



Annual Regional Data Link Performance Report for 2021

CAAC ATMB

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Reporting FIR

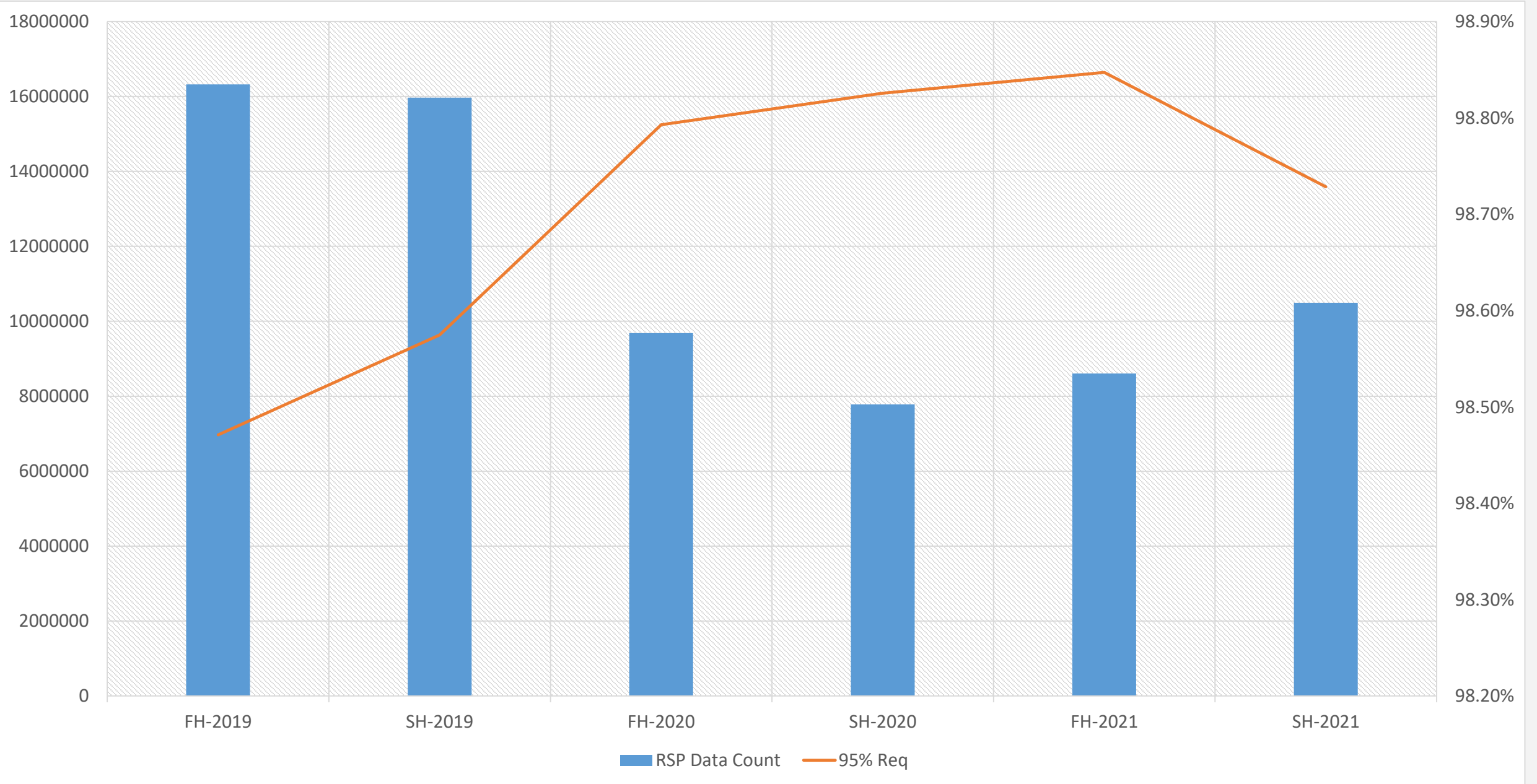
Reporting FIRS			
Code	FIR	State	Collection Source
PAZA	Anchorage Oceanic	United States	IPACG
RJJJ	Fukuoka	Japan	IPACG
KZAK	Oakland Oceanic	United States	ISPACG
NFFF	Nadi	Fiji	ISPACG
NTTT	Tahiti	French Polynesia	ISPACG
NZZO	Auckland Oceanic	New Zealand	ISPACG
YBBB	Brisbane	Australia	ISPACG
YMMM	Melbourne		ISPACG
RPHI	Manila	Philippines	FIT-ASIA
VCCF	Colombo	Sri Lanka	FIT-ASIA
VOMF	Chennai	India	FIT-ASIA
VECF	Calcutta		FIT-ASIA
VVTS	Ho-Chi-Minh	Viet Nam	FIT-ASIA
VYYF	Yangon	Myanmar	FIT-ASIA
WAAF	Ujung Pandang	Indonesia	FIT-ASIA
WSJC	Singapore	Singapore	FIT-ASIA
ZLLL	Lanzhou	China	FIT-ASIA
ZWWW	Urumqi		FIT-ASIA

