ANNEX 4-8

Estimated Local Traffic Matrixes (1994, 1999 and 2004)

(Jakarta M.A. - 1994 - 1/4)

\ TO / FROM	1) KT1	2) KT2	3) KT3	4) PLT	5) CKG	6) ANC	7) GB1	8) GB2	9) SLP	10) SM1	11) SM2	12) PLM	13) KED	14) MER	TOTAL
1)KT1	38.06	106.71	93.85	51.45	35.11	26.07	108.70	62.34	53.84	47.56	51.48	32.91	8.96	4.35	721.38
2)KT2	164.80	479.03	434.98	237.06	189.05	121.54	252.20	87.73	124.42	64.30	58.78	40.02	10.66	3.82	2,268.37
3)KT3	136.12	395.65	359.26	195.80	156.14	100.38	307.65	104.27	135.42	80.34	75.16	45.61	10.83	3.54	2,106.17
4)PLT	92.05	267.56	242.95	132.41	105.59	67.89	132.00	62.73	36.39	8.21	6.95	8.52	4.91	0.96	1,169.11
5)CKG	52.19	145.45	142.65	91.96	128.39	30.76	109.21	55.89	43.72	23.97	24.00	29.62	16.56	5.53	899.88
6)ANC	34.51	101.31	88.92	46.93	32.15	27.40	80.37	45.63	16.73	11.56	10.93	6.46	1.67	0.63	505.20
7)GB1	103.04	324.46	317.56	130.80	81.64	73.38	521.44	52.49	215.30	254.14	281.82	160.09	36.20	20.77	2,573.12
8)GB2	45.02	151.14	155.67	51.25	26.77	0.08	351.30	234.09	121.03	170.20	192.16	95.85	19.91	12.12	1,626.58
9)SLP	65.61	191.33	175.41	93.78	72.66	47.32	204.84	115.39	131.85	40.35	35.20	37.17	9.71	3.59	1,224.20
10)SM1	27.59	96.02	114.22	29.85	16.61	17.25	272.88	193.08	68.68	249.72	231.30	79.69	8.73	7.29	1,412.92
11)SM2	38.61	124.54	131.65	48.09	32.16	26.29	274.53	191.16	148.04	200.01	241.22	129.57	29.15	18.06	1,633.08
12)PLM	33.42	100.10	97.48	46.42	36.10	21.97	134.91	83.82	84.69	104.58	123.13	83.07	17.18	11.02	977.89
13)KED	9.48	27.01	25.65	14.19	12.02	5.90	31.39	18.06	22.69	23.59	26.80	18.37	5.49	2.77	243.41
14)MER	4.96	14.64	13.63	7.14	6.20	3.18	18.09	11.24	12.72	15.28	17.63	11.99	2.82	1.97	141.49
15)TGA	8.12	21.39	17.98	14.40	15.30	4.72	14.47	7.33	5.14	2.48	2.44	2.86	1.63	0.49	118.75
16)JIA	6.51	17.15	10.75	11.55	12.27	3.78	11.60	5.87	4.12	1.99	1.96	2.29	1.30	0.39	91.53
17)CPP	35.75	121.08	107.99	39.25	17.92	30.72	169.68	116.86	53.37	66.97	73.37	34.26	6.70	3.66	877.58
18)RMG	38.24	120.40	110.98	47.11	27.97	31.48	153.90	117.14	54.23	79.77	92.52	42.50	8.57	5.13	929.91
19)KGD	26.18	81.21	68.75	32.41	18.03	22.77	92.06	62.21	34.88	41.28	46.46	23.53	5.27	2.88	557.92
20)KGP	2.36	7.32	6.48	2.94	1.70	2.03	8.44	5.86	3.07	3.72	4.12	2.01	0.46	0.24	50.76
21)PGG	9.34	29.41	26.18	11.45	6.63	7.88	34.29	25.74	12.38	17.15	19.90	9.21	1.88	1.11	212.55
22)TPR	26.81	79.35	67.05	36.00	22.58	22.10	82.14	52.85	32.55	35.15	39.45	21.66	5.35	2.80	525.85
23)CIL	8.08	24.06	20.70	10.75	6.79	6.64	24.10	16.06	8.89	10.31	11.71	6.13	1.44	0.78	156.45
24)KB	28.54	98.91	114.18	33.34	23.77	16.55	206.78	150.01	40.65	173.46	230.28	98.87	6.18	9.31	1,230.83
25)KBB	7.25	23.96	13.90	9.18	7.44	4.08	47.89	31.91	9.81	30.09	38.77	28.56	1.73	3.42	257.98
26)CPE	11.10	36.81	36.10	13.99	11.79	7.09	79.45	60.29	38.69	74.92	96.52	47.67	7.79	6.90	529.10
27)CNE	2.49	7.89	9.23	2.84	2.76	1.54	19.04	14.16	9.27	17.77	23.36	11.89	2.10	1.79	126.12
28)KL1	9.70	34.16	39.43	10.84	6.64	6.98	84.90	70.49	27.27	64.66	85.81	30.41	4.35	3.58	479.21
29)KL2	2.29	7.79	9.10	2.56	1.92	1.54	19.63	14.90	7.01	16.42	22.06	8.20	1.32	1.01	115.76
30)CPA	2.31	7.35	6.74	3.07	2.60	1.42	19.70	14.00	8.38	14.28	18.24	10.20	1.88	1.59	111.76
31)PSN	7.69	25.58	25.19	9.49	6.98	5.37	26.22	22.79	12.53	30.19	41.56	16.09	2.20	2.52	234.41
32)JAG	1.04	3.78	3.83	1.24	0.97	0.72	8.12	6.61	3.62	7.43	9.77	4.32	0.69	0.60	52.74
33)SER	1.20	3.58	4.09	1.64	1.93	0.68	10.48	7.16	4.64	7.22	9.14	5.80	1.20	1.02	59.77
34)SRU	0.99	2.73	2.91	1.46	2.13	0.52	6.33	3.86	2.97	3.94	4.63	2.39	0.97	0.74	36.57
35)SRB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36)CDG	1.06	2.93	3.09	1.60	2.09	0.56	5.95	3.57	3.43	3.69	4.43	3.75	0.96	0.59	37.71
37)SWG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38)JT	24.96	86.00	84.26	27.14	13.53	20.55	127.84	119.44	24.76	59.39	71.20	20.45	2.66	1.93	684.09
39)CW	4.80	17.41	18.00	5.06	2.63	3.78	33.33	31.96	11.19	28.44	37.45	11.89	1.60	1.31	208.84
40)PSR	2.73	21.34	9.36	2.95	1.79	2.07	18.23	17.00	6.56	22.70	23.56	7.91	1.03	0.93	138.18
41)KLO	11.71	40.33	38.50	12.60	5.91	10.44	53.12	48.35	8.67	19.70	24.05	6.91	0.91	0.63	281.83
42)TB	11.81	42.83	46.05	12.28	5.90	9.06	104.86	90.62	35.91	70.53	84.89	31.68	5.19	3.56	555.17
43)GAN	1.31	4.77	3.65	1.48	0.59	0.99	8.51	7.93	3.15	8.35	11.47	3.96	0.52	0.49	57.17
44)PDG	1.14	4.04	4.51	1.10	0.56	1.00	7.56	6.95	2.18	5.45	6.89	2.01	0.31	0.21	43.92
45)BEK	0.77	2.72	2.60	0.82	0.40	0.74	2.28	2.07	0.18	0.45	0.53	0.13	0.02	0.01	13.73
46)BKB	2.90	10.08	9.62	3.05	1.45	2.77	9.52	8.56	0.92	2.05	2.42	0.62	0.09	0.05	54.10
47)BGG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48)CL	0.37	1.31	1.38	0.40	0.25	0.31	0.99	0.92	0.07	0.22	0.30	0.08	0.01	0.01	6.61
49)TAN	30.25	80.29	75.50	50.06	64.26	16.98	40.05	21.42	7.64	5.11	6.01	7.69	3.17	1.88	410.31
50)JUG	2.18	5.87	5.55	3.56	4.56	1.24	2.85	1.40	0.35	0.26	0.31	0.40	0.15	0.10	28.78
51)CPD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52)DEP	1.14	3.82	4.52	1.35	1.17	0.78	8.34	7.43	4.49	9.14	11.90	5.48	0.97	0.79	61.32
53)SKJ	1.29	4.41	5.05	1.47	1.17	0.92	9.88	9.25	5.06	10.51	13.81	5.87	1.01	0.80	70.50
54)CIB	0.38	1.28	1.46	0.42	0.34	0.27	3.05	2.94	1.56	3.24	4.26	19.76	0.32	0.25	39.52
TOTAL	1180.24	3608.27	3408.55	1597.98	1235.30	820.48	4355.07	2503.80	1705.11	2242.22	2552.11	1316.35	264.74	159.91	26,950.12
FROM / / TO	1) KT1	2) KT2	3) KT3	4) PLT	5) CKG	6) ANC	7) GB1	8) GB2	9) SLP	10) SM1	11) SM2	12) PLM	13) KED	14) MER	TOTAL

(Jakarta M.A. - 1994 - 2/4)

\ TO FROM \	15) TGA	16) JIA	17) CPP	18) RMG	19) KGD	20) KGP	21) PGG	22) TPR	23) CIL	24) KB	25) KBB	26) CPE	27) CNE	28) KL1	TOTAL
1)KT1	2.79	3.71	42.80	36.26	23.45	2.04	7.68	21.42	5.43	27.78	5.29	9.31	1.52	11.22	922.09
2)KT2	1.63	19.81	122.38	68.47	51.70	4.11	12.11	42.96	7.45	65.49	11.25	15.18	1.46	22.91	2,715.27
3)KT3	1.05	16.36	98.09	59.16	34.61	3.15	9.42	24.75	4.69	68.76	5.94	14.02	1.74	26.06	2,473.98
4)PLT	1.48	11.06	41.01	24.90	19.15	1.57	4.51	19.31	3.39	28.23	5.53	6.91	0.66	8.35	1,345.17
5)CKG	9.28	10.60	35.88	25.39	16.10	1.46	4.63	14.63	2.99	30.91	6.82	9.05	1.05	7.30	1,075.98
6)ANC	0.35	3.38	41.16	33.34	24.24	2.04	7.05	22.82	5.29	20.87	3.87	6.76	1.00	9.30	686.68
7)GB1	10.25	8.06	174.61	151.69	86.56	7.71	30.86	70.14	18.78	176.67	33.47	70.28	14.05	82.94	3,509.18
8)GB2	5.18	2.50	111.56	101.08	50.70	4.61	19.25	36.84	9.76	139.40	26.57	63.78	14.47	73.35	2,285.60
9)SLP	0.79	7.53	80.17	70.42	42.03	3.69	15.00	36.28	9.73	95.86	19.05	40.05	8.56	41.67	1,695.05
10)SM1	0.75	1.27	86.88	75.77	35.30	3.03	13.33	24.36	5.98	174.99	30.42	62.73	10.89	72.72	2,011.32
11)SM2	9.62	2.83	94.35	91.04	46.31	4.04	18.24	36.05	10.00	170.50	34.30	89.65	25.09	89.80	2,354.89
12)PLM	4.81	3.34	51.24	46.33	25.15	2.14	9.33	20.48	5.46	102.03	20.90	54.70	15.85	53.52	1,393.18
13)KED	1.54	1.12	12.32	10.71	6.23	0.54	2.18	5.42	1.39	26.50	5.43	14.24	4.14	13.90	349.06
14)MER	0.80	0.56	7.20	6.51	3.57	0.30	1.31	2.95	0.77	16.29	3.35	8.79	2.55	8.53	204.96
15)TGA	2.59	2.03	5.06	3.47	2.41	0.19	0.65	2.37	0.58	3.16	0.65	0.87	0.09	0.77	143.66
16)JIA	2.07	1.63	4.06	2.79	1.93	0.10	0.52	1.90	0.46	2.54	0.52	0.70	0.07	0.62	111.44
17)CPP	1.36	1.76	102.70	64.98	62.19	5.65	24.62	56.53	17.59	66.26	12.22	26.23	4.84	35.21	1,359.73
18)RMG	2.11	2.79	36.83	106.22	18.26	2.95	11.92	5.81	1.72	74.21	13.89	34.09	7.40	44.43	1,292.54
19)KGD	1.49	1.88	22.25	19.33	38.50	2.07	4.59	11.95	2.82	40.17	7.71	17.64	4.07	22.09	754.47
20)KGP	0.13	0.13	1.85	3.24	2.15	0.33	0.50	1.02	0.25	3.64	0.54	1.52	0.36	2.15	68.55
21)PGG	0.48	0.67	5.82	13.75	5.00	0.53	6.58	1.72	0.70	17.16	3.29	7.96	1.74	10.48	288.43
22)TPR	1.78	2.42	54.56	56.46	33.04	3.00	13.08	30.03	9.34	25.33	4.77	10.32	1.99	13.25	785.23
23)CIL	0.52	0.76	18.60	19.25	11.26	1.02	4.46	10.24	3.19	7.39	1.28	3.12	0.62	4.20	242.35
24)KB	0.23	1.64	102.06	90.00	40.20	3.37	15.60	27.62	6.63	342.52	25.81	10.90	0.19	9.66	1,907.27
25)KBB	0.07	0.47	25.38	21.72	10.20	0.51	3.96	6.94	1.45	36.40	20.26	3.84	0.17	1.61	390.95
26)CPE	1.38	0.89	34.61	34.41	15.10	1.19	6.42	10.54	2.79	98.97	20.76	76.63	16.77	51.76	901.32
27)CNE	0.33	0.18	9.33	9.66	4.66	0.38	1.82	2.75	0.75	32.92	7.74	26.26	10.73	16.91	250.54
28)KL1	0.66	0.52	26.17	29.45	10.16	0.99	5.05	5.93	1.60	102.94	20.85	56.45	15.89	58.85	814.73
29)KL2	0.00	0.10	5.23	5.10	2.40	0.18	0.89	1.17	0.28	26.12	5.10	14.21	4.04	14.11	194.69
30)CPA	0.39	0.24	5.24	5.23	1.81	0.16	0.96	1.18	0.31	25.17	5.15	17.86	6.46	13.16	195.08
31)PSM	0.47	0.57	24.76	26.41	12.01	1.03	5.27	8.74	2.50	47.37	9.36	30.82	6.99	30.38	441.10
32)JAG	0.10	0.06	4.16	4.59	1.87	0.16	0.89	1.27	0.33	11.30	2.31	8.34	2.66	7.29	98.07
33)SER	0.24	0.18	2.51	2.31	1.15	0.09	0.42	0.70	0.18	17.06	4.79	12.11	4.21	7.91	113.62
34)SRU	0.26	0.22	1.47	1.18	0.63	0.05	0.08	0.18	0.04	15.66	3.41	8.70	2.57	8.01	79.05
35)SRB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36)CDG	0.30	0.18	1.48	1.15	0.63	0.05	0.21	0.46	0.11	5.91	1.53	3.05	0.78	2.40	55.96
37)SWG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38)JT	0.31	1.22	93.67	106.06	49.31	2.33	21.58	36.70	10.97	78.92	13.88	35.87	6.32	51.95	1,191.17
39)CW	0.28	0.28	22.75	27.68	10.51	0.96	5.31	6.67	1.97	19.95	3.31	8.76	1.44	24.90	343.60
40)PSR	0.09	0.07	14.66	17.84	6.78	0.57	3.51	4.30	1.29	13.94	2.46	10.51	1.97	16.64	232.81
41)KLD	0.16	0.66	50.78	63.23	29.10	2.71	13.86	21.34	6.77	36.06	6.34	16.37	3.03	26.13	558.38
42)TB	0.90	0.49	46.23	48.23	20.65	1.86	8.86	14.19	3.92	86.00	17.30	45.67	12.85	47.00	909.32
43)GAN	0.04	0.03	7.81	9.67	3.64	0.26	1.92	2.31	0.70	6.91	1.25	6.23	1.51	7.76	107.21
44)PDG	0.04	0.03	7.31	10.09	4.76	0.36	2.17	2.41	0.78	3.60	0.39	1.71	0.36	4.57	82.48
45)BEK	0.00	0.02	6.53	8.21	4.62	0.39	2.08	3.29	1.16	3.18	0.86	1.48	0.36	2.59	48.50
46)BKB	0.01	0.08	14.23	25.53	14.35	1.19	6.46	10.16	3.56	10.26	1.23	4.51	1.07	8.25	155.00
47)BGG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48)CL	0.00	0.01	4.75	5.76	2.99	0.25	1.32	1.99	0.65	3.00	0.49	2.08	0.67	2.41	33.00
49)TAN	1.87	9.16	13.85	10.00	5.68	0.53	1.79	5.06	1.09	10.11	3.55	4.25	0.82	2.32	480.38
50)JUG	0.08	0.65	0.92	0.68	0.38	0.03	0.12	0.32	0.07	0.64	0.26	0.30	0.07	0.15	33.43
51)CPD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52)DEP	0.15	0.08	5.60	6.03	2.94	0.23	1.21	1.69	0.47	19.87	4.48	15.67	6.10	11.37	137.21
53)SKJ	0.15	0.07	7.63	8.76	4.23	0.33	1.79	2.34	0.70	24.89	5.10	18.70	6.98	15.68	167.84
54)CIB	0.05	0.02	2.68	3.13	1.52	0.12	0.65	0.82	0.25	9.96	2.14	7.62	2.96	6.27	77.71
TOTAL	71.39	124.33	1793.16	1672.64	902.10	76.59	336.03	681.05	179.07	2473.75	447.18	1014.79	242.16	1104.82	38,069.21
FROM / / TO	15) TGA	16) JIA	17) CPP	18) RMG	19) KGD	20) KGP	21) PGG	22) TPR	23) CIL	24) KB	25) KBB	26) CPE	27) CNE	28) KL1	TOTAL

(Jakarta M.A. - 1994 - 3/4)

