



ICAO

International Civil Aviation Organization

Sixteenth Meeting of the FANS Interoperability Team – Asia
(FIT-Asia/16)

Bangkok, Thailand, 09 – 11 June 2026

Agenda Item 4: Review of ADS-C/CPDLC Operations and Performance

DATA LINK PERFORMANCE REPORT FOR SRI LANKA

(Presented by Sri Lanka)

SUMMARY

This paper presents data link performance of the ADS-C/CPDLC data in Colombo FIR (VCCF) for the period January – December 2025.

1. INTRODUCTION

1.1 **Tables 1 to 4** summarize Automatic Dependent Surveillance – Contract (ADS-C) and Controller-Pilot Data Link Communications (CPDLC) performance where the Required Surveillance Performance (RSP) and Required Communications Performance (RCP) criteria stipulated in ICAO Doc 4444 – Procedures for Air Navigation Services – Air Traffic Management (PANS-ATM).




1.2 Media type data (SATCOM/VHF/HF) and Aircraft operator/type data were presented from January to December 2025.

2. DISCUSSION

VCCF FIR ADS-C RSP180 Performance – Media Type, RGS and GES

2.1 **Table 1** summarizes overall ADS-C performance per media type, Remote Ground Station (RGS) and Ground Earth Station (GES) for downlinks sent within the VCCF FIR during 2025, where overall messages met RSP180 95% criterion but marginally fall below the RSP180 99.9% criterion.




Table 1: VCCF FIR ADS-C Downlink Latency per Media Type, RGS and GES

FIR		VCCF					
Criteria		RSP180					
Period		Jan-June 2025			July-December 2025		
Colour Key  Meets Criteria  99.0%-99.89%  Under Criteria	Message Counts	95%	99.90%	Message Counts	95%	99.90%	
		% <= 90sec	% <= 180sec		% <= 90sec	% <= 180sec	
By Media Type							
SATCOM	428252	98.24%	99.77%	417719	97.96%	99.65%	
VHF	113006	99.70%	99.90%	99113	99.68%	99.84%	
HF	-	-	-	-	-	-	
ALL	541258	98.54%	99.79%	516832	98.29%	99.68%	
By Remote Ground Station (RGS) Ground Earth Station (GES)							
Designator	Type	(only RGS/GES with message counts >100 recorded)					
APK1	SAT	185155	99.44%	99.91%	197898	99.25%	99.80%
APK2	SAT	8192	96.58%	99.24%	11350	92.51%	97.36%
EUA1	SAT	8371	96.34%	99.64%	6517	93.66%	99.02%
IGW1	SAT	45752	91.76%	99.04%	46190	94.08%	99.44%
IORS	SAT	67460	98.08%	99.66%	69349	96.57%	99.41%
XXA	SAT	15814	98.94%	99.73%	6786	99.00%	99.90%
XXI	SAT	97508	99.29%	99.96%	79629	99.23%	99.94%
CMB1	VHF	81499	99.73%	99.89%	75555	99.67%	99.81%
MAA	VHF	2201	98.14%	99.27%	1352	98.96%	99.93%
MAA1	VHF	664	98.95%	99.85%	377	99.20%	100.00%
MLE1	VHF	317	100.00%	100.00%	335	96.72%	97.91%
TRV	VHF	10596	99.66%	99.91%	9755	99.76%	99.92%
TRV1	VHF	17729	99.84%	99.99%	11739	99.86%	99.96%

VCCF FIR ADS-C RSP180 Performance – Aircraft Operator/Type

2.2 **Table 2** summarizes overall ADS-C performance per Aircraft Operator/Type for downlinks sent within the VCCF FIR during 2025.

Table 2: VCCF FIR ADS-C Downlink Latency per Aircraft Operator/Type

FIR		VCCF					
Criteria		RSP180					
Period		Jan-June 2025			July-December 2025		
Colour Key  Meets Criteria  99.0%-99.89%  Under Criteria	Message Counts	95%	99.90%	Message Counts	95%	99.90%	
		% <= 90sec	% <= 180sec		% <= 90sec	% <= 180sec	
By Aircraft Operator / Type (only message counts >100 recorded)							
AIC/B788	4965	99.36%	99.96%	2063	99.03%	99.61%	
ALK/A20N	5741	99.53%	99.95%	5307	97.29%	98.93%	
ALK/A21N	10336	99.09%	99.60%	12179	97.32%	98.72%	
ALK/A320	2392	97.91%	99.75%	1817	97.08%	99.56%	
ALK/A332	4247	99.39%	99.81%	5016	99.80%	99.88%	