ASP Consolidated

ACTUAL SURVEILLANCE PERFORMANCE - FIR AGGREGATE (ALL MEDIA TYPES)						
Region	Asia-Pacific Region					
Performance Criteria	RSP180					
Time Period	2021 January-June			2021 July-December		
FIR	Message Counts	Criteria		Message Counts	Criteria	
		95%	99.90%		95%	99.90%
		% <= 90sec	% <= 180sec		% <= 90sec	% <= 180sec
PAZA	1196520	98.89%	99.70%	1217086	98.72%	99.62%
RJJJ	1514208	98.30%	99.64%	1781319	98.39%	99.62%
KZAK	3436520	98.94%	99.69%	4305637	98.56%	99.53%
NFFF	98541	98.89%	99.54%	109885	99.19%	99.69%
NTTT	23879	99.72%	99.88%	42068	99.77%	99.89%
NZZO	151438	99.04%	99.80%	145725	99.13%	99.83%
YBBB	392893	99.49%	99.84%	518548	99.66%	99.89%
YMMM	346329	99.01%	99.52%	383003	99.50%	99.80%
VCCF	256657	98.69%	99.71%	251687	98.89%	99.91%
VECF				315611	98.67%	99.56%
VOMF	126634	98.52%	99.43%	148693	98.59%	99.46%
WSJC	205191	99.19%	99.85%	251035	99.23%	99.85%
ZLLL	142990	98.80%	99.70%	208842	98.80%	99.60%
ZWWW	75034	98.90%	99.70%	101660	98.80%	99.60%
VVTS	177227	98.73%	99.80%	188140	98.85%	99.83%
VYYF	172414	98.89%	99.56%	166438	98.99%	99.63%
RPHI	221669	99.29%	99.83%	273277	99.25%	99.83%
WAAF	66829	99.31%	99.75%	84031	99.38%	99.79%

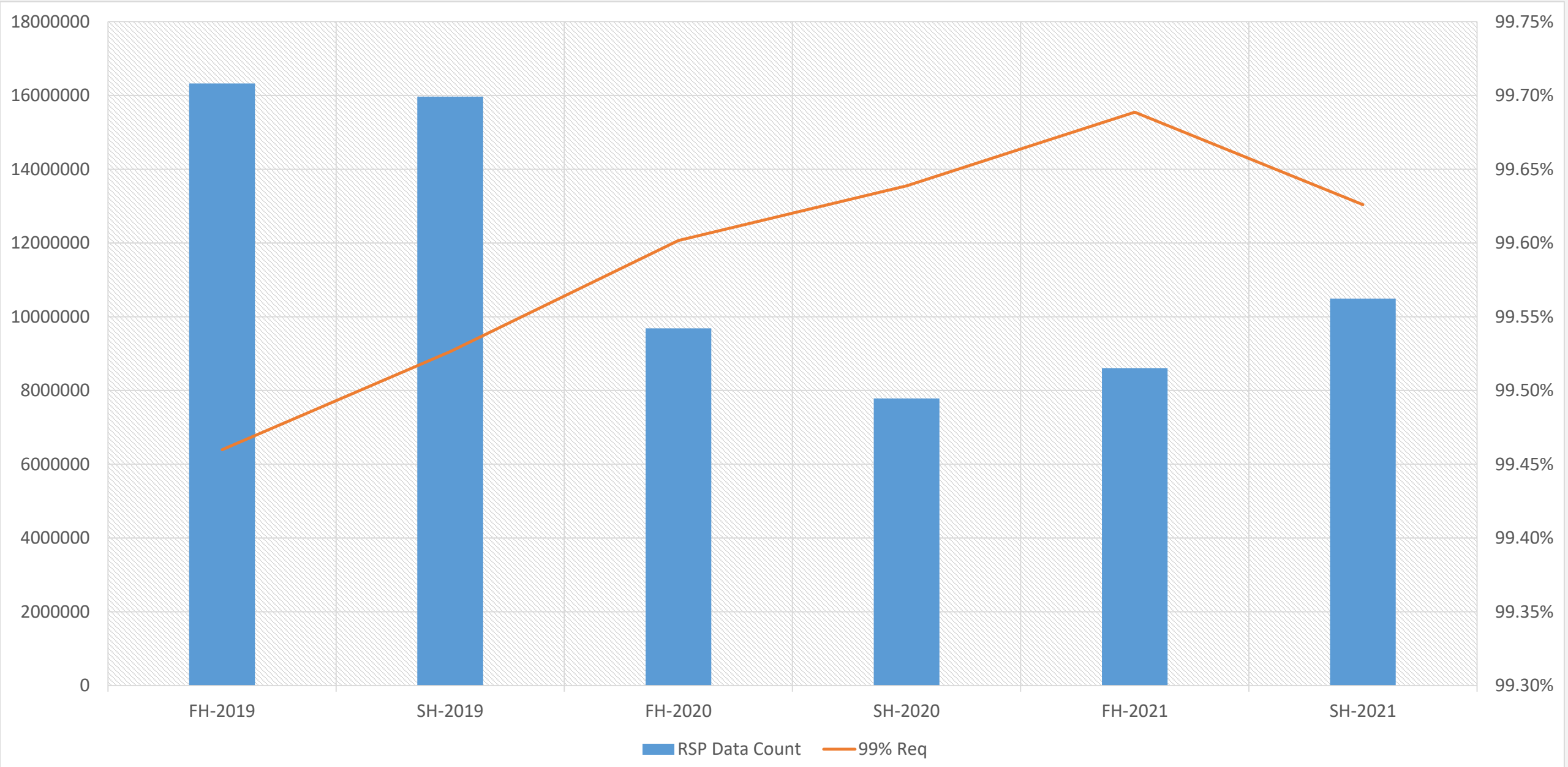


ASP Data General Analysis (95%)





