Concentration Ratio for International Telephone

	Busy Hour	Observe	d Concentr	ation Rati	o (%)	Ratio(%)
Oircuit,	Dec 16 Wed	Dec 15 Tue	Dec 16 Wed	Dec 17 Thu	average	to be applied
S ingapore	14 - 15	10. 1	10. 7	9. 9	10. 23	10
Malaysia	9 — 10	11. 3	8. 6	10. 0	9. 46	10
Hong kong	10 11	9. 2	9. 7	9. 5	9. 46	10
Japan	9 — 10	9. 9	11. 0	10. 4	10. 43	10
Taiwan	10 — 11	8. 7	9. 2	11. 5	9. 8	10
Netherlands	14 — 15	14. 2	11, 5	15. 2	13. 6	, 14
Australia	10 — 11	10. 6	10. 2	10. 5	10. 4	10
U. S. A.	8 - 9	8. 8	9. 6	9. 6	9, 3	10
United Kingdom	15 — 16	11. 1	12. 5	13. 7	12. 4	13
Germany	17 — 18	9. 3	12, 1	12. 4	11. 3	12
Philippines	14 - 15	11. 1	11, 3	11. 2	11. 2	11
France	18 19	15. 4	13. 2	20. 0	16. 2	15
I taly	14 - 15	16 2	14. 6	13, 0	14. 6	15
Thailand	12 — 13.	13. 8	. 10. 4	_ 14. 0	12. 7	13
Korea Rep.	20 21	9. 6	11. 3	9. 5	10. 1	10
S pain	1 - 2	15. 8	25. 9	23. 8	21. 8	15
Saudi Arabia	14 — 15	12. 1	11. 1	12. 8	12	12
Switzerland	15 — 16	16. 6	14. 1	12. 5	14. 4	15
Norway	15 — 16	17. 8	14. 6	21. 1	17. 8	15
Hawaii	12 - 13	25. 8	19. 8	18. 7	21. 4	15
C anada	8 9	10. 4	15. 9	14. 7	13. 7	15

Assumed Concentration Ratio for International Telephone

Circuit	time difference with Jakarta	Concentration Ratio (%)
Egypt	- 5 H	13
New Zealand	5 H	13 3 3
P akistan	- 2 H	10
Papua New Guinea	3 H	13
Sri Lanka	- 1,5 H	10
K uwai t	~4 H	13 F m
U. A. E	- 3 H	13
Greece	- 6 H	15 # 3 % * 15 # 3 % *
Austria	- 6 H	15 (1) 10 (1)
S weden	- 6 H	7 Cat 15 15 15 15 15 15 15 15 15 15 15 15 15
Belgium	- 6 H	15
D enmark	- 6 H	15
. India.	- 1.5 H	10

Telephone	Tireru	at IUI	ar CII	curcs			, t		<u></u>			
5) 2:		. · 83. ′	:84	∶85	86	,87	. 88	- 89	90	94	99	2000
	JKT	ਉ 7	, 8	<u>. </u>	.: 11	12	13	14	16	22	31	32
Spain	MDN	}. <u>-</u>	-	, <u>-</u>		-	_ 5	5	6	8	11	12
United 🖔	'JKT	: 36	. 43	47	55	65	76	88	102	. 178	272	291
Kingdon	MDN	_	<u>.</u>	. 11	: 12	14	. 17	22	25	39	64	., 70
	JKT	17	20	21	. 24	. 28.	. 32	37,	43	61	88	93
Italy	C MDN	'. <u>-</u>	· -	6	7_	8	. 9	10	12	18	27	30
	, JKT	، 32	38	44	53	56	66	77,	88	151	230	246
Australia	MDN			_		13	15	19	22	34	56	60
West er	JKK	; 30	, 36	· 39	46	. 54	63	74	85	145	221	237
Germany	MDN	_		9	10	12	15	19	21	33	54	58
	JKT	8	. 10	11	13	. 13	15	17	19	27	37	39
Swiss	MDN			_		5	5	6	7	9	13	14
	JKT	12	14	17	19	22	26	30	34	· 51.	74	79
Canada	MDN					· _						·
3.5	JKT	18	19	. 23	26	31	35	41	47	68	99	105
Malaysia	· NDN		- 5	6	7	8	10	11	13	20	50	33
Philippin	JKT	16	17	20	23	27	31	35	40	59	88	89
, 1 m 1 m	MDN		- 5	5	6	7	9	10	12	17	28	29
Saudi,	JKT	12	14	25	17	19	22	25	29	41	59	62
Arabia	MDN	-	- -	5	5	6	7	8	9	13	19	21
Singapore	JKT	200	230	283	345	419	505	604	707	1, 114	1697	1814
Criigapore	MDN		- 28	36	46	58	74	93	113	232	418	461
Thailand	JKT	1	12	14	16	19	21	24	27	39	56	59
Inarranu	MDN	-	- 4	4	5	6	7	8	9	12	19	20
Taiwan	JKT	2	32		1	52	61	71	81	139	212	227
Taiwan	, MDN		- 7	9	10	12	15	17	20	32	52	56
Belgium	JKT	· .	3 9	1	:1	13	14	15	17	24	33	34
Deigium	MDN			-		-	5	5	6	8	12	13
France	JKT	20	5, 32	34	40	47	55	64	74	110	188	202
x i auce	u MDN		-	- 8	9	11	14	16	19	29	47	51
in o 'A	JKŢ	1 .		1	109	151	184	222	262	, 423	663	714
U.S.A	MDN			1 3	<u>-</u>	-	-	-	-			-

