



Mar – Jun, 2023

## Domestic CPDLC Communication Performance Evaluation Report in Fukuoka FIR

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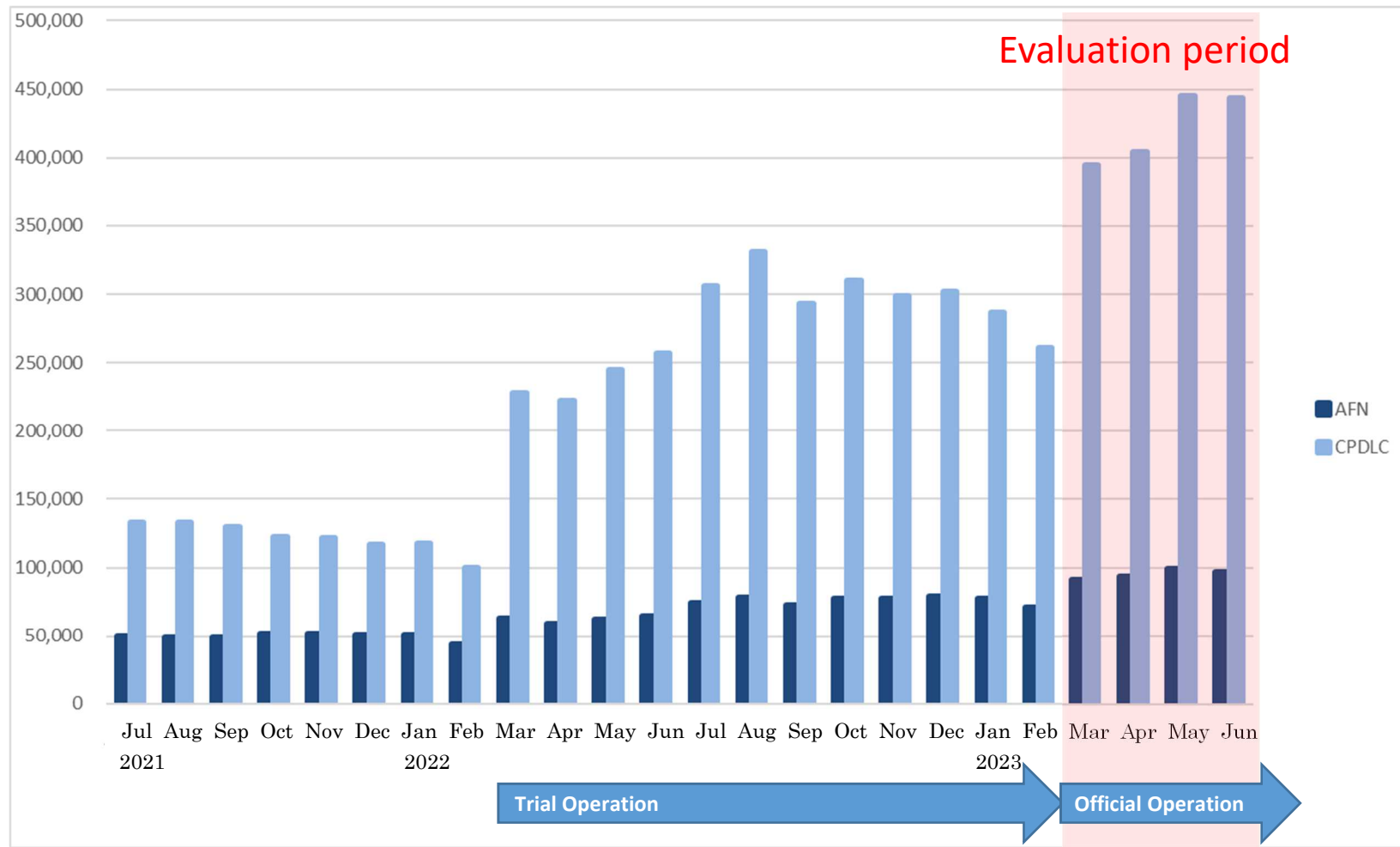
# CRA JAPAN