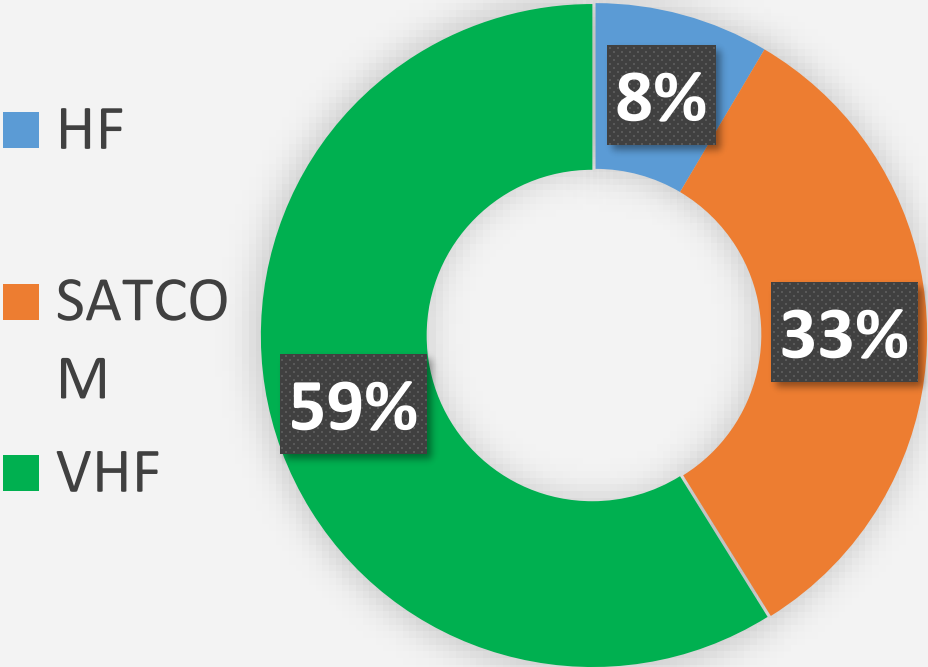
ASP Data General Analysis (99.9%)



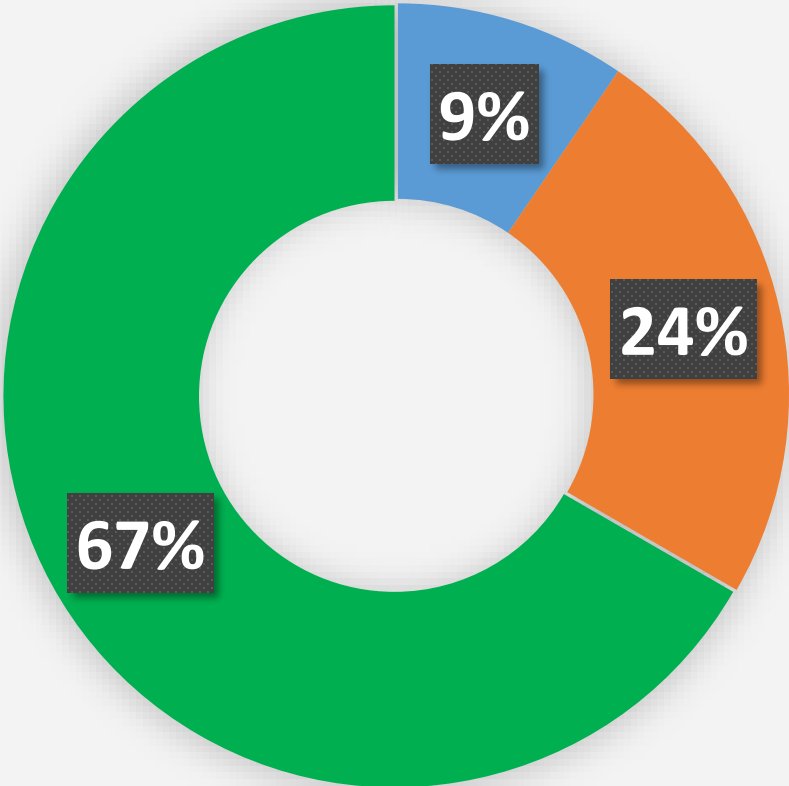


RSP Issues

2020



2021



RSP Issues

- As was stressed in the last meeting, the IG 1 station might need further investigations from stakeholders, since there were general performance in-compliance reported by the 13 FIRs.

