

Jan – Jun, 2024

PBCS Monitoring Report in Fukuoka FIR

Presented by: HAMADA Yuichi

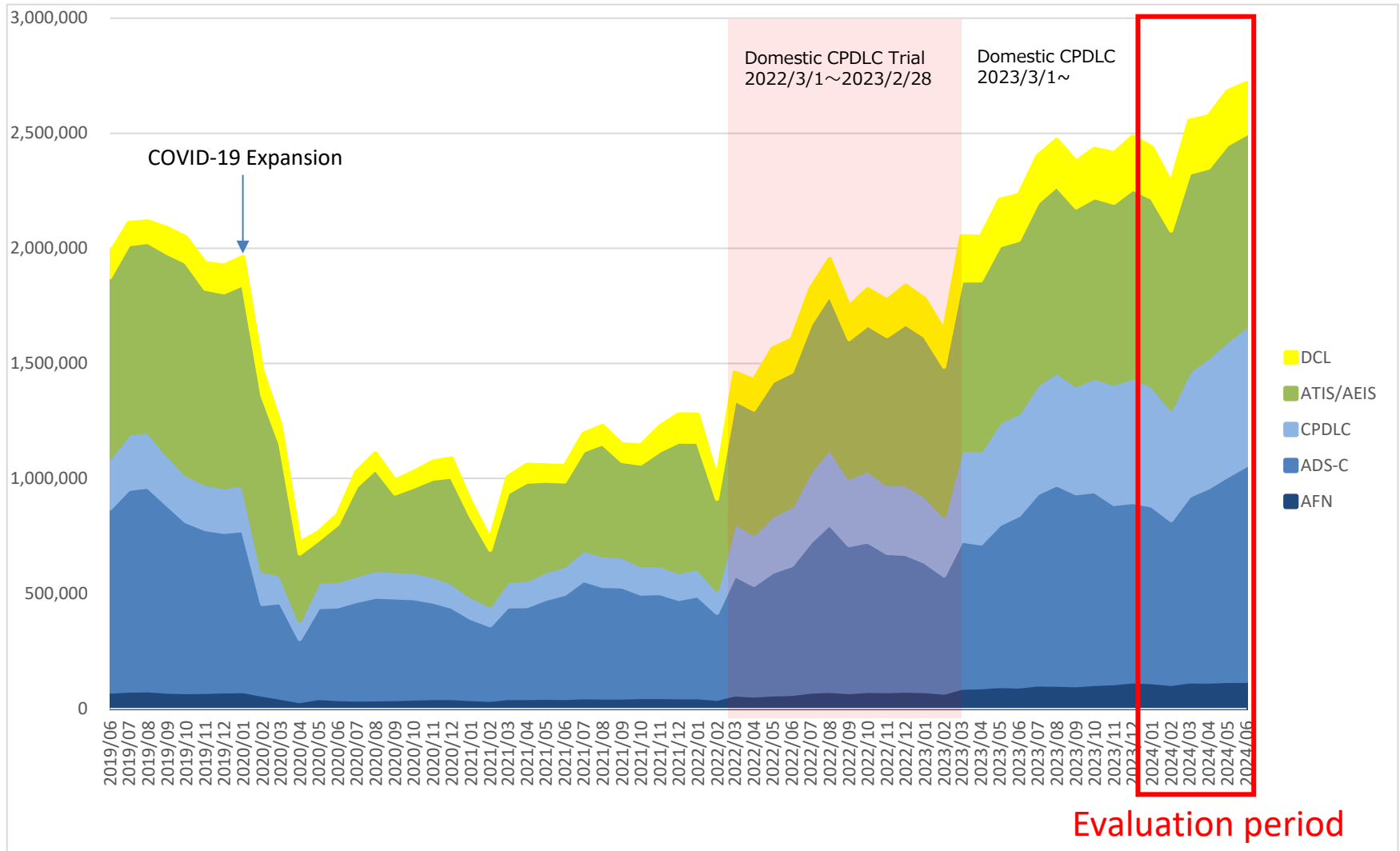


Japan Civil Aviation Bureau (JCAB)
Ministry of Land, Infrastructure, Transport and Tourism
Japan (MLIT)

FIT36
4 Dec, 2024

Datalink Message volume in RJJJ

- This graph shows total monthly number of messages in RJJJ.



- 1) PBCS monitoring report in Fukuoka FIR (RJJJ) for January 1 to June 30, 2024.
- 2) This report contains:
 - Availability and unplanned outage report
 - Continuity analysis result for each parameter
 - Performance by Media Type
 - Performance by Month
 - Performance by Station ID
 - Performance by Operator

Availability

Availability (January – June 2024)

CSP	Service	Location	Availability(%)	Number of Unplanned Outage	Number of Unplanned Outage > 10min	Accumulated Unplanned Outage Time(min)
SITA	Classic Aero/SBB	Global	99.97%	3	1	153
	Classic Aero	APK1(Paumalu)	99.98%	1	1	62
		APK2(Warkworth)	99.98%	2	2	64
		IOR5(Perth)	99.72%	5	5	1461
	Iridium	IGW1(Phoenix)	99.93%	5	4	351
ARINC	Classic Aero/SBB	Global	99.98%	3	2	95
		IOE	99.96%	1	1	180
	Classic Aero	XXA(Paumalu)	99.98%	1	1	98
		XXP(Warkworth)	99.98%	2	2	99
		XXQ(Perth)	100.00%	0	0	0
		XXI(Perth)	99.91%	1	1	457
	SBB	XXS(Paumalu)	100.00%	0	0	0
		XXO	99.90%	2	2	480
	Iridium	IG1(Phoenix)	99.79%	12	11	1064
AVICOM	Classic Aero	Global	99.99%	1	0	2
DLCS	Classic Aero/SBB	Global	100.00%	0	0	0

Legend: Meets Efficiency

Under Efficiency but above Safety

Under criteria

Availability (January – June 2024)

- SITA–Classic Aero did not meet the 99.90% safety availability value (cumulative annual failure time: 520 minutes or less) due to a 641–minute performance degradation on Jan 14th.
- ARINC–Iridium did not meet the 99.90% safety availability value (cumulative annual failure time: 520 minutes or less) due to a 1064–minute performance degradation in 6 months

Unplanned Outages

Start Date	Start Time	Duration (min)	CSP	Service Involved	Location Involved	Reason	Comment (Operational Impact)
2024/1/6	16:42	63	ARINC	ARINC	XXP	network service degradation	No impact on flight
2024/1/14	0:01	11	ARINC	ARINC	IG1	network service degradation	No impact on flight
2024/1/14	8:00	180	ARINC	ARINC	IOE	Unplanned Maintenance	No impact on flight
2024/1/31	17:19	156	ARINC	Iridium	IG1	network service degradation	No impact on flight
2024/2/2	2:33	126	ARINC	Iridium	IG1	Iridium Unexpected Service Degradation	No impact on flight Link down 4 aircrafts
2024/2/9	2:30	90	ARINC	Iridium	IG1	Iridium network service degradation	No impact on flight
2024/2/9	21:00	180	ARINC	ARINC	XXO	Emergency Maintenance	No impact on flight
2024/2/10	22:18	40	ARINC	ARINC	Global	network service degradation	No impact on flight
2024/2/11	17:30	300	ARINC	ARINC	XXO	Inmarsat disorder	No impact on flight
2024/2/12	18:21	59	ARINC	Iridium	IG1	Iridium Unexpected Service Degradation	No impact on flight
2024/2/13	18:28	95	ARINC	Iridium	IG1	Iridium Unexpected Service Degradation	No impact on flight
2024/2/14	14:28	36	ARINC	ARINC	XXP	network service degradation	No impact on flight
2024/2/16	22:15	180	ARINC	ARINC	IG1	Iridium Emergency Maintenance	No impact on flight
2024/2/21	5:12	269	ARINC	Iridium	IG1	network service degradation	No impact on flight HF voice 6 aircrafts
2024/3/1	17:38	50	ARINC	ARINC	Global	network service degradation	No impact on flight
2024/3/5	16:58	14	ARINC	ARINC	IG1	network service degradation	No impact on flight
2024/3/19	18:00	5	ARINC	ARINC	Global	Iridium Emergency Maintenance	No impact on flight
2024/3/21	12:02	98	ARINC	ARINC	XXA	Inmarsat satellite failure	No impact on flight
2024/3/27	17:38	4	ARINC	ARINC	IG1	Iridium Satellite Disturbances	No impact on flight
2024/4/3	16:52	31	ARINC	ARINC	IG1	Iridium Satellite Disturbances	No impact on flight Link down 1 aircraft
2024/5/16	20:05	29	ARINC	Iridium	IG1	network service degradation	No impact on flight
2024/5/30	8:23	457	ARINC	ARINC	XXI	Inmarsat satellite failure&Maintenance	No impact on flight



Availability criteria not met(Any event in which the duration of the degradation of service performance exceeds 520 minutes.)



outages that had an impact on ATC operations

Unplanned Outages

Start Date	Start Time	Duration (min)	CSP	Service Involved	Location Involved	Reason	Comment (Operational Impact)
2024/1/6	17:04	28	SITA	SITA	APK2	network service degradation	No impact on flight
2024/1/12	0:30	3	SITA	SITA	Global	Datalink Processor Switchover	No impact on flight
2024/1/14	0:52	641	SITA	SITA	IOR5	network service degradation	No impact on flight
2024/1/24	7:05	150	SITA	SITA	IOR5	Unplanned Outage	No impact on flight
2024/1/31	17:10	145	SITA	SITA	Global	network service degradation	No impact on flight
2024/2/9	21:00	180	SITA	SITA	IOR5	Emergency Maintenance	No impact on flight
2024/2/11	17:30	300	SITA	SITA	IOR5	Inmarsat disorder	No impact on flight
2024/2/12	18:21	59	SITA	Iridium	IGW1	Iridium Unexpected Service Degradation	No impact on flight
2024/2/13	18:28	95	SITA	Iridium	IGW1	Iridium Unexpected Service Degradation	No impact on flight
2024/2/14	14:28	36	SITA	SITA	APK2	network service degradation	No impact on flight
2024/3/5	18:27	7	SITA	SITA	IGW1	network service degradation	No impact on flight
2024/3/19	18:00	5	SITA	SITA	Global	Iridium Emergency Maintenance	No impact on flight
2024/3/21	11:44	62	SITA	SITA	APK1	Inmarsat satellite failure	No impact on flight
2024/5/19	3:41	139	SITA	Iridium	IGW1	network service degradation	No impact on flight
2024/5/30	12:50	190	SITA	SITA	IOR5	Emergency Maintenance	No impact on flight
2024/6/5	23:34	51	SITA	SITA	IGW1	Iridium Unexpected Service Degradation	No impact on flight

