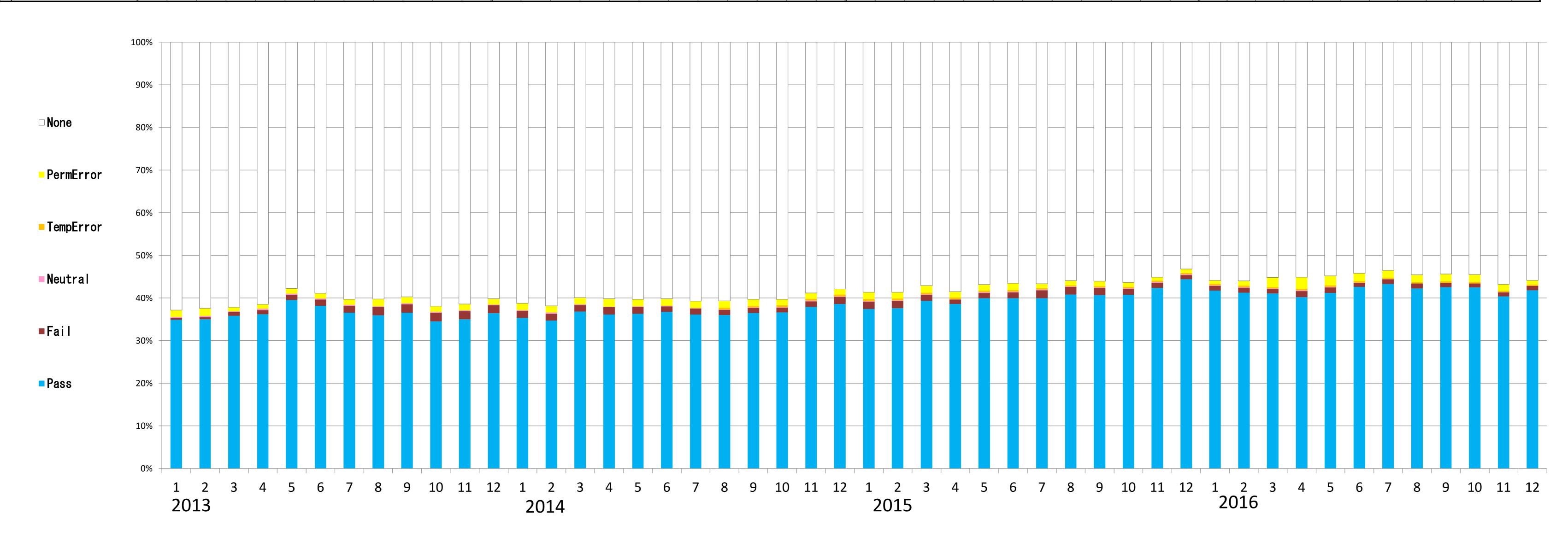
送信ドメイン認証結果の集計(DKIM)(2025年3月時点)

