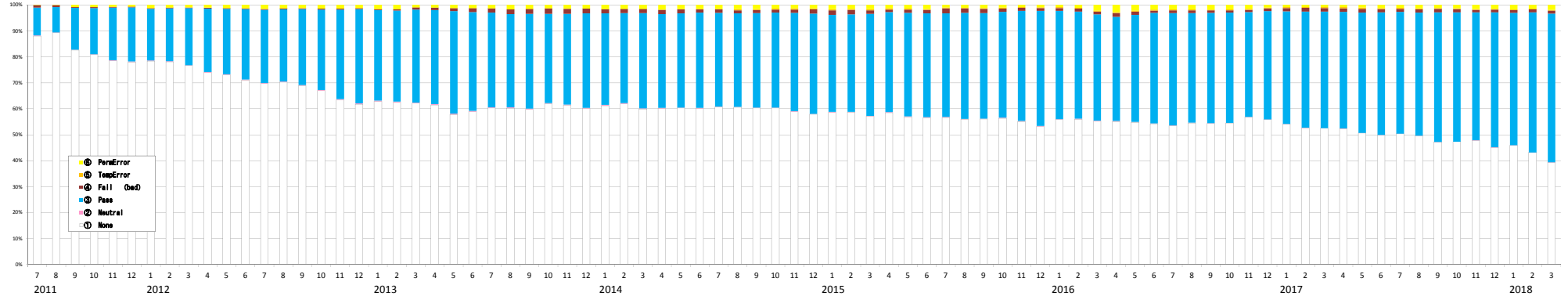
送信ドメイン認証結果の集計(DKIM)(2018年3月時点)

The number of data SUP / the ratio of DKIM		2011年						2012年												2013年											
		7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
① None	no signature	88.09%	89.39%	82.69%	80.88%	78.47%	77.87%	78.34%	76.10%	76.81%	73.85%	73.09%	71.06%	69.64%	70.29%	68.80%	66.98%	63.38%	61.77%	62.81%	62.42%	62.14%	61.48%	57.78%	59.67%	60.17%	65.28%	65.18%	63.71%	60.63%	60.29%
② Neutral	bad format	0.18%	0.17%	0.13%	0.18%	0.19%	0.20%	0.21%	0.17%	0.16%	0.18%	0.19%	0.21%	0.23%	0.18%	0.20%	0.23%	0.29%	0.20%	0.30%	0.25%	0.24%	0.32%	0.21%	0.24%	0.23%	0.21%	0.25%	0.19%	0.17%	0.18%
③ Pass	good	10.76%	9.72%	16.72%	17.76%	20.33%	20.63%	19.67%	20.34%	21.67%	24.53%	23.18%	27.07%	28.25%	27.85%	29.23%	30.68%	34.33%	36.28%	34.68%	35.03%	35.66%	36.19%	38.02%	36.15%	35.83%	34.53%	34.46%	34.80%	36.45%	36.59%
④ Fail (bad)	bad	0.96%	0.81%	0.29%	0.20%	0.20%	0.26%	0.27%	0.35%	0.25%	0.25%	0.29%	0.35%	0.30%	0.35%	0.34%	0.27%	0.25%	0.26%	0.28%	0.45%	0.64%	0.68%	1.18%	1.48%	1.61%	1.69%	1.65%	1.57%	1.71%	1.68%
⑤ TempError	revoked	0.85%	0.92%	0.09%	0.09%	0.09%	0.04%	0.00%	0.00%	0.00%	0.04%	0.04%	0.02%	0.05%	0.02%	0.04%	0.03%	0.00%	0.00%	0.01%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.00%	0.01%	0.00%	0.01%	0.00%
⑥ PermError	no key	0.05%	0.05%	0.05%	0.05%	0.72%	0.67%	1.21%	1.67%	0.86%	1.06%	1.22%	1.34%	1.33%	1.28%	1.27%	1.40%	1.40%	1.36%	1.44%	1.35%	0.97%	1.08%	1.21%	1.23%	1.20%	1.68%	1.50%	1.24%	1.40%	1.38%