FROM \ TO	29) KL2	30) CPA	31) PSM	32) JAG	33) SER	34) SRU	35) SRB	36) COG	37) SWG	38) JT	39) CW	40) PSR	41) KLD	42) TB	TOTAL
1)KT1	2.55	1.24	4.88	0.73	0.44	0.51	0.00	0.60	0.00	30.93	8.07	5.00	13.48	24.35	1,014.88
2)KT2	4.82	1.23	8.35	1.46	0.26	0.43	0.00	0.78	0.00	68.81	13.14	13.49	24.95	58.22	2,911.22
3)KT3	5.58	1.03	7.97	1.38	0.31	0.45	0.00	0.86	0.00	63.21	12.49	5.09	22.10	57.69	2,652.12
4)PLT	1.85	0.66	3.36	0.39	0.17	0.34	0.00	0.60	0.00	31.25	7.01	3.63	12.01	26.60	1,433.03
5)CKG	2.09	0.88	3.57	0.45	0.38	1.01	0.00	1.51	0.00	27.34	7.31	4.43	10.13	24.91	1,160.01
6)ANC	1.98	0.80	3.80	0.55	0.25	0.29	0.00	0.36	0.00	21.45	4.51	2.31	9.24	16.16	748.36
7)GB1	18.73	11.03	38.21	6.48	4.37	3.65	0.00	3.53	0.00	143.99	38.72	23.96	61.26	116.12	3,979.24
8)GB2	16.20	11.24	35.10	6.57	5.02	3.64	0.00	3.08	0.00	108.94	28.31	16.60	44.49	89.00	2,653.80
9)SLP	9.96	6.93	20.59	3.68	3.13	2.53	0.00	2.49	0.00	72.99	21.52	14.72	32.52	58.51	1,944.62
10)SM1	17.40	8.39	33.43	5.21	2.95	2.35	0.00	2.43	0.00	103.77	35.83	26.08	48.50	101.20	2,398.85
11)SM2	21.21	19.71	47.25	10.14	11.05	7.29	0.00	5.15	0.00	109.53	35.26	24.61	48.41	90.30	2,784.79
12)PLM	12.65	12.54	28.55	6.29	7.32	4.73	0.00	3.34	0.00	50.39	15.80	10.92	21.59	42.38	1,609.66
13)KED	3.30	3.28	7.42	1.63	1.93	1.29	0.00	0.89	0.00	11.19	3.37	2.31	4.82	9.31	399.79
14)MER	2.02	2.02	4.56	1.01	1.19	0.79	0.00	0.54	0.00	7.15	2.29	1.62	3.03	6.01	237.20
15)TGA	0.00	0.11	0.36	0.03	0.03	0.10	0.00	0.21	0.00	3.56	1.11	0.40	1.64	3.15	154.37
16)JTA	0.10	0.09	0.29	0.02	0.04	0.12	0.00	0.14	0.00	2.85	0.89	0.26	1.32	2.52	120.09
17)CPP	7.31	3.74	15.07	2.49	1.35	1.11	0.00	1.15	0.00	80.64	21.23	13.41	37.06	59.26	1,603.54
18)RMG	9.01	5.64	20.06	3.68	2.25	1.60	0.00	1.43	0.00	101.72	32.35	24.58	50.97	74.67	1,620.50
19)KGD	5.10	2.62	10.07	1.82	1.27	0.94	0.00	0.86	0.00	60.74	19.29	14.65	30.39	44.84	947.06
20)KGP	0.44	0.25	0.91	0.17	0.11	0.09	0.00	0.08	0.00	5.16	1.82	1.37	2.88	4.22	86.04
21)PGG	2.13	1.32	4.73	0.88	0.53	0.37	0.00	0.33	0.00	26.63	8.50	6.48	13.50	19.50	373.35
22)TPR	2.78	1.36	5.85	1.01	0.61	0.52	0.00	0.51	0.00	30.49	7.95	5.02	15.03	21.85	878.22
23)CIL	0.84	0.42	1.83	0.30	0.18	0.15	0.00	0.14	0.00	9.99	2.63	1.68	5.23	6.91	272.64
24)KB	7.19	0.09	4.23	0.11	0.00	0.00	0.00	0.03	0.00	51.10	17.19	8.89	13.48	61.60	2,071.19
25)KBB	0.20	0.03	0.91	0.03	0.02	0.02	0.00	0.10	0.00	10.09	3.75	2.10	2.66	12.41	423.28
26)CPE	13.34	11.74	32.58	6.39	4.86	2.71	0.00	2.15	0.00	44.45	16.79	14.90	18.21	38.91	1,108.32
27)CNE	4.68	6.91	11.57	3.19	2.67	1.17	0.00	0.85	0.00	12.98	5.71	5.44	5.27	11.18	322.18
28)KL1	13.40	12.46	30.45	6.56	6.86	4.42	0.00	3.09	0.00	61.35	24.51	16.70	27.22	49.48	1,071.23
29)KL2	3.44	3.12	7.57	1.65	1.76	1.13	0.00	0.79	0.00	13.17	5.02	3.52	5.47	11.15	252.47
30)CPA	3.24	6.04	8.27	2.03	2.52	1.09	0.00	0.73	0.00	12.13	4.91	4.41	5.32	10.14	255.91
31)PSM	7.29	5.01	19.94	3.38	1.85	0.76	0.00	0.86	0.00	31.86	13.04	10.70	14.14	26.01	575.94
32)JAG	1.84	1.72	4.67	1.39	0.68	0.32	0.00	0.25	0.00	5.98	2.78	2.89	2.67	4.87	128.15
33)SER	2.20	3.88	5.10	1.31	3.35	1.16	0.00	0.67	0.00	7.02	2.74	2.42	2.95	5.94	152.36
34)SRU	1.95	2.07	4.15	0.98	1.27	0.94	0.00	0.59	0.00	3.21	1.13	1.13	1.31	2.80	100.58
35)SRB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36)COG	0.66	0.64	1.34	0.28	0.38	0.39	0.00	0.36	0.00	2.56	0.84	0.60	1.04	2.23	67.29
37)SWG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38)JT	10.10	4.49	21.35	3.49	1.44	1.01	0.00	1.05	0.00	123.71	40.79	32.10	61.89	92.28	1,584.88
39)CW	3.63	0.91	8.63	1.18	0.15	0.09	0.00	0.12	0.00	55.46	18.29	14.39	27.74	41.37	515.55
40)PSR	2.61	1.21	9.18	1.92	0.20	0.16	0.00	0.08	0.00	53.10	17.51	13.78	26.57	39.61	398.73
41)KLD	4.65	2.22	10.74	1.84	0.68	0.46	0.00	0.47	0.00	73.01	24.07	18.94	36.53	54.46	786.46
42)TB	10.89	10.02	24.39	5.25	5.57	3.67	0.00	2.58	0.00	73.10	24.10	18.97	36.57	54.53	1,178.96
43)GAN	1.08	0.91	4.97	1.51	0.15	0.04	0.00	0.04	0.00	37.71	12.44	9.79	18.87	28.13	222.86
44)PDG	0.68	0.17	1.78	0.27	0.04	0.02	0.00	0.02	0.00	24.64	8.12	6.39	12.33	18.38	155.32
45)BEK	0.47	0.22	1.13	0.21	0.08	0.04	0.00	0.04	0.00	17.20	5.67	4.46	8.60	12.83	99.44
46)BKB	1.48	0.66	3.45	0.61	0.23	0.13	0.00	0.14	0.00	44.42	14.65	11.53	22.22	33.13	287.65
47)BGG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48)CL	0.51	0.43	1.46	0.36	0.15	0.05	0.00	0.05	0.00	20.50	6.76	5.32	10.26	15.29	94.13
49)TAN	0.81	0.76	1.28	0.24	0.65	2.74	0.00	1.75	0.00	11.56	3.41	2.18	4.11	10.84	520.68
50)JUG	0.05	0.07	0.15	0.02	0.07	0.27	0.00	0.12	0.00	0.80	0.25	0.16	0.28	0.76	36.43
51)CPD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52)DEP	3.00	4.53	7.97	2.29	1.86	0.70	0.00	0.48	0.00	8.11	3.89	4.29	3.60	6.71	184.65
53)SKJ	3.87	5.01	10.60	2.93	2.07	0.78	0.00	0.55	0.00	11.49	5.75	6.69	5.39	9.14	232.11
54)CIB	1.55	2.20	4.24	1.19	1.00	0.34	0.00	0.23	0.00	4.04	1.97	2.35	1.94	3.13	101.89
TOTAL	252.87	184.05	548.31	106.98	85.69	58.92	0.00	49.18	0.00	1987.46	615.47	447.63	891.20	1615.02	44,911.99
FROM / / TO	29) KL2	30) CPA	31) PSM	32) JAG	33) SER	34) SRU	35) SRB	36) COG	37) SWG	38) JT	39) CW	40) PSR	41) KLD	42) TB	TOTAL

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FROM \ TO	43) GAN	44) PDG	45) BEK	46) BKB	47) BGG	48) CL	49) TAN	50) JUG	51) CPD	52) DEP	53) SKJ	54) CIB	TOTAL	TO / FROM
1)KT1	2.40	1.87	0.83	2.97	0.00	0.47	14.41	0.93	0.00	0.55	0.56	0.14	1,040.00	1)KT1
2)KT2	2.23	2.02	0.57	2.71	0.00	0.16	96.50	6.81	0.00	0.39	0.33	0.05	3,023.00	2)KT2
3)KT3	1.53	2.06	0.51	2.40	0.00	0.16	79.71	5.63	0.00	0.45	0.37	0.06	2,745.00	3)KT3
4)PLT	1.55	1.19	0.38	1.65	0.00	0.14	53.90	3.81	0.00	0.18	0.15	0.02	1,496.00	4)PLT
5)CKG	1.41	1.29	0.38	1.54	0.00	0.20	26.38	1.32	0.00	0.25	0.18	0.03	1,193.00	5)CKG
6)ANC	0.98	0.94	0.37	1.52	0.00	0.13	13.01	0.84	0.00	0.38	0.38	0.09	767.00	6)ANC
7)GB1	11.49	8.99	3.69	13.18	0.00	2.27	23.93	1.45	0.00	5.65	6.26	1.87	4,058.00	7)GB1
8)GB2	7.73	6.13	2.35	8.65	0.00	1.35	5.22	0.26	0.00	7.12	8.48	2.92	2,704.00	8)GB2
9)SLP	7.56	5.26	2.51	8.34	0.00	1.89	34.00	2.32	0.00	3.86	4.28	1.37	2,016.00	9)SLP
10)SM1	11.29	7.74	1.88	6.94	0.00	1.24	1.95	0.08	0.00	4.37	4.49	1.18	2,440.00	10)SM1
11)SM2	12.68	8.49	3.77	12.27	0.00	3.14	8.06	0.42	0.00	14.17	17.85	7.38	2,873.00	11)SM2
12)PLM	5.53	3.47	1.42	4.81	0.00	1.15	11.93	0.70	0.00	9.13	11.62	5.59	1,665.00	12)PLM
13)KED	1.17	0.78	0.33	1.11	0.00	0.25	3.65	0.21	0.00	2.39	3.03	1.30	414.00	13)KED
14)MER	0.83	0.49	0.20	0.66	0.00	0.17	2.21	0.13	0.00	1.47	1.86	0.80	246.00	14)MER
15)TGA	0.15	0.14	0.04	0.19	0.00	0.02	3.85	0.19	0.00	0.02	0.01	0.00	159.00	15)TGA
16)JIA	0.10	0.08	0.02	0.10	0.00	0.01	4.35	0.22	0.00	0.02	0.01	0.00	125.00	16)JIA
17)CPP	6.56	5.49	2.67	6.46	0.00	1.60	3.19	0.16	0.00	2.14	2.50	0.79	1,635.00	17)CPP
18)RMG	13.78	9.84	6.12	18.05	0.00	5.52	8.03	0.47	0.00	3.65	4.57	1.47	1,692.00	18)RMG
19)KGD	8.21	5.98	3.77	11.11	0.00	3.35	4.90	0.28	0.00	2.02	2.51	0.81	990.00	19)KGD
20)KGP	0.76	0.55	0.35	1.03	0.00	0.31	0.47	0.03	0.00	0.18	0.21	0.07	90.00	20)KGP
21)PGG	3.63	2.61	1.66	4.89	0.00	1.47	1.89	0.11	0.00	0.89	1.13	0.37	392.00	21)PGG
22)TPR	2.47	2.19	1.30	4.45	0.00	0.65	7.85	0.48	0.00	0.94	1.12	0.33	900.00	22)TPR
23)CIL	0.83	0.77	0.50	1.71	0.00	0.23	2.40	0.15	0.00	0.29	0.37	0.11	280.00	23)CIL
24)KB	3.16	1.60	0.15	0.76	0.00	0.08	2.92	0.13	0.00	0.01	0.00	0.00	2,080.00	24)KB
25)KBB	0.78	0.20	0.09	0.06	0.00	0.01	1.50	0.08	0.00	0.00	0.00	0.00	426.00	25)KBB
26)CPE	7.77	3.35	0.92	3.12	0.00	1.07	2.94	0.16	0.00	7.07	7.12	2.16	1,144.00	26)CPE
27)CNE	3.25	1.29	0.36	1.16	0.00	0.53	1.00	0.07	0.00	4.31	5.93	1.91	342.00	27)CNE
28)KL1	8.10	5.33	1.88	6.29	0.00	1.53	1.14	0.06	0.00	9.09	11.57	4.78	1,121.00	28)KL1
29)KL2	1.63	1.10	0.39	1.27	0.00	0.35	0.39	0.02	0.00	2.30	2.89	1.20	264.00	29)KL2
30)CPA	2.59	1.07	0.37	1.17	0.00	0.52	1.04	0.07	0.00	3.12	3.07	1.06	270.00	30)CPA
31)PSM	5.51	2.97	1.02	3.31	0.00	1.06	1.69	0.13	0.00	3.40	3.82	1.14	600.00	31)PSM
32)JAG	1.76	0.61	0.17	0.55	0.00	0.24	0.26	0.01	0.00	1.35	1.45	0.44	135.00	32)JAG
33)SER	1.45	0.65	0.22	0.71	0.00	0.30	1.25	0.09	0.00	2.11	2.08	0.77	162.00	33)SER
34)SRU	0.43	0.24	0.09	0.29	0.00	0.09	1.83	0.13	0.00	0.58	0.56	0.19	105.00	34)SRU
35)SRB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35)SRB
36)CDG	0.29	0.18	0.07	0.23	0.00	0.06	1.01	0.07	0.00	0.34	0.34	0.11	70.00	36)CDG
37)SWG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37)SWG
38)JT	18.43	12.63	8.17	23.40	0.00	8.02	2.34	0.11	0.00	2.79	3.34	0.87	1,665.00	38)JT
39)CW	8.26	5.66	3.66	10.49	0.00	3.60	0.37	0.02	0.00	0.58	0.69	0.11	549.00	39)CW
40)PSR	7.91	5.42	3.51	10.05	0.00	3.44	0.27	0.01	0.00	1.04	1.39	0.23	432.00	40)PSR
41)KLO	10.88	7.45	4.82	13.81	0.00	4.74	0.99	0.05	0.00	1.46	1.85	0.50	833.00	41)KLO
42)TB	10.89	7.46	4.83	13.83	0.00	4.74	0.77	0.03	0.00	7.31	9.33	3.85	1,242.00	42)TB
43)GAN	5.62	3.85	2.49	7.14	0.00	2.45	0.13	0.01	0.00	1.17	1.93	0.35	248.00	43)GAN
44)PDG	3.67	2.52	1.63	4.66	0.00	1.60	0.08	0.00	0.00	0.19	0.29	0.05	170.00	44)PDG
45)BEK	2.56	1.76	1.14	3.25	0.00	1.12	0.07	0.00	0.00	0.22	0.34	0.11	110.00	45)BEK
46)BKB	6.62	4.54	2.93	8.40	0.00	2.88	0.24	0.01	0.00	0.60	0.88	0.26	315.00	46)BKB
47)BGG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47)BGG
48)CL	3.05	2.09	1.35	3.88	0.00	1.33	0.06	0.00	0.00	0.56	1.10	0.44	108.00	48)CL
49)TAN	0.94	0.60	0.16	0.61	0.00	0.12	81.49	4.08	0.00	0.19	0.11	0.02	609.00	49)TAN
50)JUG	0.07	0.04	0.01	0.04	0.00	0.01	5.79	0.58	0.00	0.02	0.01	0.00	43.00	50)JUG
51)CPO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51)CPO
52)DEP	3.15	1.02	0.30	0.91	0.00	0.64	0.43	0.03	0.00	5.35	4.92	1.61	203.00	52)DEP
53)SKJ	5.51	1.71	0.56	1.59	0.00	1.48	0.37	0.02	0.00	5.83	10.64	3.18	263.00	53)SKJ
54)CIB	2.01	0.64	0.23	0.64	0.00	0.88	0.12	0.01	0.00	2.55	4.26	2.77	116.00	54)CIB
TOTAL	251.16	154.38	77.14	238.38	0.00	68.79	522.27	32.96	0.00	124.01	152.17	54.77	46,568.00	TOTAL
FROM / TO	43) GAN	44) PDG	45) BEK	46) BKB	47) BGG	48) CL	49) TAN	50) JUG	51) CPO	52) DEP	53) SKJ	54) CIB	TOTAL	\ FROM TO \

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\ TO / FROM	1) KT1	2) KT2	3) KT3	4) PLT	5) CKG	6) ANC	7) GB1	8) GB2	9) SLP	10) SM1	11) SM2	12) PLM	13) KED	14) MER	TOTAL
1)KT1	37.73	116.48	90.21	49.58	43.23	33.82	100.14	74.43	61.33	63.54	72.06	42.83	15.89	8.24	809.51
2)KT2	186.34	596.31	476.83	260.48	265.48	179.82	264.97	119.45	161.62	97.98	93.83	59.40	21.56	8.26	2,792.32
3)KT3	135.81	434.61	347.53	189.84	193.49	131.06	285.23	125.29	155.23	108.03	105.87	59.74	19.33	6.75	2,297.79
4)PLT	93.27	298.49	238.68	130.39	132.89	90.01	124.29	76.55	42.36	11.21	9.94	11.34	8.90	1.86	1,270.17
5)CKG	65.48	200.93	173.53	112.14	200.09	50.51	127.33	84.45	63.02	40.53	42.51	48.79	37.15	13.27	1,259.71
6)ANC	45.97	148.61	114.86	60.77	53.20	47.77	99.50	73.22	25.60	20.77	20.55	11.30	3.98	1.60	727.70
7)GB1	93.48	324.07	279.33	115.32	92.00	87.11	439.58	57.35	224.40	310.74	360.94	190.66	58.73	36.04	2,669.74
8)GB2	52.34	193.42	175.44	57.90	38.65	0.12	379.46	327.68	161.64	266.63	315.34	166.27	41.39	26.94	2,183.20
9)SLP	74.51	239.22	193.13	103.50	102.49	70.31	216.16	157.80	172.02	61.75	56.43	55.41	19.73	7.80	1,530.25
10)SM1	35.30	135.24	141.66	37.11	26.39	28.88	324.36	297.43	100.94	430.52	417.70	133.83	19.97	17.83	2,147.14
11)SM2	51.06	181.31	168.79	61.80	52.83	45.49	337.33	304.41	224.91	356.45	450.33	224.93	68.94	45.69	2,574.25
12)PLM	41.36	136.40	116.98	55.83	55.50	35.58	155.15	124.92	120.42	174.43	215.15	134.98	38.04	26.08	1,430.81
13)KED	16.03	50.27	42.05	23.32	25.23	13.05	49.32	36.77	44.07	53.75	63.95	40.77	16.60	8.95	484.13
14)MER	8.90	28.91	23.70	12.44	13.80	7.47	30.14	24.27	26.22	36.93	44.65	28.24	9.05	6.77	301.50
15)TGA	11.39	33.06	24.48	19.65	26.69	8.67	18.88	12.38	8.29	4.70	4.84	5.26	4.08	1.31	183.68
16)JIAC	6.67	19.37	10.69	11.51	15.63	5.08	11.06	7.25	4.85	2.75	2.84	3.08	2.39	0.77	103.94
17)CPP	44.82	167.13	131.26	47.82	27.90	50.40	197.68	176.43	76.88	113.15	129.87	56.39	15.03	8.78	1,243.53
18)RMG	44.15	153.05	124.23	52.85	40.11	47.56	165.11	162.86	71.93	124.12	150.85	64.41	17.69	11.32	1,230.18
19)KGD	29.50	100.74	75.11	35.49	25.24	33.57	96.38	84.41	45.15	62.68	73.90	34.80	10.61	6.21	713.77
20)KGP	1.91	6.53	5.09	2.31	1.71	2.15	6.35	5.72	2.86	4.06	4.72	2.14	0.67	0.36	46.58
21)PGG	14.90	51.66	40.49	17.75	13.14	16.46	50.83	49.44	22.69	36.88	44.81	19.28	5.37	3.39	387.11
22)TPR	32.13	104.68	77.89	41.92	33.61	34.64	91.45	76.26	44.81	56.76	66.73	34.07	11.47	6.43	712.86
23)CIL	11.64	38.15	28.90	15.05	12.14	12.51	32.24	27.84	14.70	20.01	23.81	11.59	3.72	2.15	254.45
24)KB	29.66	113.20	115.07	33.68	30.69	22.52	199.73	187.78	48.55	243.01	337.94	134.92	11.50	18.52	1,526.76
25)KBB	12.50	45.45	23.22	15.37	15.92	9.19	76.67	66.21	19.42	69.87	94.30	64.60	5.34	11.27	529.34
26)CPE	13.72	50.09	43.26	16.80	18.09	11.47	91.25	89.74	54.94	124.81	168.44	77.35	17.22	16.32	793.50
27)CNR	2.83	9.88	10.18	3.14	3.90	2.29	20.12	19.39	12.11	27.24	37.51	17.75	4.28	3.90	174.52
28)KAL	12.54	48.64	49.44	13.63	10.67	11.82	102.03	109.79	40.52	112.66	156.67	51.62	10.07	8.85	738.93
29)BGK	2.72	10.17	10.47	2.96	2.84	2.38	21.64	21.29	9.56	26.26	36.95	12.77	2.81	2.30	165.12
30)CPA	3.14	11.00	8.88	4.05	4.39	2.53	24.90	22.92	13.10	26.18	35.01	18.20	4.58	4.14	183.02
31)PSM	9.15	33.51	29.06	10.98	10.32	8.36	28.98	32.66	17.12	48.42	69.80	25.14	4.68	5.73	333.91
32)JAG	1.49	5.95	5.32	1.73	1.73	1.35	10.82	11.41	5.95	14.36	19.77	8.13	1.76	1.63	91.39
33)SER	1.92	6.35	6.39	2.56	3.85	1.43	15.69	13.87	8.58	15.67	20.77	12.25	3.47	3.13	115.93
34)SRU	1.56	4.75	4.45	2.25	4.17	1.08	9.28	7.34	5.39	8.38	10.33	4.95	2.75	2.25	68.94
35)SRB	1.15	3.56	3.41	1.64	2.80	0.81	8.61	7.14	5.00	7.84	10.12	6.89	2.23	1.87	63.09
36)CDG	1.70	5.17	4.80	2.50	4.15	1.17	8.85	6.89	6.31	7.97	10.01	7.88	2.74	1.82	71.96
37)SWG	0.84	2.83	2.94	1.66	1.37	0.68	8.10	7.58	3.84	7.95	10.73	5.53	1.46	1.28	56.17
38)JT	29.10	110.38	95.23	30.74	19.58	31.35	138.48	167.68	33.16	93.31	117.17	31.29	5.55	4.30	907.32
39)CW	5.36	21.41	19.50	5.49	3.64	5.52	34.60	42.99	14.36	42.81	59.06	17.43	3.19	2.80	278.17
40)PSR	4.14	35.54	13.72	4.34	3.37	4.10	25.62	30.97	11.41	46.28	50.32	15.71	2.79	2.70	251.01
41)KLO	17.97	68.15	57.29	18.79	11.27	20.97	75.76	89.38	15.29	40.76	52.12	13.92	2.51	1.84	486.03
42)TB	14.41	57.50	54.45	14.55	8.93	14.45	118.83	133.08	50.31	115.91	146.14	50.72	11.31	8.29	798.88
43)GAN	1.79	7.15	4.83	1.96	1.00	1.77	10.77	13.02	4.93	15.36	22.07	7.08	1.26	1.27	94.25
44)PDG	1.63	6.35	6.25	1.52	1.00	1.86	10.03	11.95	3.57	10.50	13.88	3.77	0.79	0.56	73.68
45)BEK	0.97	3.83	3.22	1.01	0.63	1.24	2.71	3.19	0.27	0.77	0.95	0.22	0.05	0.03	19.10
46)BKB	4.10	15.70	13.20	4.20	2.55	5.13	12.52	14.58	1.50	3.92	4.83	1.16	0.24	0.14	83.77
47)BGG	1.07	4.11	3.64	1.10	0.76	1.28	3.12	3.77	0.30	1.02	1.38	0.31	0.06	0.04	21.96
48)CL	0.51	1.97	1.83	0.54	0.43	0.56	1.25	1.52	0.10	0.41	0.58	0.14	0.02	0.02	9.88
49)TAN	43.88	128.22	106.18	70.56	115.76	32.23	53.98	37.41	12.73	9.98	12.31	14.65	8.21	5.22	651.33
50)JUG	3.98	11.79	9.83	6.31	10.35	2.96	4.84	3.07	0.73	0.65	0.80	0.95	0.49	0.36	57.09
51)CPD	3.75	12.18	9.60	5.63	9.04	2.79	7.15	5.65	2.35	2.09	2.58	3.24	1.60	1.18	68.84
52)DEP	1.43	5.29	5.51	1.64	1.83	1.28	9.74	11.24	6.48	15.48	21.10	9.03	2.18	1.89	94.11
53)SKJ	1.59	6.00	6.04	1.76	1.80	1.48	11.34	13.76	7.18	17.49	24.08	9.52	2.23	1.89	106.15
54)CIB	0.44	1.61	1.62	0.47	0.48	0.40	3.24	4.05	2.05	5.00	6.89	29.70	0.66	0.55	57.16
TOTAL	1365.75	4606.33	3829.68	1797.71	1798.71	1238.48	4753.58	3677.92	2293.05	3620.69	4326.18	2076.35	568.32	372.88	36,325.61
FROM / / TO	1) KT1	2) KT2	3) KT3	4) PLT	5) CKG	6) ANC	7) GB1	8) GB2	9) SLP	10) SM1	11) SM2	12) PLM	13) KED	14) MER	TOTAL