ALK/A333	17345	99.78%	99.95%	13280	95.15%	97.90%
CES/A332	7787	99.60%	99.76%	6071	99.92%	99.98%
CPA/A333	3965	94.93%	98.69%	4580	96.07%	99.19%
CPA/A359	5419	99.82%	99.89%	6198	99.81%	99.89%
ETD/A321	2687	99.93%	100.00%	2450	99.84%	100.00%
ETD/B77W	5641	99.47%	99.89%	4463	98.97%	99.80%
ETD/B789	24933	99.61%	99.94%	19229	99.67%	99.92%
ETD/B78X	3449	99.86%	99.97%	4923	99.72%	100.00%
ETH/B788	2378	98.78%	99.83%	2236	98.79%	99.78%
GIA/A333	8431	99.88%	99.98%	4513	99.78%	100.00%
GIA/B77W	37453	99.33%	99.94%	24917	99.49%	99.94%
LNI/A333	11606	98.79%	99.72%	13955	99.56%	99.86%
LNI/A339	11333	99.81%	100.00%	13642	99.91%	100.00%
MAS/B38M	17705	93.26%	99.64%	10118	94.88%	99.82%
MAS/B738	12165	97.57%	99.72%	14517	98.47%	99.82%
OMA/B789	5665	99.75%	100.00%	5134	99.53%	99.94%
QFA/A332	8113	99.74%	100.00%	5473	99.20%	99.98%
QFA/A333	2208	99.37%	99.91%	227	100.00%	100.00%
QFA/B789	13564	99.53%	99.82%	11522	99.86%	100.00%
QTR/A333	1109	99.91%	100.00%	1177	99.15%	99.24%
QTR/A359	16604	99.69%	99.81%	15116	99.59%	99.82%
QTR/A388	10011	99.00%	99.32%	4439	99.05%	99.35%
QTR/B77L	4799	93.14%	98.75%	9132	94.65%	99.50%
QTR/B77W	37980	97.79%	99.65%	30968	97.32%	99.58%
QTR/B788	3328	99.67%	99.97%	2953	99.76%	99.97%
QTR/B789	3515	99.91%	100.00%	3588	99.75%	99.92%
REU/B77W	3992	99.00%	99.95%	3151	98.35%	99.65%
SIA/A359	17206	99.29%	99.44%	15897	98.57%	98.83%
SIA/B38M	14397	94.64%	99.49%	10192	95.78%	99.59%
SIA/B77W	1069	97.75%	100.00%	8112	96.34%	99.91%
SIA/B78X	13016	99.78%	99.95%	9733	99.64%	99.83%
SVA/A333	8378	99.01%	99.64%	925	98.16%	99.57%
SVA/B77W	34247	99.14%	99.95%	26487	99.37%	99.98%
SVA/B78X	6772	99.87%	99.99%	4607	99.87%	100.00%
TGW/A21N	7802	90.34%	97.77%	11674	93.92%	99.08%
THY/A333	3266	99.36%	99.66%	2347	99.36%	99.79%
THY/A359	6755	99.91%	100.00%	6143	99.67%	99.87%
UAE/A359	1232	99.84%	100.00%	3167	99.65%	99.75%
UAE/A388	65419	99.65%	99.93%	40861	99.69%	99.95%
UAE/B77L	11337	98.99%	99.88%	7396	98.89%	100.00%
UAE/B77W	27238	98.57%	99.96%	23234	98.49%	99.93%

VCCF FIR CPDLC RCP240 Performance – Media Type, RGS and GES

2.3 **Tables 3A and 3B** summarize overall CPDLC performance per Media Type messages sent within the VCCF FIR during 2025, where performance met RCP240 95% criterion but unable to meet 99.9% criterion.

Table 3A : VCCF FIR CPDLC Performance Latency per Media Type, RGS and GES – January-Jun 2025




FIR		VCCF				
Criteria		RCP240				
Period		Jan - Jun 2025				
Colour Key  Meets Criteria  99.0%-99.89%  Under Criteria	Message Counts	95% benchmark		99.9% Benchmark		
		ACP	ACTP	ACP	ACTP	
		% <= 180sec	% <= 120sec	% <= 210sec	% <= 150sec	
By Media Type						
SATCOM	31028	99.05%	99.11%	99.36%	99.49%	
VHF	515	99.81%	100.00%	99.81%	100.00%	
HF	-	-	-	-	-	
ALL	31543	99.06%	99.13%	99.37%	99.50%	
By Remote Ground Station (RGS) Ground Earth Station (GES)						
Designator	Type	(RGS/GES with message counts >100)				
APK1	SAT	14941	99.82%	99.87%	99.85%	99.93%
APK2	SAT	746	98.39%	98.93%	99.06%	99.46%
IGW1	SAT	4128	95.47%	95.25%	96.95%	97.31%
IOR5	SAT	4896	98.98%	99.26%	99.43%	99.61%
XXA	SAT	804	99.75%	99.75%	99.75%	99.88%
XXI	SAT	5464	99.82%	99.87%	99.87%	99.91%
CMB1	VHF	419	99.76%	100.00%	99.76%	100.00%