Telephon	e Inter	nation	al Ci	rcuits	;					, , , , , , , , , , , , , , , , , , ,	20.72	
<u> </u>		83	84	85	86	87	88	89	90	94	99	2000
	JKT	83	94	113	156	190	229	274	321	505	769	822
Japan	JKT	-	16	20	25	31	38	47	56	95	189	209
Hong	JKT	46	50	57	67	79	94	109	145	-228	348	372
Kong	MDN	_	10	11	14	17	21	25	30	48	79	86
	JKT	33	40	48	56	66	78	90	104	184	279	298
Netherland	ds MDN	-		10	12	15	18	21	25	40	66	71
1	JKT	9	8	6	7	8	9	9	10	13	17	17
Norway	MDN	-		_	-	-	_	_	-	5	7	7
	JKT	7	8	9	10	11	13	15	17	23	33	35
Hawaii	MDN	-	_	-	-	-	_	_	_	_		-
,	JKT	13	15	17	20	23	27	32	36	54	79	84
Korea R	MDN	-	-	-	_	_	_	_	-	_	-	_
	JKT			3	4	4	4	5	5	6	8	8
Egypt	MDN	l		_	_	_		_	_		-	
:	JKT			9	11	12	14	15	17	24	33	35
India	MDN			3	4	4	5	6	6	8	12	13
New	JKT			7	8	9	11	12	13	19	26	28
Zealand	MDN	l		-	-	4	4	4	5	6	9	9
D-1-1-4-	JKT			3	4	4	4	5	5	6	7	7
Pakistan	MDN			_	-	_	_	_		_	4	4
Papua	JKT			4	4	5	5	6	6	8	10	11;
New Guinea	MDN			-	_	_	_]	_	_	_		_`
0 - 1 - 1	JKT			3	3	4	4	4	5	. 6	7	8
Sri Lanka	MDN			-	-	-	_	_	_	, , _		
	ЈКТ			5	5	6	6	7	8	9	12	13.
U. A. E	MDN			-	_	_	_	3	3	4	5	6
-	JKT			6	7	7	8	9	10	12	16	17
Austria	MDN			_	_	_		_	_	5	7	7
	JKT			7	7	8	9	10	12	14	19	
Denmark	MDN			_	_	<u>.</u>	_	_	_	6	*	20
	JKT			6	7	- :	9	10	11	13		8
reece	MDN			_	_				11	5		18
·		<u> </u>								5	7	8