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\ TO FROM	15) TGA	16) JIAC	17) CPP	18) RMG	19) KGD	20) KGP	21) PGG	22) TPR	23) CIL	24) KB	25) KBB	26) CPE	27) CNR	28) KAL	TOTAL
1)KT1	3.81	3.73	54.99	43.69	27.38	1.71	12.88	26.08	7.97	29.19	9.49	12.36	1.91	15.73	1,060.44
2)KT2	2.54	22.74	179.33	94.09	68.85	3.93	23.17	59.64	12.47	78.48	22.99	22.97	2.08	36.61	3,422.21
3)KT3	1.44	16.58	126.84	71.73	40.68	2.66	15.91	30.33	6.94	72.71	10.71	18.72	2.19	36.75	2,751.95
4)PLT	2.07	11.38	53.85	30.67	22.85	1.34	7.73	24.03	5.09	30.32	10.13	9.37	0.84	11.96	1,491.80
5)CKG	16.05	13.51	58.35	38.72	23.79	1.55	9.83	22.55	5.56	41.10	15.48	15.20	1.67	12.94	1,536.00
6)ANC	0.65	4.58	71.08	53.99	38.04	2.30	15.90	37.33	10.44	29.47	9.31	12.05	1.69	17.51	1,032.03
7)GB1	12.82	7.42	205.30	167.24	92.50	5.92	47.38	78.14	25.23	169.86	54.89	85.31	16.09	106.33	3,744.18
8)GB2	8.29	2.95	168.07	142.79	69.42	4.53	37.87	52.59	16.80	171.73	55.82	99.21	21.22	120.48	3,154.96
9)SLP	1.24	8.68	118.00	97.19	56.23	3.54	28.83	50.59	16.37	115.38	39.11	60.86	12.27	66.87	2,205.40
10)SM1	1.32	1.65	144.03	117.80	53.18	3.28	28.85	38.27	11.32	237.23	70.34	107.38	17.57	131.45	3,110.82
11)SM2	17.53	3.80	161.69	146.31	72.13	4.53	40.83	58.54	19.58	238.95	81.98	158.63	41.87	167.81	3,788.43
12)PLM	8.21	4.20	82.19	69.69	36.66	2.24	19.55	31.13	10.00	133.83	46.75	90.60	24.75	93.61	2,084.23
13)KEO	3.58	1.92	27.00	22.00	12.41	0.77	6.23	11.25	3.47	47.49	16.58	32.21	8.83	33.22	711.09
14)MER	1.98	1.02	16.74	14.19	7.54	0.45	3.98	6.50	2.06	30.96	10.86	21.09	5.77	21.61	446.24
15)TGA	5.01	2.90	9.21	5.93	3.99	0.23	1.55	4.09	1.20	4.71	1.64	1.64	0.16	1.53	227.46
16)JIAC	2.93	1.70	5.39	3.47	2.33	0.09	0.91	2.40	0.70	2.76	0.96	0.96	0.09	0.90	129.53
17)CPP	2.35	2.26	166.88	99.01	91.84	6.00	52.25	87.04	32.66	88.04	27.69	44.00	7.65	62.39	2,013.57
18)RMG	3.36	3.27	55.10	149.04	24.83	2.88	23.29	8.23	2.94	90.81	28.99	52.67	10.78	72.48	1,758.87
19)KGD	2.31	2.15	32.49	26.47	51.10	1.97	8.76	16.53	4.71	47.97	15.70	26.60	5.78	35.17	991.48
20)KGP	0.14	0.11	1.94	3.19	2.05	0.23	0.69	1.01	0.30	3.12	0.79	1.65	0.36	2.46	64.61
21)PGG	1.06	1.09	12.04	26.66	9.40	0.71	17.76	3.36	1.66	29.01	9.50	17.00	3.50	23.62	563.48
22)TPR	2.94	2.94	84.73	82.22	46.63	3.05	26.53	44.19	16.58	32.17	10.33	16.55	3.01	22.63	1,107.15
23)CIL	1.04	1.12	34.71	33.68	19.10	1.25	10.87	18.10	6.79	11.27	3.33	6.01	1.12	8.55	411.39
24)KB	0.35	1.73	137.50	113.71	49.22	2.97	27.45	35.26	10.20	377.34	48.69	15.16	0.25	14.19	2,360.55
25)KBB	0.16	0.83	56.67	45.48	20.70	0.74	11.54	14.68	3.69	66.47	63.12	8.86	0.37	3.92	826.56
26)CPE	2.36	1.11	55.44	51.69	21.98	1.24	13.44	16.00	5.11	129.65	46.39	126.74	26.16	90.41	1,381.22
27)CNR	0.51	0.21	13.75	13.35	6.25	0.36	3.50	3.84	1.27	39.68	15.91	39.97	15.40	27.18	355.70
28)KAL	1.18	0.69	43.85	46.29	15.48	1.09	11.06	9.41	3.06	141.09	48.75	97.69	25.94	107.55	1,292.05
29)BGK	0.00	0.12	8.04	7.35	3.36	0.18	1.78	1.70	0.50	32.85	10.95	22.56	6.06	23.65	284.21
30)CPA	0.73	0.33	9.23	8.64	2.91	0.19	2.21	1.97	0.63	36.27	12.67	32.50	11.08	25.29	327.67
31)PSM	0.77	0.69	38.18	38.18	16.83	1.04	10.60	12.77	4.41	59.73	20.13	49.07	10.50	51.08	647.90
32)JAG	0.21	0.08	7.73	7.99	3.16	0.20	2.16	2.23	0.69	17.15	5.99	15.98	4.81	14.76	174.53
33)SER	0.53	0.30	5.24	4.52	2.18	0.13	1.15	1.39	0.42	29.11	13.93	26.08	8.54	18.00	227.46
34)SRU	0.56	0.36	3.01	2.27	1.16	0.07	0.22	0.35	0.09	26.22	9.74	18.39	5.12	17.89	154.39
35)SRB	0.42	0.25	2.62	2.16	1.06	0.06	0.53	0.74	0.22	16.41	8.14	7.72	2.14	9.56	115.11
36)CDG	0.65	0.30	3.08	2.24	1.19	0.07	0.56	0.91	0.25	10.04	4.43	6.53	1.58	5.42	109.22
37)SMG	0.19	0.09	2.78	2.70	1.24	0.07	0.69	0.72	0.23	16.10	6.84	0.03	5.52	10.84	104.20
38)JT	0.49	1.44	141.51	150.26	67.70	2.30	42.57	52.53	18.96	97.51	29.26	52.84	9.29	85.58	1,659.56
39)CW	0.44	0.31	32.93	37.58	13.83	0.90	10.04	9.15	3.25	23.62	6.69	13.10	2.03	39.31	471.33
40)PSR	0.19	0.11	28.74	32.79	12.07	0.73	9.00	7.98	2.89	22.35	6.72	21.27	3.77	35.56	435.18
41)KLD	0.33	1.04	101.01	117.95	52.61	3.52	36.02	40.22	15.39	58.66	17.60	33.62	5.86	56.68	1,026.55
42)TB	1.52	0.61	73.06	71.47	29.67	1.92	18.28	21.25	7.07	111.14	38.13	74.53	19.77	81.00	1,348.29
43)GAN	0.07	0.04	13.79	16.02	5.85	0.30	4.44	3.86	1.41	9.98	3.09	11.37	2.60	14.95	182.02
44)PDG	0.07	0.04	13.52	17.50	8.00	0.43	5.26	4.22	1.66	5.45	1.01	3.26	0.64	9.21	143.96
45)BEK	0.00	0.03	10.81	12.75	6.95	0.42	4.50	5.15	2.20	4.30	1.99	2.52	0.58	4.68	76.00
46)BKB	0.02	0.11	26.11	43.92	23.93	1.43	15.49	17.66	7.47	15.39	3.15	8.54	1.91	16.50	265.39
47)BGG	0.00	0.03	12.65	14.70	7.70	0.47	4.99	5.57	2.25	5.87	1.33	3.92	0.97	6.66	89.08
48)CL	0.00	0.02	8.42	9.59	4.82	0.29	3.05	3.35	1.32	4.35	1.22	3.81	1.16	4.67	55.94
49)TAN	3.74	13.49	26.03	17.62	9.70	0.65	4.38	9.01	2.33	15.55	9.32	8.24	1.50	4.75	777.67
50)JUG	0.19	1.21	2.18	1.50	0.81	0.05	0.36	0.71	0.19	1.23	0.87	0.72	0.16	0.38	67.65
51)CPD	0.33	0.76	2.95	2.04	1.10	0.05	0.50	0.91	0.24	2.75	1.60	1.35	0.24	0.84	84.49
52)DEP	0.25	0.10	9.11	9.21	4.34	0.25	2.57	2.61	0.88	26.45	10.17	26.33	9.67	20.19	216.24
53)SKJ	0.25	0.09	12.21	13.14	6.15	0.35	3.73	3.55	1.28	32.57	11.38	30.90	10.88	27.36	259.99
54)CIB	0.07	0.02	3.98	4.35	2.05	0.11	1.26	1.16	0.42	12.08	4.43	11.67	4.28	10.15	113.20
TOTAL	119.26	148.20	2776.05	2458.73	1276.92	77.77	694.87	1002.79	320.79	3183.91	1016.80	1688.31	389.98	1940.63	53,620.64
FROM / / TO	15) TGA	16) JIAC	17) CPP	18) RMG	19) KGD	20) KGP	21) PGG	22) TPR	23) CIL	24) KB	25) KBB	26) CPE	27) CNR	28) KAL	TOTAL

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\ TO / FROM	29) BGK	30) CPA	31) PSM	32) JAG	33) SER	34) SRU	35) SRB	36) CDG	37) SWG	38) JT	39) CW	40) PSR	41) KLD	42) TB	TOTAL
1)KT1	3.28	1.84	6.28	1.15	0.79	0.89	0.36	1.03	0.31	38.36	9.90	8.45	22.24	32.04	1,187.37
2)KT2	7.08	2.09	12.26	2.60	0.54	0.85	0.20	1.52	0.17	97.31	18.39	26.03	46.94	87.37	3,725.57
3)KT3	7.22	1.55	10.32	2.18	0.55	0.80	0.20	1.48	0.19	78.89	15.42	8.66	36.69	76.39	2,992.48
4)PLT	2.44	1.01	4.42	0.62	0.32	0.60	0.15	1.05	0.10	39.60	8.79	6.28	20.24	35.77	1,613.18
5)CKG	3.40	1.66	5.81	0.90	0.87	2.23	0.48	3.28	0.20	42.91	11.35	9.49	21.16	41.49	1,681.24
6)ANC	3.43	1.60	6.57	1.15	0.60	0.67	0.25	0.82	0.24	35.75	7.44	5.25	20.48	28.58	1,144.86
7)GB1	22.06	15.05	44.98	9.29	7.21	5.81	3.14	5.53	3.31	163.39	43.47	37.09	92.48	139.82	4,336.83
8)GB2	24.45	19.66	52.94	12.06	10.60	7.43	4.73	6.19	5.19	158.39	40.73	32.93	86.05	137.32	3,753.63
9)SLP	14.69	11.84	30.34	6.60	6.46	5.04	3.04	4.88	2.81	103.68	30.25	28.52	61.45	88.20	2,603.20
10)SM1	28.90	16.15	55.49	10.52	6.85	5.28	2.66	5.38	3.03	166.03	56.73	56.91	103.24	171.82	3,799.80
11)SM2	36.41	39.21	81.08	21.19	26.56	16.94	13.21	11.76	13.37	181.16	57.71	55.52	106.52	158.48	4,607.53
12)PLM	20.32	23.34	45.85	12.29	16.47	10.29	8.42	7.14	8.30	78.00	24.21	23.06	44.46	69.61	2,475.99
13)KED	7.25	8.34	16.27	4.36	5.92	3.84	3.05	2.60	2.97	23.66	7.05	6.65	13.55	20.90	837.50
14)MER	4.70	5.46	10.62	2.85	3.88	2.50	1.99	1.67	1.94	16.04	5.08	4.96	9.05	14.32	531.31
15)TGA	0.00	0.23	0.66	0.08	0.09	0.25	0.06	0.52	0.02	6.25	1.92	0.96	3.84	5.86	248.19
16)JIAC	0.14	0.14	0.38	0.04	0.07	0.22	0.05	0.25	0.01	3.66	1.12	0.45	2.25	3.43	141.75
17)CPP	11.90	7.05	24.51	4.93	3.07	2.44	1.23	2.49	1.43	126.46	32.95	28.68	77.31	98.61	2,436.63
18)KMG	13.50	9.80	30.05	6.71	4.72	3.25	1.99	2.86	2.41	146.89	46.24	48.42	97.93	114.43	2,288.05
19)KGD	7.46	4.43	14.73	3.24	2.61	1.86	1.11	1.67	1.30	85.60	26.90	28.17	56.97	67.05	1,294.56
20)KGP	0.47	0.30	0.95	0.21	0.17	0.12	0.07	0.11	0.08	5.22	1.82	1.90	3.88	4.54	84.45
21)PGG	4.42	3.18	9.80	2.22	1.53	1.04	0.63	0.92	0.78	53.14	16.79	17.63	35.85	41.29	732.69
22)TPR	4.33	2.45	9.10	1.91	1.33	1.10	0.58	1.05	0.62	45.70	11.79	10.26	29.96	34.76	1,262.08
23)CIL	1.56	0.90	3.43	0.68	0.47	0.37	0.20	0.35	0.23	17.99	4.69	4.12	12.52	13.21	472.10
24)X8	9.70	0.15	5.71	0.17	0.00	0.01	0.00	0.06	0.00	66.44	22.12	15.76	23.32	84.99	2,588.97
25)X88	0.44	0.07	2.03	0.08	0.05	0.07	0.01	0.30	0.00	21.76	8.00	6.18	7.64	28.39	901.59
26)CPS	21.40	21.83	52.25	12.47	10.91	5.88	2.04	4.59	0.00	68.71	25.69	31.41	37.44	63.83	1,739.69
27)CNR	6.91	11.82	17.08	5.74	5.53	2.34	1.86	1.66	3.17	18.47	8.04	10.56	9.98	16.88	475.74
28)KAL	22.49	24.24	51.09	13.41	16.13	10.04	7.91	6.90	8.26	99.24	39.26	36.85	58.58	84.93	1,771.36
29)BGK	5.29	5.57	11.66	3.09	3.79	2.36	1.86	1.62	1.94	19.55	7.37	7.13	10.80	17.55	383.80
30)CPA	5.72	12.36	14.59	4.35	6.23	2.61	2.21	1.71	3.26	20.64	8.26	10.22	12.04	18.31	450.18
31)PSM	11.25	8.98	30.79	6.36	4.00	1.58	1.44	1.77	2.16	47.42	19.20	21.72	27.99	41.07	873.63
32)JAG	3.43	3.72	8.68	3.15	1.76	0.81	0.60	0.62	1.04	10.71	4.93	7.08	6.37	9.26	236.69
33)SER	4.59	9.40	10.65	3.34	9.81	3.29	3.35	1.87	3.31	14.14	5.46	6.64	7.91	12.70	323.90
34)SRU	3.99	4.91	8.50	2.65	3.66	2.60	1.96	1.60	1.74	6.35	2.21	3.05	3.65	5.88	206.75
35)SRB	2.45	4.47	5.43	1.63	4.48	2.74	3.51	1.34	1.55	7.38	2.68	3.05	4.01	6.71	166.55
36)CDG	1.37	1.54	2.77	0.72	1.12	1.11	0.60	0.99	0.43	5.13	1.67	1.63	2.78	4.74	135.82
37)SWG	2.70	5.74	6.64	2.24	3.86	1.36	1.35	0.84	2.99	8.43	3.52	4.68	4.86	7.44	160.86
38)JT	15.28	7.88	32.30	6.42	3.06	2.08	1.09	2.12	1.57	180.38	58.86	63.84	120.06	142.78	2,297.27
39)CW	5.26	1.52	12.50	2.09	0.31	0.18	0.07	0.22	0.19	77.48	25.28	27.42	51.57	61.33	736.77
40)PSR	5.13	2.75	18.01	4.58	0.54	0.42	0.10	0.22	0.42	100.47	32.78	35.56	66.87	79.53	782.56
41)KLD	9.27	5.14	21.39	4.46	1.89	1.23	0.64	1.25	1.00	140.18	45.74	49.61	93.30	110.96	1,512.61
42)TB	17.25	18.38	38.59	10.12	12.35	7.85	6.11	5.44	6.30	111.49	36.38	39.46	74.21	88.25	1,820.48
43)GAN	1.91	1.87	8.80	3.25	0.38	0.09	0.06	0.10	0.37	64.30	20.98	22.76	42.80	50.89	400.58
44)PDG	1.25	0.36	3.30	0.61	0.10	0.04	0.02	0.05	0.07	44.00	14.36	15.57	29.28	34.83	287.81
45)BEK	0.77	0.42	1.87	0.42	0.18	0.09	0.05	0.09	0.11	27.48	8.97	9.73	18.29	21.75	166.23
46)BKB	2.72	1.40	6.33	1.37	0.58	0.33	0.19	0.34	0.36	78.65	25.66	27.83	52.35	62.25	525.76
47)BGG	1.12	0.71	2.90	0.70	0.29	0.14	0.09	0.13	0.20	34.66	11.31	12.27	23.07	27.43	204.09
48)CL	0.91	0.89	2.59	0.77	0.38	0.13	0.10	0.11	0.31	35.09	11.45	12.42	23.36	27.78	172.22
49)TAN	1.52	1.67	2.41	0.54	1.71	6.98	1.93	4.38	0.31	20.95	6.12	5.38	9.92	20.87	862.34
50)JUG	0.13	0.19	0.36	0.05	0.23	0.88	0.32	0.37	0.04	1.82	0.57	0.51	0.85	1.83	75.79
51)CPD	0.27	0.24	0.43	0.09	0.20	0.66	0.14	0.72	0.04	2.47	0.75	0.64	1.18	2.53	94.86
52)DEP	4.89	8.57	12.99	4.55	4.26	1.54	1.36	1.04	3.12	12.74	6.05	9.19	7.52	11.19	305.26
53)SKJ	6.21	9.30	16.99	5.71	4.65	1.69	1.45	1.17	3.51	17.75	8.78	14.10	11.08	14.98	377.37
54)CIB	2.30	3.80	6.30	2.16	2.08	0.68	0.66	0.46	1.67	5.78	2.79	4.59	3.70	4.76	154.93
TOTAL	407.36	357.16	892.75	214.88	206.18	135.64	90.85	108.66	98.47	3084.13	955.96	967.24	1851.65	2651.91	65,443.47
FROM / / TO	29) BGK	30) CPA	31) PSM	32) JAG	33) SER	34) SRU	35) SRB	36) CDG	37) SWG	38) JT	39) CW	40) PSR	41) KLD	42) TB	TOTAL