Performance Criteria			RSP180					
Period			2021 January-June			2021 July-December		
			Message Counts	Criteria		Message Counts	Criteria	
				95%	99.90%		95%	99.90%
				% <= 90sec	% <= 180sec		% <= 90sec	% <= 180sec
By Media Path Identifier/ Remote Ground Station (RGS) /Ground Earth Station (GES) (only message counts >100 recorded)								
FIR	Designator	Media Type						
KZAK	IG1	SAT	703079	98.16%	99.62%	1071136	97.37%	99.28%
NFFF	IG1	SAT	1326	97.43%	98.79%	1206	97.42%	99.00%
NZZO	IG1	SAT	728	93.54%	98.48%	487	94.25%	98.35%
YBBB	IG1	SAT	3345	95.58%	98.51%	2420	95.45%	98.97%
YMMM	IG1	SAT	1059	99.06%	99.53%	1162	96.90%	98.88%
VECF	IG1	SAT				1120	94.64%	98.66%
VOMF	IG1	SAT	167	86.53%	100.00%	219	81.58%	92.53%
WSJC	IG1	SAT	454	93.83%	99.27%	765	94.12%	99.25%
ZLLL	IG1	SAT	1123	92.96%	99.37%	1089	94.03%	99.35%
ZWWW	IG1	SAT	823	95.26%	98.90%	875	94.85%	99.20%
VYYF	IG1	SAT	384	96.15%	99.67%	501	93.61%	97.92%
RPHI	IG1	SAT	2160	96.06%	98.89%	4710	95.07%	98.98%
WAAF	IG1	SAT	657	93.30%	97.92%	632	93.20%	98.35%

RSP Issues

- Looking from a bright side, we can see that its performance was improved in PAZA, KZAK, NFFF, YBBB, YMMM, VVTS and RPHI FIRs in the period.

Performance Criteria			RSP180					
Period			2020 January-June			2020 July-December		
Colour key ■ Meets criteria ■ 99.0%-99.9% ■ Under criteria			Message Counts			Message Counts		
			Criteria			Criteria		
			95%	99.90%		95%	99.90%	
			% <= 90sec	% <= 180sec		% <= 90sec	% <= 180sec	
By Media Path Identifier/ Remote Ground Station (RGS) /Ground Earth Station (GES) (only message counts >100 recorded)								
FIR	Designator	Media Type						
PAZA	IG1	SAT	81102	95.53%	98.76%	78552	95.74%	98.75%
VOMF	IG1	SAT	595	80.34%	93.82%	436	81.08%	94.53%
WAAF	IG1	VHF	1919	92.55%	97.33%	1708	94.67%	98.77%
RPHI	IG1	SAT	814	79.24%	94.47%	680	81.47%	96.08%
WSJC	IG1	SAT	367	80.38%	97.57%	158	88.86%	100.00%
VVTS	IG1	SAT	657	90.41%	98.74%	630	93.49%	99.54%
NFFF	IG1	SAT	1009	95.63%	98.71%	971	94.64%	97.63%
NTTT	IG1	SAT	150	96.00%	98.00%	163	100.00%	100.00%
NZZO	IG1	SAT	1204	91.27%	96.51%	876	90.06%	97.48%
YBBB	IG1	SAT	3924	91.79%	96.94%	4368	95.38%	98.70%
YMMM	IG1	SAT	822	87.59%	94.77%	814	98.16%	99.39%
ZLLL	IG1	SAT	3195	90.17%	97.90%	9779	90.80%	98.38%
ZWWW	IG1	SAT	1713	91.82%	98.13%	3987	91.42%	98.54%

RSP Issues

- Much like last year, HF results hardly achieve the RSP 240/D requirements in most FIRs.