Telephone international Circuits

		83	84	85	86	0.7	T 00	1 00 1	<i>j</i> ,			, ,
15 45	JKT		04			87	88	-89	90	94	99	2000
Sweden	'		,	7	8	9	10	11	12	14	19	20
	MDN			<u>;</u>				_		6	8	8
Nigeria	JKT			:		3	4	4	4	5	6	7
,,,,	MDN							~_	_	-	_	⁻ –
Brunei	JKT					3	3	3	3	, 4	5	5
	MDN					2	2	2	2	2	3	3
Yugoslavi	JKT a				ĺ	4	4	4	4	5	7	7
	MDN						_	-		, - ^ —	_	· <u>`</u>
Brazil ¹²	JKT	y					5	, 5	, 5	. 7	9	9
22	MDN	<u></u>		-			, –	_	-[· ,;, –	_	_
Kenya	JKT						_ 3	3	. 4	4	5	5
	MDN			j			_	_	_	_		
Bahrain	JKT	,					3	4	4	5	6	6
Danrain	MDN	·	٠		ĺ	,	_	٠ _	_		_	_
14 .	JKT							5	5	6	8	9
Mexico	MDN							_	_	_	_	_
D:-1	JKT				 -			Š	5	6	8	8
Finland	MDN							_	_	_	_	_
т	JKT	7							3	4	5	5
Iran	MDN							ŀ	اً ا	_		3
	ЈКТ	, 								3		
Burma	MDN	. [اً	4	4
-	JKT	-								3		
Fiji	MDN	1				1		ł			4	4
	JKT			-			-			-		
Iraq	MDN		ŀ							3	4	4
Vew	JKT	-										
Daledonia	MDN									3	4	4
	JKT		· -		- 		-					
Tanzania	MDN										3	4
	JKT	-					_					
Argentina -	MDN										5	5
	MDN					,						

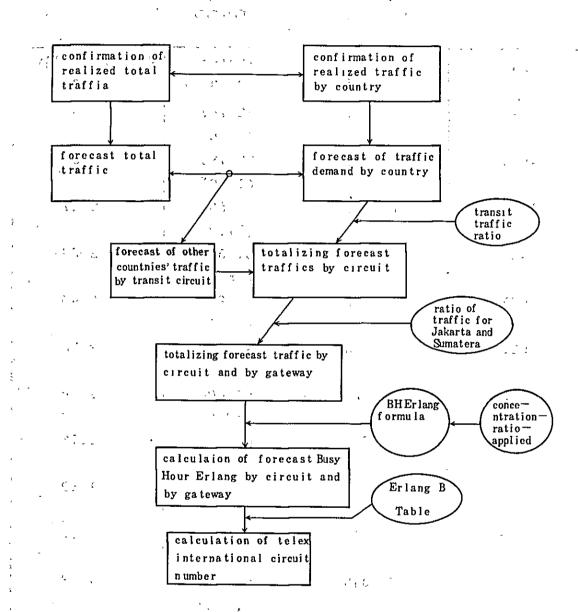
Telephone international Circuits

Telephone i	nterna	tjonal	Orca	115							05	0000
		83	84	85	86	87	88	89	90	94	95	2000
	JKT]		<u> </u>	l	3	3
Bangladesh	MDN						<u> </u>) 	<u> </u>	+1**		_
	JKT										4	,5
Turkey	MDN						ļ			s	_	
[JKT									,	4	. 4
USSR	MDN						!]		 	, .	_	
,	JKT									. "	3	5
Hungary	MDN										_	_
	JKT	714	824	1, 027	1, 236	1, 491	1, 775	2, 094	2, 445	3, 848	5, 844	6, 239
Grand Total	MDN	0	75	143	172	233	ŀ	357	421		1, 254	Į
											- 	
										, <i>a</i>		'
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Flowchart of Demand Forecast and International Circuit Arrangement

Sale of the start

(International Telex)



great of data and the total and the

The second secon

International Telex Traffic Forecast

Indonesia - World

(Outgoing + Incoming)

Year	Calls	Minutes	Average Minutes
1 Gai	(thousands)	(thousands)	per call
1983	8,105	23,747	2.93
	, , , , , , , , , , , , , , , , , , ,	(16.5)	in a margin of
1984	9,923	27,784	2:80
·	,	(17.0)	
1985	12,175	32,507	2.67
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		(17.0)	,
1986	14,666	37,546	2.56
		(15.5)	* * * * * * * * * * * * * * * * * * * *
1987.	17,547	42,990	2.45
	, , , , , , , , , , , , , , , , , , , ,	(14.5)	·
1988	20,672	48,579	2.35
	<u>, , , , , , , , , , , , , , , , , , , </u>	· i _ (13.0))
1989	24,074	54,408	2.26
7000	'	(12.0)	
_1990 <u></u>	27,703	60,393	2.18
1004	, ,	(11.0)	
1994	40,811	77,133	1.89
1000		(4.6)	` '
1999	56,601	91,694	1.62
2000	50.045	(2.3)	,
2000	59,343	93,762	1.58
		(2.0)	