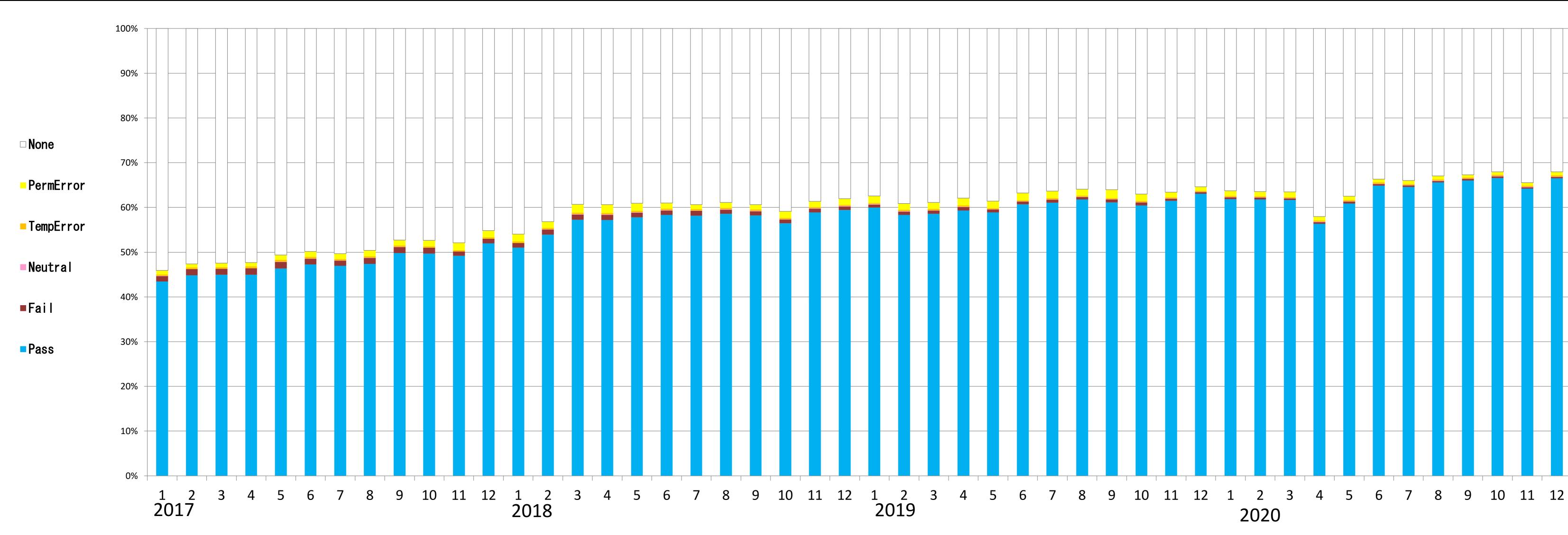
							2013	3年											2014	Ŧ											2015年	1											201	6年					
		1月	2月	3月	4月	5月	6月	7月	8月	9月	10月	11月	12月	1月	2月	3月	4月	5月	6月	7月 8	月(9月 1	0月 1	11月	12月	1月	2月	3月	4月	5月 6	月	7月	8月	9月	10月	11月 1	12月	1月	2月	3月	4月	5月	6月	7月	8月	9月	10月	11月	12月
The number o	of data ISP	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ratio of DKIM																																																1	
																																																1	
None	no signature	62.81%	62.42%	62.14%	61.49%	57.76%	58.87%	60.31%	60.26%	59.74%	61.91%	61.42%	60.16%	61.22%	61.87%	59.92%	60.17%	60.28%	60.16%	60.71%	0.65%	60.29% 6	60.29%	58.85%	57.87%	58.61%	58.63%	57.10%	58.52%	56.84%	6.56%	56.66%	55.94%	56.02%	56.36%	55.10%	53.21%	55.83%	55.99%	55.21%	55.09%	54.81%	54.21%	53.49%	54.54%	54.35%	54.51%	56.81%	% 55
Neutral	bad format	0.30%	0.35%	0.24%	0.32%	0.31%	0.24%	0.23%	0.21%	0.25%	0.19%	0.20%	0.17%	0.22%	0.28%	0.16%	0.13%	0.13%	0.13%	0.10%	0.08%	0.09%	0.15%	0.16%	0.17%	0.13%	0.11%	0.10%	0.12%	0.15%	0.19%	0.18%	0.16%	0.17%	0.17%	0.19%	0.16%	0.15%	0.16%	0.16%	0.15%	0.14%	0.11%	0.03%	0.03%	0.03%	0.03%	0.03%	% 0
Pass	good	34.86%	35.02%	35.80%	36.19%	39.52%	38.15%	36.53%	35.95%	36.55%	34.49%	34.98%	36.45%	35.33%	34.71%	36.79%	36.14%	36.29%	36.73%	36.11%	6.02%	36.45% 3	36.59%	37.89%	38.56%	37.41%	37.59%	39.35%	38.60%	39.95%	9.96%	39.94%	40.80%	40.65%	40.75%	42.37%	44.37%	41.71%	41.23%	41.03%	40.18%	41.18%	42.62%	43.28%	42.24%	42.54%	42.49%	40.34%	4 1.
Fail (bad)	bad	0.38%	0.45%	0.84%	0.98%	1.18%	1.48%	1.61%	1.89%	1.95%	2.07%	1.91%	1.83%	1.63%	1.60%	1.57%	1.71%	1.60%	1.29%	1.40%	1.19%	1.21%	1.12%	1.32%	1.67%	1.74%	1.74%	1.41%	1.01%	1.23%	1.35%	1.85%	1.78%	1.67%	1.34%	1.20%	1.02%	1.12%	1.16%	1.06%	1.46%	1.30%	0.88%	1.11%	1.14%	0.96%	0.89%	0.96%	% 1.0
TempError	revoked	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.00%	0.01%	0.02%	0.07%	0.01%	0.00%	0.01%	0.00%	0.01%	0.05%	0.06%	0.09%	0.41%	0.38%	0.39%	0.46%	0.43%	0.45%	0.42%	0.39%	0.42%	0.40%	0.38%	0.32%	0.22%	0.26%	0.35%	0.30%	0.34%	0.35%	0.33%	0.32%	0.35%	0.34%	0.33%	0.33%	0.32%	0.33%	0.34%	0.31%	% 0.3
PermError	no key	1.64%	1.75%	0.97%	1.00%	1.21%	1.25%	1.30%	1.68%	1.50%	1.31%	1.43%	1.38%	1.60%	1.54%	1.56%	1.85%	1.65%	1.63%	1.59%	1.65%	1.57%	1.47%	1.32%	1.29%	1.65%	1.51%	1.66%	1.34%	1.43%	1.57%	1.05%	1.11%	1.23%	1.03%	0.84%	0.91%	0.83%	1.14%	2.23%	2.77%	2.24%	1.85%	1.76%	1.73%	1.79%	1.74%	1.55%	1. (



※出典:電気通信事業者5社の協力により、総務省がとりまとめ

送信ドメイン認証結果の集計(DKIM)(2025年3月時点)