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FROM \ TO	43) GAN	44) PDG	45) BEK	46) BKB	47) BGG	48) CL	49) TAN	50) JUG	51) CPD	52) DEP	53) SKJ	54) CIB	TOTAL	TO / FROM
1)KT1	3.73	3.01	1.20	4.70	1.36	0.75	21.14	1.72	2.29	0.77	0.77	0.18	1,229.00	1)KT1
2)KT2	3.95	3.70	0.95	4.90	0.94	0.29	161.47	14.40	15.62	0.62	0.53	0.08	3,933.00	2)KT2
3)KT3	2.40	3.32	0.74	3.83	1.18	0.26	117.69	10.50	11.38	0.64	0.52	0.08	3,145.00	3)KT3
4)PLT	2.46	1.94	0.57	2.67	0.60	0.23	80.83	7.21	7.82	0.26	0.21	0.03	1,718.00	4)PLT
5)CKG	2.78	2.62	0.70	3.09	0.83	0.40	48.99	3.10	6.45	0.44	0.31	0.05	1,751.00	5)CKG
6)ANC	2.05	2.02	0.72	3.24	0.72	0.27	25.66	2.09	2.79	0.71	0.71	0.15	1,186.00	6)ANC
7)GB1	16.36	13.19	4.89	19.08	5.80	3.30	32.12	2.45	4.54	7.26	7.95	2.21	4,456.00	7)GB1
8)GB2	14.10	11.54	3.99	16.05	4.77	2.53	8.98	0.56	1.92	11.72	13.79	4.43	3,848.00	8)GB2
9)SLP	13.47	9.67	4.17	15.12	5.02	3.44	57.13	4.92	5.82	6.21	6.81	2.02	2,737.00	9)SLP
10)SM1	22.67	16.02	3.51	14.16	4.44	2.56	3.69	0.19	1.05	7.92	8.03	1.96	3,886.00	10)SM1
11)SM2	26.32	18.15	7.29	25.89	9.31	6.67	15.77	1.05	2.71	26.55	33.03	12.74	4,793.00	11)SM2
12)PLM	10.75	6.94	2.57	9.49	3.26	2.29	21.85	1.62	3.07	16.01	20.12	9.03	2,583.00	12)PLM
13)KED	3.10	2.13	0.82	3.00	1.00	0.68	9.12	0.66	1.24	5.72	7.17	2.86	875.00	13)KED
14)MER	2.35	1.42	0.52	1.88	0.66	0.48	5.86	0.44	0.83	3.73	4.67	1.86	556.00	14)MER
15)TGA	0.33	0.33	0.09	0.42	0.10	0.05	8.00	0.50	0.91	0.04	0.03	0.00	259.00	15)TGA
16)JIAC	0.16	0.14	0.04	0.16	0.04	0.02	6.61	0.42	0.63	0.02	0.01	0.00	150.00	16)JIAC
17)CPP	12.91	11.14	4.90	12.92	5.62	3.22	5.92	0.37	1.06	3.80	4.38	1.14	2,504.00	17)CPP
18)RMG	24.96	18.39	10.33	33.26	12.59	10.24	13.73	1.01	1.88	5.97	7.38	2.22	2,430.00	18)RMG
19)KGD	14.51	10.90	6.20	19.98	7.52	6.07	8.17	0.59	1.11	3.22	3.96	1.19	1,378.00	19)KGD
20)KGP	0.96	0.73	0.42	1.34	0.51	0.41	0.56	0.04	0.08	0.20	0.24	0.07	90.00	20)KGP
21)PGG	9.10	6.75	3.87	12.46	4.69	3.77	4.45	0.32	0.60	2.02	2.52	0.77	784.00	21)PGG
22)TPR	4.64	4.25	2.27	8.51	2.41	1.25	13.92	1.08	1.60	1.59	1.88	0.52	1,306.00	22)TPR
23)CIL	1.87	1.79	1.06	3.93	1.06	0.54	5.10	0.40	0.59	0.60	0.75	0.21	490.00	23)CIL
24)KB	5.15	2.70	0.23	1.26	0.35	0.14	4.49	0.24	1.46	0.01	0.00	0.00	2,605.00	24)KB
25)KBB	2.10	0.56	0.22	0.16	0.06	0.04	3.63	0.25	1.19	0.01	0.00	0.00	910.00	25)KBB
26)CPE	15.07	6.70	1.66	6.15	2.53	2.12	5.38	0.37	1.12	12.39	12.32	3.49	1,809.00	26)CPE
27)CNR	5.81	2.38	0.60	2.10	0.98	0.97	1.69	0.15	0.34	6.95	9.44	2.84	510.00	27)CNR
28)KAL	16.45	11.15	3.55	12.99	4.81	3.18	2.18	0.13	0.52	16.66	20.94	8.07	1,872.00	28)KAL
29)BGK	3.03	2.11	0.67	2.41	0.91	0.67	0.68	0.04	0.16	3.86	4.80	1.85	405.00	29)BGK
30)CPA	5.53	2.36	0.73	2.54	1.12	1.14	2.10	0.17	0.38	6.02	5.85	1.88	480.00	30)CPA
31)PSM	10.30	5.72	1.77	6.28	2.56	2.03	2.97	0.29	0.57	5.74	6.36	1.77	920.00	31)PSM
32)JAG	3.95	1.40	0.35	1.27	0.58	0.55	0.55	0.04	0.12	2.75	2.92	0.83	252.00	32)JAG
33)SER	3.65	1.70	0.53	1.83	0.79	0.77	2.98	0.27	0.45	4.81	4.69	1.63	348.00	33)SER
34)SRU	1.07	0.63	0.20	0.72	0.27	0.23	4.27	0.38	0.56	1.29	1.24	0.40	218.00	34)SRU
35)SRB	1.58	0.81	0.25	0.88	0.36	0.36	3.37	0.36	0.38	2.23	2.13	0.74	180.00	35)SRB
36)CDG	0.74	0.47	0.16	0.58	0.21	0.15	2.40	0.21	0.47	0.78	0.77	0.24	143.00	36)CDG
37)SWG	2.80	1.18	0.37	1.25	0.59	0.71	0.86	0.08	0.14	3.87	3.87	1.41	178.00	37)SWG
38)JT	33.72	23.82	13.93	43.54	17.22	15.03	4.04	0.25	0.80	4.61	5.44	1.33	2,461.00	38)JT
39)CW	14.48	10.23	5.98	18.70	7.40	6.45	0.62	0.04	0.16	0.91	1.09	0.16	803.00	39)CW
40)PSR	18.78	13.27	7.76	24.25	9.59	8.37	0.61	0.04	0.15	2.23	2.94	0.46	871.00	40)PSR
41)KLD	26.20	18.51	10.82	33.83	13.39	11.68	2.24	0.14	0.45	3.18	3.97	0.99	1,638.00	41)KLD
42)TB	20.84	14.72	8.61	26.91	10.65	9.29	1.39	0.08	0.36	12.64	15.93	6.12	1,948.00	42)TB
43)GAN	12.02	8.49	4.96	15.52	6.14	5.36	0.27	0.02	0.07	2.27	3.69	0.62	460.00	43)GAN
44)PDG	8.22	5.81	3.40	10.62	4.20	3.67	0.17	0.01	0.04	0.38	0.57	0.10	325.00	44)PDG
45)BEK	5.14	3.63	2.12	6.63	2.62	2.29	0.13	0.01	0.03	0.39	0.61	0.18	190.00	45)BEK
46)BKB	14.70	10.39	6.07	18.98	7.51	6.55	0.50	0.03	0.10	1.19	1.74	0.48	594.00	46)BKB
47)BGG	6.48	4.58	2.68	8.37	3.31	2.89	0.17	0.01	0.03	0.90	1.16	0.34	235.00	47)BGG
48)CL	6.56	4.63	2.71	8.47	3.35	2.92	0.13	0.01	0.03	1.09	2.11	0.78	205.00	48)CL
49)TAN	2.15	1.40	0.33	1.41	0.43	0.27	174.92	11.07	10.01	0.40	0.23	0.04	1,065.00	49)TAN
50)JUG	0.21	0.13	0.03	0.12	0.04	0.03	15.64	1.97	0.97	0.04	0.02	0.00	95.00	50)JUG
51)CPD	0.26	0.17	0.04	0.17	0.05	0.03	5.94	0.41	0.97	0.06	0.04	0.01	103.00	51)CPD
52)DEP	6.22	2.07	0.55	1.83	0.97	1.29	0.79	0.06	0.16	9.52	8.65	2.64	340.00	52)DEP
53)SKJ	10.67	3.41	1.00	3.14	1.88	2.94	0.67	0.05	0.14	10.21	18.39	5.12	435.00	53)SKJ
54)CIB	3.62	1.19	0.39	1.16	0.74	1.61	0.21	0.02	0.04	4.14	6.82	4.14	179.00	54)CIB
TOTAL	463.43	316.38	144.47	484.13	180.03	143.45	922.92	72.84	98.34	227.54	274.48	92.52	68,864.00	TOTAL
FROM / TO	43) GAN	44) PDG	45) BEK	46) BKB	47) BGG	48) CL	49) TAN	50) JUG	51) CPD	52) DEP	53) SKJ	54) CIB	TOTAL	\ FROM TO

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FROM \ TO	1) KT1	2) KT2	3) KT3	4) PLT	5) CKG	6) ANC	7) GB1	8) GB2	9) SLP	10) SM1	11) SM2	12) PLM	13) KED	14) MER	TOTAL
1)KT1	37.48	128.53	88.70	45.24	52.63	40.38	92.92	86.86	68.90	76.62	87.03	53.04	24.41	12.57	895.30
2)KT2	210.63	748.88	533.64	270.54	367.90	244.37	279.83	158.65	206.67	134.47	128.98	83.71	37.68	14.33	3,420.28
3)KT3	137.16	487.66	347.50	176.17	239.57	159.13	269.14	148.68	177.36	132.48	130.02	75.22	30.18	10.47	2,520.75
4)PLT	88.08	313.14	223.14	113.12	153.84	102.19	109.65	84.93	45.25	12.85	11.41	13.35	12.99	2.70	1,286.63
5)CKG	80.34	273.90	210.80	126.42	300.96	74.51	145.96	121.74	87.47	60.37	63.42	74.63	70.49	24.99	1,715.99
6)ANC	55.92	200.81	138.31	67.91	79.33	69.86	113.07	104.64	35.23	30.67	30.40	17.14	7.49	2.98	953.75
7)GB1	85.82	330.55	253.89	97.28	103.54	96.15	377.04	61.86	233.06	346.38	402.96	218.24	83.38	50.79	2,740.94
8)GB2	59.90	245.96	198.80	60.88	54.24	0.16	405.76	660.67	209.29	370.53	438.89	208.72	73.25	47.32	2,814.37
9)SLP	83.18	296.67	213.44	106.15	140.25	94.36	225.43	206.97	217.23	83.70	76.59	77.11	34.06	13.36	1,868.50
10)SM1	41.31	175.84	164.14	39.90	37.86	40.64	354.67	409.00	133.64	611.77	594.46	195.28	36.13	32.02	2,866.66
11)SM2	59.37	234.23	194.31	66.03	75.30	63.59	366.47	415.90	295.85	503.24	636.75	326.08	123.96	81.55	3,442.63
12)PLM	49.53	181.45	138.67	61.42	81.47	51.22	173.57	175.76	163.12	253.59	313.26	201.50	70.43	47.93	1,962.90
13)KED	23.82	83.02	61.88	31.85	45.98	23.32	68.69	64.21	74.11	97.01	115.60	75.56	38.16	20.43	823.43
14)MER	13.07	47.17	34.46	16.79	24.85	13.18	41.36	41.88	43.56	65.86	79.74	51.70	20.54	15.26	509.42
15)TGA	15.69	50.58	33.37	24.86	45.05	14.35	24.29	20.04	12.91	7.86	8.11	9.04	8.69	2.77	277.61
16)JIAC	6.77	21.82	10.73	10.73	19.44	6.19	10.48	8.65	5.57	3.39	3.50	3.90	3.75	1.19	116.11
17)CPP	54.70	226.63	158.61	53.63	41.74	73.95	225.41	253.02	106.15	167.68	192.75	85.81	28.36	16.45	1,684.89
18)RMG	46.03	177.27	128.23	50.63	51.26	59.61	160.82	199.50	84.84	157.11	191.19	83.72	28.51	18.12	1,436.83
19)KGD	29.56	112.17	74.52	32.68	31.01	40.45	90.25	99.40	51.19	76.27	90.07	43.48	16.45	9.55	797.04
20)KGP	1.60	6.08	4.23	1.78	1.76	2.17	4.98	5.64	2.71	4.13	4.81	2.24	0.87	0.47	43.46
21)PGG	22.77	87.72	61.27	24.93	24.61	30.24	72.58	88.79	39.24	68.43	83.28	36.74	12.70	7.95	661.25
22)TPR	36.83	133.32	88.40	44.15	47.23	47.75	97.94	102.71	58.11	79.01	93.02	48.70	20.34	11.31	908.80
23)CIL	15.16	55.22	37.28	18.01	19.39	19.60	39.25	42.63	21.67	31.66	37.73	18.83	7.49	4.29	368.23
24)KB	31.79	134.78	122.10	33.16	40.32	29.01	199.99	236.47	58.86	316.22	440.43	180.28	19.06	30.46	1,872.94
25)KBB	19.24	77.76	35.40	21.75	30.05	17.01	110.31	119.80	33.83	130.64	176.58	124.03	12.72	26.64	935.76
26)CPE	16.75	67.95	52.30	18.85	27.09	16.84	104.10	128.76	75.89	185.04	250.10	117.76	32.51	30.59	1,124.52
27)CNR	2.46	9.56	8.77	2.51	4.16	2.40	16.37	19.84	11.93	28.80	39.72	19.27	5.76	5.21	176.77
28)KAL	15.39	66.31	60.07	15.37	16.05	17.44	116.98	158.30	56.26	167.86	233.80	78.98	19.11	16.66	1,038.57
29)BGK	3.25	13.51	12.38	3.24	4.16	3.43	24.16	29.89	12.92	38.09	53.70	19.03	5.19	4.21	227.17
30)CPA	3.97	15.45	11.12	4.71	6.80	3.85	29.41	34.05	18.73	40.18	53.83	28.69	8.96	8.02	267.78
31)PSM	10.61	43.19	33.37	11.70	14.67	11.67	31.41	44.51	22.47	68.19	98.46	36.36	8.40	10.21	445.21
32)JAG	1.92	8.50	6.76	2.04	2.72	2.08	12.99	17.23	8.65	22.40	30.89	13.03	3.49	3.22	135.94
33)SER	2.69	9.86	8.84	3.29	6.60	2.41	20.49	22.80	13.57	26.61	35.32	21.35	7.49	6.71	188.04
34)SRU	2.16	7.30	6.10	2.86	7.08	1.80	12.00	11.94	8.44	16.07	17.38	8.54	5.89	4.78	110.36
35)SRB	1.60	5.51	4.70	2.09	4.79	1.36	11.20	11.69	7.88	13.26	17.14	11.97	4.81	4.01	101.99
36)CDG	2.32	7.84	6.49	3.13	6.95	1.91	11.27	11.03	9.74	13.21	16.61	13.39	5.78	3.81	113.48
37)SNG	1.11	4.14	3.83	1.29	2.21	1.07	9.97	11.73	5.72	12.71	17.18	9.08	2.96	2.58	85.58
38)JT	34.05	143.50	110.33	33.06	28.09	44.10	151.41	230.56	43.90	132.57	166.74	45.66	10.03	7.72	1,181.72
39)CW	5.92	26.25	21.30	5.56	4.93	7.33	35.66	55.74	17.92	57.36	79.25	23.98	5.44	4.74	351.39
40)PSR	5.93	56.61	19.48	5.72	5.92	7.06	34.32	52.16	18.50	80.55	87.72	28.08	6.20	5.95	414.18
41)KLD	23.81	100.35	75.17	22.88	18.32	33.41	93.81	139.18	22.92	65.59	83.99	23.00	5.15	3.75	711.34
42)TB	17.69	78.43	66.18	16.41	13.44	21.34	136.30	191.98	69.88	172.78	218.18	77.64	21.48	15.63	1,117.35
43)GAN	2.34	10.39	6.25	2.35	1.61	2.79	13.17	20.01	7.30	24.36	35.10	11.55	2.55	2.55	142.33
44)PDG	2.10	9.07	7.96	1.80	1.58	2.88	12.06	18.07	5.20	16.40	21.72	6.04	1.58	1.11	107.57
45)BEK	1.18	5.09	3.82	1.12	0.93	1.78	3.03	4.49	0.36	1.12	1.38	0.33	0.09	0.05	24.79
46)BKB	5.37	22.87	17.13	5.06	4.09	8.08	15.34	22.46	2.22	6.24	7.70	1.89	0.48	0.28	119.21
47)BGG	1.34	5.69	4.48	1.26	1.16	1.91	3.62	5.51	0.42	1.55	2.09	0.48	0.11	0.08	29.68
48)CL	0.64	2.76	2.28	0.62	0.67	0.85	1.48	2.25	0.15	0.62	0.89	0.22	0.05	0.04	13.51
49)TAN	57.52	186.70	137.78	84.97	186.00	50.79	66.10	57.61	18.88	15.88	19.62	23.94	16.65	10.50	932.93
50)JUG	5.88	19.34	14.37	8.56	18.74	5.26	6.67	5.32	1.21	1.16	1.43	1.75	1.13	0.82	91.65
51)CPO	4.99	17.99	12.64	6.87	14.73	4.47	8.88	8.83	3.54	3.38	4.17	5.38	3.30	2.40	101.58
52)DEP	1.71	7.02	6.52	1.80	2.68	1.84	10.88	15.79	8.77	22.47	30.68	13.47	4.03	3.46	131.12
53)SKJ	1.87	7.85	7.05	1.91	2.60	2.10	12.48	19.04	9.57	25.01	34.49	13.98	4.06	3.42	145.43
54)CIB	0.49	2.00	1.79	0.49	0.66	0.53	3.39	5.33	2.60	6.79	9.36	41.41	1.13	0.95	76.92
TOTAL	1542.81	5792.18	4285.10	1867.54	2518.98	1676.16	5068.59	5054.48	2951.39	5086.18	6099.61	3004.27	1015.88	669.39	46,632.55
FROM / / TO	1) KT1	2) KT2	3) KT3	4) PLT	5) CKG	6) ANC	7) GB1	8) GB2	9) SLP	10) SM1	11) SM2	12) PLM	13) KED	14) MER	TOTAL