Central Reporting Agency in Japan

IPACG FIT/35  
26 Sep, 2023

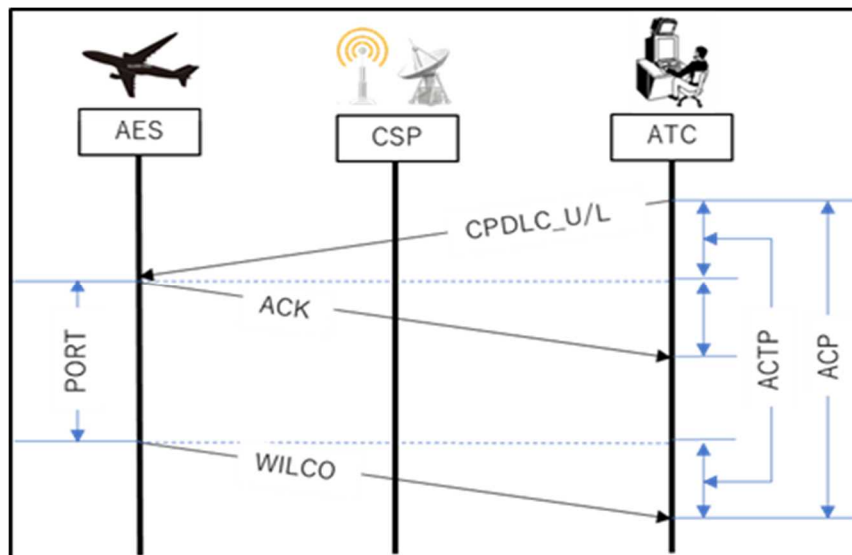
# CPDLC Message Counts

- Indicates the number of AFN and CPDLC messages (oceanic + domestic combined) processed at JCAB.



# Communication Performance requirements

measuring section	Domestic CPDLC / RCP130 (reference value)		Oceanic CPDLC / RCP240	
	95%(Safety)	99.9%(Efficiency)	95%(Safety)	99.9%(Efficiency)
ACP	60sec	120sec	180sec	210sec
ACTP	20sec	32sec	120sec	150sec
PORT	44sec	100sec	60sec	60sec



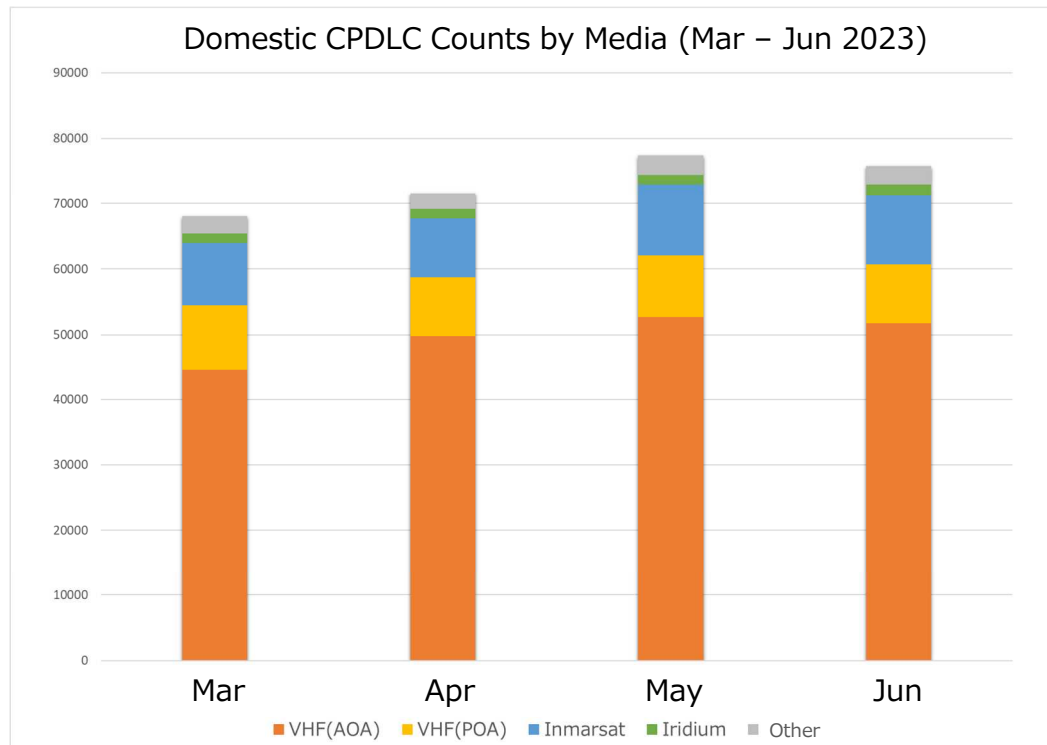
- Total (PORT+ACTP) response time (ACP <sup>\*1</sup>)
- Transmission time between airspaces (ACTP <sup>\*2</sup>)
- Pilot processing time (PORT <sup>\*3</sup>)