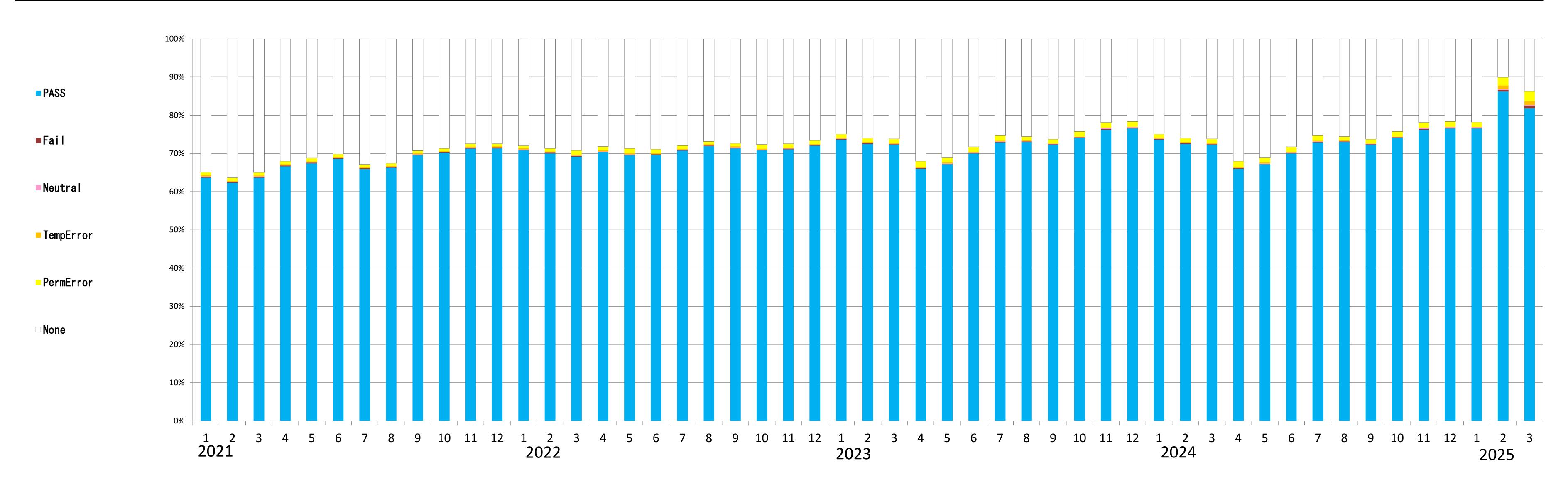
							20	017年												2018	 3年											2019숙	 年											2020	 年					
		1月	2月	3月	4月	5月	6月	7月	8月	9月	1	0月 1	1月 1	12月	1月	2月	3月	4月	5月	6月	7月	8月	9月	10月	11月	12月	1月	2月	3月	4月	5月 6	3月	7月	8月 9	9月 1	0月	11月 1	2月	1月	2月	3月	4月	5月	6月	7月	8月	9月	10月	11月	 12月
The number o	of data ISP	4	4	4	4	4	4	4	4	4		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
the ratio of DKIM																		***************************************] 1 1 1 1																											
① None	no signature	54.08%	52.60%	52.47%	52.31%	50.65%	49.84	% 50.35	5% 49.5	59% 47	.28% 4	17.37%	47.89%	45.18%	45.95%	43.18%	39.33%	39.35%	39.04%	39.00%	39.35%	38.90%	39.36%	40.91%	38.65%	38.02%	37.46%	39.13%	38.91%	37.93%	38.57% 3	36.77%	36.33%	35.93%	36.03% 3	37.00%	36.58%	35.38%	36.26%	36.48%	36.53%	42.04%	37.49%	33.70%	33.99%	32.96%	32.70%	32.05%	34.45%	32.03%
2 Neutral	bad format	0.04%	0.04%	0.04%	0.03%	0.03%	0.03	% 0.03	3% 0.0	03% 0	.03%	0.03%	0.04%	0.04%	0.04%	0.05%	0.09%	0.11%	0.11%	0.09%	0.09%	0.11%	0.12%	0.10%	0.10%	0.11%	0.08%	0.11%	0.09%	0.08%	0.07%	0.06%	0.06%	0.06%	0.06%	0.06%	0.06%	0.06%	0.06%	0.06%	0.06%	0.09%	0.09%	0.08%	0.08%	0.09%	0.08%	0.09%	0.09%	0.09%
3 Pass	good	43.43%	44.80%	44.95%	44.94%	46.31%	47.22	% 46.95	5% 47.3	36% 49	.79% 4	19.69%	49.20%	51.96%	50.98%	53.89%	57.26%	57.20%	57.76%	58.33%	58.16%	58.55%	58.20%	56.43%	58.87%	59.44%	59.94%	58.30%	58.57%	59.32%	58.88% 6	60.68%	61.05%	61.77%	61.13% 6	0.43%	61.45%	63.02%	61.83%	61.79%	61.67%	56.35%	60.88%	64.87%	64.55%	65.60%	66.00%	66.53%	64.20%	66.50%
4 Fail (bad)	bad	1.22%	1.40%	1.31%	1.44%	1.48%	1.32	% 1.17	7% 1.3	35% 1	.34%	1.29%	0.94%	1.02%	1.03%	1.14%	1.15%	1.14%	1.07%	1.00%	1.05%	0.95%	0.92%	0.84%	0.85%	0.76%	0.70%	0.78%	0.71%	0.77%	0.64%	0.59%	0.68%	0.55%	0.63%	0.67%	0.48%	0.41%	0.43%	0.42%	0.36%	0.36%	0.39%	0.35%	0.35%	0.31%	0.35%	0.41%	0.32%	0.30%
⑤ TempError	revoked	0.35%	0.37%	0.35%	0.39%	0.47%	0.38	% 0.33	3% 0.3	31% 0	.31%	0.32%	0.31%	0.31%	0.33%	0.32%	0.29%	0.31%	0.32%	0.31%	0.32%	0.31%	0.30%	0.29%	0.28%	0.28%	0.29%	0.28%	0.27%	0.28%	0.27%	0.26%	0.26%	0.24%	0.26%	0.29%	0.25%	0.25%	0.26%	0.25%	0.25%	0.26%	0.29%	0.27%	0.26%	0.26%	0.26%	0.26%	0.26%	0.28%
6 PermError	no key	0.88%	0.79%	0.87%	0.88%	1.06%	1.22	% 1.17	7% 1.3	35% 1	.25%	1.29%	1.63%	1.50%	1.67%	1.41%	1.89%	1.88%	1.70%	1.28%	1.03%	1.18%	1.10%	1.43%	1.25%	1.40%	1.52%	1.41%	1.44%	1.62%	1.57%	1.63%	1.62%	1.44%	1.89%	1.54%	1.18%	0.88%	1.16%	0.99%	1.13%	0.90%	0.86%	0.74%	0.77%	0.79%	0.62%	0.66%	0.68%	0.79%