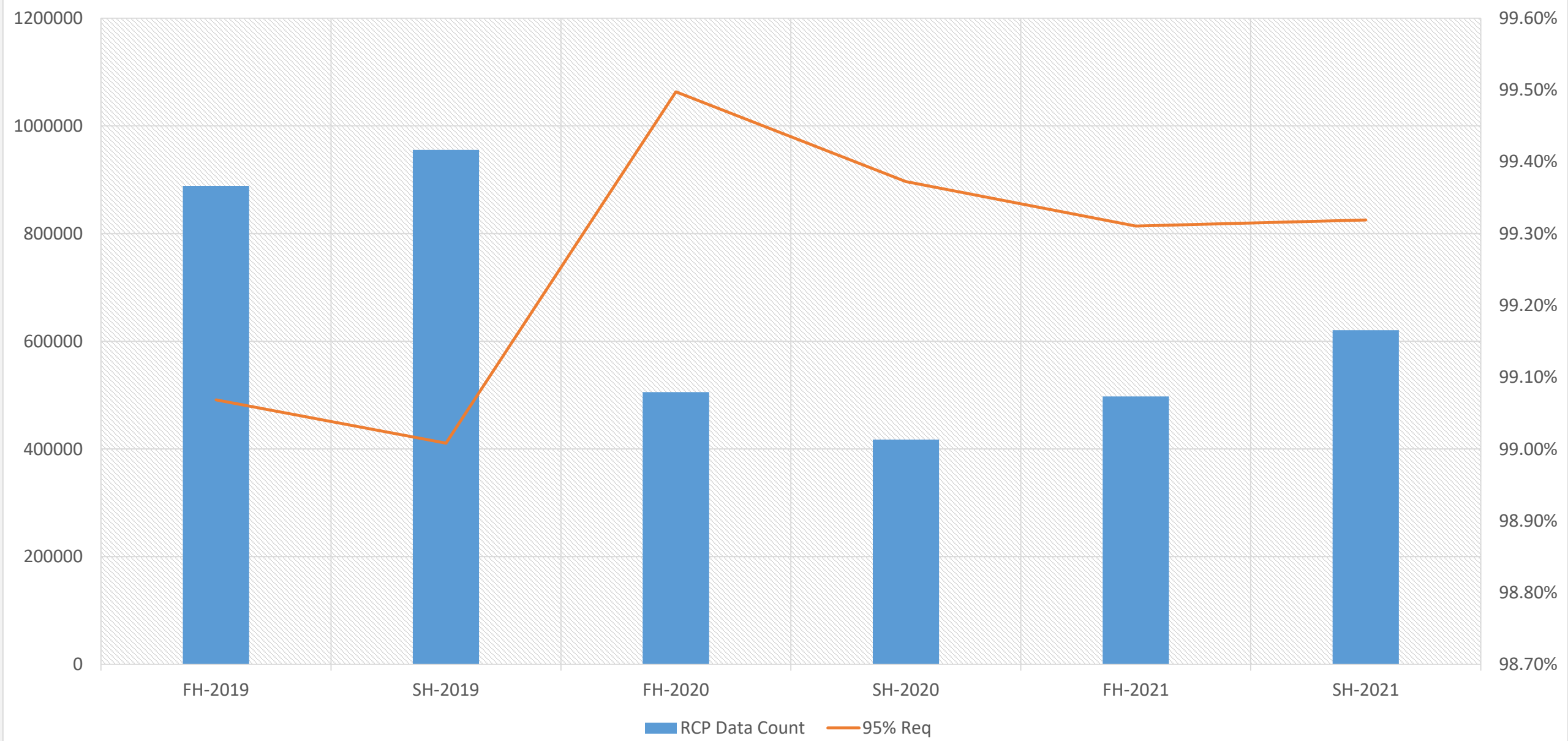
Performance Criteria			RSP180					
Period			2021 January-June			2021 July-December		
Colour key ■ Meets criteria ■ 99.0%-99.9% ■ Under criteria			Message Counts			Message Counts		
			Criteria		Criteria			
			95%	99.90%	95%	99.90%		
			% <= 90sec	% <= 180sec			% <= 90sec	% <= 180sec
FIR	Media Type	(blank)	By Media Type					
PAZA	HF		3354	64.58%	76.86%	3616	54.45%	68.64%
KZAK	HF		5262	66.69%	79.21%	10660	60.30%	74.47%
NFFF	HF		120	75.83%	86.66%	86	83.72%	90.69%
NZZO	HF		71	74.64%	90.14%	83	57.83%	74.69%
YBBB	HF		360	68.06%	83.06%	219	73.06%	84.93%
YMMM	HF		124	77.42%	90.32%	154	60.39%	78.56%
VECF	HF					224	45.98%	64.96%
VOMF	HF		112	17.0%	33.3%	79	47.7%	67.3%
WSJC	HF		59	67.34%	88.27%	56	63.10%	87.10%
ZLLL	HF		19	47.36%	89.47%	34	26.47%	41.17%
ZWWW	HF		11	27.27%	81.81%	6	33.33%	50.00%
VYYF	HF		260	59.04%	75.38%	244	68.44%	81.15%
RPHI	HF		373	84.72%	94.47%	189	79.97%	90.20%
WAAF	HF		100	76.50%	89.28%	86	50.00%	63.41%

ACP Consolidated

ACTUAL COMMUNICATION PERFORMANCE - FIR AGGREGATE (ALL MEDIA TYPES)										
Region	Asia-Pacific Region									
Performance Criteria	RCP240									
Time Period	2021 January-June					2021 July - December				
Colour key Meets criteria 99.0%-99.9% Under criteria	Message Counts	ACP Criteria		ACTP Criteria		Message Counts	ACP Criteria		ACTP Criteria	
		95%	99.90%	95%	99.90%		95%	99.90%		
		% <= 180sec	% <= 210sec	% <= 120sec	% <= 150sec		% <= 180sec	% <= 210sec	% <= 120sec	% <=150sec
FIR										
PAZA	74627	98.79%	99.27%	98.51%	98.96%	75692	98.88%	99.20%	98.76%	99.15%
RJJJ	30889	99.69%	99.83%	99.72%	99.79%	37089	99.70%	99.82%	99.71%	99.80%
KZAK	192490	99.28%	99.51%	99.51%	99.75%	236799	98.97%	99.29%	99.22%	99.52%
NFFF	2185	99.67%	99.72%	99.86%	99.81%	3148	99.68%	99.71%	99.84%	99.77%
NTTT	730	100.00%	100.00%	100.00%	100.00%	1329	99.69%	100.00%	99.77%	100.00%
NZZO	3431	99.76%	99.88%	99.88%	99.91%	3222	99.78%	99.87%	99.90%	99.93%
YBBB	11591	99.42%	99.33%	99.60%	99.57%	14683	99.62%	99.39%	99.77%	99.58%
YMMM	13777	99.32%	99.36%	99.47%	99.51%	14850	99.48%	99.50%	99.60%	99.66%
VCCF	8037	98.68%	99.70%	99.26%	99.91%	8360	98.27%	99.57%	99.21%	99.89%
VECF						22069	99.49%	99.67%	99.49%	99.67%
VOMF	34545	99.74%	99.85%	99.85%	99.89%	56992	99.72%	99.82%	99.84%	99.89%
WSJC	14786	99.19%	99.45%	99.30%	99.46%	23916	99.16%	99.49%	99.26%	99.47%
ZLLL	1582	97.97%	98.04%	98.98%	99.11%	1759	98.06%	98.29%	98.69%	98.80%
ZWWW	147	97.27%	97.95%	98.63%	98.63%	80	100.00%	100.00%	100.00%	100.00%
VVTS	43261	95.94%	96.45%	99.43%	99.72%	44881	95.70%	96.30%	99.59%	99.77%
VYYF	47863	98.45%	98.73%	98.76%	99.05%	48746	98.67%	98.99%	99.07%	99.33%
RPHI	6412	98.48%	98.67%	99.02%	99.24%	12973	98.75%	98.91%	99.24%	99.41%
WAAF	11281	98.78%	98.99%	99.76%	99.80%	13841	99.27%	99.40%	99.85%	99.88%