The number of data SUP / the ratio of DKIM		2014年												2015年												2016年					
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
① None	no signature	61.23%	61.67%	59.60%	60.17%	65.28%	65.18%	63.71%	60.63%	60.29%	60.69%	57.67%	58.01%	58.64%	56.58%	56.68%	55.94%	56.02%	56.39%	55.16%	53.23%	53.63%	52.89%	55.21%	53.69%	54.81%	54.21%	53.46%	54.18%	54.33%	54.51%
② Neutral	bad format	0.20%	0.19%	0.15%	0.12%	0.13%	0.12%	0.10%	0.08%	0.09%	0.15%	0.16%	0.17%	0.13%	0.11%	0.10%	0.12%	0.13%	0.19%	0.18%	0.18%	0.17%	0.17%	0.18%	0.15%	0.15%	0.14%	0.11%	0.03%	0.03%	0.03%
③ Pass	good	38.57%	38.14%	39.80%	39.83%	34.72%	34.85%	36.19%	39.29%	39.63%	39.15%	42.17%	41.75%	41.36%	43.32%	43.22%	43.94%	43.97%	43.61%	44.66%	46.59%	46.20%	46.93%	44.79%	46.32%	45.19%	45.79%	46.55%	45.82%	45.67%	45.46%
④ Fail (bad)	bad	0.20%	0.01%	0.45%	0.44%	0.68%	1.18%	1.48%	1.81%	1.69%	1.05%	0.97%	1.91%	1.83%	1.63%	1.68%	1.57%	1.71%	1.68%	1.39%	1.48%	1.18%	1.21%	1.13%	1.23%	1.67%	1.74%	1.74%	1.41%	1.01%	1.22%
⑤ 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%	0.05%	0.01%	0.05%	0.01%	0.03%	0.06%	0.04%	0.26%	0.39%	0.46%	0.40%	0.45%	0.43%	0.39%	0.42%	0.38%	0.22%	0.23%
⑥ PermError	no key	1.44%	1.35%	0.97%	1.06%	1.21%	1.23%	1.20%	1.63%	1.50%	1.31%	1.42%	1.38%	1.68%	1.54%	1.59%	1.83%	1.65%	1.82%	1.68%	1.57%	1.47%	1.32%	1.29%	1.45%	1.27%	1.45%	1.41%	1.22%	1.83%	1.11%

The number of data SUP / the ratio of DKIM		2017年												2018年		
		7	8	9	10	11	12	1	2	3	4	5	6	7	8	9
① None	no signature	33.63%	32.89%	33.21%	33.69%	34.81%	34.21%	33.46%	34.24%	34.23%	34.51%	34.01%	33.84%	34.58%	32.60%	33.47%
② Neutral	bad format	0.15%	0.14%	0.16%	0.15%	0.14%	0.11%	0.02%	0.02%	0.03%	0.03%	0.03%	0.03%	0.04%	0.04%	0.04%
③ Pass	good	41.75%	41.23%	41.02%	40.15%	41.18%	42.62%	43.23%	42.24%	42.14%	42.48%	43.34%	41.73%	41.43%	44.65%	44.44%
④ Fail (bad)	bad	1.12%	1.18%	1.06%	1.48%	1.38%	0.85%	1.11%	1.14%	0.95%	0.98%	0.98%	1.04%	1.22%	1.40%	1.01%
⑤ TempError	revoked	0.35%	0.33%	0.32%	0.05%	0.34%	0.25%	0.23%	0.32%	0.33%	0.34%	0.31%	0.33%	0.33%	0.37%	0.03%
⑥ PermError	no key	0.83%	1.14%	2.23%	2.77%	2.18%	1.85%	1.78%	1.72%	1.79%	1.74%	1.30%	1.68%	0.68%	0.76%	0.67%