※出典:電気通信事業者5社の協力により、総務省がとりまとめ

送信ドメイン認証結果の集計(DKIM)(2025年3月時点)

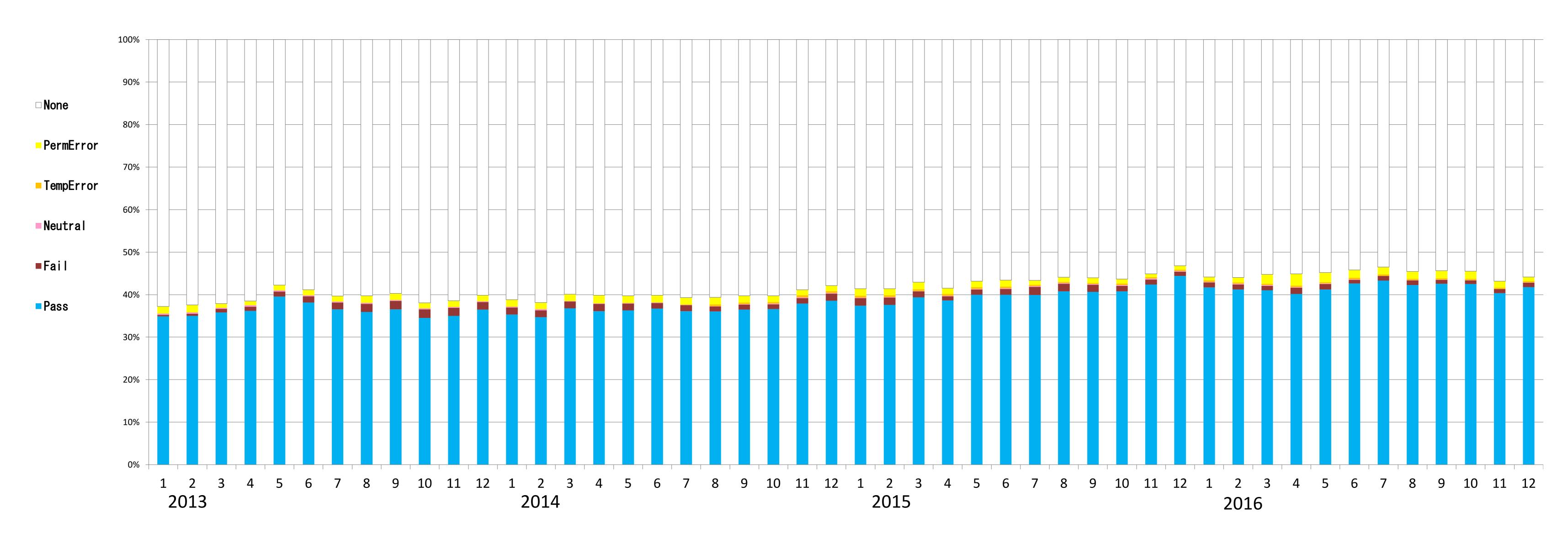
								2021年												20	022年											20234	年											202	4年							2025年
		1月	2月	3月	4月	5月	6月	7月	8月	9月	10月	1	1月 1	2月	1月	2月	3月	4月	5月	6月	7月	8月	9月	10月	11月	12月	1月	2月	3月	4月	5月	6月	7月 8	3月	9月	10月 1	1月 1	2月	1月	2月	3月	4月	5月	6月	7月	8月	9月	10月	11月	12月	1月	2月
The number	r of data ISP	4	3	3	4	4	4	4	4	4	4	į	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5
he ratio of DKIM																																																				
① None	no signature	34.89	% 36.389	34.97	32.02%	% 31.2	3% 30.1	3% 32.	87% 32.5	5% 29.	.23% 28.	.64%	27.46%	27.45%	28.01%	28.65%	29.22%	28.19	% 28.65	% 28.84	·% 27.9	2% 26.8	33% 27.29	9% 27.67	7% 27.4	26.599	24.88%	26.01%	26.20%	32.03%	31.14%	28.23%	25.32% 2	25.55%	26.27%	24.28%	21.87%	21.66%	24.88%	26.01%	26.20%	32.03%	31.14%	28.23%	25.32%	25.55%	26.27%	24.28%	21.87%	21.66%	21.80%	10.05%
② Neutral	bad format	0.08	% 0.029	0.03	6 0.03%	% 0.0	3% 0.0	3% 0.	03% 0.0	3% 0.	.03% 0.	.03%	0.04%	0.03%	0.03%	0.04%	0.05%	0.04	% 0.05	% 0.05	0.0	5% 0.0	0.00	6% 0.05	5% 0.04	0.049	0.04%	0.04%	0.05%	0.05%	0.09%	0.10%	0.14%	0.12%	0.13%	0.13%	0.24%	0.17%	0.04%	0.04%	0.05%	0.05%	0.09%	0.10%	0.14%	0.12%	0.13%	0.13%	0.24%	0.17%	0.15%	0.20%
3 Pass	good	63.62	% 62.29 ⁹	63.67	66.59%	67.3	9% 68.5	65.	89% 66.2	5% 69.	.52% 70.	.11%	71.29%	71.36%	70.80%	70.01%	69.11%	70.31	% 69.55	% 69.58	70.7	7% 71.9	90% 71.3°	7% 70.77	7% 71.10	72.019	73.64%	72.51%	72.25%	66.00%	67.19%	69.97%	72.87% 7	73.01%	72.30%	74.05%	76.19%	76.59%	73.64%	72.51%	72.25%	66.00%	67.19%	69.97%	72.87%	73.01%	72.30%	74.05%	76.19%	76.59%	76.57%	86.23%
4 Fail (bad)	bad	0.29	% 0.249	0.24	6 0.26%	% 0.2	3% 0.2	2% 0.	21% 0.1	9% 0.	.22% 0.	.22%	0.21%	0.24%	0.21%	0.22%	0.24%	0.17	% 0.21	% 0.19	0.1	7 % 0 .1	7% 0.19	9% 0.19	9% 0.18	0.199	0.20%	0.19%	0.19%	0.13%	0.13%	0.13%	0.14%	0.12%	0.11%	0.14%	0.25%	0.17%	0.20%	0.19%	0.19%	0.13%	0.13%	0.13%	0.14%	0.12%	0.11%	0.14%	0.25%	0.17%	0.16%	0.45%
5 TempError	revoked	0.30	% 0.289	0.28	6 0.289	% 0.2	9% 0.2	3% 0.	30% 0.3	0% 0.	.29% 0.	.27%	0.27%	0.26%	0.27%	0.25%	0.25%	0.26	% 0.24	% 0.23	0.2	4% 0.2	25% 0.2	5% 0.26	6% 0.23	0.259	0.26%	0.24%	0.25%	0.22%	0.24%	0.25%	0.23%	0.24%	0.09%	0.05%	0.06%	0.05%	0.26%	0.24%	0.25%	0.22%	0.24%	0.25%	0.23%	0.24%	0.09%	0.05%	0.06%	0.05%	0.09%	0.90%
<pre>6 PermError</pre>	no key	0.83	% 0.789	0.81	6 0.829	% 0.8	3% 0.7	9% 0.	70% 0.6	7% 0.	.70% 0.	74%	0.74%	0.66%	0.68%	0.83%	1.13%	1.02	% 1.30	1.10	0.8	5% 0.7	79% 0.84	4% 1.07	7% 0.99	0.929	0.97%	1.00%	1.07%	1.58%	1.22%	1.31%	1.30%	0.97%	1.09%	1.36%	1.39%	1.36%	0.97%	1.00%	1.07%	1.58%	1.22%	1.31%	1.30%	0.97%	1.09%	1.36%	1.39%	1.36%	1.24%	2.17%