Table 3B : VCCF FIR CPDLC Performance Latency per Media Type, RGS and GES – Jul-Dec 2025

FIR		VCCF				
Criteria		RCP240				
Period		Jul - Dec 2025				
Colour Key. ■ Meets Criteria ■ 99.0%-99.89% ■ Under Criteria	Message Counts	5% benchmark		99.9% Benchmark		
		ACP	ACTP	ACP	ACTP	
		% <= 180sec	% <= 120sec	% <= 210sec	% <= 150sec	
By Media Type						
SATCOM		34133	99.14%	99.29%	99.45%	99.61%
VHF		466	100.00%	100.00%	100.00%	100.00%
HF		-	-	-	-	-
ALL		34599	99.15%	99.30%	99.45%	99.61%
By Remote Ground Station (RGS) Ground Earth Station (GES)						
Designator	Type	(RGS/GES with message counts >100)				
APK1	SAT	17622	99.76%	99.88%	99.81%	99.91%
APK2	SAT	993	98.39%	98.89%	98.89%	99.09%
IGW1	SAT	4279	96.61%	96.89%	97.78%	98.50%
IOR5	SAT	5805	98.81%	99.09%	99.38%	99.55%
XXI	SAT	5041	99.70%	99.72%	99.82%	99.82%
CMB1	VHF	390	100.00%	100.00%	100.00%	100.00%

2.4 In summary, the CPDLC performance by SATCOM and VHF were able to meet the 95% criterion but failed to meet 99.9% criterion as shown in Table 3A and 3B. There is no message count for HF in 2025.

2.5 For CPDLC performance differentiated by RGS/GES, all stations met the 95% threshold, except IGW1 during the first half of the reporting period. However, several stations failed to meet the 99.9% performance criterion. Instances of poor RGS/GES performance were reported to the service provider, and Sri Lanka will continue to monitor RGS/GES performance closely.

VCCF FIR CPDLC RCP240 Performance – Aircraft Operator/Type

2.6 **Tables 4A and 4B** summarize overall CPDLC performance per Aircraft Operator/Type for messages sent within the VCCF FIR during 2025.

Table 4A: VCCF FIR CPDLC Performance Latency per Aircraft Operator/Type – January-June 2025




FIR		VCCF				
Criteria		RCP240				
Period		Jan - Jun 2025				
Colour Key  Meets Criteria  99.0%-99.89%  Under Criteria	Message Counts	95% benchmark		99.9% Benchmark		95%
		ACP	ACTP	ACP	ACTP	PORT
		% <= 180sec	% <= 120sec	% <= 210sec	% <= 150sec	% < 60secs
By Aircraft Operator / Type (only message counts >100 recorded)						
AIC/B788	166	100.00%	99.40%	100.00%	100.00%	98.80%
ALK/A20N	372	99.73%	99.46%	99.73%	100.00%	98.39%
ALK/A21N	731	99.59%	99.73%	99.86%	99.73%	98.63%
ALK/A332	243	98.35%	97.53%	98.77%	99.18%	97.94%
ALK/A333	935	99.68%	100.00%	100.00%	100.00%	98.61%
CCA/A359	105	100.00%	100.00%	100.00%	100.00%	100.00%
CPA/A359	296	100.00%	100.00%	100.00%	100.00%	99.32%
ETD/B77W	266	99.25%	99.62%	99.25%	99.62%	98.87%
ETD/B789	1116	99.91%	99.91%	99.91%	99.91%	99.73%
ETD/B78X	202	100.00%	100.00%	100.00%	100.00%	99.50%
GIA/A333	504	100.00%	100.00%	100.00%	100.00%	98.61%
GIA/A339	206	100.00%	99.51%	100.00%	100.00%	98.54%
GIA/B77W	1615	99.94%	99.94%	99.94%	99.94%	99.81%
LNI/A333	784	98.98%	99.36%	99.36%	99.62%	97.83%
LNI/A339	738	99.59%	100.00%	99.73%	100.00%	98.78%
MAS/B38M	1144	96.59%	95.10%	97.99%	96.33%	96.59%
MAS/B738	804	96.89%	97.01%	97.76%	98.51%	96.64%
OMA/B789	162	100.00%	100.00%	100.00%	100.00%	98.15%
QFA/A332	236	100.00%	100.00%	100.00%	100.00%	98.73%
QFA/B789	372	99.46%	99.73%	99.73%	99.73%	98.92%
QTR/A359	1210	100.00%	100.00%	100.00%	100.00%	99.83%
QTR/A35K	377	98.94%	99.47%	99.20%	99.47%	98.14%
QTR/A388	700	99.29%	99.57%	99.29%	99.71%	99.14%
QTR/B77W	1406	98.01%	98.36%	98.65%	99.08%	97.44%
REU/B77W	182	100.00%	100.00%	100.00%	100.00%	99.45%
SIA/A359	1322	99.85%	99.77%	99.85%	99.85%	99.77%
SIA/B78X	1027	99.42%	99.42%	99.51%	99.51%	99.42%
SVA/A333	334	100.00%	99.40%	100.00%	99.40%	97.90%
SVA/B77W	1594	99.81%	99.94%	99.81%	100.00%	99.06%
SVA/B789	179	100.00%	100.00%	100.00%	100.00%	99.44%
SVA/B78X	310	100.00%	100.00%	100.00%	100.00%	100.00%
THY/A359	367	100.00%	100.00%	100.00%	100.00%	100.00%
UAE/A388	3389	99.88%	99.85%	99.91%	99.91%	99.59%
UAE/B77L	519	99.61%	100.00%	99.81%	100.00%	99.04%
UAE/B77W	1047	99.81%	100.00%	100.00%	100.00%	99.33%