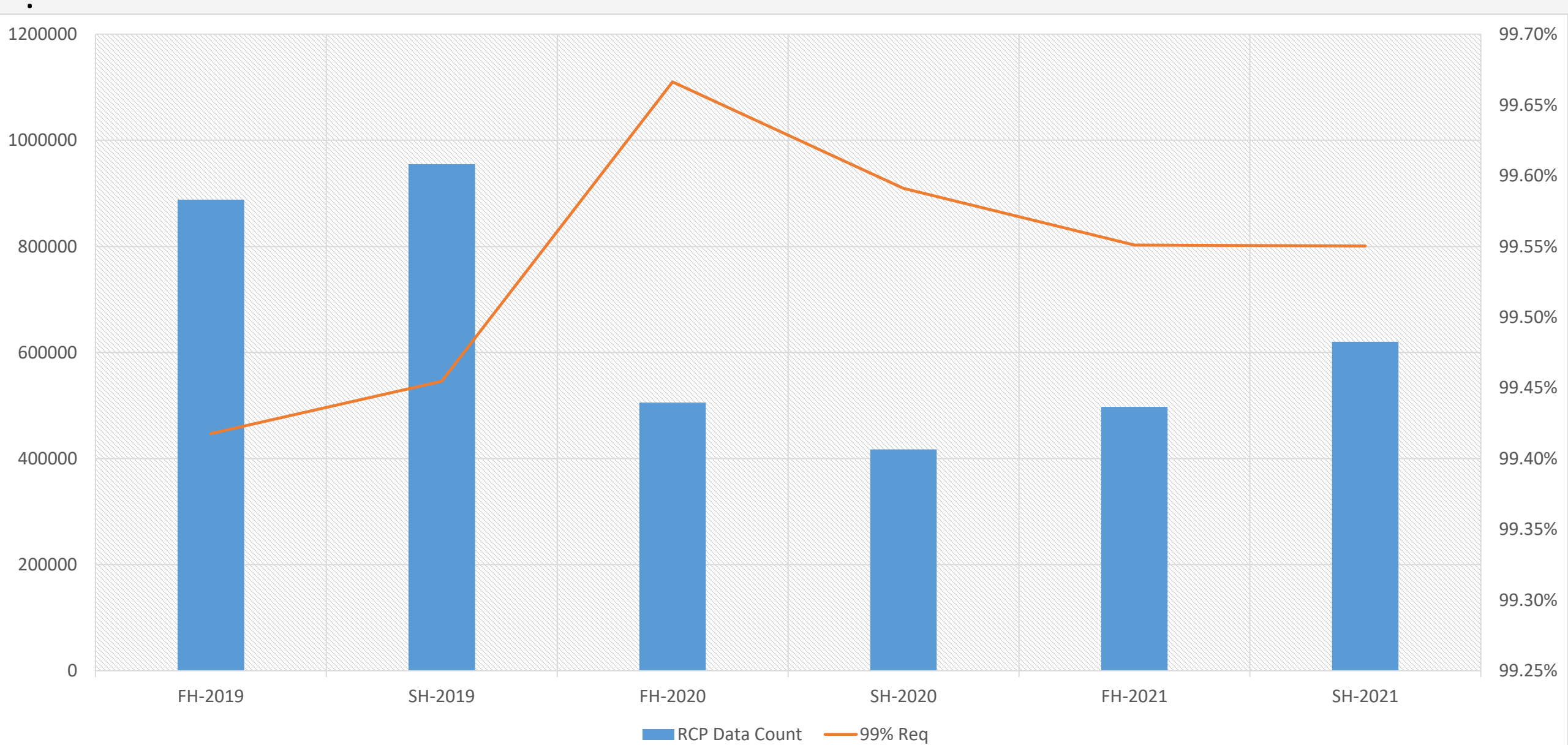


ACTP Data General Analysis (95%)