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FROM \ TO	15) TGA	16) JIAC	17) CPP	18) RMG	19) KGD	20) KGP	21) PGG	22) TPR	23) CIL	24) KB	25) KBB	26) CPE	27) CNR	28) KAL	TOTAL
1)KT1	5.17	3.75	68.47	46.98	28.19	1.47	20.51	30.19	10.51	31.46	15.09	15.89	1.77	20.41	1,195.17
2)KT2	3.93	26.01	254.11	115.14	80.68	3.85	41.99	78.57	18.71	96.28	41.61	33.61	2.19	54.07	4,271.04
3)KT3	1.99	16.94	160.58	78.43	42.59	2.33	25.75	35.70	9.30	79.71	17.31	24.48	2.06	48.49	3,066.41
4)PLT	2.67	10.88	63.74	31.35	22.37	1.10	11.70	26.45	6.38	31.07	15.31	11.45	0.74	14.75	1,536.60
5)CKG	26.90	16.77	89.74	51.43	30.26	1.65	19.33	32.24	9.05	54.73	30.40	24.14	1.91	20.75	2,125.30
6)ANC	1.08	5.63	108.37	71.09	47.96	2.43	31.01	52.92	16.86	38.90	18.14	18.97	1.91	27.83	1,396.84
7)GB1	16.07	6.89	236.26	166.22	88.03	4.72	69.73	83.61	30.76	169.27	80.68	101.39	13.79	127.55	3,935.91
8)GB2	12.97	3.41	241.13	176.92	82.36	4.50	69.48	70.15	25.52	213.34	102.30	147.00	22.68	180.17	4,166.30
9)SLP	1.89	9.81	165.11	117.44	65.06	3.43	51.59	65.82	24.26	139.79	69.91	87.94	12.79	97.53	2,780.86
10)SM1	2.11	1.95	211.30	149.25	64.52	3.33	54.13	52.20	17.59	301.36	131.81	162.69	19.20	201.00	4,239.10
11)SM2	27.85	4.47	235.68	184.17	86.94	4.56	76.11	79.34	30.22	301.58	152.64	238.78	65.45	254.94	5,165.36
12)PLM	13.43	5.08	123.36	90.33	45.51	2.33	37.52	43.44	15.90	173.93	89.63	140.43	27.67	146.45	2,917.92
13)KE9	7.28	2.88	50.31	35.40	19.13	0.99	14.85	19.48	6.85	76.61	39.46	61.98	12.26	64.51	1,235.42
14)MER	3.96	1.51	30.81	22.56	11.48	0.57	9.37	11.12	4.01	49.35	25.53	40.10	7.92	41.47	769.19
15)TGA	9.42	4.04	15.89	8.84	5.69	0.27	3.42	6.57	2.19	7.04	3.63	2.92	0.21	2.75	350.49
16)JIAC	4.07	1.74	6.86	3.81	2.45	0.08	1.48	2.83	0.94	3.04	1.56	1.26	0.08	1.19	147.50
17)CPP	3.93	2.77	255.31	130.82	116.19	6.35	102.22	123.81	52.91	116.63	54.11	69.52	8.72	99.49	2,827.68
18)RMG	4.79	3.45	72.01	168.21	26.83	2.61	38.92	10.01	4.07	102.76	48.40	71.09	10.50	98.73	2,099.20
19)KGD	3.16	2.18	40.82	28.72	53.09	1.72	14.07	19.31	6.27	52.18	25.20	34.51	5.41	46.05	1,129.70
20)KGP	0.16	0.09	2.04	2.89	1.78	0.16	0.93	0.99	0.33	2.84	1.06	1.79	0.28	2.69	61.51
21)PGG	2.22	1.68	23.06	44.11	14.90	0.95	43.51	5.99	3.37	48.13	23.24	33.63	4.99	47.17	958.18
22)TPR	4.61	3.41	121.75	102.03	55.41	3.03	48.75	59.04	25.23	40.02	18.96	24.56	3.22	33.60	1,452.41
23)CIL	1.85	1.47	56.69	47.51	25.80	1.41	22.70	27.49	11.75	15.94	6.95	10.14	1.36	14.56	613.84
24)KB	0.48	1.88	184.72	131.92	56.69	2.76	47.16	44.04	14.51	438.95	83.22	21.03	0.25	19.87	2,918.41
25)KBB	0.33	1.29	109.38	75.81	33.04	0.99	28.49	26.34	7.55	111.10	155.63	17.67	0.54	7.89	1,511.79
26)CPE	3.94	1.38	84.86	68.33	27.82	1.32	26.30	22.77	8.29	171.83	90.70	200.34	29.82	144.25	2,006.45
27)CNR	0.61	0.19	15.01	12.58	5.64	0.27	4.88	3.90	1.47	37.50	22.19	45.06	12.52	30.92	369.50
28)KAL	1.98	0.85	67.46	61.49	19.69	1.16	21.76	13.46	4.98	187.93	95.79	155.18	29.72	172.45	1,872.48
29)BGK	0.00	0.14	12.04	9.50	4.16	0.19	3.40	2.37	0.79	42.61	29.95	34.90	6.76	36.93	401.91
30)CPA	1.26	0.42	14.63	11.83	3.81	0.21	4.47	2.91	1.06	49.77	25.65	53.19	13.08	41.78	491.84
31)PSM	1.22	0.81	55.52	47.95	20.24	1.05	19.72	17.27	6.79	75.21	37.39	73.68	11.37	77.42	890.83
32)JAG	0.36	0.11	12.45	11.12	4.21	0.22	4.46	3.34	1.18	23.93	12.33	26.59	5.78	24.78	266.80
33)SER	1.02	0.42	9.18	6.84	3.16	0.15	2.59	2.27	0.79	44.17	31.19	47.21	11.15	32.89	381.06
34)SRU	1.07	0.50	5.22	3.40	1.67	0.09	0.50	0.56	0.16	39.38	21.59	32.94	6.61	32.34	256.35
35)SRB	0.80	0.35	4.57	3.26	1.53	0.08	1.18	1.20	0.40	24.80	18.16	13.91	2.79	17.39	192.40
36)CDG	1.22	0.41	5.26	3.30	1.69	0.09	1.23	1.45	0.46	14.86	9.69	11.53	2.01	9.67	176.32
37)SWG	0.35	0.11	4.59	3.86	1.70	0.08	1.45	1.10	0.40	23.02	14.42	0.05	6.79	18.66	162.15
38)JT	0.79	1.71	207.59	190.36	82.13	2.33	79.86	71.65	29.42	123.85	54.82	80.05	10.15	130.85	2,247.27
39)CW	0.66	0.35	45.55	44.89	15.82	0.86	17.75	11.76	4.76	28.28	11.81	18.71	2.09	56.67	611.36
40)PSR	0.38	0.16	51.64	50.89	17.94	0.91	20.68	13.34	5.50	34.77	15.42	39.46	5.04	66.61	756.93
41)KL9	0.60	1.39	167.81	169.22	72.28	4.05	76.52	62.12	27.08	84.38	37.35	57.68	7.26	98.14	1,577.22
42)TB	2.54	0.75	112.44	94.99	37.76	2.05	35.99	30.41	11.53	148.11	74.97	118.45	22.66	129.93	1,939.91
43)GAN	0.12	0.06	22.61	22.68	7.93	0.34	9.30	5.89	2.45	14.17	6.47	19.25	3.17	25.56	282.32
44)PDG	0.13	0.05	21.81	24.38	10.67	0.48	10.84	6.33	2.83	7.61	2.09	5.43	0.77	15.49	216.48
45)BEK	0.01	0.03	16.24	16.54	8.63	0.44	8.65	7.20	3.50	5.59	3.81	3.91	0.65	7.33	107.30
46)BKB	0.04	0.15	42.90	62.31	32.51	1.62	32.54	26.98	13.00	21.90	6.60	14.50	2.34	28.26	404.86
47)BGG	0.01	0.04	19.73	19.80	9.92	0.50	9.94	8.07	3.72	7.93	2.65	6.31	1.13	10.82	130.26
48)CL	0.00	0.03	13.31	13.09	6.30	0.32	6.16	4.92	2.21	5.96	2.46	6.23	1.37	7.69	83.56
49)TAN	6.71	17.90	42.76	25.00	13.18	0.74	9.21	13.76	4.06	22.11	19.56	13.98	1.84	8.14	1,131.89
50)JUG	0.39	1.80	4.03	2.60	1.24	0.07	0.86	1.22	0.36	1.97	2.06	1.38	0.21	0.73	110.37
51)CPD	0.59	1.03	4.91	2.93	1.51	0.06	1.06	1.42	0.43	3.97	3.40	2.33	0.30	1.46	126.98
52)DEP	0.42	0.12	13.66	11.92	5.38	0.26	4.93	3.64	1.40	34.33	19.48	40.76	10.79	31.53	309.72
53)SKJ	0.41	0.11	18.03	16.76	7.51	0.36	7.05	4.87	2.00	41.65	21.47	47.13	11.96	42.11	366.85
54)CIB	0.11	0.03	5.57	5.27	2.38	0.11	2.27	1.51	0.63	14.67	7.93	16.90	4.47	14.83	153.59
TOTAL	190.01	171.40	4028.89	3098.26	1533.36	77.98	1310.22	1355.35	496.67	4032.28	1944.17	2583.98	432.50	2989.50	70,877.13
FROM / / TO	15) TGA	16) JIAC	17) CPP	18) RMG	19) KGD	20) KGP	21) PGG	22) TPR	23) CIL	24) KB	25) KBB	26) CPE	27) CNR	28) KAL	TOTAL

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\ TO / FROM	29) BGK	30) CPA	31) PSM	32) JAG	33) SER	34) SRU	35) SRB	36) CDG	37) SWG	38) JT	39) CW	40) PSR	41) KLD	42) TB	TOTAL
1)KT1	4.15	2.48	7.71	1.57	1.20	1.32	0.56	1.48	0.43	46.99	11.69	13.13	31.11	41.45	1,360.40
2)KT2	10.18	3.20	17.11	4.04	0.93	1.43	0.34	2.48	0.28	135.68	24.70	46.03	74.73	128.62	4,720.81
3)KT3	9.28	2.11	12.87	3.03	0.85	1.20	0.30	2.16	0.28	98.28	18.50	13.69	52.19	100.48	3,381.61
4)PLT	2.93	1.29	5.15	0.80	0.46	0.85	0.21	1.42	0.13	46.13	9.86	9.28	26.92	43.99	1,686.02
5)CKG	5.31	2.77	8.81	1.52	1.62	4.08	0.90	5.81	0.36	64.94	16.54	18.22	36.56	66.29	2,359.03
6)ANC	5.30	2.64	9.87	1.92	1.11	1.22	0.47	1.44	0.42	53.63	10.75	9.98	35.08	45.27	1,575.95
7)GB1	25.76	18.73	51.00	11.75	10.05	7.96	4.37	7.33	4.34	185.03	47.42	53.27	119.59	167.18	4,649.69
8)GB2	35.60	30.49	74.83	19.01	18.42	12.68	8.22	10.23	8.48	223.61	55.39	58.96	138.72	204.68	5,065.62
9)SLP	20.85	17.92	41.82	10.15	10.94	8.39	5.15	7.87	4.49	142.76	40.11	49.81	96.61	128.21	3,365.94
10)SM1	43.02	25.61	80.21	16.95	12.17	9.22	4.72	9.09	5.07	239.69	78.88	104.20	170.19	261.87	5,299.97
11)SM2	53.86	61.78	116.43	33.92	46.87	29.38	23.32	19.74	22.19	259.84	79.73	100.99	174.45	239.99	6,427.84
12)PLM	30.96	37.87	67.79	20.26	29.93	18.39	15.31	12.34	14.18	115.20	34.64	43.19	74.98	108.55	3,541.33
13)KED	13.70	16.79	29.86	8.93	13.36	8.52	6.88	5.57	6.30	43.37	12.46	15.47	28.37	40.46	1,485.47
14)MER	8.78	10.86	19.26	5.77	8.64	5.48	4.43	3.54	4.07	29.06	8.86	11.40	18.73	27.38	935.47
15)TGA	0.00	0.43	1.12	0.15	0.18	0.51	0.12	1.02	0.04	10.62	3.14	2.08	7.45	10.52	387.85
16)JIAC	0.18	0.19	0.48	0.05	0.11	0.33	0.08	0.36	0.02	4.58	1.36	0.71	3.21	4.54	163.71
17)CPP	18.48	11.67	36.94	8.29	5.68	4.44	2.28	4.38	2.50	190.39	47.78	54.76	132.90	156.74	3,504.91
18)RMG	17.90	13.85	38.69	9.63	7.46	5.05	3.14	4.31	3.59	188.90	57.27	78.96	143.80	155.36	2,827.11
19)KGD	9.51	6.02	18.23	4.47	3.96	2.78	1.69	2.42	1.86	105.82	32.03	44.16	80.42	87.52	1,530.58
20)KGP	0.50	0.34	0.99	0.25	0.21	0.15	0.09	0.13	0.10	5.40	1.82	2.49	4.58	4.96	83.52
21)PGG	8.60	6.58	18.49	4.67	3.55	2.38	1.46	2.03	1.71	100.17	30.49	42.14	77.17	82.19	1,339.79
22)TPR	6.31	3.81	12.88	3.02	2.31	1.88	1.00	1.73	1.01	64.62	16.06	18.40	48.38	51.89	1,685.71
23)CIL	2.59	1.59	5.51	1.22	0.94	0.72	0.39	0.66	0.42	28.91	7.25	8.40	22.98	22.41	717.84
24)KB	13.22	0.22	7.56	0.26	0.01	0.01	0.00	0.09	0.00	87.83	28.16	26.43	35.20	118.62	3,236.02
25)KBB	0.87	0.15	3.65	0.18	0.13	0.16	0.01	0.67	0.01	41.32	14.64	14.89	16.56	56.94	1,662.16
26)CPE	33.24	36.13	78.79	20.96	20.22	10.72	3.77	8.10	0.00	103.50	37.27	60.01	64.40	101.50	2,585.66
27)CNR	7.66	13.94	18.37	6.88	7.31	3.05	2.45	2.09	3.94	19.83	8.31	14.39	12.24	19.14	509.10
28)KAL	35.11	40.31	77.43	22.65	30.04	18.38	14.73	12.23	14.48	150.22	57.21	70.74	101.26	135.73	2,653.01
29)BGK	8.05	9.01	17.21	5.08	6.88	4.21	3.38	2.79	3.31	28.82	10.46	13.33	18.18	27.32	559.93
30)CPA	9.21	21.18	22.78	7.57	11.95	4.93	4.24	3.13	5.89	32.18	12.40	20.21	21.63	30.14	699.09
31)PSM	16.60	14.11	44.10	10.16	7.05	2.73	2.53	2.96	3.58	67.85	26.47	39.42	45.73	62.04	1,236.16
32)JAG	5.61	6.47	13.78	5.58	3.43	1.55	1.17	1.15	1.91	16.98	7.53	14.23	11.54	15.50	373.23
33)SER	8.17	17.81	18.38	6.42	20.81	6.86	7.11	3.78	6.61	24.39	9.07	14.51	15.58	23.12	563.69
34)SRU	7.03	9.21	14.52	4.67	7.69	5.36	4.13	3.20	3.44	18.84	3.64	6.61	6.72	10.59	353.98
35)SRB	4.34	8.43	9.34	3.12	9.47	5.69	7.42	2.70	3.09	12.68	4.44	6.65	7.86	12.16	289.79
36)CDG	2.38	2.86	4.67	1.35	2.32	2.25	1.24	1.95	0.83	8.62	2.71	3.47	5.34	8.42	224.75
37)SWG	4.52	10.25	10.80	4.07	7.72	2.67	2.70	1.59	5.62	13.70	5.51	9.65	9.02	12.76	262.73
38)JT	22.75	12.50	46.68	10.35	5.44	3.63	1.93	3.57	2.62	260.37	81.83	116.87	197.88	217.60	3,231.29
39)CW	7.39	2.28	17.04	3.17	0.52	0.29	0.12	0.36	0.31	105.46	33.14	47.34	80.15	88.13	997.05
40)PSR	9.36	5.34	31.89	9.03	1.17	0.89	0.22	0.46	0.86	177.66	55.84	79.74	135.02	148.47	1,392.88
41)KLD	15.62	9.23	35.01	8.14	3.80	2.43	1.29	2.40	1.90	229.16	72.02	102.86	174.16	191.51	2,426.75
42)TB	26.93	30.59	58.51	17.10	23.02	14.39	11.38	9.65	11.04	168.85	53.07	75.79	128.32	141.11	2,709.65
43)GAN	3.18	3.31	14.21	5.86	0.76	0.19	0.12	0.18	0.69	103.74	32.60	46.56	78.84	86.70	659.28
44)PDG	2.05	0.63	5.25	1.09	0.19	0.08	0.04	0.10	0.13	69.82	21.94	31.34	53.07	58.35	469.55
45)BEK	1.18	0.69	2.77	0.69	0.32	0.17	0.10	0.16	0.19	40.61	12.76	18.23	30.86	33.94	249.95
46)BKB	4.53	2.49	10.24	2.48	1.16	0.65	0.37	0.64	0.67	127.15	39.96	57.07	96.64	106.26	855.19
47)BGG	1.78	1.20	4.46	1.20	0.54	0.25	0.16	0.23	0.35	53.18	16.71	23.87	40.42	44.44	319.07
48)CL	1.46	1.52	4.03	1.34	0.72	0.25	0.20	0.20	0.56	54.60	17.16	24.51	41.50	45.63	277.25
49)TAN	2.53	2.96	3.89	0.98	3.40	13.65	3.84	8.28	0.57	33.86	9.53	11.04	18.32	35.62	1,280.36
50)JUG	0.24	0.37	0.65	0.10	0.52	1.94	0.71	0.80	0.08	3.32	0.99	1.18	1.76	3.53	126.58
51)CPD	0.45	0.44	0.71	0.17	0.40	1.31	0.29	1.38	0.07	4.05	1.19	1.33	2.21	4.39	145.37
52)DEP	7.44	13.88	19.19	7.49	7.72	2.76	2.47	1.80	5.33	18.79	8.60	17.19	12.66	17.42	452.47
53)SKJ	9.31	14.85	24.72	9.26	8.31	2.96	2.60	2.00	5.91	25.80	12.29	25.98	18.39	22.99	552.21
54)CIB	3.28	5.76	8.70	3.32	3.52	1.14	1.12	0.74	2.66	7.98	3.71	8.03	5.82	6.94	216.31
TOTAL	609.24	577.12	1305.61	352.05	377.48	243.92	167.25	186.93	168.90	4486.79	1347.71	1803.18	3086.23	4067.55	89,657.10
FROM / / TO	29) BGK	30) CPA	31) PSM	32) JAG	33) SER	34) SRU	35) SRB	36) CDG	37) SWG	38) JT	39) CW	40) PSR	41) KLD	42) TB	TOTAL