Table 4B: VCCF FIR CPDLC Performance Latency per Aircraft Operator/Type-Jul-Dec 2025.

FIR	VCCF					
Criteria	RCP240					
Period	Jul - Dec 2025					
Colour Key ■ Meets Criteria ■ 99.0%-99.89% ■ Under Criteria	Message Counts	95% benchmark		99.9% Benchmark		95%
		ACP	ACTP	ACP	ACTP	PORT
		% <= 180sec	% <= 120sec	% <= 210sec	% <= 150sec	% <60secs
By Aircraft Operator / Type (only message counts >100 recorded)						
ALK/A20N	382	99.21%	99.74%	99.48%	99.74%	98.69%
ALK/A21N	869	99.54%	99.77%	99.77%	99.77%	97.93%
ALK/A332	282	99.65%	100.00%	99.65%	100.00%	98.58%
ALK/A333	761	99.21%	99.05%	99.47%	99.21%	99.08%
CPA/A359	353	100.00%	100.00%	100.00%	100.00%	100.00%
ETD/B77W	284	99.65%	99.65%	99.65%	99.65%	98.59%
ETD/B789	944	99.79%	99.79%	99.79%	99.89%	99.36%
ETD/B78X	252	100.00%	100.00%	100.00%	100.00%	100.00%
GIA/A333	292	100.00%	100.00%	100.00%	100.00%	98.63%
GIA/A339	317	99.68%	99.37%	99.68%	99.68%	97.79%
GIA/B77W	1391	99.93%	99.93%	99.93%	99.93%	99.57%
LNI/A333	1109	99.64%	100.00%	99.82%	100.00%	97.93%
LNI/A339	1089	99.91%	100.00%	99.91%	100.00%	98.62%
MAS/B38M	681	98.09%	98.38%	99.41%	99.07%	97.50%
MAS/B738	1139	98.42%	99.03%	98.86%	99.56%	97.89%
OMA/B789	164	98.78%	100.00%	98.78%	100.00%	97.56%
QFA/A332	166	100.00%	100.00%	100.00%	100.00%	98.80%
QFA/B789	493	100.00%	100.00%	100.00%	100.00%	99.19%
QTR/A359	1171	99.74%	99.74%	99.74%	99.74%	99.66%
QTR/A388	332	100.00%	100.00%	100.00%	100.00%	99.70%
QTR/B77W	1445	98.62%	98.89%	99.38%	99.45%	97.79%
REU/B77W	149	98.66%	100.00%	98.66%	100.00%	97.32%
SIA/A359	1326	99.55%	99.64%	99.59%	99.71%	99.25%
SIA/B78X	775	99.48%	99.55%	99.52%	99.61%	99.10%
SVA/B77W	1481	99.86%	100.00%	99.89%	100.00%	99.26%
SVA/B78X	277	99.64%	100.00%	100.00%	100.00%	99.64%
THY/A359	515	99.81%	100.00%	99.83%	100.00%	99.42%
UAE/A388	2424	99.63%	99.65%	99.79%	99.81%	99.55%
UAE/B77L	393	100.00%	100.00%	100.00%	100.00%	98.73%
UAE/B77W	1148	100.00%	100.00%	100.00%	100.00%	99.39%
VOZ/B77W	1077	98.70%	98.98%	99.16%	99.35%	98.70%

2.7 All the performance reports were sent to CAA for further action and will continue to monitor the performance.

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
- a) note the information contained in this paper; and
 - b) discuss any relevant matters as appropriate.

— END —