Start Date	Start Time	Duration (min)	CSP	Service Involved	Location Involved	Reason	Comment (Operational Impact)
2024/6/10	17:22	2	AVICOM	AVICOM	Global	Unexpected Service Degradation	No impact on flight

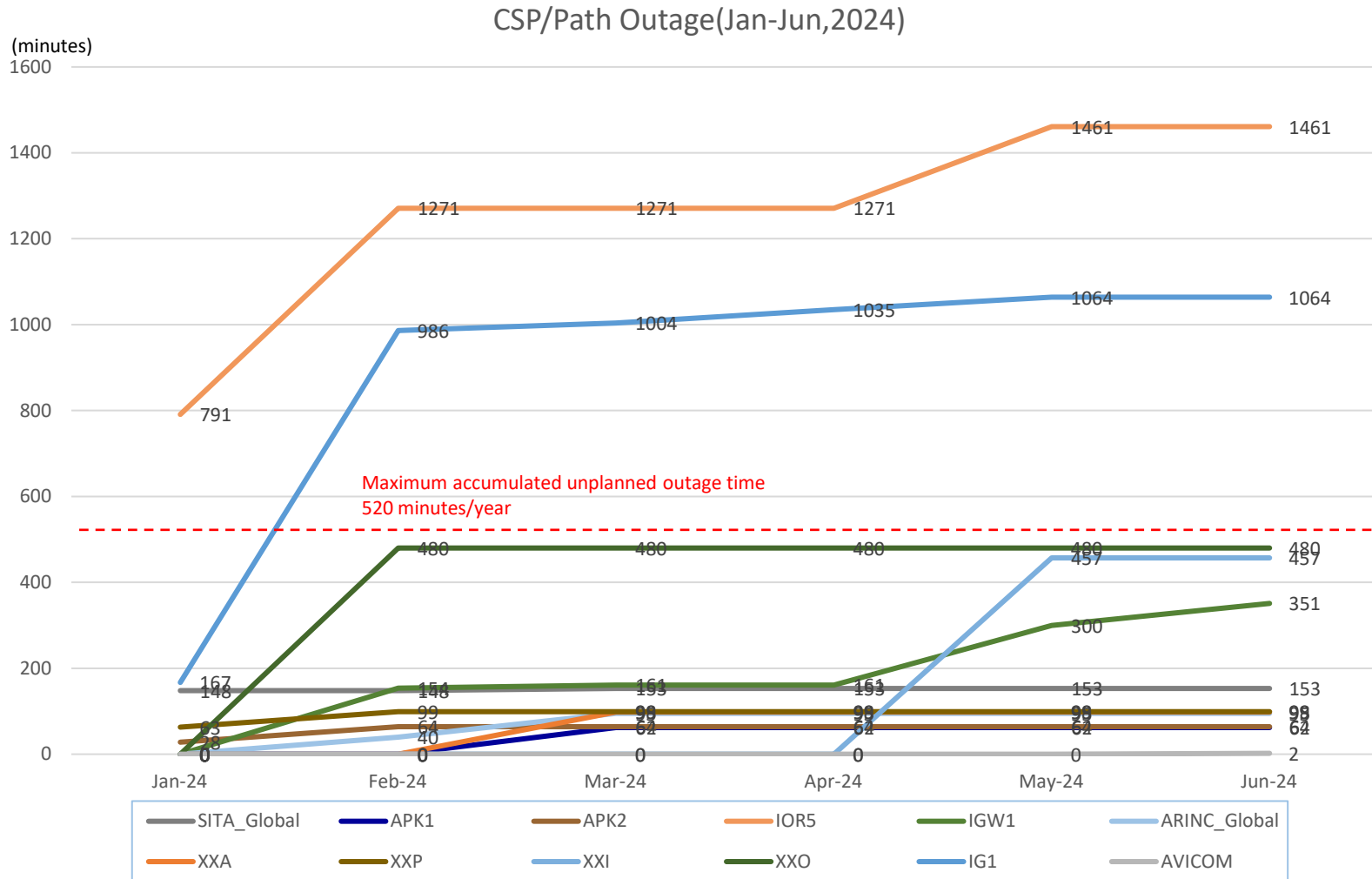


Availability criteria not met(Any event in which the duration of the degradation of service performance exceeds 520 minutes.)

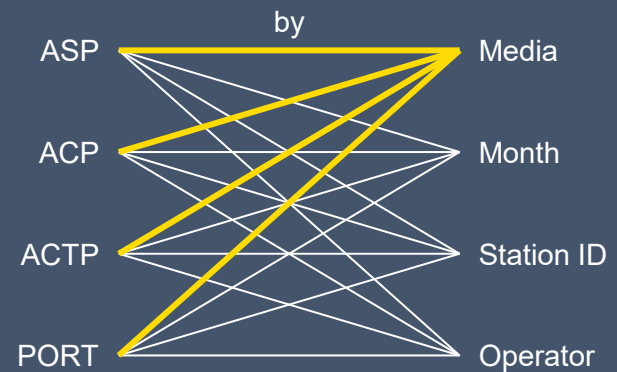


outages that had an impact on ATC operations

Accumulated Unplanned Outage



Performance by Media Type



Performance by Media Type

- The case of communications using VHF for the uplink and satellite for the downlink does not meet criteria.
- All criteria are met except as noted above..

Media Type	ADS-C			Oceanic CPDLC					
	RSP180			RCP240					
	Count of ADS-C	ASP		Count of CPDLC	ACTP		ACP		PORT
		95%	99.9%		95%	99.9%	95%	99.9%	95%
Total	3,091,247	98.41%	99.59%	67,522	99.70%	99.80%	99.68%	99.79%	99.37%
SAT	2,366,816	98.32%	99.59%	60,801	99.71%	99.80%	99.68%	99.80%	99.37%
VHF	724,431	98.71%	99.58%	6,223	99.90%	99.95%	99.88%	99.90%	99.53%
SAT/VHF *1	---	---	---	302	99.00%	99.33%	97.68%	98.67%	97.01%
VHF/SAT *2	---	---	---	196	91.83%	95.40%	95.40%	95.91%	97.44%

Legend: Meets criteria

Under criteria but above 99.0%

Under criteria

* 1 SAT/VHF : Communication using satellite for uplink and VHF for downlink

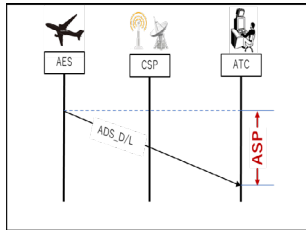
* 2 VHF/SAT : Communication using VHF for uplink and satellite for downlink

ASP by Media Type

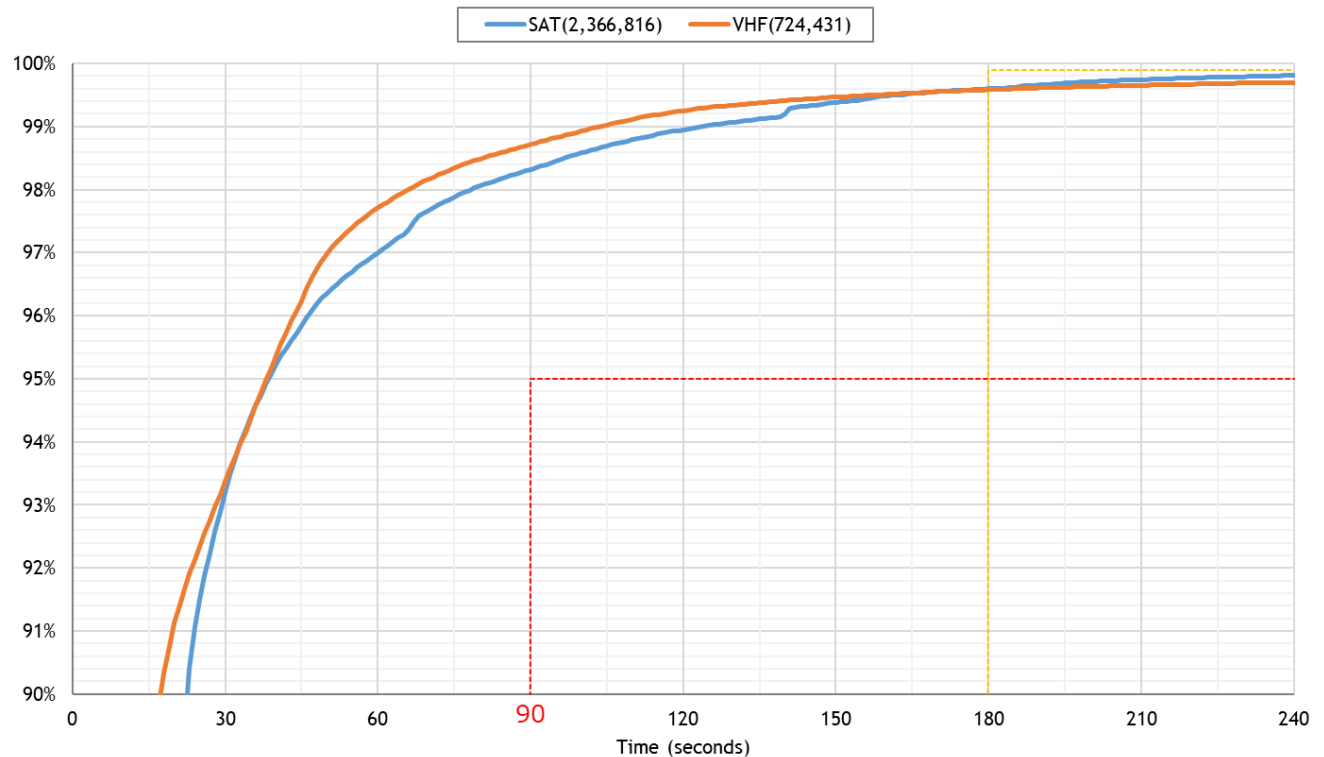
- All months meet the 95% criteria and there are no major fluctuations.