(Note) This table is the same as Table 3-5 in the text;

pers Country, is '	83	84.	85	86	87	88	89	90	94	99	2000
Algeria	2.6	3.0	35	4.1	4.6	5. 2	5,9	6. 5	8.3	9, 9	10 1
Egypt 5	17.3	. 20. 2	23. 6	27.3	°31. 3	35, 3	39.6	43. 9	56. 1	66 7	68.2
E thiopia distribution	16. 2	19. 0	22. 2	25, 7	29. 4	33. 2	3 7. 2	41. 3	52. 8	62. 7	64. 1
K enya	5, 8	68	8.0	9.2	10. 5	11. 9	['] 13. 3	14 8	18.9	22. 5	23. 0
Nigeria '	·· 2. 1	'· 2. 4	2.8	3. 2	3. 7	4.2	4.7	5, 2	6. 7	7. 9	8.1
Tunisia	4.4	, 5.2	6.1	7.0	'° 8.0	9. 1	10 2	11. 3	14. 4	17. 2	17. 6
South Africa	4.4	5. 2	6. 1	7.0	8.0	'9, 1	10. 2	11. 3	14. 4	17.2	17.6
Argentine (A.C)	4.4	5. 2	° 6. 1	7.0	8.0	9,1	10. 2	11. 3	14. 4	17. 2	17. 6
Brazil	· 18.3	21. 4	½ 25. 1	28. 9	33. 1	37.4	41. 9	46. 5	59. 4	70. 7	72. 2
Chile (1760)	" 1.0	1.2	1.4	1. 6	1. 9	2. 1	2 4	2.6	3. 3	4.0	4.1
Colombia () (37	0.7	0.8	0.9	1. 1	1. 2	1. 4	1.6	1. 7	2 2	2. 6	2. 7
C uba	1.5	. 1. 8	2.1	2.4	2. 8	3. 1	3.5	3.9	5.0	5,9	6. 1
Mexico work in	18.3	21. 4	25, 1	28.9	33. 1	37.4	41. 9	46. 5	59. 4	70. 7	72. 2
Panama	1.19	2. 2	- 2.6	° 3. 0	3. 4	3. 8	4.3	4. 8	6. 1	7.3	7. 4
Peru Links with	1. 5	1.18	2.1	2. 4	2.'8	3. 1	3. 5	3. 9	5.0	5. 9	6. 1
Puerto Rico	4.6	5. 4	6.3	. 7.3	8.4	9. 4	10 6	11. 7	15. 0	17.8	18. 2

Country	8:	3 84	1 8:	5 80	5	87	88	8 9	9 () 9.	4 , 9	9_ 2000
Venezuela	2		\dashv	2. 8	3 2	3.	7 4	. 2 4	7 8	5. 2		7.,9
Afganistan	1.	9 2	. 2	2. 6 3	. 0	3.	4 3	. 8 4	3 4	. 8	5. 1	7.3 -, .7.4
Australia	824.	5 964.	7 1128	8 1303	. 6	1492 4	4 1687	1889	2096	. 8 2678	3183	. 5 3255, 2
Bahrain	4	6 5.	4 6.	. 3 7	. 3	8. 4	1 ,9.	4 10.	6 11.	7 15	.0 17	. 8 18.2
Brunei	2.	7 3.	2 3.	7 4.	3	. 5,0	5.	6 6	3 7.	0 8	. 9 10	. 6 . 10. 8
Burma	2. 9	3. 4	4 4.	0 , 4.	6	5. 3	5,	9 6.	7 7.	4 9.	4 11.	2 11.5
China	1 4	1. 6	1.	9 2	2	2. 5	2 8	3.	3.	5 4.	4 5,	3 5.4
Korea D. PR	5, 3	6. 2	7.	8.	4	9.6	10. 8	3 12 1	13	5 17.		5 20. 9
Fiji	1. 5	- 1.8	2 1	2 4	1	2 8	· 3. 1	3. 5	3. 9	9 5.	0 5,	9 . 6.1
Hong Kong	1710. 4	2001. 2	2341. 6	2704 2	30	95. 9	3499. 6	3918. 6	4349. 6	5555.	5 6604	6752. 8
India	188, 8	220 9	258.5	298. 5	3.	41. 8	386. 3	432.6	480. 2	613. 3	729. (745. 4
I ran	14.5	17.0	19, 9	23. 0	2	26. 3	29. 7	33. 3	37. 0	47. 2	56. 1	57. 4
J.apan	3243. 2	3794.5	4439, 9	5127. 5	587	0. 1	6635, 5	7430. 1	8247. 4	10533. 8	12521. 9	12804
Jordan ,	6. 0	7.0	8. 2	9. 5	1	0. 8	12. 2	13. 7	15, 2	19.4	23. 1	. 23.6
Corea R.	352. 3	412. 2	482, 3	557. 0	63'	7. 7	720. 8	807. 2	895. 9	1144.3	1360. 3	1390. 9
uwa i t	26. 7	31. 2	36. 5	42. 2	48	3.3	54. 6	61. 1	67. 8	86. 7	, 103. 0	105.3