\*1 ACP : Actual Communication Performance

\*2 ACTP: Actual Communication Technical Performance

\*3 PORT: Pilot Operational Performance Time

# Domestic CPDLC Counts Percentage of media used



## [Domestic CPDLC Counts by Media]

- There is no significant change in the percentages by media.

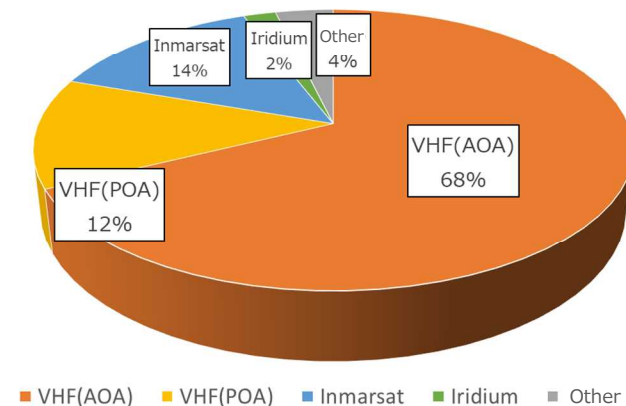
## [Percentage of media using Domestic CPDLC]

VHF(AOA) 68%

VHF(POA) 12%

SAT(Inmarsat and Iridium) 16%

## Percentage of media using Domestic CPDLC



# Performance by Media Type

- The performance evaluation of the Domestic CPDLC is based on the RCP130 as a reference standard.

Media Type	RCP130					
	Count of CPDLC	ACP		ACTP		PORT
		95% (<60s)	99.9%	95% (<20s)	99.9%	95% (<44s)
Total	293,812	96.41%	99.04%	93.82%	96.91%	97.59%
VHF(AOA)	198,909	98.83%	99.76%	97.83%	98.77%	98.91%
VHF(POA)	37,164	94.98%	99.12%	95.18%	97.94%	95.24%
Inmarsat	40,680	92.92%	98.34%	89.35%	94.93%	95.58%
Iridium	6,122	79.94%	94.82%	23.93%	74.70%	92.19%
Other	10,937	79.71%	90.74%	72.77%	79.76%	91.95%