Fukuoka FIR - By Media Type - January to June 2024 ADS-C Actual Surveillance Performance (ASP)

ASP measurement section

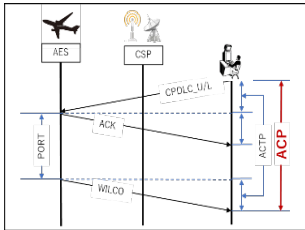


ASP:ADS Downlink transaction time



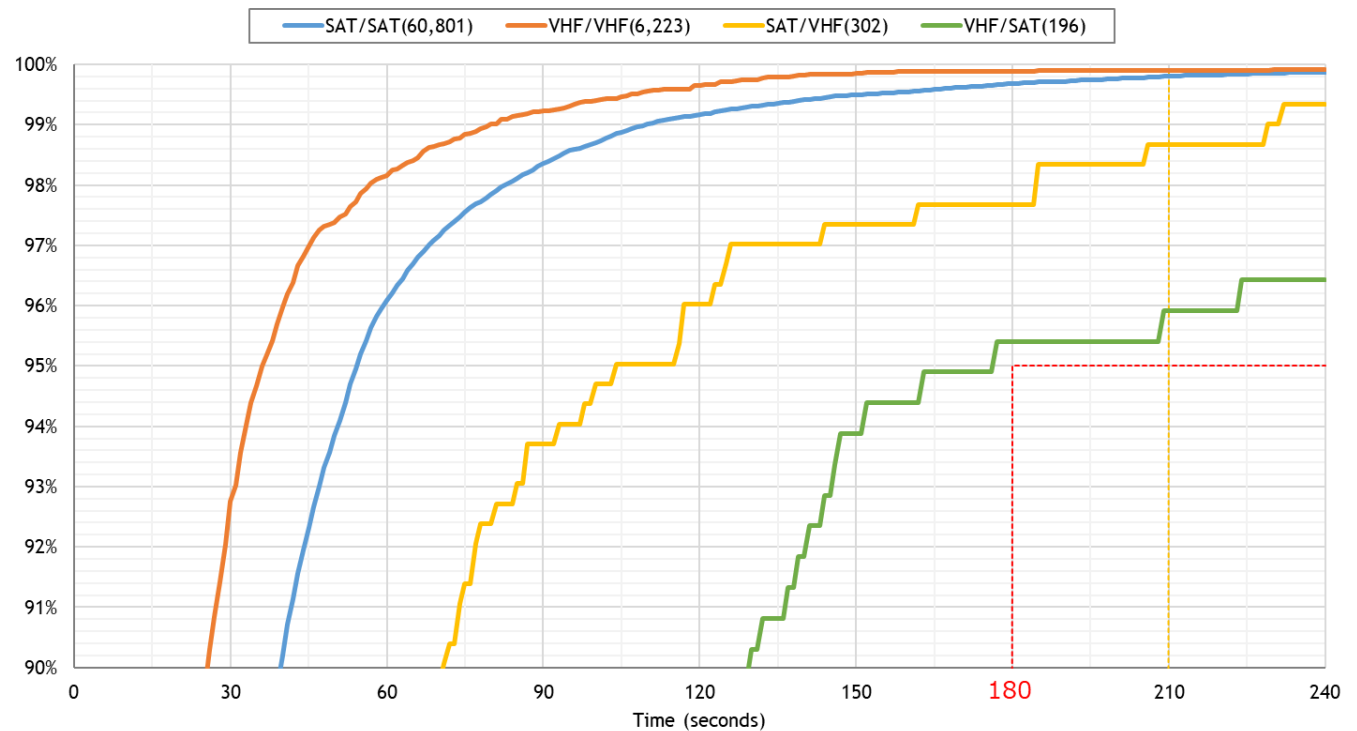
- All cases of communication meet the 95% criteria.

ACP measurement section



ACP : Total response time

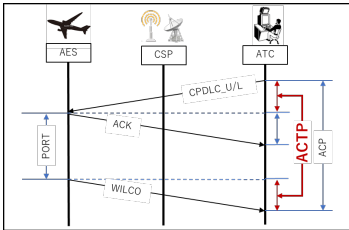
Fukuoka FIR - By Media Type - January to June 2024
CPDLC Actual Communication Performance (ACP)



ACTP by Media Type

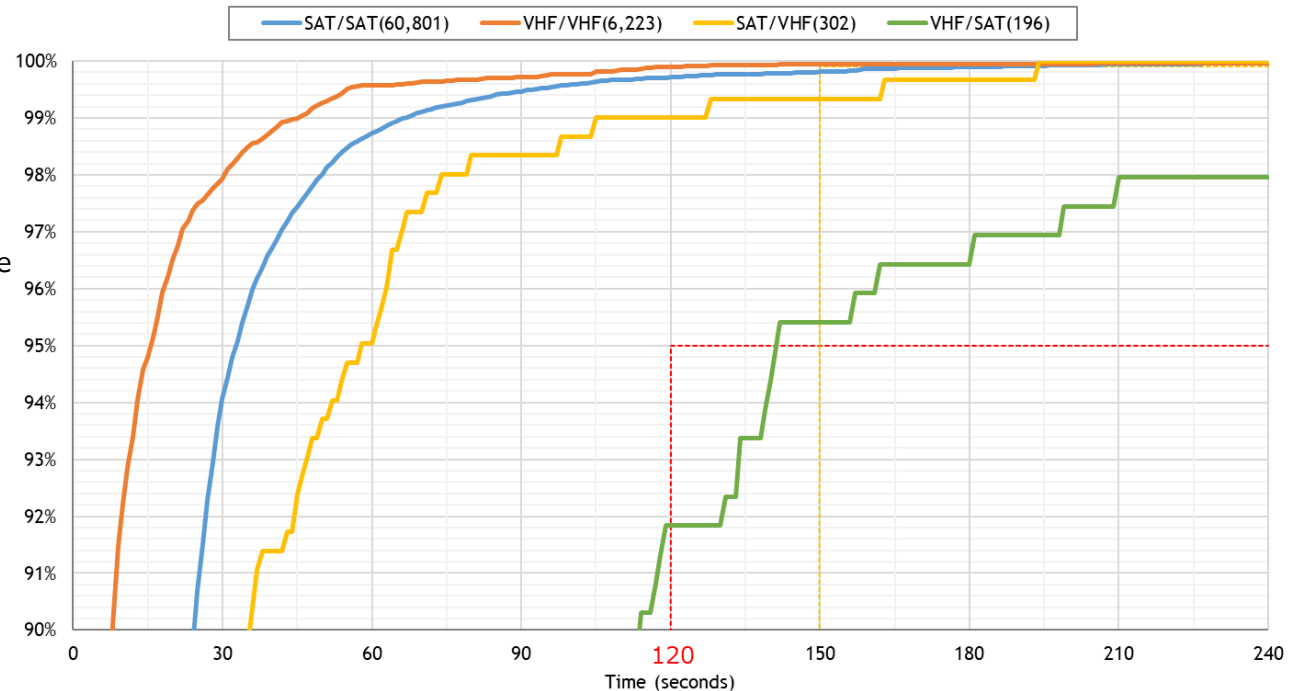
- The case of communications using VHF for the uplink and SAT for the downlink doesn't meet the 95% criteria. (Because the case changes the media to SAT after trying to resend several times by VHF.)
- ACTP meets the 95% criteria except above the case.

ACTP measurement section



Fukuoka FIR - By Media Type - January to June 2024

CPDLC Actual Communication Technical Performance (ACTP)

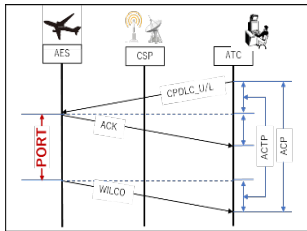


ACTP : Ground to air transmission time

PORT by Media Type

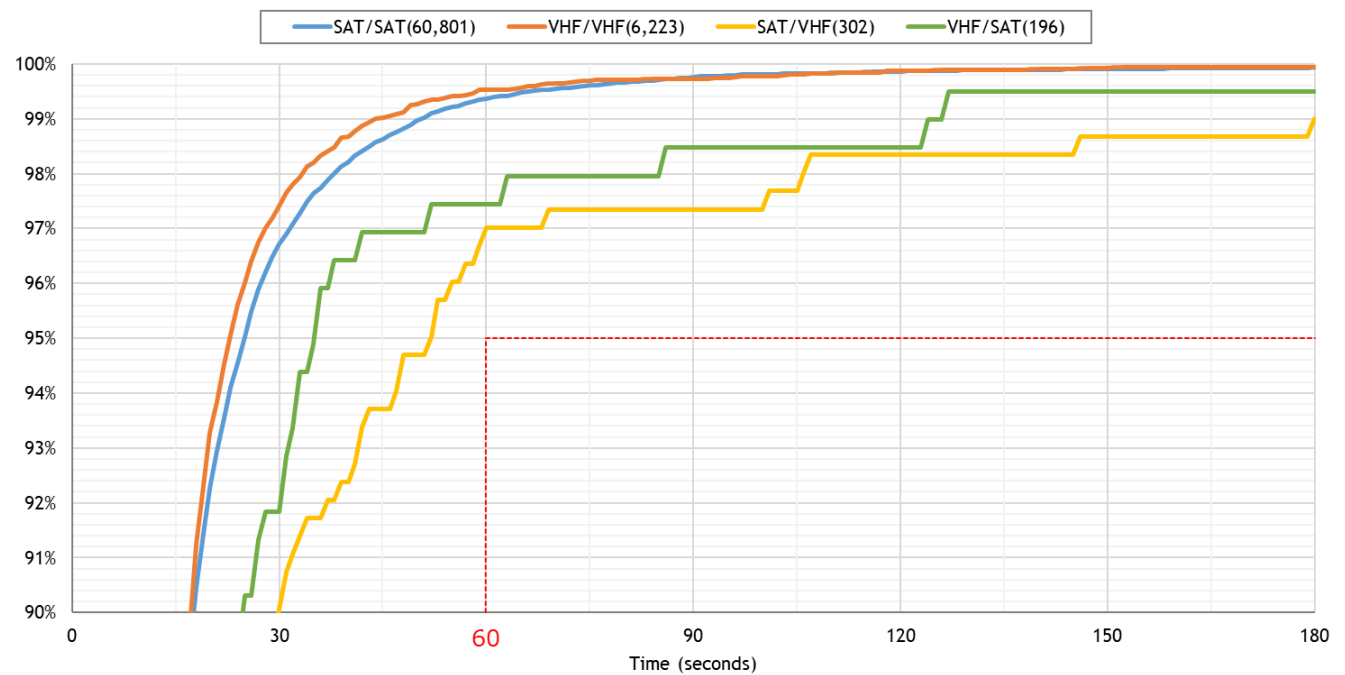
- All cases of communication meet the 95% criteria.