※出典:電気通信事業者5社の協力により、総務省がとりまとめ

The situation of DKIM (as of March 2025)

								2013年													2014年												2015	年											201	6年					
		1月	2月	3月	4月	5月	6月] ;	7月	8月	9月	10月	11月	12月	1月	2月	3月	4月	5月	6月	7)	月 8	月 9	9月	10月	11月	12月	1月	2月	3月	4月	5月	6月	7月	8月	9月	10月	11月	12月	1月	2月	3月	4月	5月	6月	7月	8月	9月	10月	11月	12月
The number	of data ISP	4	4	4	4	4	4		4	4	4	4	4	4	4	4	4	4	4	4	4	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
the ratio of DKIM																																																			IIIIIII
① None	no signature	62.819	62.429	62.14	61.49	9% 57.70	6% 58	.87%	60.31%	60.26%	59.74%	61.91%	61.42	% 60.10	61.2	2% 61.8	37% 59.9	2% 60.1	7% 60.2	28% 60.1	16% 60).71% 6	0.65%	60.29%	60.29%	58.85%	57.87%	58.61%	58.63%	57.10%	58.52%	56.84%	56.56%	56.66%	55.94%	56.02%	56.36%	55.10%	53.21%	55.83%	55.99%	55.21%	55.09%	54.81%	54.21%	53.49%	54.54%	54.35%	54.51%	56.81%	55.84%
② Neutral	bad format	0.309	0.35%	0.24	% 0.32	2% 0.3	1% 0.	.24%	0.23%	0.21%	0.25%	0.19%	0.20	% 0.1	7% 0.2	2% 0.2	28% 0.1	6% 0.1	3% 0.	13% 0.1	13% 0).10%	0.08%	0.09%	0.15%	0.16%	0.17%	0.13%	0.11%	0.10%	0.12%	0.15%	0.19%	0.18%	0.16%	0.17%	0.17%	0.19%	0.16%	0.15%	0.16%	0.16%	0.15%	0.14%	0.11%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%
3 Pass	good	34.869	35.029	35.80	36.19	39.52	2% 38	.15%	36.53%	35.95%	36.55%	34.49%	34.98	% 36.4 5	5% 35.3	3% 34.7	71% 36.7	9% 36.1	4% 36.2	29% 36.7	73% 36	3.11%	6.02%	36.45%	36.59%	37.89%	38.56%	37.41%	37.59%	39.35%	38.60%	39.95%	39.96%	39.94%	40.80%	40.65%	40.75%	42.37%	44.37%	41.71%	41.23%	41.03%	40.18%	41.18%	42.62%	43.28%	42.24%	42.54%	42.49%	40.34%	41.78%
4 Fail (bad)	bad	0.389	0.45%	0.84	0.98	3% 1.18	8% 1.	.48%	1.61%	1.89%	1.95%	2.07%	1.91	% 1.83	3% 1.6	3% 1.6	60% 1.5	7% 1.7	1% 1.6	30% 1.2	29% 1	.40%	1.19%	1.21%	1.12%	1.32%	1.67%	1.74%	1.74%	1.41%	1.01%	1.23%	1.35%	1.85%	1.78%	1.67%	1.34%	1.20%	1.02%	1.12%	1.16%	1.06%	1.46%	1.30%	0.88%	1.11%	1.14%	0.96%	0.89%	0.96%	1.04%
⑤ TempError	revoked	0.019	0.019	0.01	% 0.02	2% 0.0	1% 0	.01%	0.01%	0.00%	0.01%	0.02%	0.07	% 0.0°	1% 0.0	0.0	0.0	0.0	0.0	0.0	06% 0	0.09%	0.41%	0.38%	0.39%	0.46%	0.43%	0.45%	0.42%	0.39%	0.42%	0.40%	0.38%	0.32%	0.22%	0.26%	0.35%	0.30%	0.34%	0.35%	0.33%	0.32%	0.35%	0.34%	0.33%	0.33%	0.32%	0.33%	0.34%	0.31%	0.31%
6 PermError	no key	1.649	1.75%	0.97	% 1.0C	0% 1.2	1% 1.	.25%	1.30%	1.68%	1.50%	1.31%	1.43	% 1.38	3% 1.6	0% 1.5	54% 1.5	6% 1.8	5% 1.6	35% 1.6	63% 1	.59%	1.65%	1.57%	1.47%	1.32%	1.29%	1.65%	1.51%	1.66%	1.34%	1.43%	1.57%	1.05%	1.11%	1.23%	1.03%	0.84%	0.91%	0.83%	1.14%	2.23%	2.77%	2.24%	1.85%	1.76%	1.73%	1.79%	1.74%	1.55%	1.00%