Country	83	8 4	8 5	86	8 7	8.8	8 9	9 0	9 4	9 9	2000
	0.9	1 0	1. 2	·· 1. 4	1. 5		2 0	2. 2	2. 8	3. 3	3. 4
Malaysia (373. 5	437.0	[*] 511. 4	590 5	676. 1	764. 2	855.7	949. 9	1213. 2	1442. 2	1474.7
Nepal	2. 6	3 O	3 5	4.1	4 6	5.2	5. 9	6.5	8.3	9, 9	10. 1
New Calledonia	[∵] 2.4	2.8	3. 3	3. 8	4. 3	4. 9	5, 5	6. 1	7.8	9. 2	9. 5
New Zealand	87. 9	' 102. 9	120. 3	139	159 1	179. 9	201. 4	223. 5	285. 5	339, 4	347 1
Oman	1.4	1. 6	1. 9	'2. 2	2.5	2.8	3. 1	3. 5	4.4	5.3	5, 4
Pakistan	25. 5	29.8	34. 9	40. 3	46. 1	52. 1	58.4	64. 8	82. 8	98.4	100. 6
Papua New Guinea	31. 1	36.4	² 42. 6	49. 2	56. 3	63. 7	71.3	79. 2	101. 1	120. 2	122. 9
Philippines	304. 1	355. 8	416. 3	⁻¹ 480. 8	550. 4	622. 2	696. 7	773. 3	987.7	1174. 1	1200. 5
Quatar	1. 5	1 · i. 8	2.1	2. 4	2.8	3.1	35	3. 9	5, 0	5, 9	6. 1
Saudi Arabia	² 134. 4	Î57. 3	184.0	212. 5	243. 3	275.0	308.0	341. 8	436. 6	519.0	530. 7
Singapore	5731. 1	6705. 4	7845. 9	9060. 9	10373.3	11725, 8	13129. 9	14574.2	18614. 6	22127 7	22626. 3
Sri Lanka	43. 3	` - 50. 6	59, 2	68.4	_78.3	88. 5	99.1	110. (140. 5	167. 1	170. 8
Syrian Arab	2.7	3. 2	3.7	4.3	5, 0	5. 6	6.3	7. (8 9	10. 6	10. 8
Thailand	201. 8	236. 1	276. 3	319.1	365.3	412. 9	462. 3	513. 2	2 655, 5	779.2	796. (
U.A.E.	38.3	44. 8	52. 4	60. 6	- 69. 3	78. 4	87.8	· 97.	1 124. 4	147. 9	151. 2

Country	83	84	8 5	86	87	88	89	90	94	9 9 ,,	2000
Y emen	0, 5	0. 6	0. 7	0 8	0 9	1.0	1. 2	1, 3	1. 7	2.0	2. (
Yemen Arab	2 1	2. 4	2. 8	3. 2	3. 7	4 2	4.7	5. 2	6. 7	7.9	. 8. 3
Taiwan	466 7	546. 1	639.0	737 9	844 8	954. 9	1069, 3	1186 9	1515, 9	1802. 1	1,842.
Austria	55, 9	65, 4	76 6	88. 4	101 2	114. 4	128.1	142 2	181. 6	21,5. 9	220.
Belgium	169.7	198.5	232. 3	268. 2	.307-1	347.1	388.7	431.:4	551,0	655, 1	669.
Bulgaria	1. 9	2 2	2 6	3. 0	3. 4	3. 8	4. 3	4 8	6. 1	7.3	7.
C zechoslovak	7. 2	8.4	9.8	ε 11. 4	, . 13. 0	14.7	16 5	18.3	23, 3	27, 7	28
Denmark	77 3	90. 4	105, 8	122. 2	139. 9	158. 2	177.1	196. 6	251. 1	298. 5	
Finland	20. 2	23. 6	27.6	31 9	36. 5	41. 3	, 46 2	51. 3	65.5	77.9	79
France	749.8	877. 2	1026. 5	1185, 4	1357. 1	1534. 1	1717.7	1906. 7	2435. 3	2894: 9	2960
FRD	1344 6	1573. 2	1840. 8	2125, 8	2433 7	2751. 1	3080. 5	3419.	4367. 3	5191. 5	5308
Greece	29 6	34. 6	40, 5	46 8	53. 6	60. 8	67. 8	75.	2 96. 1	114.2	116
Hungary	17.3	20. 2	23. €	27.3	31. 3	35.	39, (43.	9 56. 1	66. 7	6
1 celand	0. 5	0. 6	0. 7	0.8	0. 9	1.	0 1. :	2 1.	3 1, 1	7 , 20	
I reland	6.0	7.0	8. :	2 9.5	10. 8	12.	2 13.	7 15.	2 19.	4 23, 1	2
I taly	316. 9	370. 8	3 433 :	501. 0	573. (648.	4 . 726.	0 805.	9 1029.	3 1223.	6 125