PORT measurement section

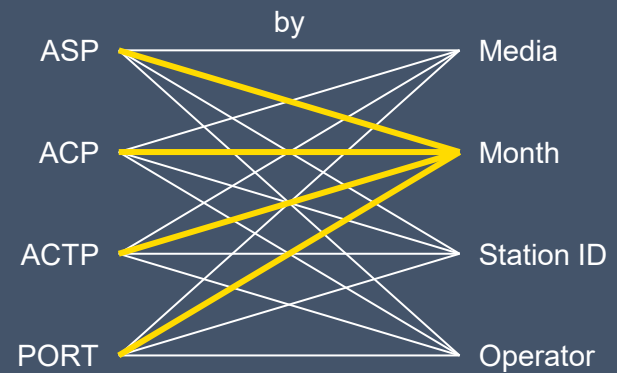


PORT: pilot operational response time

Fukuoka FIR - By Media Type - January to June 2024
CPDLC Pilot Operational Response Time (PORT)



Performance by Month



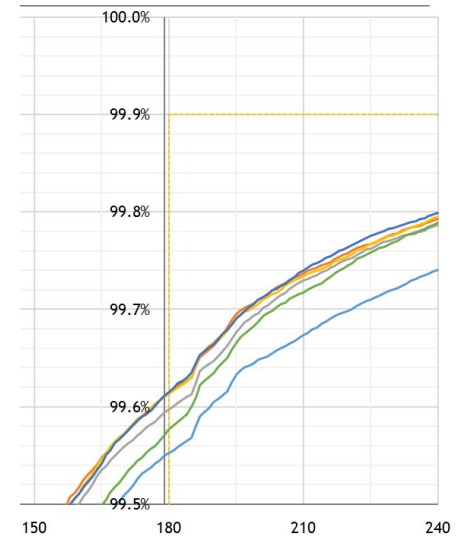
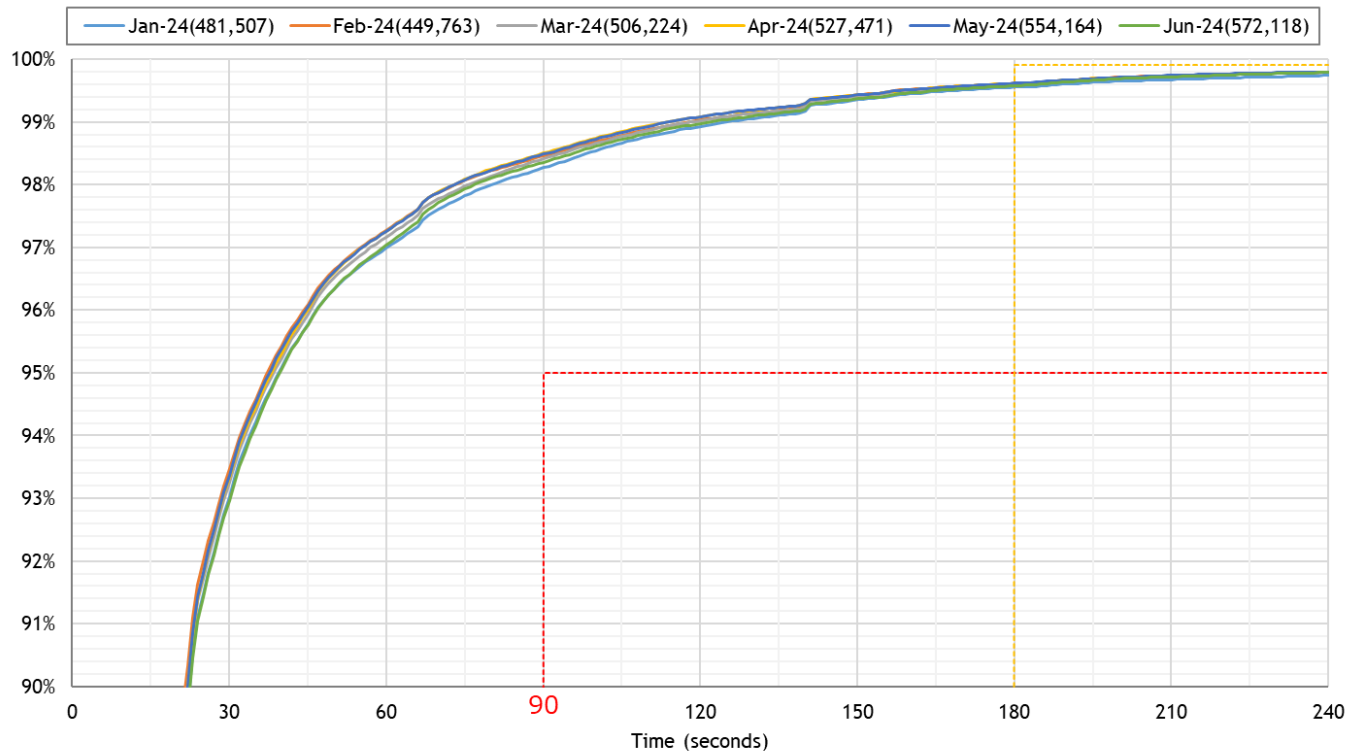
Performance by Month

➤ All months meet the 95% criteria and there are no major fluctuations.

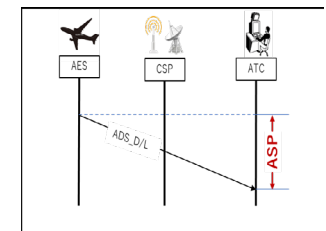
Month	ADS-C			Oceanic CPDLC					
	RSP180			RCP240					
	Count of ADS-C	ASP		Count of CPDLC	ACTP		ACP		PORT
		95%	99.9%		95%	99.9%	95%	99.9%	95%
Jan	481,507	98.26%	99.55%	9,540	99.75%	99.83%	99.71%	99.79%	99.27%
Feb	449,763	98.46%	99.61%	8,880	99.75%	99.80%	99.68%	99.76%	99.44%
Mar	506,224	98.41%	99.59%	10,817	99.73%	99.80%	99.71%	99.83%	99.39%
Apr	527,471	98.49%	99.61%	11,833	99.72%	99.82%	99.67%	99.81%	99.34%
May	554,164	98.48%	99.61%	12,899	99.67%	99.83%	99.68%	99.81%	99.41%
Jun	572,118	98.35%	99.57%	13,553	99.63%	99.74%	99.62%	99.77%	99.34%
Legend: Meets criteria Under criteria but above 99.0% Under criteria									

- All months meet the 95% criteria and there are no major fluctuations.

Fukuoka FIR - By Month - January to June 2024
ADS-C Actual Surveillance Performance (ASP)



ASP measurement section

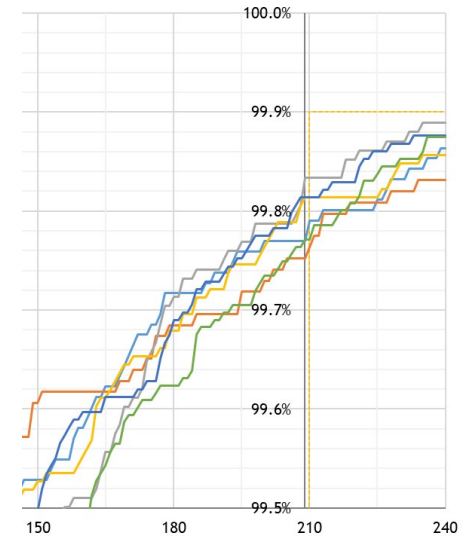
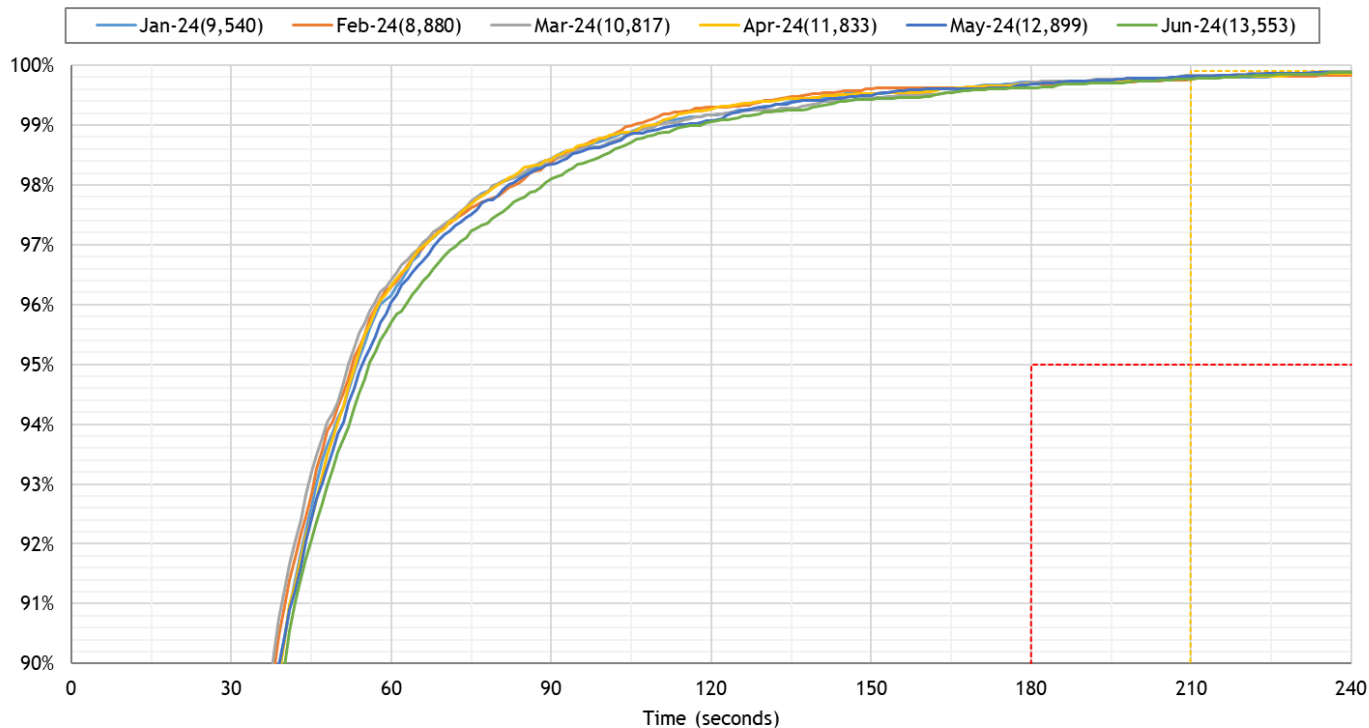