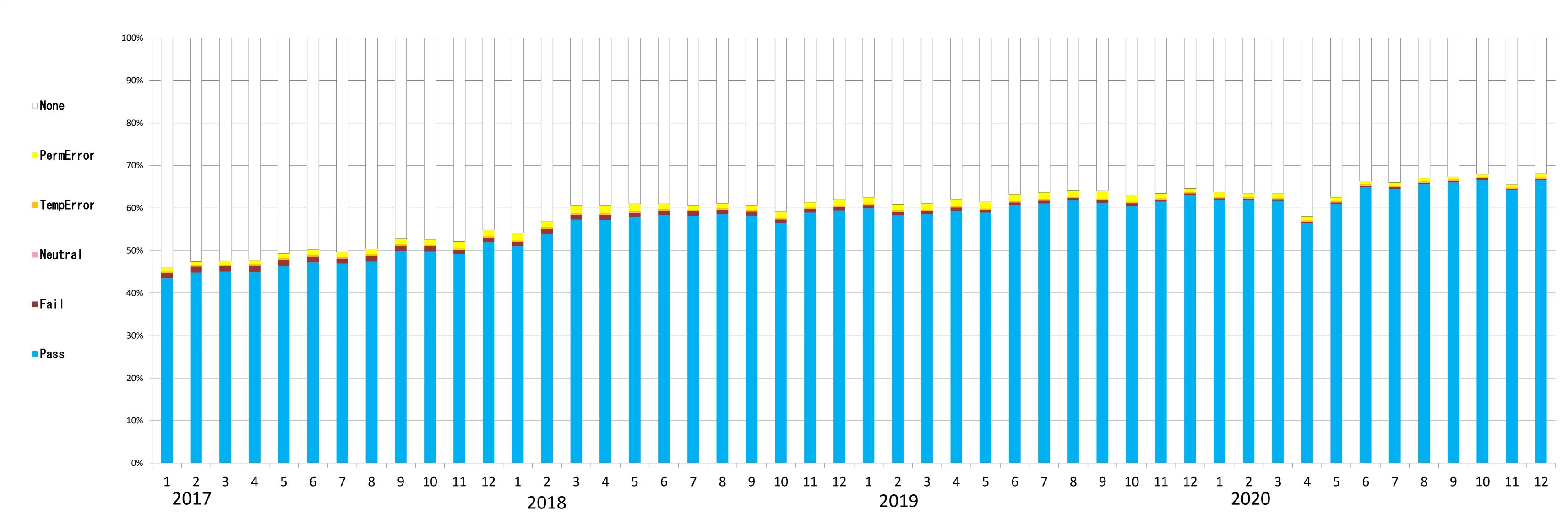


^{*} With cooperation of domestic ISP 5 companies, MIC compiled.

^{*} In the E-mail which is circulating.