The number of data SUP / the ratio of DKIM		2018年		
		1	2	3
① None	no signature	45.93%	43.18%	39.23%
② Neutral	bad format	0.04%	0.05%	0.05%
③ Pass	good	50.94%	53.89%	57.24%
④ Fail (bad)	bad	1.02%	1.14%	1.15%
⑤ TempError	revoked	0.33%	0.32%	0.29%
⑥ PermError	no key	1.67%	1.41%	1.65%



※出典:電気通信事業者4社の協力により、総務省がとりまとめ

The situation of DKIM (as of March 2018)

		2011					
		7	8	9	10	11	12
The number of data ISP		4	4	4	4	4	4
the ratio of DKIM							
① None	no signature	88.08%	89.30%	82.64%	80.86%	78.47%	77.97%
② Neutral	bad format	0.18%	0.13%	0.13%	0.18%	0.19%	0.22%
③ Pass	good	10.70%	9.70%	16.10%	17.76%	20.30%	20.83%
④ Fail (bad)	bad	0.96%	0.81%	0.29%	0.32%	0.32%	0.32%
⑤ TempError	revoked	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
⑥ PermError	no key	0.08%	0.06%	0.85%	0.88%	0.72%	0.67%

		2012											
		1	2	3	4	5	6	7	8	9	10	11	12
The number of data ISP		4	4	4	4	4	4	4	4	4	4	4	4
the ratio of DKIM													
① None	no signature	78.34%	78.10%	76.61%	73.95%	73.09%	71.06%	69.64%	70.29%	68.90%	66.98%	63.38%	61.77%
② Neutral	bad format	0.21%	0.17%	0.16%	0.16%	0.19%	0.21%	0.23%	0.19%	0.20%	0.22%	0.29%	0.32%
③ Pass	good	19.97%	20.36%	21.97%	24.50%	25.16%	27.07%	28.25%	27.85%	29.25%	30.99%	34.53%	36.29%
④ Fail (bad)	bad	0.27%	0.30%	0.25%	0.29%	0.29%	0.29%	0.30%	0.32%	0.34%	0.37%	0.37%	0.35%
⑤ TempError	revoked	0.00%	0.00%	0.03%	0.04%	0.04%	0.02%	0.05%	0.03%	0.04%	0.03%	0.02%	0.01%
⑥ PermError	no key	1.21%	1.07%	0.98%	1.06%	1.23%	1.34%	1.53%	1.32%	1.27%	1.40%	1.41%	1.26%

		2013											
		1	2	3	4	5	6	7	8	9	10	11	12
The number of data ISP		4	4	4	4	4	4	4	4	4	4	4	4
the ratio of DKIM													
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%
② 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%
③ 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%
④ 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%
⑤ 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%
⑥ 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%