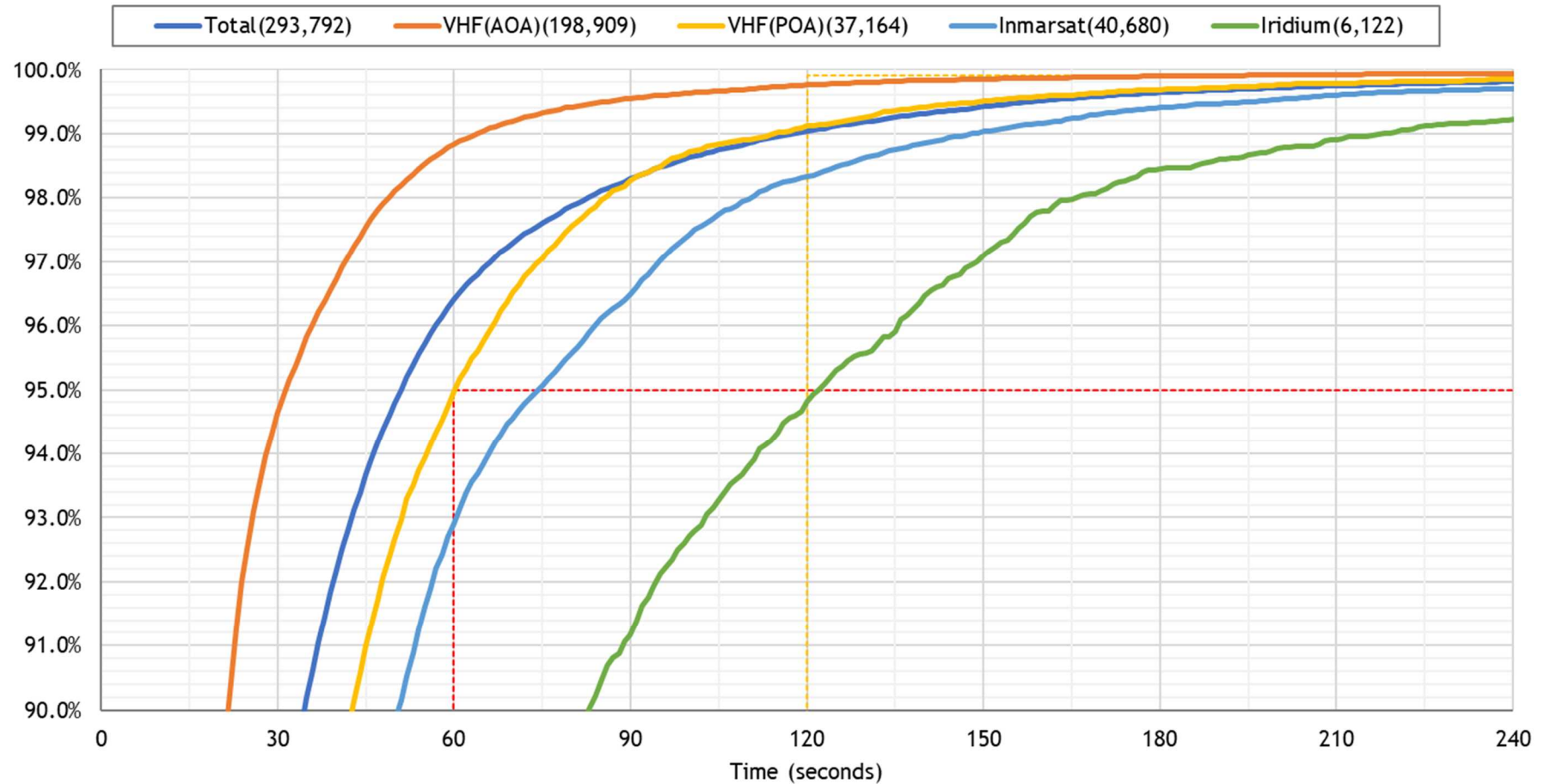
Evaluation period : March to June 2023

Legend:

<span style="background-color: #90EE90; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>	Meets criteria
<span style="background-color: #FFD700; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>	Under criteria but above 99.0%
<span style="background-color: #FFB6C1; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>	Under criteria