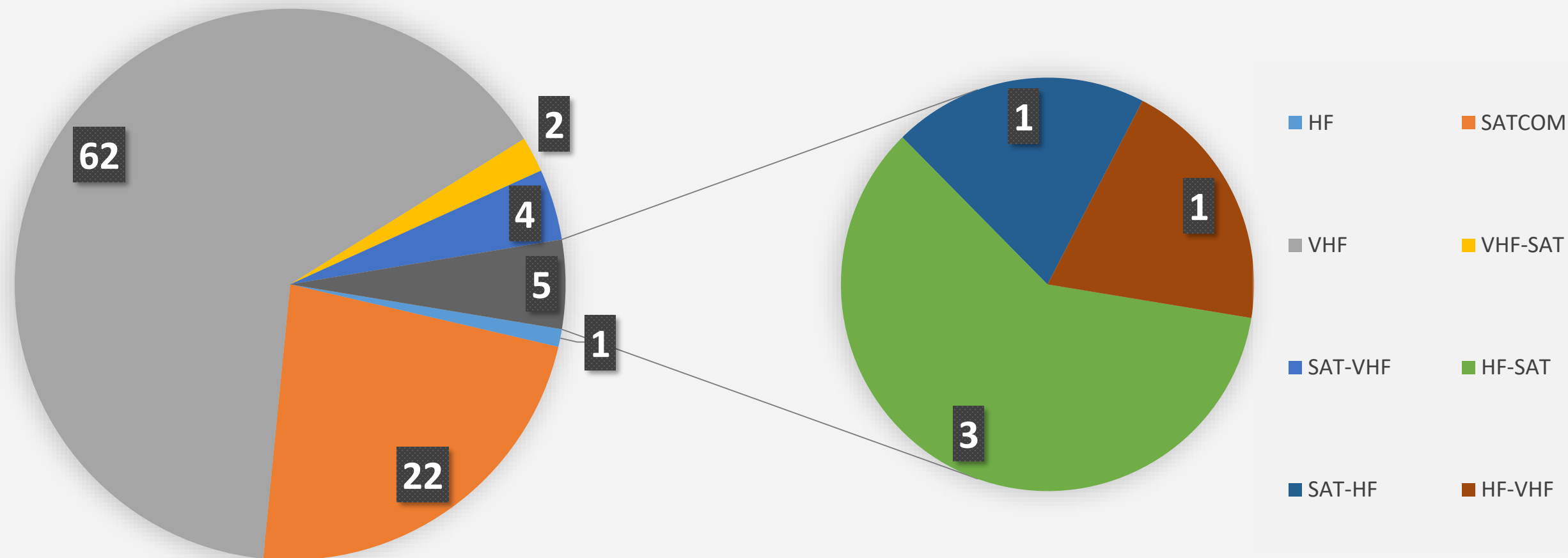


ACTP Data General Analysis (99.9%)



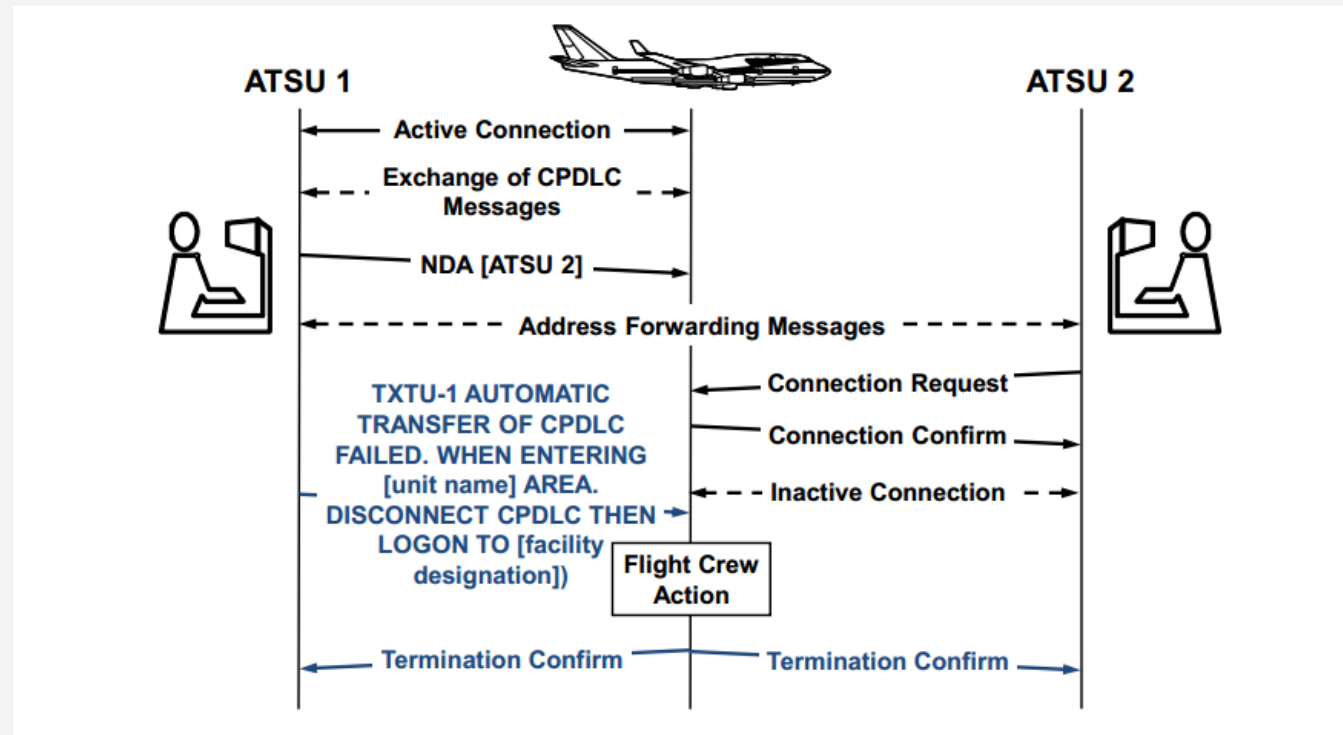
RCP Issues

RCP in compliant Media are more divergent than the RSP issues, especially for the 99.9% requirements.



RCP Issues

·PORT requirements were not met by a number of operators. The operators may firstly investigate their avionic systems or software updates. If the avionic systems are appropriately set, consider reaching the operators to stress the SARP described in the *GOLD Manual* to improve their data link operation.