(Jakarta M.A. - 2004 - 4/4)

FROM \ TO	43) GAN	44) PDG	45) BEK	46) BKB	47) BGG	48) CL	49) TAN	50) JUG	51) CPD	52) DEP	53) SKJ	54) CIB	TOTAL	TO / FROM
1)KT1	5.36	4.21	1.58	6.69	1.86	1.06	28.01	2.57	3.07	1.00	0.98	0.22	1,417.00	1)KT1
2)KT2	6.47	5.89	1.42	7.93	1.46	0.46	243.48	24.53	23.78	0.91	0.76	0.11	5,038.00	2)KT2
3)KT3	3.51	4.73	0.99	5.56	1.64	0.37	158.55	15.97	15.49	0.83	0.67	0.10	3,590.00	3)KT3
4)PLT	3.37	2.59	0.71	3.61	0.77	0.31	101.81	10.26	9.94	0.32	0.25	0.04	1,820.00	4)PLT
5)CKG	4.94	4.54	1.14	5.43	1.40	0.70	80.17	5.73	10.66	0.70	0.49	0.07	2,475.00	5)CKG
6)ANC	3.62	3.46	1.15	5.64	1.21	0.47	41.63	3.83	4.58	1.12	1.11	0.23	1,644.00	6)ANC
7)GB1	21.75	17.07	5.94	25.09	7.33	4.30	39.34	3.39	5.62	8.64	9.36	2.48	4,800.00	7)GB1
8)GB2	23.36	18.61	6.05	26.31	7.51	4.10	13.70	0.97	2.96	17.39	20.24	6.19	5,213.00	8)GB2
9)SLP	21.77	15.21	6.16	24.17	7.71	5.45	85.07	8.27	8.75	8.99	9.75	2.76	3,570.00	9)SLP
10)SM1	38.42	26.41	5.43	23.75	7.16	4.24	5.76	0.33	1.66	12.00	12.05	2.81	5,440.00	10)SM1
11)SM2	44.32	29.74	11.22	43.13	14.90	11.00	24.45	1.83	4.25	40.01	49.24	18.08	6,720.00	11)SM2
12)PLM	18.63	11.71	4.08	16.28	5.38	3.88	34.90	2.92	4.96	24.85	30.89	13.21	3,713.00	12)PLM
13)KED	6.67	4.45	1.61	6.38	2.05	1.44	18.09	1.48	2.48	11.01	13.67	5.19	1,560.00	13)KED
14)MER	4.99	2.94	1.01	3.95	1.33	1.00	11.47	0.98	1.64	7.09	8.79	3.34	984.00	14)MER
15)TGA	0.65	0.63	0.17	0.84	0.19	0.10	14.70	1.04	1.69	0.08	0.05	0.01	408.00	15)TGA
16)JIAC	0.24	0.19	0.05	0.23	0.06	0.03	8.94	0.64	0.86	0.03	0.02	0.00	175.00	16)JIAC
17)CPP	22.81	19.16	7.91	22.58	9.44	5.57	9.64	0.67	1.74	6.01	6.85	1.70	3,619.00	17)CPP
18)RMG	37.69	27.01	14.25	49.66	18.07	15.13	19.09	1.58	2.65	8.07	9.87	2.82	3,033.00	18)RMG
19)KGD	21.06	15.40	8.23	28.68	10.37	8.62	10.93	0.90	1.50	4.18	5.09	1.46	1,647.00	19)KGD
20)KGP	1.17	0.86	0.46	1.61	0.59	0.48	0.63	0.05	0.09	0.22	0.26	0.07	90.00	20)KGP
21)PGG	20.13	14.53	7.83	27.27	9.86	8.17	9.08	0.74	1.25	3.99	4.93	1.43	1,449.00	21)PGG
22)TPR	7.70	6.87	3.45	13.97	3.80	2.03	21.29	1.86	2.47	2.36	2.76	0.73	1,755.00	22)TPR
23)CIL	3.53	3.28	1.83	7.33	1.91	0.99	8.87	0.78	1.04	1.02	1.25	0.34	750.00	23)CIL
24)KB	7.99	4.07	0.33	1.94	0.52	0.21	6.42	0.39	2.08	0.01	0.00	0.00	3,260.00	24)KB
25)KBB	4.69	1.21	0.45	0.35	0.12	0.08	7.86	0.58	2.47	0.02	0.00	0.00	1,680.00	25)KBB
26)CPE	26.65	11.52	2.69	10.76	4.26	3.67	8.77	0.68	1.85	19.60	19.28	5.21	2,700.00	26)CPE
27)CNR	7.32	2.92	0.69	2.62	1.18	1.20	1.96	0.20	0.40	7.84	10.54	3.02	549.00	27)CNR
28)KAL	29.24	19.27	5.77	22.83	8.13	5.54	3.56	0.25	0.86	26.50	32.94	12.10	2,820.00	28)KAL
29)BGK	5.25	3.55	1.06	4.13	1.49	1.14	1.08	0.08	0.26	5.98	7.36	2.70	594.00	29)BGK
30)CPA	10.12	4.20	1.22	4.61	1.95	2.05	3.54	0.33	0.64	9.86	9.48	2.91	750.00	30)CPA
31)PSM	17.30	9.35	2.72	10.44	4.09	3.34	4.60	0.51	0.89	8.63	9.46	2.51	1,310.00	31)PSM
32)JAG	7.36	2.54	0.60	2.34	1.03	1.01	0.95	0.08	0.20	4.57	4.81	1.30	400.00	32)JAG
33)SER	7.40	3.34	0.97	3.66	1.52	1.53	5.56	0.58	0.84	8.71	8.41	2.78	609.00	33)SER
34)SRU	2.14	1.22	0.36	1.44	0.52	0.45	7.88	0.79	1.05	2.31	2.20	0.67	375.00	34)SRU
35)SRB	3.19	1.59	0.45	1.76	0.69	0.70	6.25	0.75	0.72	4.02	3.81	1.27	315.00	35)SRB
36)CDG	1.45	0.91	0.28	1.14	0.39	0.29	4.37	0.44	0.86	1.38	1.34	0.40	238.00	36)CDG
37)SMG	5.35	2.19	0.65	2.36	1.07	1.33	1.50	0.15	0.25	6.60	6.54	2.27	293.00	37)SMG
38)JT	57.13	39.28	21.57	72.98	27.75	24.92	6.31	0.44	1.27	6.99	8.16	1.90	3,500.00	38)JT
39)CW	23.14	15.91	8.74	29.56	11.24	10.09	0.91	0.06	0.24	1.31	1.54	0.22	1,100.00	39)CW
40)PSR	38.98	26.80	14.72	49.80	18.93	17.00	1.17	0.08	0.30	4.14	5.40	0.80	1,571.00	40)PSR
41)KLD	50.28	34.57	18.99	64.23	24.42	21.93	3.96	0.27	0.80	5.45	6.74	1.61	2,660.00	41)KLD
42)TB	37.05	25.47	13.99	47.33	17.99	16.16	2.27	0.14	0.59	20.10	25.07	9.18	2,925.00	42)TB
43)GAN	22.76	15.65	8.60	29.08	11.06	9.93	0.47	0.03	0.12	3.85	6.19	0.99	768.00	43)GAN
44)PDG	15.32	10.53	5.79	19.57	7.44	6.68	0.29	0.02	0.07	0.63	0.94	0.16	528.00	44)PDG
45)BEK	8.91	6.13	3.36	11.38	4.33	3.89	0.20	0.01	0.04	0.61	0.93	0.26	290.00	45)BEK
46)BKB	27.98	19.18	10.54	35.64	13.55	12.17	0.87	0.06	0.17	2.03	2.92	0.77	981.00	46)BKB
47)BGG	11.67	8.02	4.41	14.91	5.67	5.09	0.28	0.02	0.06	1.45	1.85	0.52	373.00	47)BGG
48)CL	11.98	8.24	4.52	15.30	5.82	5.23	0.21	0.02	0.04	1.78	3.41	1.20	335.00	48)CL
49)TAN	4.08	2.59	0.57	2.64	0.77	0.51	305.82	21.86	17.67	0.67	0.39	0.07	1,638.00	49)TAN
50)JUG	0.46	0.26	0.06	0.26	0.08	0.06	30.81	4.37	1.94	0.08	0.05	0.01	165.00	50)JUG
51)CPD	0.49	0.32	0.07	0.32	0.10	0.06	10.55	0.82	1.74	0.11	0.06	0.01	160.00	51)CPD
52)DEP	10.77	3.49	0.88	3.13	1.60	2.18	1.26	0.11	0.26	14.75	13.26	3.85	508.00	52)DEP
53)SKJ	18.20	5.67	1.56	5.29	3.05	4.91	1.06	0.09	0.22	15.59	27.77	7.37	643.00	53)SKJ
54)CIB	5.86	1.87	0.57	1.86	1.13	2.56	0.31	0.03	0.06	6.00	9.78	5.66	252.00	54)CIB
TOTAL	802.61	531.34	229.85	829.68	297.87	245.81	1420.67	125.59	152.05	352.39	419.95	135.09	95,199.99	TOTAL
FROM / TO	43) GAN	44) PDG	45) BEK	46) BKB	47) BGG	48) CL	49) TAN	50) JUG	51) CPD	52) DEP	53) SKJ	54) CIB	TOTAL	\ FROM TO

(Bogor M.A. - 1994)

TO / FROM	(1) CSA	(2) CWI	(3) BOA	(4) BOB	(5) BOC	(6) BOD	(7) SPL	(8) CAA	TOTAL	TO / FROM
1)CSA	4.30	5.04	14.68	17.62	14.53	0.00	0.00	3.83	60.00	1)CSA
2)CWI	4.58	6.94	19.85	23.81	19.65	0.00	0.00	5.18	80.00	2)CWI
3)BOA	12.50	18.60	63.53	76.23	62.89	0.00	0.00	16.26	250.00	3)BOA
4)BOB	14.99	22.32	76.23	91.48	75.47	0.00	0.00	19.51	300.00	4)BOB
5)BOC	12.37	18.41	62.89	75.47	62.26	0.00	0.00	16.09	247.50	5)BOC
6)BOD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6)BOD
7)SPL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7)SPL
8)CAA	3.72	5.54	18.56	22.27	18.38	0.00	0.00	6.53	75.00	8)CAA
TOTAL	52.46	76.84	255.74	306.89	253.18	0.00	0.00	67.39	1,012.50	TOTAL
FROM / TO	(1) CSA	(2) CWI	(3) BOA	(4) BOB	(5) BOC	(6) BOD	(7) SPL	(8) CAA	TOTAL	FROM / TO

(Bogor M.A. - 1999)

TO / FROM	(1) CSA	(2) CWI	(3) BOA	(4) BOB	(5) BOC	(6) BOD	(7) SPL	(8) CAA	TOTAL	TO / FROM
1)CSA	6.48	7.54	14.35	17.22	40.91	0.00	0.00	5.99	92.50	1)CSA
2)CWI	6.85	10.32	19.27	23.12	54.91	0.00	0.00	8.04	122.50	2)CWI
3)BOA	12.21	18.04	40.25	48.30	114.72	0.00	0.00	16.48	250.00	3)BOA
4)BOB	14.65	21.65	48.30	57.96	137.66	0.00	0.00	19.78	300.00	4)BOB
5)BOC	34.79	51.42	114.72	137.66	326.94	0.00	0.00	46.97	712.50	5)BOC
6)BOD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6)BOD
7)SPL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7)SPL
8)CAA	5.81	8.60	18.81	22.58	53.62	0.00	0.00	10.59	120.00	8)CAA
TOTAL	80.78	117.58	255.70	306.84	728.75	0.00	0.00	107.84	1,597.50	TOTAL
FROM / TO	(1) CSA	(2) CWI	(3) BOA	(4) BOB	(5) BOC	(6) BOD	(7) SPL	(8) CAA	TOTAL	FROM / TO

(Bogor M.A. - 2004)

TO / FROM	(1) CSA	(2) CWI	(3) BOA	(4) BOB	(5) BOC	(6) BOD	(7) SPL	(8) CAA	TOTAL	TO / FROM
1)CSA	8.82	10.09	0.00	16.37	40.92	41.06	7.05	8.18	132.50	1)CSA
2)CWI	9.16	13.57	0.00	21.58	53.96	54.14	9.30	10.79	172.50	2)CWI
3)BOA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3)BOA
4)BOB	13.89	20.19	0.00	38.37	95.93	96.25	16.55	18.82	300.00	4)BOB
5)BOC	34.72	50.46	0.00	95.93	239.83	240.63	41.37	47.05	750.00	5)BOC
6)BOD	34.84	50.63	0.00	96.25	240.63	241.43	41.51	47.21	752.50	6)BOD
7)SPL	6.35	9.23	0.00	17.57	43.92	44.06	8.87	10.00	140.00	7)SPL
8)CAA	7.87	11.43	0.00	21.33	53.32	53.50	10.67	14.38	172.50	8)CAA
TOTAL	115.66	165.61	0.00	307.40	768.51	771.07	135.32	156.43	2,420.00	TOTAL
FROM / TO	(1) CSA	(2) CWI	(3) BOA	(4) BOB	(5) BOC	(6) BOD	(7) SPL	(8) CAA	TOTAL	FROM / TO

ANNEX 5-1

List of Switches in Jabotabek Area

ANNEX 5-1 List of Switches in Jabotabek Area (May,1988) (1/4)

(Source:BINPROSISTEL/BINPROSENTEL)

Switch Unit	Switching Function	Type of Switch	Type of CPU	Capacity (L.U.)	No. of Sub.	Waiting Lists	Service in	Paket 154k	Paket 170k	Remarks
## Kota Tandem Area ##										
KT1A	Local	EMD		10,000	9,994	6,117	1960			
KT1B	Local	EWSD/DE5.2	SSP103	9,844	501		1988			
KT2A	Local	PRX	Multi	9,728	9,451	18,982	1976			
KT2B	Local	PRX	Multi	9,728	9,512		1978			
KT2C	Local	PRX	Multi	12,288	6,801		1981			
KT2D	Local	PRX	Multi	11,520	6,848		1979			
KT2E	Combined L/T	EWSD/DE5.2	SSP103	6,000	4,941		1986		14,000	D.PH-II/Contracted
KT2F/KTTB	Combined L/T	PRX	Multi	3,328	1,216		1980			Combined in 1987
KTTA	Local Tandem	PRX	Mono				1978			
PLTA	Local	PRX	Multi	11,520	11,459	14,784	1977			
PLTB	Local	(EWSD/DE5.1)							5,000	D.PH-II/Contracted
CKG	Local	PRX	Multi	7,936	5,605	13,065	1979		2,048	PRX5/Contracted
ANC	Local	PRX	Mono	8,704	6,249	4,061	1977		1,536	PRX5/Contracted/Multi
## Gambir Tandem Area ##										
GB1A	Local	EMD		10,000	8,531	12,607	1962			
GB1B	Local	EMD		10,000	9,093		1965			
GB1C	Local	PRX	Multi	8,192	6,944		1977			
GB1D	Local	PRX	Multi	8,192	6,481		1978			
GB1E	Comb. L/T/Sub.	EWSD/DE5.2	SSP103	11,044	9,894		1985			
GBTA	Local Tandem	PRX	Mono							
GBTB	Local Tandem	PRX	Mono							
SUBT	Suburban Tandem	CIT-JANUS					1975			
JKTT	Trunk Tandem	MC-10C	Multi	(8,000‡2)			1978			
GB2A	Local	PRX	Multi	8,192	6,849	9,307	1977			
GB2B	Local	PRX	Multi	8,192	7,062		1980			
GB2C	Local	PRX	Multi	7,168	5,065		1982			
Subtotal				171,576	132,496	78,923		0	22,584	

ANNEX 5-1 List of Switches in Jabotabek Area (May,1988) (2/4)

(Source:BINPROSISTEL/BINPROSENTEL)

Switch Unit	Switching Function	Type of Switch	Type of CPU	Capacity (L.U.)	No. of Sub.	Waiting Lists	Service in	Paket 154k	Paket 170k	Remarks
** Slipi Tandem Area **										
SLPA	Local	EMD		7,500	7,372	9,836	1972			
SLPB	Combined L/T	EWSD/DE4	SSP103	6,500	5,614		1986			
SLPC	Local	(EWSD/DE5.2)	CP103					10,000		D.PH-IV/Under installation
SM1A	Local	EMD		7,000	6,740	2,205	1972			
SM1B	Local	EWSD/DE5.1	SSP103	4,743	37		1987	3,000		D.PH-IV/Under installation
SM1C	Local	PRX	Mono	3,072	2,661		1986			Container
SM2A	Local	PRX	Multi	8,448	7,900	6,830	1978			
SM2B	Local	EWSD/DE5.1	SSP103	9,740	2,038		1987	5,000		D.PH-IV/Under installation
SMT	Trunk Tandem	EWSD/DE5	CP103	(7,000)						D.PH-IV/Under installation
MTX	Mobile Tel.	AXE		(10,000)						
PLMA	Local	PRX	Mono	7,680	6,644	15,172	1978			
PLMB	Local	PRX	Mono	5,376	2,763		1986			
PLMC	Local	EWSD/DE5.1	SSP103	3,905	0		1987			
KED	Local	(RLC/SLPC)						1,000		D.PH-IV/Contracted
									1,000	D.PH-IIIC/Under negotiation
MER	Local	(RLC/PLMC)						1,000		D.PH-IV/Contracted
									1,000	D.PH-IIIC/Under negotiation
TGA	Local	(RLC/JIA)						1,000		D.PH-IV/Contracted
JIA	Local	EWSD/DE4		1,780	1,675	0	1984			
** Cempaka Putih Tandem Area **										
CPPA	Local	PRX	Multi	10,240	9,446	5,075	1977			
CPPB	Combined L/T	EWSD/DE5.2	SSP103	12,924	4,409		1986			
CPT	Local Tandem	PRX	Mono							
RMGA	Local	PRX	Multi	12,288	11,173	5,572	1978			
RMGB	Local	RLC/CPPB		4,000	3,239		1987	4,000		D.PH-IV/Under installation/DE5.2
KGD	Local				0	6,672		3,000		D.PH-IV/Contracted
KGP	Local	EWSD/DE4	SSP112	2,979	2,277	0	1987			User's credit
PGG	Local								1,000	D.PH-IIIC/Under negotiation
TPRA	Local	PRX	Multi	9,216	7,857	4,391	1977			
TPRB	Local	(EWSD/DE5.1)							5,000	D.PH-IIIP/Under negotiation
CIL	Local	(RLC/CPPB)							1,000	D.PH-IV/Contracted
Subtotal				117,391	81,845	55,753		28,000	9,000	

ANNEX 5-1 List of Switches in Jabotabek Area (May,1988) (3/4)

(Source:BINPROSISTEL/BINPROSENTEL)