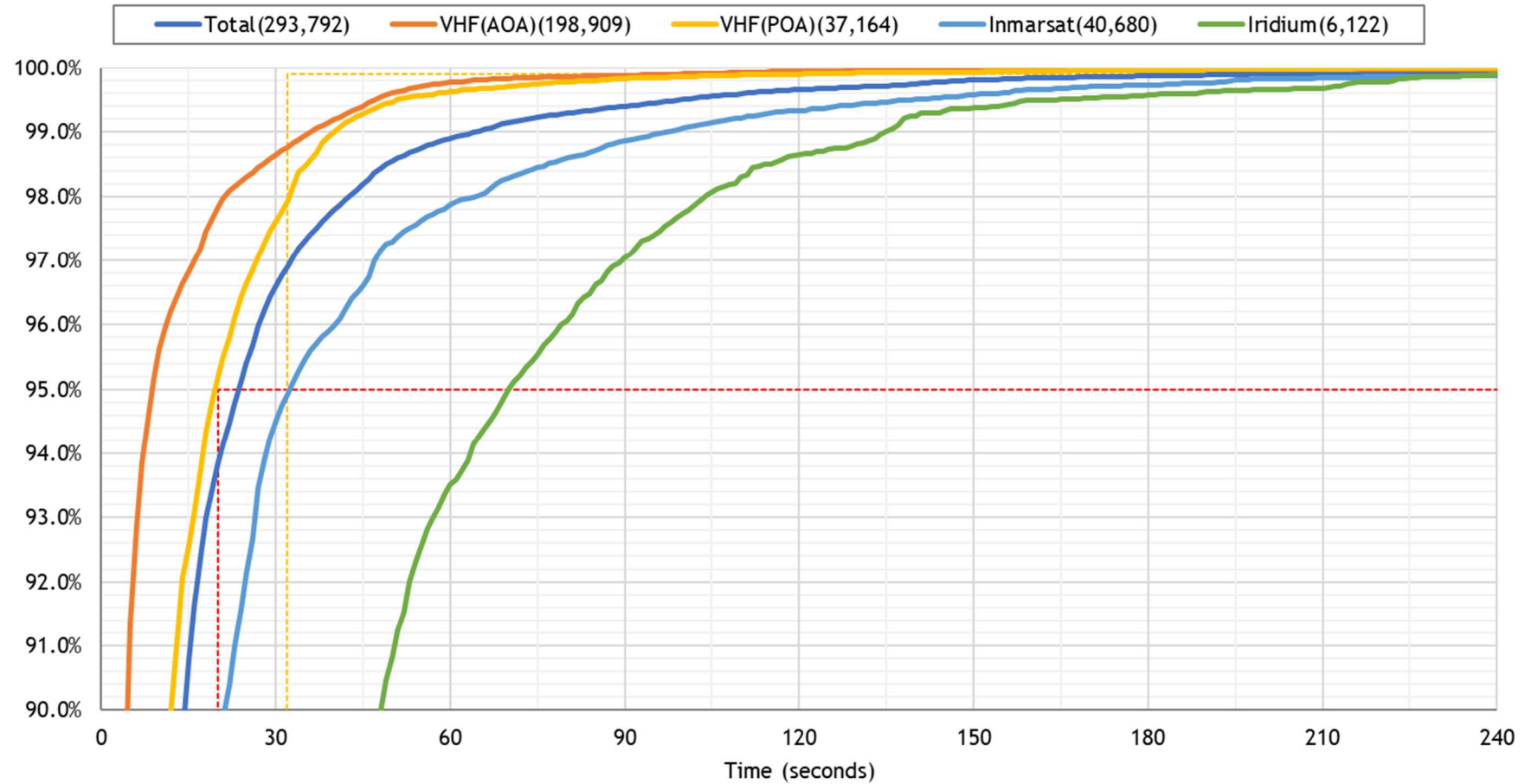
# ACP by Media Type

## Fukuoka FIR - By Media Type - March-June 2023 Domestic CPDLC Actual Communication Performance(ACP)



# ACTP by Media Type

## Fukuoka FIR - By Media Type - March-June 2023 Domestic CPDLC Actual Communication Technical Performance (ACTP)



# PORT by Media Type

## Fukuoka FIR - By Media Type - March-June 2023 Domestic CPDLC Pilot Operational Response Time (PORT)