The situation of DKIM (as of March 2025)

							201	7年											2018	3年											2019年											2020	 年				
		1月	2月	3月	4月	5月	6月	7月	8月	9月	10月	11月	12月	1月	2月	3月	4月	5月	6月	7月	8月	9月	10月	11月	12月	1月	2月	3月	4月 5	月 6月	7月	8月	9月	10月	11月	12月	1月	2月	3月	4月	5月	6月	7月	8月 9	月 10)月 11	12月
The number of	of data ISP	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4 4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4 4	4 4	4
the ratio of DKIM																																															
① None	no signature	54.08%	52.60%	52.47%	52.31%	50.65%	49.84%	50.35%	49.59%	47.28%	47.37%	47.89%	45.189	45.95%	43.189	39.33%	39.35%	39.04%	39.00%	39.35%	38.90%	39.36%	40.91%	38.65%	38.02%	37.46%	39.13%	38.91%	37.93% 3	8.57% 36.	77% 36.3	33% 35.93	3% 36.03%	% 37.00%	36.58%	35.38%	36.26%	36.48%	36.53%	42.04%	37.49%	33.70%	33.99%	32.96% 3	2.70% 32	2.05% 34	45% 32.03%
② Neutral	bad format	0.04%	0.04%	0.04%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.04%	6 0.049	% 0.04%	0.059	0.09%	0.11%	0.11%	0.09%	0.09%	0.11%	0.12%	0.10%	0.10%	0.11%	0.08%	0.11%	0.09%	0.08%	0.07% 0.0	0.0	0.06	6% 0.06%	% 0.06%	0.06%	0.06%	0.06%	0.06%	0.06%	0.09%	0.09%	0.08%	0.08%	0.09%	0.08%	0.09%	.09% 0.09%
3 Pass	good	43.43%	44.80%	44.95%	44.94%	46.31%	47.22%	46.95%	47.36%	49.79%	49.69%	49.20%	51.969	50.98%	53.899	57.26%	57.20%	57.76%	58.33%	58.16%	58.55%	58.20%	56.43%	58.87%	59.44%	59.94%	58.30%	58.57%	59.32% 5	8.88% 60.0	61.0	05% 61.77	7% 61.13%	% 60.43%	61.45%	63.02%	61.83%	61.79%	61.67%	56.35%	60.88%	64.87%	64.55%	65.60% 6	6.00% 66	6.53% 64	.20% 66.50%
4 Fail (bad)	bad	1.22%	1.40%	1.31%	1.44%	1.48%	1.32%	1.17%	1.35%	1.34%	1.29%	0.94%	% 1.02 ⁹	% 1.03%	1.149	1.15%	1.14%	1.07%	1.00%	1.05%	0.95%	0.92%	0.84%	0.85%	0.76%	0.70%	0.78%	0.71%	0.77%	0.64% 0.	59% 0.6	68% 0.55	5% 0.63%	% 0.67%	0.48%	0.41%	0.43%	0.42%	0.36%	0.36%	0.39%	0.35%	0.35%	0.31%	0.35%	0.41%	.32% 0.30%
5 TempError	revoked	0.35%	0.37%	0.35%	0.39%	0.47%	0.38%	0.33%	0.31%	0.31%	0.32%	0.31%	% 0.3 19	0.33%	0.329	0.29%	0.31%	0.32%	0.31%	0.32%	0.31%	0.30%	0.29%	0.28%	0.28%	0.29%	0.28%	0.27%	0.28%	0.27% 0.2	26% 0.2	26% 0.24	4% 0.26%	% 0.29%	0.25%	0.25%	0.26%	0.25%	0.25%	0.26%	0.29%	0.27%	0.26%	0.26%	0.26%	0.26%	26% 0.28%
6 PermError	no key	0.88%	0.79%	0.87%	0.88%	1.06%	1.22%	1.17%	1.35%	1.25%	1.29%	1.63%	1.50%	1.67%	1.419	1.89%	1.88%	1.70%	1.28%	1.03%	1.18%	1.10%	1.43%	1.25%	1.40%	1.52%	1.41%	1.44%	1.62%	1.57% 1.6	33% 1.6	62% 1.44	4% 1.89%	% 1.54%	1.18%	0.88%	1.16%	0.99%	1.13%	0.90%	0.86%	0.74%	0.77%	0.79%	0.62%	0.66%	.68% 0.79%

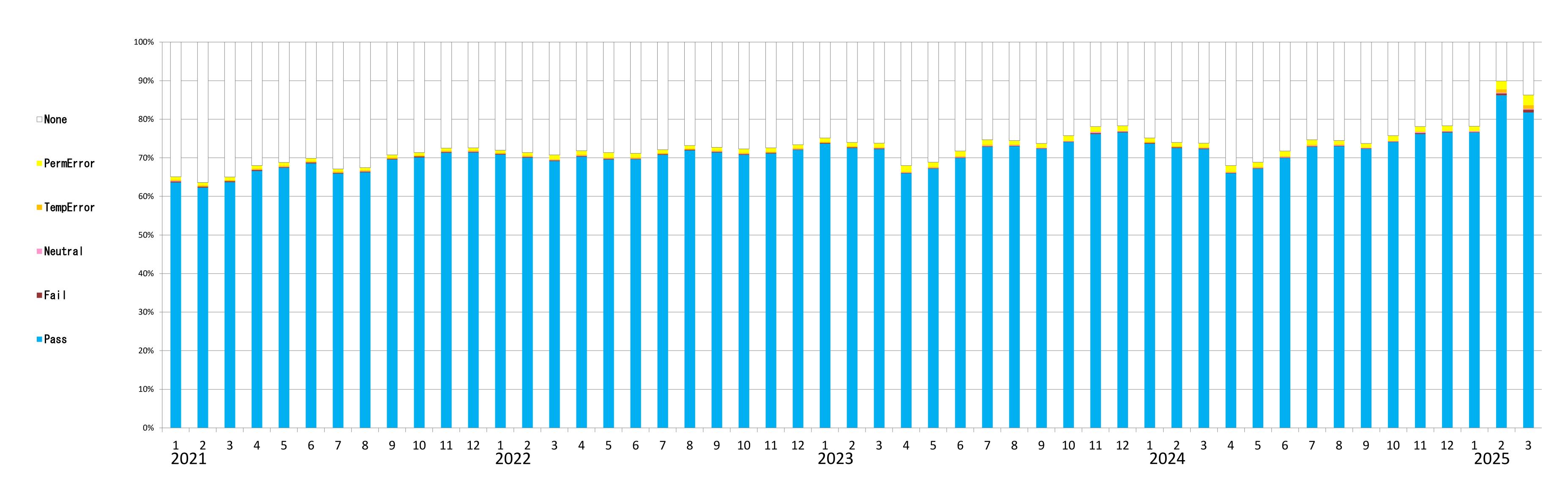


^{*} With cooperation of domestic ISP 5 companies, MIC compiled.