ASP: ADS Downlink transaction time

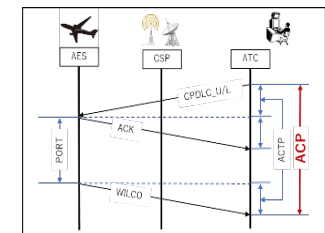
ACP by Month

- All months meet the 95% criteria and there are no major fluctuations.

Fukuoka FIR - By Month - January to June 2024
CPDLC Actual Communication Performance (ACP)



ACP measurement section

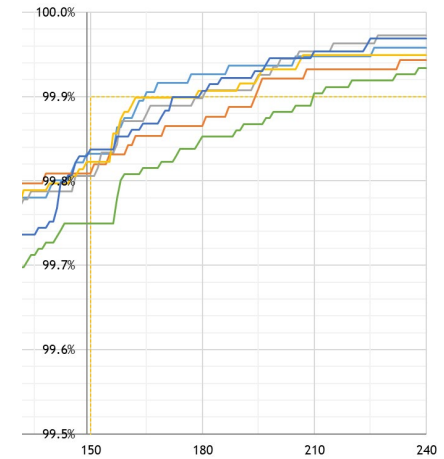
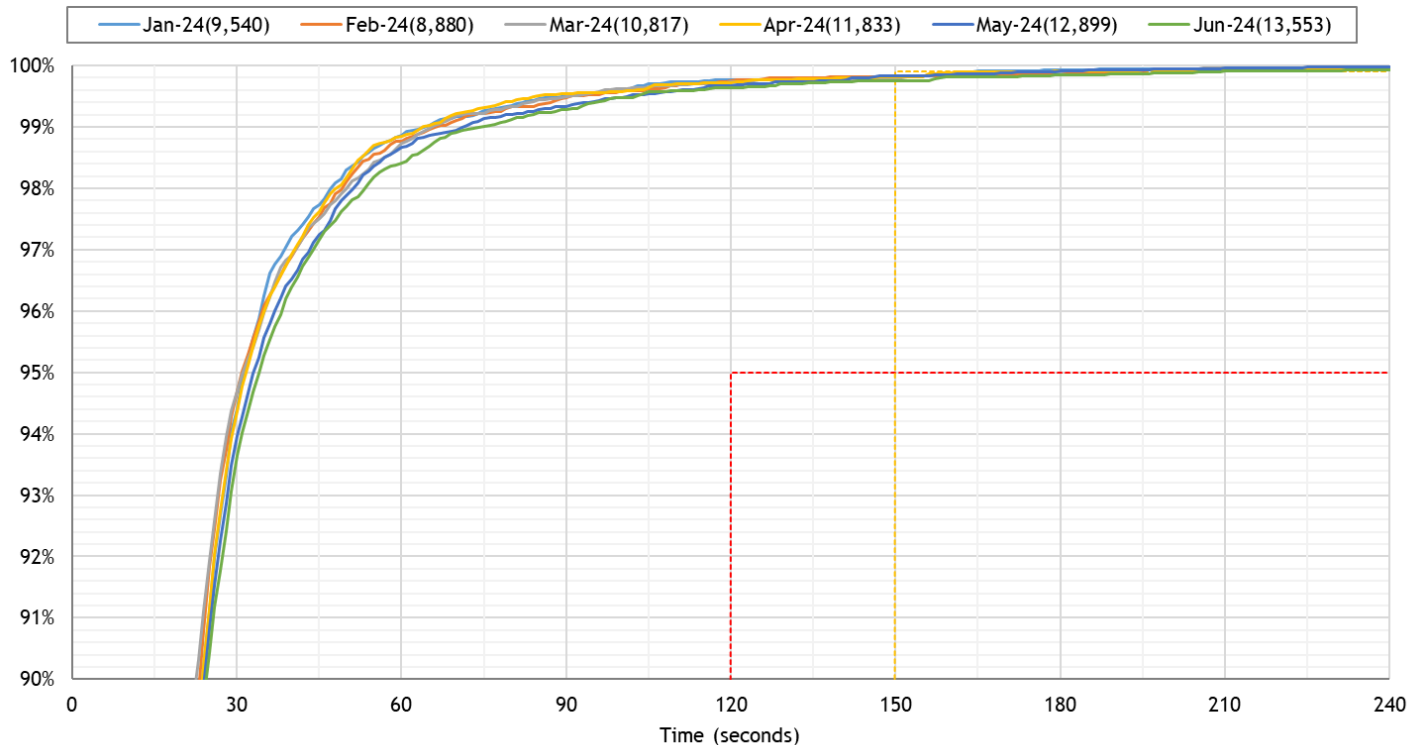


ACP : Total response time

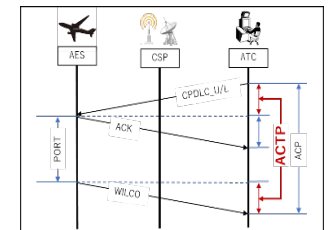
ACTP by Month

- All months meet the 95% criteria and there are no major fluctuations.

Fukuoka FIR - By Month - January to June 2024
CPDLC Actual Communication Technical Performance (ACTP)



ACTP measurement section

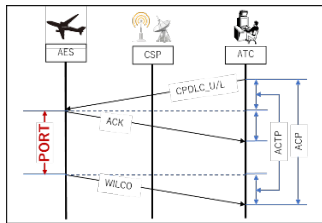


ACTP : Ground to air transmission time

PORT by Month

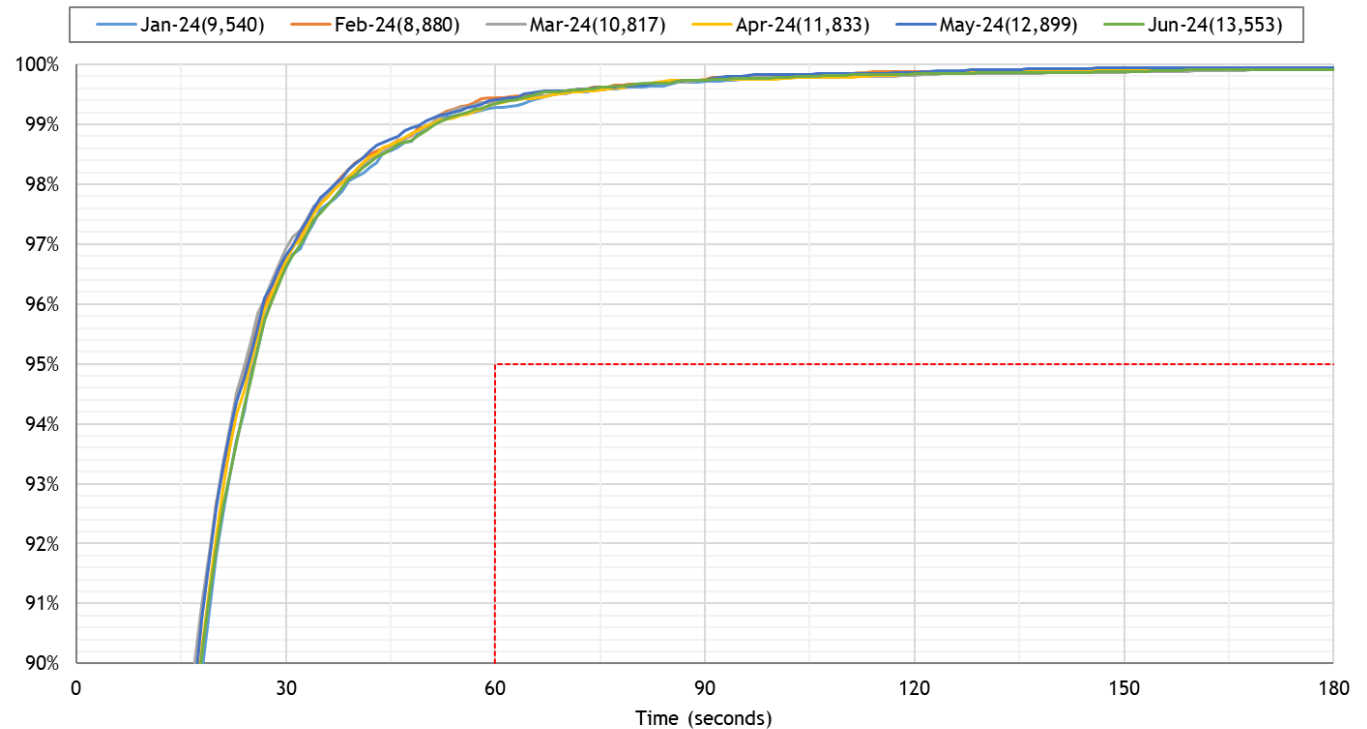
- All months meet the 95% criteria and there are no major fluctuations.