Switch Unit	Switching Function	Type of Switch	Type of CPU	Capacity (L.U.)	No. of Sub.	Waiting Lists	Service in	Paket 154k	Paket 170k	Remarks
** Kebayoran Tandem Area **										
KB1A	Local	EMD		4,000	3,812	8,080	1961			
KB1B	Local	PRX	Multi	8,192	7,830		1977			
KB2A	Local	PRX	Multi	9,216	8,316		1981			
KB2B	Combined L/T	EWSD/DE5.1	SSP103	5,000	3,098		1986	3,000		D.PH-IV/Under installation
KBT	Local Tandem	PRX	Mono				1979			
KBB	Local		(Mono)						5,120	PRX5/Contracted/Container
CPEA	Local	PRX	Mono	8,448	8,398	9,123	1978			
CPEB	Local	EWSD/DE5.1	SSP103	7,300	2,493		1987			
KL1	Local	PRX	Multi	13,824	9,685	4,684	1978			
CPAA	Local	EMD		2,000	1,960	3,570	1978			
CPAB	Local	PRX	Mono	1,536	885		1986		1,536	PRX5/Contracted/Container
PSMA	Local	EMD		3,000	2,800	3,384	1978			
PSMB	Local	PRX	Mono	3,840	685		1987		4,352	PRX5/Contracted/Multi
JAG	Local	RLC/KB2B		240	107	0	1987			
SER	Local		(Mono)						1,024	PRX5/Contracted/Container
** Jatinegara Tandem Area **										
JT1A	Local	EMD		2,000	1,890	2,985	1968			
JT1B	Local	RLC/JT2B		2,496	2,160		1987			
JT2A	Local	PRX	Multi	10,240	9,338	4,954	1978			
JT2B	Combined L/T	EWSD/DE5.2	SSP103	8,528	316		1986			
JTT	Local Tandem	PRX	Mono				1977			
CW	Local	PRX	Mono	6,144	4,073	3,589	1978		3,072	PRX5/Contracted/Multi
PSR	Local	EWSD/DE4	SSP112	3,905	1,804	1,340	1986			
KLD	Local	RLC/JT2B		3,260	2,340	9,171	1987	3,000		D.PH-IV/Contracted/DE4
TBA	Local	PRX	Multi	13,056	10,723	4,406	1978			
TBB	Local	(EWSD/DE5.1)							5,000	D.PH-III/Under negotiation
GANA	Local	N230		1,000	952	1,471	1975			
GANB	Local	(EWSD/DE5.1)							2,000	D.PH-III/Under negotiation
Subtotal				117,225	83,665	56,757		6,000	22,104	
Total				406,192	298,006	191,433		34,000	53,688	

ANNEX 5-1 List of Switches in Jabotabek Area (May,1988) (4/4)

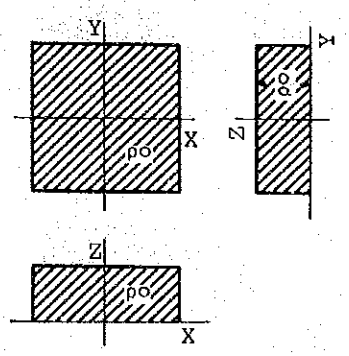
(Source:BINPROSISTEL/BINPROSENTEL)

Switch Unit	Switching Function	Type of Switch	Type of CPU	Capacity (L.U.)	No. of Sub.	Waiting Lists	Service in	Paket 154k	Paket 170k	Remarks
** Jakarta Suburban Area **										
TAN	Local	EMD		4,000	2,927	7,184	1978			REALOKASI(+1000):Completed
BEK	Local	EMD		2,000	1,877	6,379	1978			REALOKASI(+1000):On-going
CIB	Local	PRX	Mono	1,536	1,318	779	1986		1,024	PRX5/Contracted/Container
DEP	Local	EWSD/DE4	SSP112	1,956	1,772	2,451	1986			
Total				9,492	7,894	16,793		0	1,024	
** Bogor Area **										
BOOA	Local	MC-10C		8,000	7,950	6,407	1978	2,000		MC-10C/Contracted
BOOB	Local	EWSD/DE4	SSP112	4,000	0		1988			
BOOT	Trunk Tandem	EWSD/DE4	SSP112	(1,020)						
CSA	Local	N230		1,000	913	506	1980			Manufactured in 1976
CAA	Manual	ABK		70	56	0	1926			
LWL	Manual	ABK		60	45	4	1960			
JSG	Manual	ABK		50	33	0	1938			
Total				13,180	8,997	6,917		2,000	0	

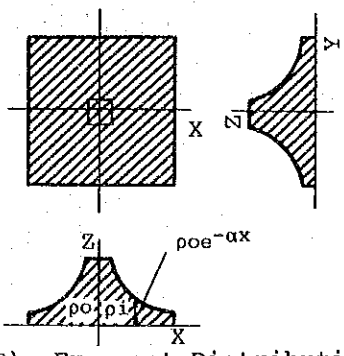
ANNEX 5-2

Subscriber Distribution Model and Subscriber Cable Length

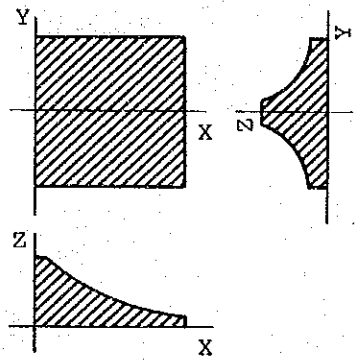
ANNEX 5-2 Subscriber Distribution Model and Subscriber Cable Length



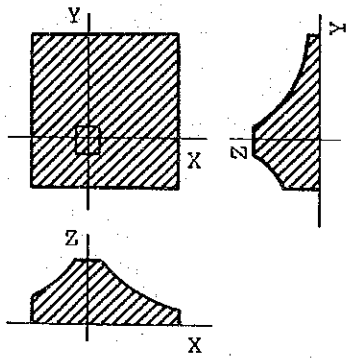
(A) Uniform Distribution



(B) Exponent Distribution

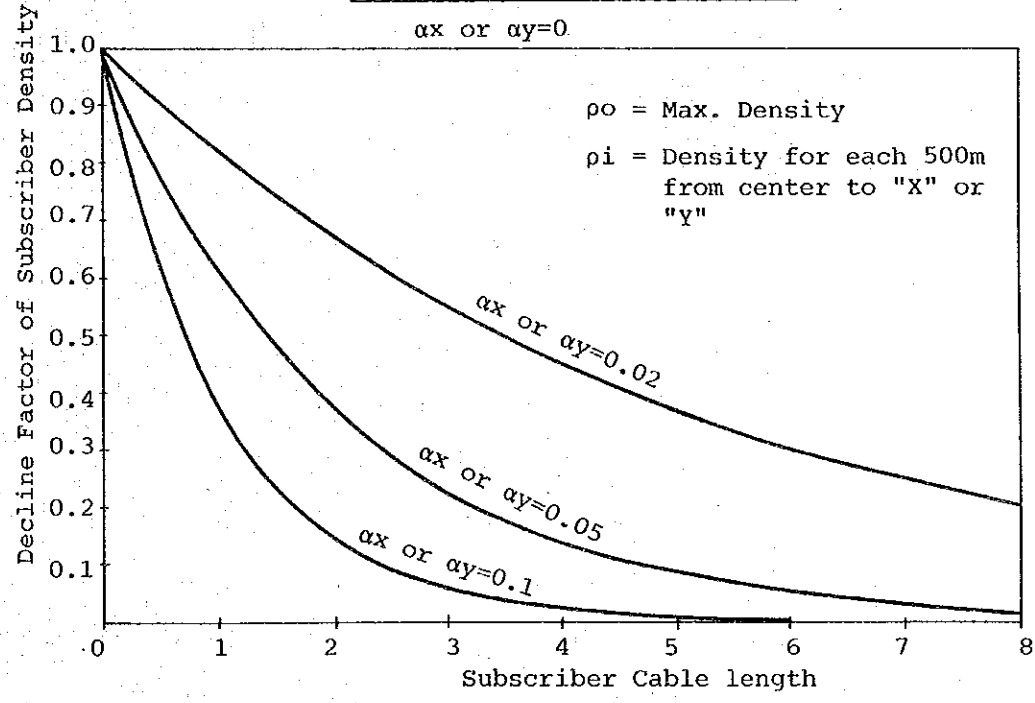


(C) Semi-Exponent Distribution



(D) Unbalanced Exponent Distribution

Subscriber Distribution Model

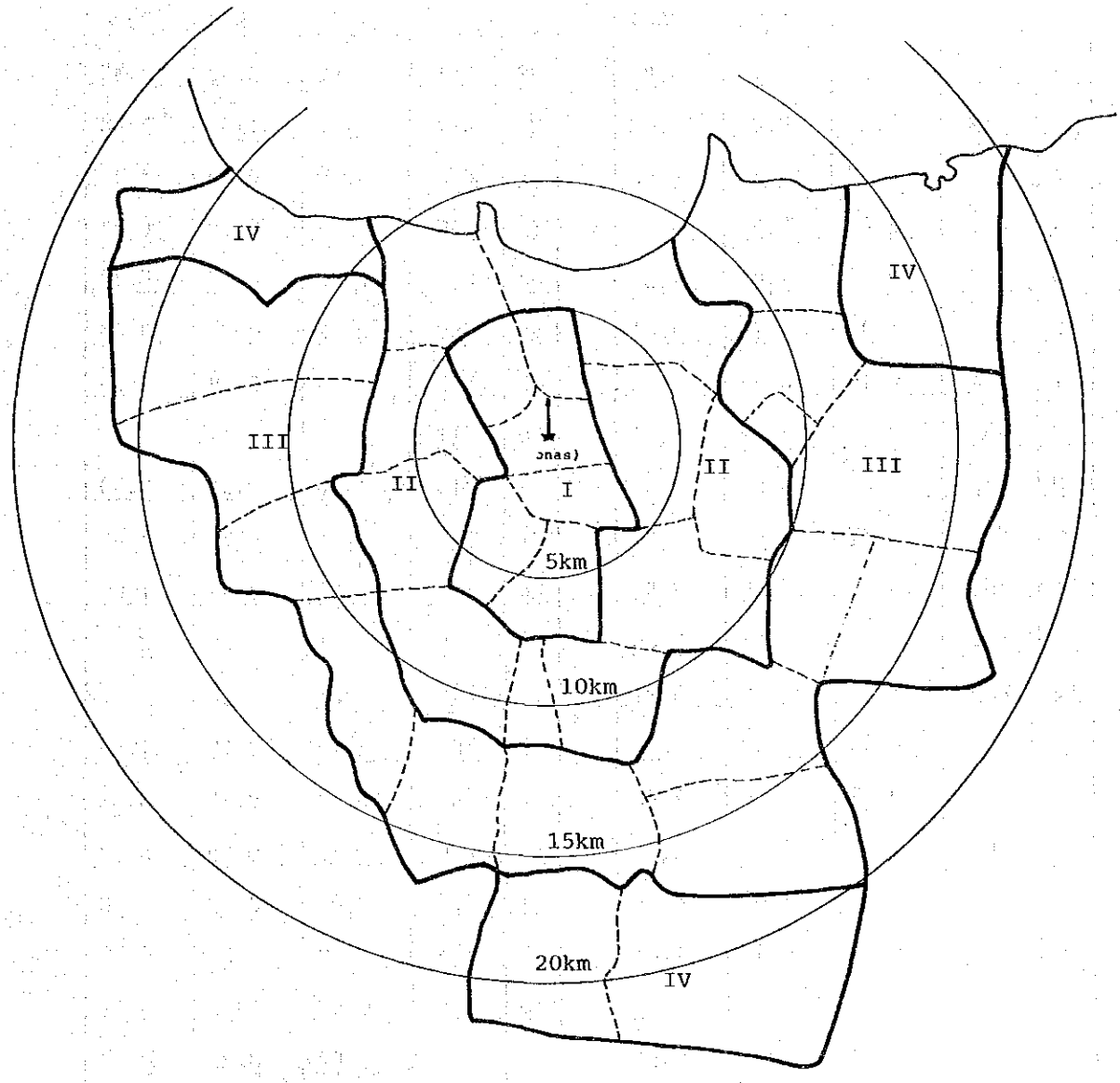


Correlation Between Subscriber Cable Length and Subscriber Density

ANNEX 5-3

Demand Density in Jakarta Multi-Exchange Area

ANNEX 5-3 Demand Density in Jakarta Multi-Exchange Area (1/2)



Area Classification

I.	High Density Area	20 k - 25 k Sub/km² within around 5 km radius
II.	Middle Density Area	about 10 k Sub/km² within around 10 km radius
III.	Semi-Middle Density Area	about 5 k Sub/km² within around 15 km radius
IV.	Low Density Area	about 1 k Sub/km² within around 20 km radius

ANNEX 5-3 Demand Density in Jakarta Multi-Exchange Area (2/2)

No.	Ex. Name	Demand Density (1,000/km²)		
		1994	1999	2004
1	KT1	2.67	3.15	3.63
2	KT2	6.64	8.64	11.07
3	KT3	6.86	7.86	8.98
4	PLT	2.49	3.05	3.47
5	CKG	0.74	1.08	1.53
6	ANC	1.04	1.74	2.61
7	TGA	0.16	0.22	0.30
8	GB1	6.76	7.19	7.50
9	GB2	3.47	4.93	6.68
10	SLP	1.87	2.64	3.61
11	SM1	3.81	5.89	8.00
12	SM2	5.53	8.88	12.00
13	PLM	1.96	2.89	3.97
14	KED	0.55	1.00	1.56
15	MER	0.43	0.90	1.48
16	CPP	2.18	3.18	4.39
17	RMG	2.51	3.60	4.49
18	KGD	0.99	1.45	1.83
19	KGP			
20	PGG	0.20	0.43	0.84
21	TPR	0.90	1.38	1.95
22	CIL	0.18	0.35	0.63
23	KB	1.98	2.48	3.10
24	KBB	1.18	2.17	3.50
25	CDG	0.06	0.12	0.20
26	CPE	1.14	1.61	2.16
27	CNE	1.14	1.70	1.83
28	CPA	0.17	0.31	0.48

No.	Ex. Name	Demand Density (1,000/km²)		
		1994	1999	2004
29	KL1	1.46	2.32	3.32
30	KL2	1.10	1.69	2.48
31	PSM	0.60	0.92	1.31
32	JAG	0.09	0.19	0.34
33	SER	0.08	0.18	0.32
34	SRU	0.12	0.25	0.43
35	SRB	0.04	0.09	0.15
36	JT1			
	JT2	1.85	2.59	3.50
37	CW	0.45	0.70	1.02
38	PSR	0.31	0.59	1.00
39	KLD	0.81	1.69	2.72
40	PDK	0.51	1.03	1.62
41	TB	2.12	3.15	4.50
42	GAN	0.13	0.23	0.38
43	PDG	0.11	0.20	0.33
44	BEK	0.07	0.12	0.18
45	BKB	0.30	0.51	0.78
46	BGG	0.06	0.11	0.17
47	CL	0.03	0.06	0.10
48	TAN	0.30	0.53	0.81
49	JIA	0.13	0.15	0.18
50	JUG	0.06	0.14	0.24
51	CPD	0.09	0.16	0.25
52	DEP	0.24	0.40	0.60
53	SKJ	0.18	0.31	0.45
54	CIB	0.04	0.06	0.09
55	SWG	0.02	0.04	0.07

ANNEX 5-4

General Circuit Dimensioning Method

ANNEX 5-4 General Circuit Dimensioning Method

(1) Circuit Dimensioning (Two Choices)

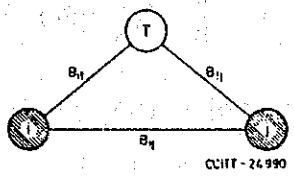


FIGURE C-1 (VI)

Requisite data:

A_{ij} : is the offered traffic from exchange i to exchange j

B_{ij}, B_{it}, B_{tj} : are the incremental costs for junctions between exchanges (i, j) and exchanges and transit stage (t)

E_{ij} : is the grade of service on the transit routes

Calculation steps	Formulae
1) Cost ratios	$\varepsilon_{ij} = \dfrac{B_{ij}}{B_{it} + B_{tj}}$
2) Number of high-usage junctions n_{ij} for all routes i-j between exchanges	$A_{ij}.[E(n_{ij}, A_{ij}) - E(n_{ij}+1, A_{ij})] = \varepsilon_{ij}.[1 - 0.3(1 - \varepsilon^2_{ij})]$
3) Mean value P_{ij} and variance V_{ij} of traffic rejected from each high-usage routes	$P_{ij} = A_{ij}.E(n_{ij}, A_{ij})$ $V_{ij} = P_{ij}\left[1 - P_{ij} + \dfrac{A_{ij}}{n_{ij}+1+P_{ij}-A_{ij}}\right]$

4) Mean value M and variance V of traffic offered to the transit route

$$M_{it} = \sum_j P_{ij}, \quad V_{it} = \sum_j V_{ij}$$

$$M_{tj} = \sum_i P_{ij}, \quad V_{tj} = \sum_i V_{ij}$$

5) Equivalent traffic A* and equivalent number of junctions n* (index omitted) on the transit routes

$$A^* = V + 3\,\frac{V}{M} \cdot \left(\frac{V}{M} - 1\right)$$

$$n^* = \frac{A^*}{q} - M - 1$$

where

$$q = 1 - \frac{1}{M + \frac{V}{M}}$$

6) Number of transit circuits m (index omitted)

$$A^* \cdot E\,(n^* + m, A^*) = E_{ij} \cdot M$$

(2) Circuit Dimensioning for Tandem Routes (Three Choices)

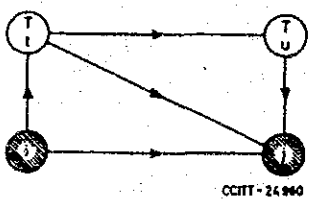


FIGURE 9-6 (VI)
Traffic flows in a network with three choices for routing

i is the sending exchange in area t;

j is the receiving exchange in transit area u;

i-j is the first choice;

i-t-j is the second choice;

i-t-u-j is the third choice;

P_{ij} is the traffic rejected (overflow traffic) from the high-usage route ij;

P_{tj} is the traffic rejected (overflow traffic) from the high-usage route tj;

traffic on the route it: $A_{it} = \sum_j P_{ij}$

i.e. the sum of the rejected traffic from i to all other exchanges;

traffic on the route tj: $A_{tj} = \sum_{j \epsilon u} P_{tj}$

i.e. the sum of the rejected traffic from all exchanges belonging to transit area t to exchange j in transit area u;

traffic on the route tu: $A_{tu} = \sum_{j \epsilon u} P_{tj}$

i.e. the sum of the rejected traffic from all routes between the transit stage t and all exchanges in transit area u;

traffic on the route uj: $A_{uj} = \sum_{i \epsilon u} P_{tj} + \sum_{T \neq u} P_{tj}$

i.e. the sum of the rejected traffic from all exchanges in transit area u to exchange j in the same area plus the rejected traffic from other transit stages than u to the same exchange j.

The traffic rejected from a high-usage route with n circuits is represented by the shaded areas above the line n-n. Obviously, traffic of this kind assembled on a transit route is not of the same type as the traffic offered to a high-usage route and cannot be described only by its mean value. Also the variances of the traffic have to be taken into account.

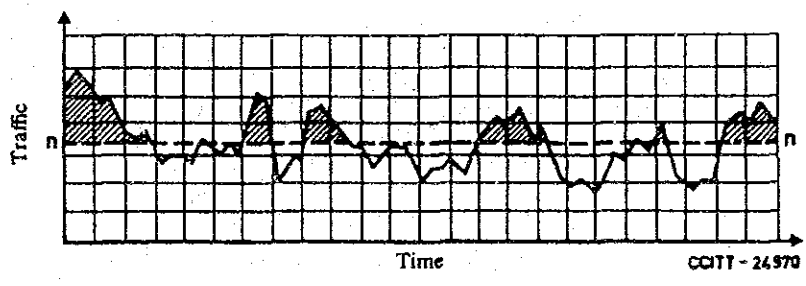


FIGURE 9-7 (VI)
Character of the traffic rejected from a high-usage route

Character of the Traffic Rejected from a High-usage Route

A method for the determination of the number of circuits on high-usage and transit routes based on Wilkinson's equivalent random theory. This method is conveniently used in order to determine the structure of the network and the number of high-usage circuits. However, full availability being assumed corrections of the number of transit circuits may be necessary depending on the particular details of the system employed.