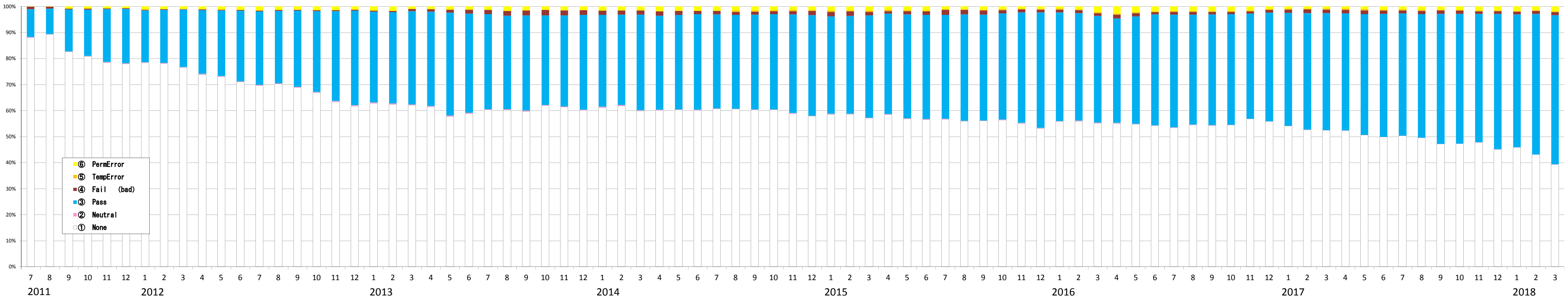
		2014											
		1	2	3	4	5	6	7	8	9	10	11	12
The number of data ISP		4	4	4	4	4	4	4	4	4	4	4	4
the ratio of DKIM													
① None	no signature	61.22%	61.87%	59.92%	60.17%	60.28%	60.16%	60.71%	60.65%	60.29%	60.29%	58.85%	57.87%
② Neutral	bad format	0.22%	0.28%	0.16%	0.13%	0.13%	0.13%	0.10%	0.08%	0.09%	0.15%	0.16%	0.17%
③ Pass	good	35.33%	34.71%	36.79%	36.14%	36.29%	36.73%	36.11%	36.02%	36.45%	36.59%	37.89%	38.56%
④ Fail (bad)	bad	1.63%	1.60%	1.57%	1.71%	1.60%	1.29%	1.40%	1.19%	1.21%	1.12%	1.32%	1.67%
⑤ TempError	revoked	0.00%	0.01%	0.00%	0.01%	0.05%	0.06%	0.09%	0.41%	0.38%	0.39%	0.46%	0.43%
⑥ PermError	no key	1.60%	1.54%	1.56%	1.85%	1.65%	1.63%	1.59%	1.65%	1.57%	1.47%	1.32%	1.29%

		2015											
		1	2	3	4	5	6	7	8	9	10	11	12
The number of data ISP		4	4	4	4	4	4	4	4	4	4	4	4
the ratio of DKIM													
① None	no signature	58.61%	58.63%	57.10%	58.52%	56.84%	56.56%	56.66%	55.94%	56.02%	56.36%	55.10%	53.21%
② Neutral	bad format	0.13%	0.11%	0.10%	0.12%	0.15%	0.19%	0.18%	0.16%	0.17%	0.17%	0.19%	0.16%
③ Pass	good	37.41%	37.59%	39.35%	38.60%	39.95%	39.96%	39.94%	40.80%	40.65%	40.75%	42.37%	44.37%
④ Fail (bad)	bad	1.74%	1.74%	1.41%	1.01%	1.23%	1.35%	1.85%	1.78%	1.67%	1.34%	1.20%	1.02%
⑤ TempError	revoked	0.45%	0.42%	0.39%	0.42%	0.40%	0.38%	0.32%	0.22%	0.26%	0.35%	0.30%	0.34%
⑥ PermError	no key	1.65%	1.51%	1.66%	1.34%	1.43%	1.57%	1.05%	1.11%	1.23%	1.03%	0.84%	0.91%

		2016											
		1	2	3	4	5	6	7	8	9	10	11	12
The number of data ISP		4	4	4	4	4	4	4	4	4	4	4	4
the ratio of DKIM													
① None	no signature	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	0.15%	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	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	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	0.35%	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	0.83%	1.14%	2.23%	2.77%	2.24%	1.85%	1.76%	1.73%	1.79%	1.74%	1.55%	1.00%

		2017											
		1	2	3	4	5	6	7	8	9	10	11	12
The number of data ISP		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%	45.18%
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%	0.04%
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%	51.96%
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%
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%	0.31%
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%

		2018		
		1	2	3
The number of data ISP		4	4	4
the ratio of DKIM				
① None	no signature	45.95%	43.18%	39.33%
② Neutral	bad format	0.04%	0.05%	0.09%
③ Pass	good	50.98%	53.89%	57.26%
④ Fail (bad)	bad	1.03%	1.14%	1.15%
⑤ TempError	revoked	0.33%	0.32%	0.29%
⑥ PermError	no key	1.67%	1.41%	1.89%



＊With cooperation of domestic ISP 4 companies, MIC compiled.

＊In the E-mail which is circulating.