PORT measurement section

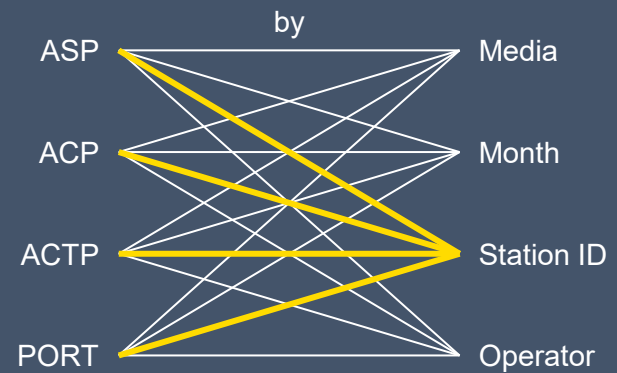


PORT: pilot operational response time

Fukuoka FIR - By Month - January to June 2024 CPDLC Pilot Operational Response Time (PORT)



Performance by Station ID



Performance by Station ID

➤ All GES meet the 95% criteria.

CSP	Service	Station ID	ADS-C			Oceanic CPDLC					
			RSP180			RCP240					
			Count of ADS-C	ASP		Count of CPDLC	ACTP		ACP		PORT
				95%	99.9%		95%	99.9%	95%	99.9%	95%
SITA	Classic Aero(APAC)	APK1	928,093	98.66%	99.71%	23,943	99.82%	99.86%	99.89%	99.93%	99.77%
		APK2	79,893	97.25%	99.50%	1,822	99.89%	99.94%	99.89%	99.94%	99.45%
	SBB(APAC)	APK7	8,025	99.22%	99.83%	205	100.00%	100.00%	100.00%	100.00%	100.00%
		APK8	7,459	99.18%	99.83%	213	100.00%	100.00%	100.00%	100.00%	100.00%
		APK9	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
	Classic Aero(MEAS)	EUA2	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		MEA7	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
	SBB(MEAS)	MEA8	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		MEA9	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		MEA9	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
	Classic Aero(IOR)	IOR5	16,522	98.75%	99.37%	377	100.00%	100.00%	100.00%	100.00%	100.00%
		IOR7	1,519	98.88%	99.40%	28	100.00%	100.00%	100.00%	100.00%	100.00%
	SBB(IOR)	IOR8	4,319	99.30%	99.49%	80	100.00%	100.00%	100.00%	100.00%	100.00%
		IOR9	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		IOR9	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
	Classic Aero(EMEA)	EUA1	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		EUA7	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
	SBB(EMEA)	EUA8	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		EUA9	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		EUA9	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
	Classic Aero(AMER)	AME1	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		AME7	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
	SBB(AMER)	AME8	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		AME9	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		AME9	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
	AORE	AOE6	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
	Iridium	IGW1	36,629	96.94%	98.86%	764	99.21%	99.60%	98.95%	99.21%	98.03%
						Legend:					
						Meets criteria					
						Under criteria but above 99.0%					
						Under criteria					

*No-colored where under 100 data points.

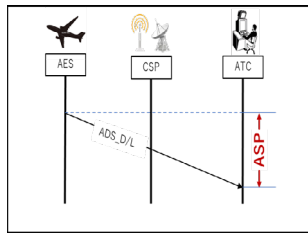
Performance by Station ID

➤ All GES meet the 95% criteria.

CSP	Service	Station ID	ADS-C			Oceanic CPDLC					
			RSP180			RCP240					
			Count of ADS-C	ASP		Count of CPDLC	ACTP		ACP		PORT
95%	99.9%	95%		99.9%	95%		99.9%				
ARINC	Classic Aero(APAC)	XXA	821,969	98.77%	99.72%	21,468	99.82%	99.85%	99.80%	99.86%	99.60%
		XXP	170,725	97.89%	99.48%	4,409	99.84%	99.88%	99.68%	99.79%	99.04%
		XXQ	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
	SBB(APAC)	XXS	74	100.00%	100.00%	3	100.00%	100.00%	100.00%	100.00%	100.00%
		X0P	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		X1P	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		X2P	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		X3P	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		X4P	20	100.00%	100.00%	2	100.00%	100.00%	100.00%	100.00%	100.00%
		X5P	317	99.68%	99.68%	12	100.00%	100.00%	100.00%	100.00%	100.00%
		Classic Aero(IOR)	XXI	42,208	97.96%	99.15%	1,335	100.00%	100.00%	99.77%	99.77%
	SBB(IOR)	X0I	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		X1I	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		X2I	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		X3I	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		X4I	98	100.00%	100.00%	5	100.00%	100.00%	100.00%	100.00%	100.00%
	IOE	X5I	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		XXO	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
	Classic Aero(EMEA)	XXF	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		X0E	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
	SBB(EMEA)	X1E	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		X2E	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		X3E	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		X4E	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		X5E	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
	Classic Aero(AMER)	XXH	33	96.96%	96.96%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		X0A	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
	SBB(AMER)	X1A	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		X2A	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		X3A	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		X4A	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
		X5A	0	0.00%	0.00%	0	0.00%	0.00%	0.00%	0.00%	0.00%
	Iridium	IG1	248,899	96.30%	99.03%	6,437	98.72%	99.28%	98.36%	99.08%	97.26%
Legend:						<div></div>	Meets criteria				
*No-colored where under 100 data points.						<div></div>	Under criteria but above 99.0%				
						<div></div>	Under criteria				

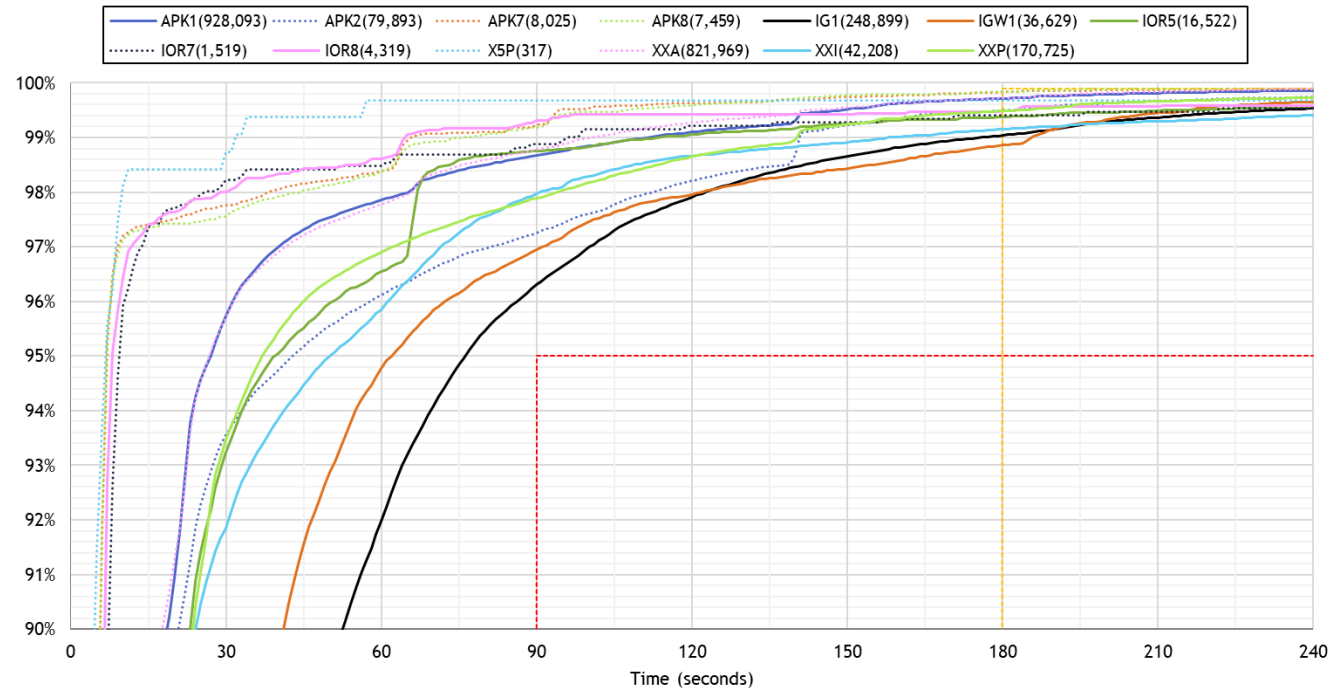
- All GES meet the 95% criteria.