ANNEX 5-5

Integration of Analog and

Digital Trunk Exchanges in Jabotabek Area

ANNEX 5-5 Integration of Analog and Digital Trunk Exchanges in Jabotabek Area

(1) Network Digitalization Scenario

SLDD network digitalization in Jabotabek area will be achieved through the following transition periods aiming at full-digitalization of the network:

	Trunk Junction	Trunk Switch	Local Junction	Remarks
Period 0:	Analog	Analog	Coexist.	Present Condition
Period 1:	Coexist.	Coexist.	Coexist.	JA-BOO (M/W) & SM2
Period 2:	Coexist.	Coexist.	Coexist.	End of Rep. V/VI
Period 3:	Digital	Digital	Digital	End of Rep. VII

Attachment-1 shows the overall scenario of network digitalization in Jabotabek area.

(2) Routing Principles under Coexistence of Analog/Digital Trunk Switches

Attachment-2 presents the routing principles in case where analog and digital trunk switches coexist in a multi-exchange area. The principles quoted here are in line with FTP '85/POSTEL though the junction routes via local transit exchange are omitted for brevity.

These principles given in Attachment-2 are applicable to the network development during Periods 1 and 2. In this case the link connecting both analog and digital trunk switches is to carry the transit and/or overflow traffic.

For outgoing traffic: transit traffic only
For incoming traffic: both transit and overflow traffic

(3) Current Environment

a) Junction Network Arrangement in Jakarta Multi-Exchange Area

Even though the digital trunk switch at SM2 is not put into service, the junction circuits among all digital local exchanges (existing/planned) and SM2 are to be provided even for SLDD traffic under OECF JKT PCM Phase 1/2 Projects. However, the inter-link between GB1 and SM2 was not taken into account since it was beyond the scope of work of the said Projects.

On the other hand, the existing analog local exchanges are connected to GB1 trunk switch via analog transmission media, i.e., metallic pair cables to carry SLDD traffic.

Consequently the existing digital local exchanges are to be connected for the time being to GB1 analog trunk switch until service-in of SM2 digital trunk switch.

b) Call Handling Capacity of MC-10C/GB1

As for the call handling capacity the following are found.

- Traffic handled : 2,350 Erlang (actual load)
- BHCA capacity : 150,000 BHCA (multi-processor)
- Trunk terminal capacity: 8,000 x 2 ccts. (approx.)

The trunk terminals above of about 16,000 are allocated to various types of interface equipment.

c) SLDD Traffic/Calls

The following are observed according to the collected data as to SLDD traffic/calls:

Successful Call Ratio: around 20%

A large number of lost calls are mainly due to:

- subscribers' partial dialling;
- ringing but no answer;
- called party/destination exchange busy.

Average Holding Time

- for successful SLDD calls: 118 - 163 seconds
- for SLDD call attempts : 32 - 89 (Ave.: 44 seconds)

Destination-Based Distribution of SLDD Traffic

The following are the present percent distribution of outgoing SLDD traffic from GB1 trunk switch by destination:

- To Sumatera : 22%
- To Jawa : 69%
  (for Bogor) (5%)
- To Kalimantan : 4%
- To Sulawesi : 5%
- To Maluk/Irian Jaya: negligible

Noteworthy here is that the figures above might include the transit SLDD traffic originated from the areas other than Jakarta multi-exchange area.

d) Supplementary Information

International Switching Function

International calls from/to Indonesia are switched in Jakarta (MC-10C/GB1) and Medan at this moment. However, the international switching function of MC-10C as well as the related manual switchboards are scheduled to be transferred to a newly installed international digital switch in new PT. INDOSAT Building by the end of this year (1989). Even in this case, the existing analog switch

MC-10C is still expected to function as a gateway to INTS (international switching center) at national level.

(4) Practical Network Development

Attachment-3 demonstrates SLDD network development in Jakarta multi-exchange area to follow the routing principles set forth in FTP '85.

During Period 1 of Attachment-3, the digital trunk switches in Bandung and Surabaya are likely to remain connected with MC-10C/GB1 via existing analog backbone transmission system.

During Periods 1 and 2, the junction circuits will be arranged so as to make an effective use of already-provided-circuits under other projects as many as possible. (Refer to the physical image in Attachment-3.)

(5) Foreseeable Constraints

Even if SLDD network is developed in accordance with the scenario presented in Attachment-1 and Attachment-3, some constraints against the network development are foreseeable.

The existing MC-10C/GB1 is not likely to have a sufficient call handling capacity in terms of BHCA to cater for the trunk network expansion.

The following table gives the calculated BHCAs assuming different average holding times for SLDD calls to include incoming and transit calls from the areas other than Jakarta area based on the actual load condition:

Average Holding Time	BHCA 1/	Remarks
50 sec.	169,200	similar to the current situation; handling capacity of MC-10C=150,000 BHCA.
60 sec.	141,000	
70 sec.	120,900	
90 sec.	94,000	

1/ BHCA = 2,350 (Erlang) x 3,600 (sec.)/(Average Holding Time)

In a word, the handling capacity of MC-10C is exceeded as long as the average holding time remains same (currently 44 sec.).

The existing MC-10C will be obliged to handle the traffic of 3,750 Erlang by the end of Repelita V if the network development scenario given here is followed and based on the following assumptions:

Estimated SLDD traffic from/to Jakarta:		3,800 x 2 (Erlang)
Local switch digitalization in Jakarta:		72%
Trunk junction digitalization	:	60%
Overflow traffic between GB1 and SM2	:	10%
Network expansion scale	:	1,400 k l.u.

It could be said that MC-10C/GB1 will be overloaded by the end of Repelita V if the plan of 1,400 k l.u. expansion is realized and unless the average holding time of SLDD calls including ineffective ones is raised up to 90 sec. in any way by improving successful call ratio:

3,750 (Erlang) x 3,600 (sec.)/90 <= 150,000

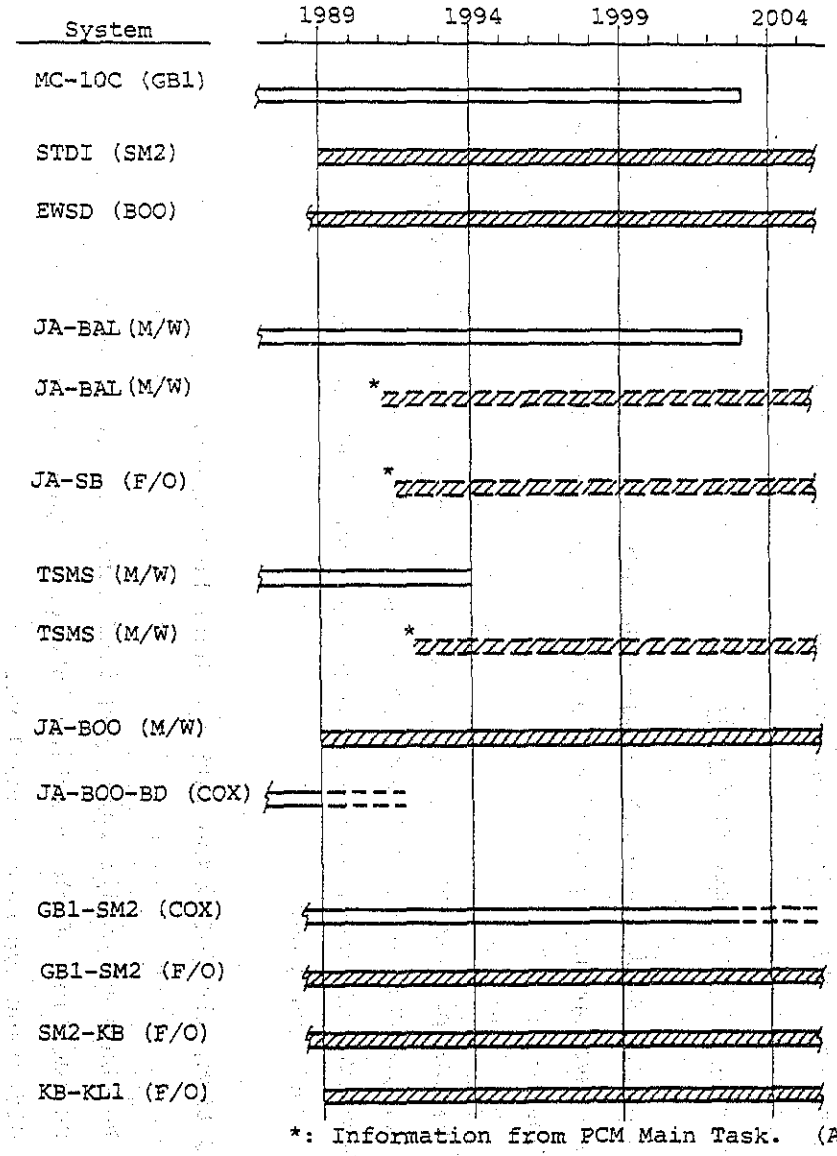
Arrangement of Interface Equipment

By the end of Repelita V, the following measures shall be taken if the network development scenario given here is pursued (Refer to Attachment-4):

- Replacement of No. 5 type interface equipment with E&M/MFC type;
- Removal of local EMD/N230 interface equipment;
- Removal of local EWSD interface equipment and part of analog trunk junctions.

In addition, the following matters shall be considered:

- Purchase of additionally required interface equipment;
- Remodelling of the existing interface equipment to be fit for different types of signalling.



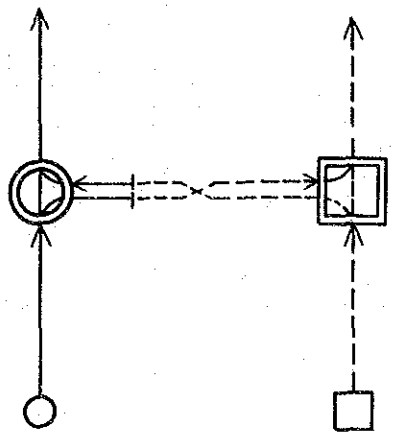
System	Conditions	Remarks
MC-10C (GB1)	Service life: 25 yr.	CCT: 8,000 x 2
STDI (SM2)	Under installation	CCT: 7,000 ; Planned (+4,000)
EWSD (BOO)	Operated	CCT: 1,020
JA-BAL (M/W)	Service life: 20 yr.	1,260CH (2+1)/4 GHz
JA-BAL (M/W)	S-in: in early 1991	140 Mbps (3+1)/6 GHz upper
JA-SB (F/O)	S-in: in mid. 1991	140 Mbps (4+1)
TSMS (M/W)	Service life: 20 yr.	1,260CH (1+1)/4 GHz
TSMS (M/W)	S-in: in early 1992	140 Mbps (3+1)/6 GHz upper
JA-BOO (M/W)	Ready for commis sionning.	140 Mbps (1+1)/6 GHz upper
JA-BOO-BD (COX)	Operated	360CH/via CIB
GB1-SM2 (COX)	Operated	24-tube
GB1-SM2 (F/O)	Installed	140 Mbps (4+1) ; Planned (+8 sys)
SM2-KB (F/O)	Installed	140 Mbps (6+1)
KB-KL1 (F/O)	Installed	140 Mbps (5+1)

*: Information from PCM Main Task. (Apr. 24, '89)

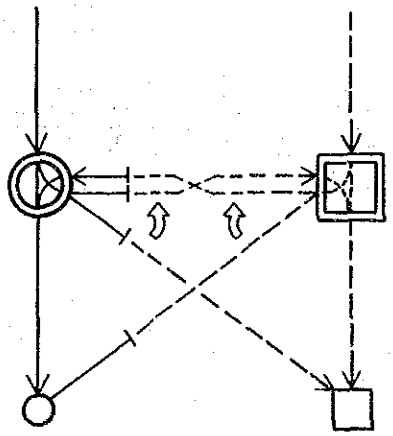
Attachment-1 Overall Scenario of Network Digitalization

Attachment-2 Routing Principles for SLDD Traffic (FTP '85)

a) Outgoing Traffic from Jakarta

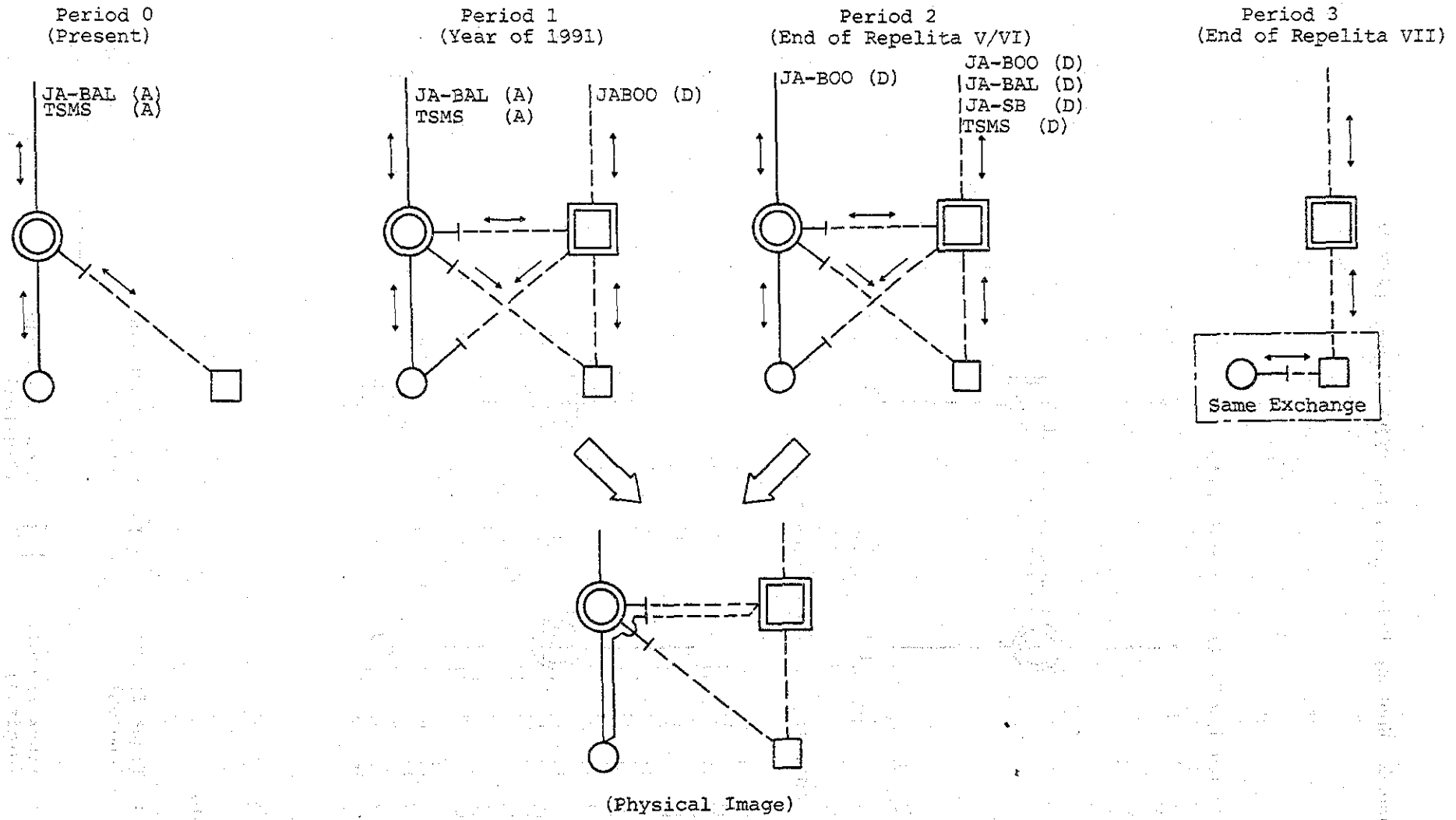


b) Incoming Traffic to Jakarta



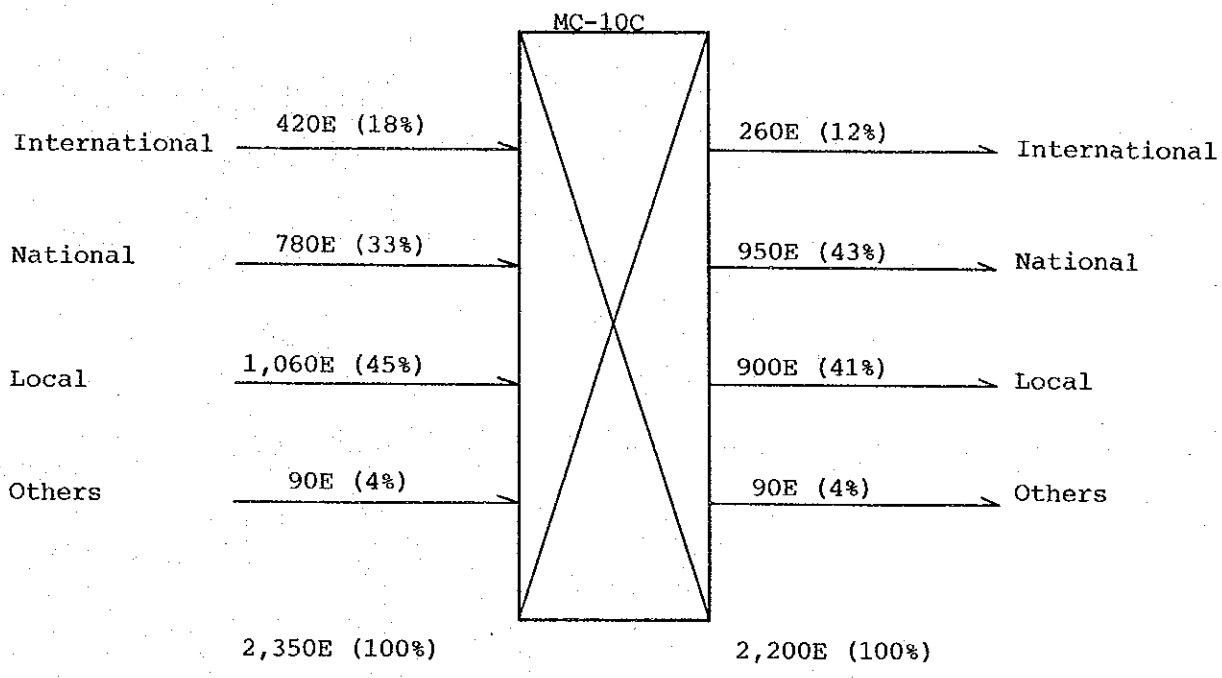
(LEGEND)

: Trunk Transit (Analog)	: Local Exchange (Analog)	——— : Junction (Analog)
		—|--- : CODEC (A/D)
: Trunk Transit (Digital)	: Local Exchange (Digital)	– – – – : Junction (Digital)



Attachment-3 Guideline for SLDD Network Integration

Attachment-4 Current Traffic Flow of MC-10C in GB1



Interface Equipment Installed/Planned/Equipped

Signalling	Incoming			Outgoing			
Type	Inst.	Pland.	Eqpd.	Inst.	Pland.	Eqpd.	Remarks
LP/MFC	1958	1689	1594	2065	1513	1487	for PRX and EWSD
3W/MFW	480	480	477	-	-	-	for EMD via Super 10
E&M/DP	237	196	180	572	555	519	for EMD/N230
E&M/MFC	2616	2570	2150	2708	2655	2069	for SLDD and EWSD
E&M/DP	83	68	59	147	69	57	for SLDD and Suburban
E&M/No.5	1145	1137	1049	1145	1137	1048	for ISD (both-way operation)
No.6	296	-	-	296	-	-	
Others	1193	1161	986	1112	1078	826	for Operator, echo sup. etc.
Total	8008	7301	6495	8045	7007	6006	