RCP Issues

- Below are the operators/ fleet with PORT compliance challenge. (data>1k)

Performance Criteria			RCP240										
Period			2021 January-June					2021 July-December					
FIR	Aircraft Operator / Type	Message Counts	ACP Criteria		ACTP Criteria		PORT	Message Counts	ACP Criteria		ACTP Criteria		PORT
			95%	99.90%	95%	99.90%	95%		95%	99.90%	95%	99.90%	95%
			% <= 180sec	% <= 210sec	% <= 120sec	% <= 150sec	% <= 60sec		% <= 180sec	% <= 210sec	% <= 120sec	% <= 150sec	% <= 60sec
By Aircraft Operator / Type (only message counts >100 recorded)													
PAZA	AAR/B744	1177	91.08%	93.63%	93.20%	96.60%	87.09%	12205	95.53%	97.11%	96.21%	97.47%	93.90%
PAZA	ACA/B77W	8170	97.65%	98.34%	99.85%	99.94%	92.28%	7608	97.96%	98.48%	99.79%	99.89%	92.69%
PAZA	ACA/B788	4054	95.54%	96.14%	99.69%	99.88%	92.50%	4372	95.55%	96.29%	99.39%	99.46%	92.92%
PAZA	ACA/B789	6148	98.67%	99.12%	99.41%	99.63%	92.84%	4095	98.24%	98.66%	99.49%	99.80%	92.77%
PAZA	CES/B77W	2889	97.06%	98.65%	95.88%	96.95%	93.18%	2868	98.29%	98.78%	97.73%	98.36%	94.25%
RJJJ	CKS/B744	4105	94.67%	95.35%	99.24%	99.53%	90.21%	2702	94.89%	95.85%	99.16%	99.59%	92.36%
PAZA	CPA/A35K	2101	96.80%	97.24%	100.00%	100.00%	94.48%	2655	96.41%	96.71%	99.97%	99.97%	93.92%
RJJJ	CPA/A35K							2649	90.86%	92.53%	93.02%	94.79%	88.94%
PAZA	CPA/B77W	939	98.94%	99.36%	99.47%	99.79%	94.04%	1808	96.18%	97.35%	97.90%	99.12%	90.21%
PAZA	EVA/B77L	2109	96.11%	97.15%	97.15%	98.01%	92.03%	1640	95.98%	96.95%	96.52%	97.93%	90.43%
PAZA	EVA/B77L	2109	96.11%	97.15%	97.15%	98.01%	92.03%	1640	95.98%	96.95%	96.52%	97.93%	90.43%
PAZA	FDX/B763	1017	98.92%	99.21%	100.00%	100.00%	95.18%	1573	98.54%	98.79%	99.81%	99.81%	94.91%
PAZA	KAL/B748	1463	98.09%	98.70%	98.36%	98.77%	93.64%	1496	98.53%	98.86%	98.73%	99.00%	95.79%
PAZA	MIL/K35R	1033	96.66%	96.88%	99.25%	99.91%	93.80%	1448	96.60%	96.87%	98.80%	99.84%	94.95%
PAZA	NWS/B77W	1714	97.26%	97.61%	96.56%	96.97%	94.92%	1396	97.56%	97.85%	97.28%	97.71%	96.13%
RJJJ	RCH/C17	837	99.28%	99.52%	92.00%	97.61%	87.34%	1293	98.84%	99.30%	96.29%	98.69%	91.72%
RJJJ	UAL/B738	1340	96.72%	97.54%	97.61%	98.81%	90.90%	1284	96.34%	97.12%	97.04%	98.13%	92.68%
PAZA	UAL/B77W	1146	96.25%	98.87%	95.38%	96.07%	94.42%	1278	97.89%	98.67%	97.42%	98.12%	96.87%
PAZA	UPS/B748	983	96.27%	96.72%	98.93%	99.47%	94.81%	1197	96.04%	96.49%	99.56%	99.88%	94.07%
PAZA	WGN/MD11	1324	93.37%	94.03%	98.94%	99.70%	89.65%	1122	92.93%	93.35%	99.70%	100.00%	89.36%
KZAK	AAL/A21N	538	96.02%	96.70%	96.89%	97.61%	94.67%	1046	96.58%	96.87%	97.39%	98.11%	94.86%
KZAK	ACA/B38M	105	98.10%	99.05%	96.19%	99.05%	96.19%	1028	97.57%	98.35%	96.50%	97.76%	93.19%
KZAK	ASA/B39M	1405	96.50%	96.99%	99.70%	99.88%	94.23%	923	97.42%	97.57%	99.53%	99.77%	95.45%
KZAK	ASA/B738	2328	97.34%	98.88%	96.09%	96.95%	92.61%	915	97.27%	98.14%	96.61%	97.16%	91.80%
KZAK	CES/B77W	1106	98.28%	98.82%	99.55%	99.55%	91.68%	802	98.63%	99.00%	99.88%	99.88%	93.14%
KZAK	CPA/B748	1244	87.54%	88.93%	89.39%	91.24%	84.32%	784	88.27%	89.97%	89.50%	91.96%	85.46%

An aerial rendering of a modern airport terminal building with a distinctive star-like or multi-lobed design. The terminal has a prominent orange-colored roof and is illuminated from within, casting a warm glow. It is surrounded by multiple runways, taxiways, and numerous aircraft parked at gates. The surrounding landscape is a mix of green fields and urban areas, with a city skyline visible in the distance under a clear sky.

Thank you

谢谢聆听