ASP measurement section



ASP:ADS Downlink transaction time

Fukuoka FIR - By Station Identifier - January to June 2024
ADS-C Actual Surveillance Performance (ASP)

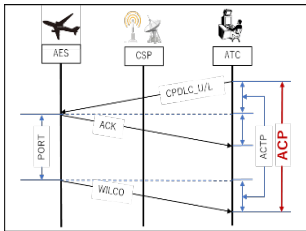


***Not displayed for ground stations with less than 100 messages**

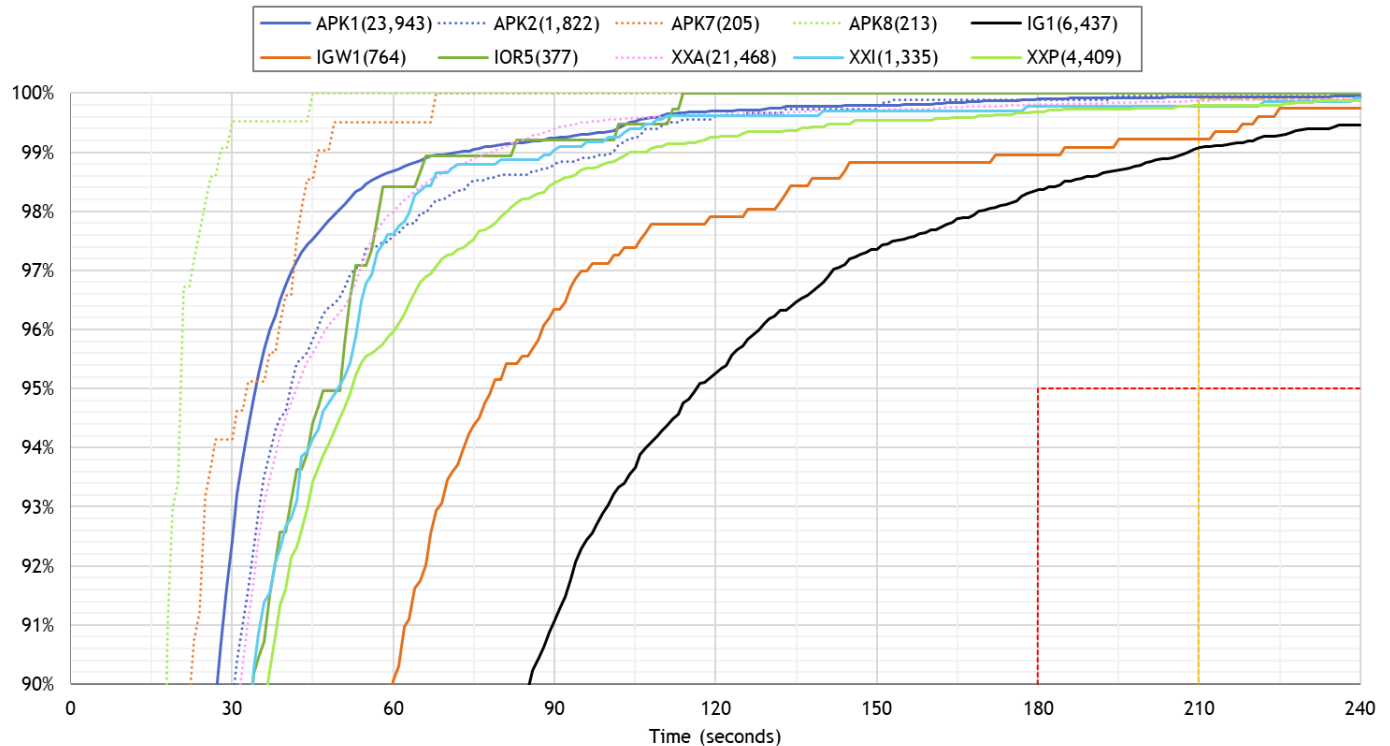
- All GES meet the 95% criteria.

Fukuoka FIR - By Station Identifier - January to June 2024 CPDLC Actual Communication Performance (ACP)

ACP measurement section



ACP : Total response time

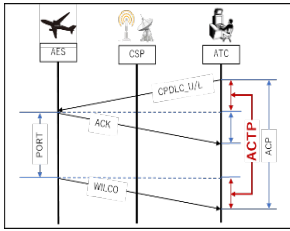


***Not displayed for ground stations with less than 100 messages**

ACTP by Station ID

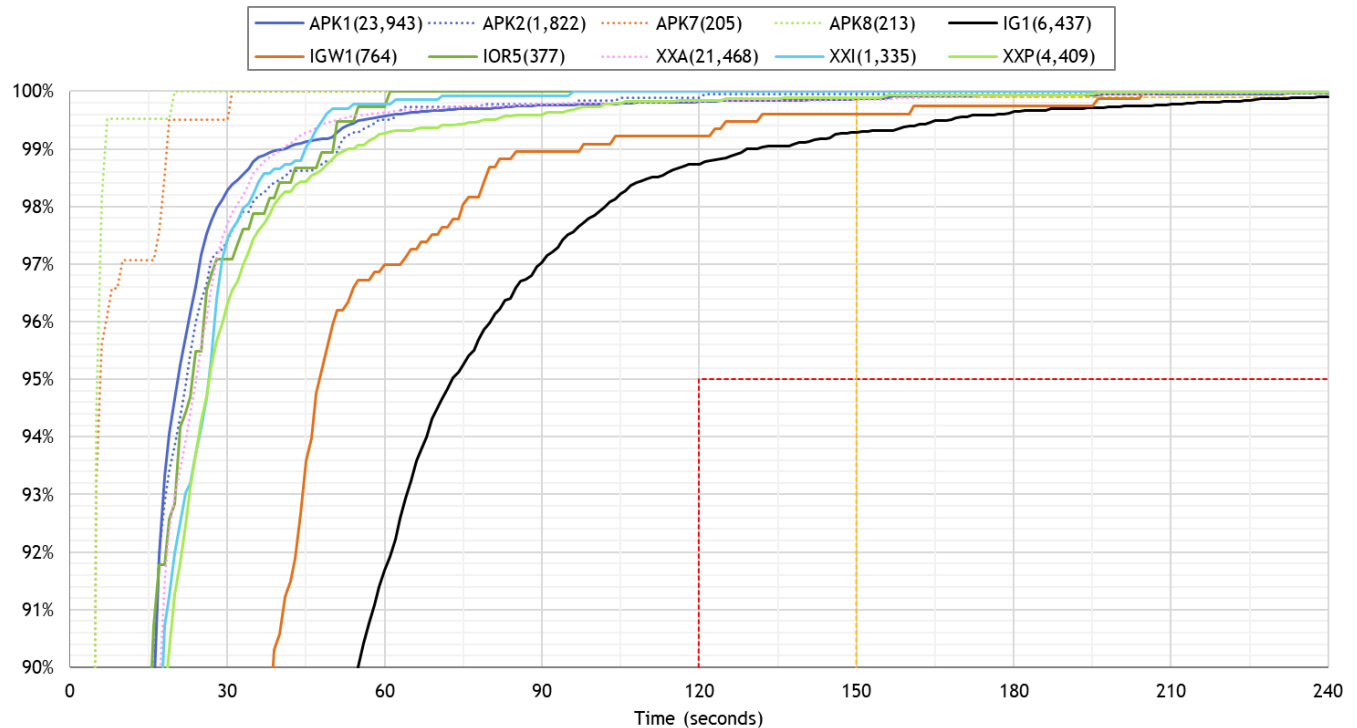
- All GES meet the 95% criteria.

ACTP measurement section



ACTP : Ground to air transmission time

Fukuoka FIR - By Station Identifier - January to June 2024 CPDLC Actual Communication Technical Performance (ACTP)



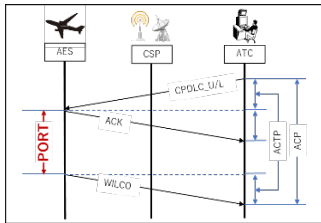
***Not displayed for ground stations with less than 100 messages**

PORT by Station ID

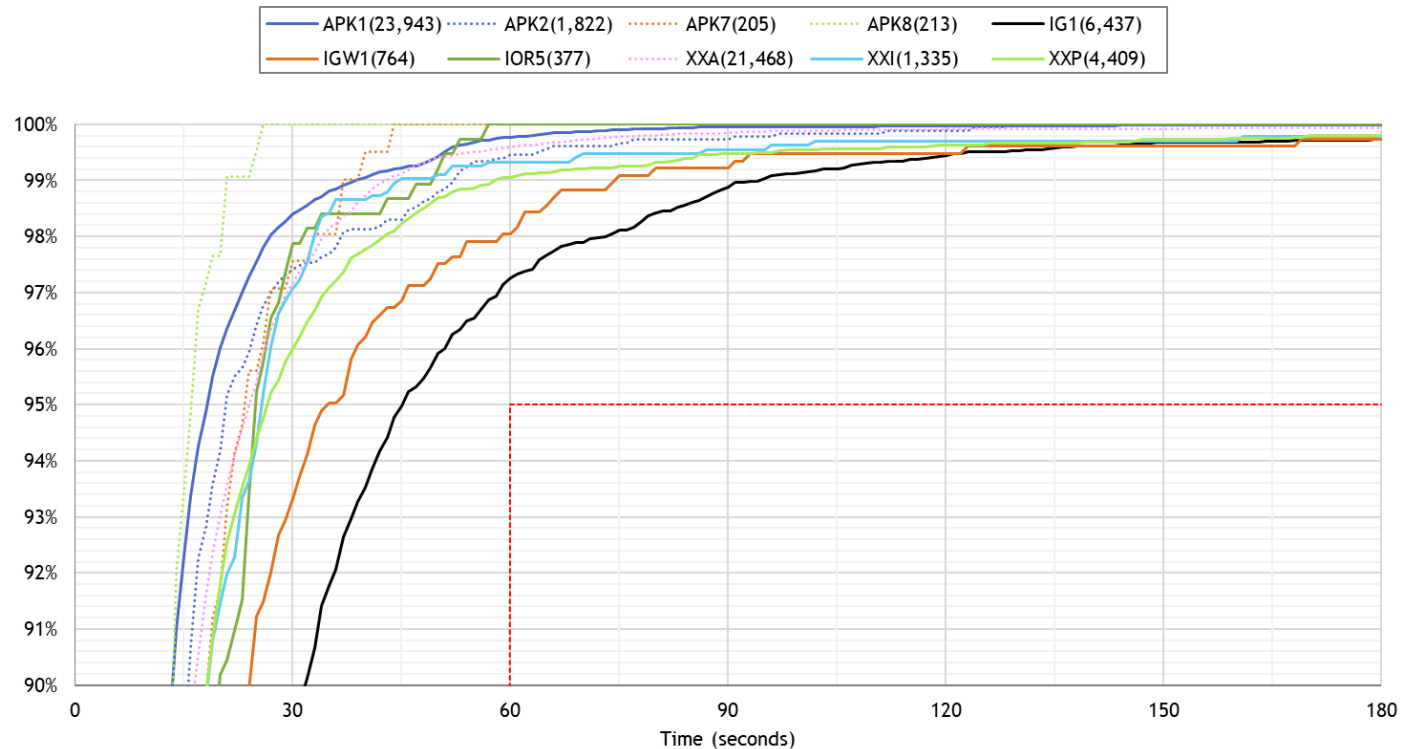
- All GES meet the 95% criteria.

