regional Gap Assessment

Individual needs assessments for Mexico, COCESNA, Curaçao, and Trinidad and Tobago; consolidated operational, technical, safety, interoperability and training gaps; common and State/FIR-specific requirements.

2. Priority Regional Operational Scenarios

Priority FIR-to-FIR scenarios; potential pilot initiatives; initial interoperability/coordination requirements; requirements for harmonized procedures and, where appropriate, LOAs.

3. Technical Mission to Oakland

Agreed objectives and preliminary scope; ICAO ATM/CNS participation and SMEs from Curaçao, Trinidad and Tobago and COCESNA; areas to review with FAA/Oakland; operational exposure and knowledge transfer; interoperability/training/operational issues; tentative timeframe; responsibilities; mission outputs and follow-up.

4. Technical Mission to Mexico

Agreed scope of FAA/U.S. SME support to SENEAM; procedures requiring validation; technical and operational readiness issues; final implementation support; remaining issues before operational deployment; tentative timeframe, experts and responsibilities.

5. CAR ADS-C/CPDLC Implementation Assessment Report

Agreed scope and structure; required State/ANSP inputs; preparation/review responsibilities; proposed completion timeframe.

6. CAR Region ADS-C/CPDLC Concept of Operations (CONOPS)

Agreed initial structure; priority operational scenarios; roles/responsibilities; interoperability and architecture; operational, contingency and transition considerations; development responsibilities and timeline.

7. Regional ADS-C/CPDLC Implementation Roadmap

Initial priorities; implementation phases and sequence; testing/validation; pilot opportunities; indicative milestones toward operational deployment and regional expansion.

8. Regional Training Programme

Training requirements for controllers, technical personnel and supervisors; knowledge transfer and Training-of-Trainers opportunities; potential FAA, ICAO and State/ANSP contributions; initial harmonized programme approach.

9. Regional Coordination Mechanism

Confirmed focal points; coordination among ICAO NACC, FAA, Mexico, COCESNA, Curaçao and Trinidad and Tobago; technical information exchange; follow-up virtual meetings; progress monitoring and reporting to NACC/WG and GREPECAS.

10. ADS-C/CPDLC Regional Action Plan

A consolidated action matrix to serve as the principal coordination mechanism for the next phases of the CAR regional implementation initiative.

Proposed Action Plan Matrix

Activity	Action / Deliverable	Lead	Supporting Parties	Target Date	Follow-up / Status