^{*} In the E-mail which is circulating.

The situation of DKIM (as of March 2025)

							2021	年											2022	 年											2023年											2024年	 F						2025年	
		1月	2月	3月	4月	5月	6月	7月	8月	9月	10月	11月	12月	1月	2月	3月	4月	5月	6月	7月	8月	9月	10月	11月 1	12月	1月 2	月 3	月 4月	5月	6)	7月	8月	9月	10月	11月	12月	1月	2月	3月	4月	5月	6月	7月 8	月 9	月 10月	11月	12月	1月	2月 3	 月
The number of	f data ISP	4	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	4 4	. 4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5 5	5	5	5	5	5
the ratio of DKIM																																																		
① None	no signature	34.89%	36.38%	34.97%	32.02%	31.23%	30.13%	32.87%	32.55%	29.23%	28.64%	27.46%	27.45%	28.01%	28.65%	29.22%	28.19%	28.65%	28.84%	27.92%	26.83%	27.29%	27.67%	27.45%	26.59%	24.88% 2	6.01% 2	6.20% 32	2.03% 31.	14% 28	3.23% 25.3	.32% 25.	55% 26.2	27% 24.28	21.879	21.66%	24.88%	26.01%	26.20%	32.03%	31.14%	28.23%	25.32% 2	5.55% 2	26.27% 24	.28% 21.8	7% 21.66%	21.80%	10.05% 1	3.75%
② Neutral	bad format	0.08%	0.02%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.04%	0.03%	0.03%	0.04%	0.05%	0.04%	0.05%	0.05%	0.05%	0.05%	0.06%	0.05%	0.04%	0.04%	0.04%	0.04%	0.05% 0	0.05% 0.	09% (0.10% O. ⁻	.14% 0.	12% 0.1	3% 0.13	0.24%	0.17%	0.04%	0.04%	0.05%	0.05%	0.09%	0.10%	0.14%	0.12%	0.13% 0	.13% 0.2	4% 0.17%	0.15%	0.20%	0.22%
3 Pass	good	63.62%	62.29%	63.67%	66.59%	67.39%	68.56%	65.89%	66.25%	69.52%	70.11%	71.29%	71.36%	70.80%	70.01%	69.11%	70.31%	69.55%	69.58%	70.77%	71.90%	71.37%	70.77%	71.10%	72.01%	73.64% 7	2.51% 7	2.25% 66	67.	19% 69	9.97% 72.8	.87% 73.	01% 72.3	74.05	76.19%	76.59%	73.64%	72.51%	72.25%	66.00%	67.19%	69.97%	72.87% 7	3.01%	72.30% 74	.05% 76.1	9% 76.59%	76.57%	86.23%	1.78%
④ Fail (bad)	bad	0.29%	0.24%	0.24%	0.26%	0.23%	0.22%	0.21%	0.19%	0.22%	0.22%	0.21%	0.24%	0.21%	0.22%	0.24%	0.17%	0.21%	0.19%	0.17%	0.17%	0.19%	0.19%	0.18%	0.19%	0.20%	O.19%	0.19% 0	0.13% 0.	13%	0.13% O.	.14% 0.	12% 0.1	1% 0.14	% 0.25%	0.17%	0.20%	0.19%	0.19%	0.13%	0.13%	0.13%	0.14%	0.12%	0.11% 0	.14% 0.2	5% 0.17%	0.16%	0.45%	0.72%
⑤ TempError	revoked	0.30%	0.28%	0.28%	0.28%	0.29%	0.28%	0.30%	0.30%	0.29%	0.27%	0.27%	0.26%	0.27%	0.25%	0.25%	0.26%	0.24%	0.23%	0.24%	0.25%	0.25%	0.26%	0.23%	0.25%	0.26%	D.24%	0.25% 0	0.22% 0.	24% (0.25% 0.2	.23% 0.	24% 0.0	0.05	0.06%	0.05%	0.26%	0.24%	0.25%	0.22%	0.24%	0.25%	0.23%	0.24%	0.09% 0	.05% 0.0	6% 0.05%	0.09%	0.90%	0.93%
6 PermError	no key	0.83%	0.78%	0.81%	0.82%	0.83%	0.79%	0.70%	0.67%	0.70%	0.74%	0.74%	0.66%	0.68%	0.83%	1.13%	1.02%	1.30%	1.10%	0.85%	0.79%	0.84%	1.07%	0.99%	0.92%	0.97%	1.00%	1.07% 1	.58% 1.	22 % 1	1.31% 1.3	.30% 0.	97% 1.0	09% 1.36	1.39%	1.36%	0.97%	1.00%	1.07%	1.58%	1.22%	1.31%	1.30%	0.97%	1.09% 1.	.36% 1.3	9% 1.36%	1.24%	2.17%	2.61%



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