Fukuoka FIR - By Station Identifier - January to June 2024 CPDLC Pilot Operational Response Time (PORT)

PORT measurement section



PORT: pilot operational response time



***Not displayed for ground stations with less than 100 messages**

Performance by Station ID

◆ POA/AOA VHF stations (reception count of 100 or more)

- The case of communications using AVICOM VHF ground stations KCZV and KOJ1 doesn't meet the 95% criteria
- The case of communications using ARINC VHF ground stations SYA doesn't meet the 95% criteria

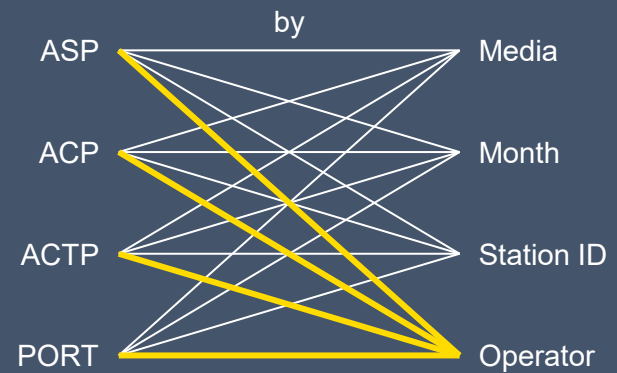
FIR		RJJJ		
Period		Jan-Jun 2024		
Appliction		ADS-C		
Criteria		RSP180		
Designator	Media Type	Count of ADS-C	ASP	
			95%	99.90%
			% < = 90sec	% < = 180sec
ASJ1	VHF	21,932	97.67%	98.08%
GUM1	VHF	1,702	96.41%	96.47%
HAC1	VHF	17,333	97.53%	98.89%
KCZV	VHF	5,581	94.03%	98.35%
KMI1	VHF	6,923	95.21%	96.41%
KOJ1	VHF	1,481	94.53%	95.34%
SHM1	VHF	3,137	95.18%	96.68%
SPN	VHF	1,690	96.86%	98.46%
SYA	VHF	1,449	85.36%	85.92%
TKS1	VHF	501	97.00%	98.80%

※About the 99.90% value,
Less than 99.0% is indicated in red.
99.0-99.9% is omitted.

Legend: Meets criteria
 Under criteria

Performance by Operator

Table only, Percentile graph not contained



Performance by Operator

- 104 operators with at least 100 ADS-C messages
 - ◆ 3 operators doesn't meet the 95% criteria *1.
- 53 operators with at least 100 RCP transactions
 - ◆ All operator meets ACP95% criteria *2.

	ADS-C		Oceanic CPDLC				
	RSP180		RCP240				
	ASP		ACTP		ACP		PORT
	95%	99.9%	95%	99.9%	95%	99.9%	95%
Meets Criteria	101	23	53	29	53	29	53
Under criteria but above 99.0%		63		21		19	
Under criteria	3	18	0	3	0	5	0

*1 ASP95% criteria: The ASP value of 95% of the entire ADS-C downlink must be within 90 seconds.

*2 ACP95% criteria: The ACP value of 95% of the entire CPDLC communication with response request must be within 180 seconds.

Summary of Performance by AC-Type/Operator

- 227 operators / AC-type pairs with at least 100 ADS-C messages
 - ◆ 12 pairs not meet ASP95% criteria *1.
- 97 operators / AC-type pairs with at least 100 RCP transactions.
 - ◆ All operator meets ACP95% criteria *2.

	ADS-C		Oceanic CPDLC				
	RSP180		RCP240				
	ASP		ACTP		ACP		PORT
	95%	99.9%	95%	99.9%	95%	99.9%	95%
Meets Criteria	215	72	97	60	97	65	97
Under criteria but above 99.0%		118		33		27	
Under criteria	12	37	0	4	0	5	0

*1 ASP95% criteria: The ASP value of 95% of the entire ADS-C downlink must be within 90 seconds.

*2 ACP95% criteria: The ACP value of 95% of the entire CPDLC communication with response request must be within 180 seconds.

Summary of Performance by AC-Type/Operator

Aircraft Type	OP Code	ADS-C				Oceanic CPDLC							
		RSP180				RCP240							
		Count of ADS-C	% of Total ADS-C	ASP		Count of CPDLC	% of Total CPDLC	ACTP		ACP		PORT	
				95%	99.9%			95%	99.9%	95%	99.9%	95%	
A21N	PAL	5264	0.17%	98.08%	98.75%	113	0.17%	100.00%	100.00%	100.00%	100.00%	98.23%	
A321	PAL	19441	0.63%	94.13%	95.63%	412	0.61%	100.00%	100.00%	100.00%	100.00%	99.27%	
A333	MAS	3093	0.10%	96.83%	98.29%	62	0.09%	98.39%	98.39%	98.39%	98.39%	100.00%	
A339	DAL	46733	1.51%	95.01%	98.76%	1092	1.62%	99.36%	99.82%	99.27%	99.63%	97.44%	
A339	GIA	929	0.03%	94.94%	98.82%	13	0.02%	100.00%	100.00%	100.00%	100.00%	100.00%	
A35K	CPA	16596	0.54%	99.60%	99.98%	279	0.41%	98.92%	98.92%	99.64%	100.00%	99.64%	
B38M	TWB	7688	0.25%	97.36%	98.14%	72	0.11%	97.22%	97.22%	97.22%	97.22%	100.00%	
B38M	VOZ	6541	0.21%	95.44%	98.88%	146	0.22%	99.32%	99.32%	98.63%	98.63%	96.58%	
B737	KAL	118	0.00%	93.22%	96.61%	4	0.01%	100.00%	100.00%	100.00%	100.00%	100.00%	
B738	MAS	723	0.02%	95.85%	98.20%	6	0.01%	100.00%	100.00%	83.33%	83.33%	83.33%	
B738	UAL	76677	2.48%	95.98%	99.19%	1863	2.76%	98.82%	99.46%	98.12%	98.87%	96.56%	
B744	CKS	52280	1.69%	96.33%	98.93%	742	1.10%	96.23%	97.44%	96.36%	97.57%	96.50%	
B744	CSS	1991	0.06%	95.83%	98.59%	35	0.05%	97.14%	100.00%	100.00%	100.00%	97.14%	
B744	OFA	1687	0.05%	98.16%	98.46%	24	0.04%	95.83%	95.83%	91.67%	95.83%	95.83%	
B748	CMB	135	0.00%	98.52%	98.52%	2	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	
B752	ATN	1567	0.05%	98.53%	98.92%	30	0.04%	100.00%	100.00%	100.00%	100.00%	100.00%	
B752	ICE	140	0.00%	86.43%	95.71%	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
B763	ANA	1336	0.04%	95.51%	98.73%	21	0.03%	100.00%	100.00%	100.00%	100.00%	100.00%	
B763	CMB	120	0.00%	95.83%	97.50%	2	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	
B763	FDX	1478	0.05%	94.45%	98.11%	30	0.04%	100.00%	100.00%	100.00%	100.00%	100.00%	
B772	OAE	1449	0.05%	96.07%	97.93%	29	0.04%	100.00%	100.00%	100.00%	100.00%	100.00%	
B772	UAL	63298	2.05%	97.08%	98.98%	1668	2.47%	99.58%	99.76%	99.28%	99.52%	99.10%	
B77L	ACA	231	0.01%	96.54%	98.27%	3	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	
B77L	CKS	10450	0.34%	96.78%	98.86%	148	0.22%	97.97%	98.65%	98.65%	100.00%	100.00%	
B77L	FDX	70003	2.26%	96.07%	98.61%	1055	1.56%	99.24%	99.43%	99.43%	99.72%	99.81%	
B788	KAL	124	0.00%	94.35%	99.19%	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
B789	HVN	345	0.01%	93.62%	99.42%	3	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	
B789	TGW	4753	0.15%	99.77%	99.85%	115	0.17%	98.26%	98.26%	98.26%	98.26%	100.00%	
C17	RCH	7502	0.24%	98.77%	99.40%	156	0.23%	99.36%	99.36%	98.72%	98.72%	96.15%	
C5	RCH	160	0.01%	84.38%	88.75%	3	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	
CL60	CNK	178	0.01%	94.94%	97.19%	11	0.02%	100.00%	100.00%	100.00%	100.00%	100.00%	
CL60	FLC	113	0.00%	92.92%	99.12%	2	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	
CL60	RHH	123	0.00%	95.93%	98.37%	2	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	
GL7T	CPJ	426	0.01%	95.77%	97.89%	5	0.01%	80.00%	80.00%	80.00%	100.00%	100.00%	
GL7T	EJM	162	0.01%	95.06%	98.77%	1	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	
GL7T	RKS	234	0.01%	97.01%	98.29%	3	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	
GL7T	TBJ	190	0.01%	94.21%	96.32%	2	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	
GL7T	VJT	2422	0.08%	94.76%	97.94%	35	0.05%	94.29%	97.14%	94.29%	97.14%	97.14%	
GLF5	SAM	312	0.01%	97.76%	98.72%	3	0.00%	66.67%	66.67%	66.67%	100.00%	100.00%	
GLF5	TWY	295	0.01%	96.27%	98.64%	5	0.01%	100.00%	100.00%	100.00%	100.00%	100.00%	
GLF6	LXJ	158	0.01%	95.57%	98.10%	1	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	
GLF6	QOE	731	0.02%	96.99%	98.91%	10	0.01%	100.00%	100.00%	100.00%	100.00%	100.00%	
K35R	RCH	957	0.03%	98.12%	98.96%	15	0.02%	100.00%	100.00%	93.33%	100.00%	93.33%	
MD11	CMB	513	0.02%	97.66%	98.44%	5	0.01%	80.00%	100.00%	80.00%	100.00%	100.00%	

*No-colored where under 100 data points.

Legend: Meets criteria
 Under criteria but above 99.0%
 Under criteria

 Combinations that do not meet the ASP95% standard

Summary

- 1) In terms of availability, SITA-Classic Aero and ARINC-Iridium experienced outages that lasted longer than the standard value.
- 2) Continuity does not meet the criteria for some communications, including media transitions that use VHF for uplinks and satellites for downlinks.

Thank you!



Technical Management
Center



Network Performance
Assessment Center



Fukuoka Area
Control Center