		0.4	0.5	0.0	22	00		2.0			
, , Country v	83	84	85	86	87	88	8 9	90	9 4	99	2000
Luxembourg	7.4	8.6	10. 1	11. 6	13.3	15.0	16. 8	18.7	23. 9	28.4	29.0
Netherlands	912. 4	1067.5	1249. 1	1442. 5	1651. 5	1866. 8	2090. 4	2320. 3	2963. 6	3522. 9	3602.3
Norway	51.0	59. 6	69, 8	80. 6	92. 2	104.3	116. 8	129.6	165. 5	196. 8	201. 2
Portugal	3. 2	3.8	4. 4	5. 1	5, 9	6. 6	7. 4	8.3	10. 6	12.5	12 8
Roumania	18.3	21.4	25, 1	28. 9	33. 1	37. 4	41 9	46. 5	59. 4	70 7	72 2
Spain	64. 5	75.4	88. 3	101. 9	116. 7	131. 9	147.7	164 O	209. 4	248.9	254. 6
Sweden	91. 2	106. 7	124. 8	144. 1	165.0	186. 5	208.8	231. 8	296. 1	352. 0	359.9
Switzerland	218.7	255, 9	299.5	345, 8	395. 9	417.5	501. 1	556. 3	710. 5	844. 6	863 6
Turkey	33. 2	38 8	45, 4	52. 5	60. 1	67.9	76. 0	84 4	107. 8	128.1	131. 0
U.S.S.R	8.2	 9. 6	11. 2	13. 0	14. 9	16. 8	18.8	20 9	26. 7	31. 7	32 4
United Kingdom	1831. 0	2142 3	2506. 7	2894. 8	3314. 1	3746. 2	4194. 8	4656. 3	5947. 1	7069. 5	7228. 8
Yugoslavia	25. 3	29.6	34. 7	40. 0	45.8	51. 8	58.0	64.4	82. 2	97.7	99.9
Сапаdа ,	148.6	173. 9	203. 5	235, (269.0	304.1	340. 5	377.9	482. 7	573. 8	586.8
U.S.A	2602. 9	3045.3	3563. 3	4115.1	4711. 2	5325. 4	5963. 1	6619. 1	8454. 1	10049.6	10276
Hawaii	18.8	22. 0	25, 8	29.	34. 1	38. 5	43. 1	47.8	61. 1	72. 6	74 3
Guam (1971 1971 1971 1971 1971 1971 1971 19	1:4	î 1. 6	1. 9	2.2	2. 5	2.8	3. 1	3. 5	4.4	5, 3	5. 4

Country	8	3 8	4 85	8 (3 87	8 8	8	9 9	0	94	99	200
Bahamas,	٠,	1.0	1. 2	1. 4	1. 6	. 9 2	.1	2. 4	2.6	3. 3	.,4.	0 4.
Bermuda		5.0	5. 8	5. 8	7 8 9	.0 10.	1 1	1.4	12. 6	16, 1	. 19.*1	19,
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otal- , ;	22, 784	26, 657	31, 191	36, 022	41, 239	46, 616	52, 19	57, 9	10 74	1,002	87, 969	89, 951
her Countries	963	1, 127	1, 316	1, 524	1, 751	1, 963	2, 210	2, 45	3 3	3, 131	3, 725	3, 811
and Total	23, 747	27, 784	32, 507	37, 546	42, 990	48, 579	54, 408	60, 39	3 77	, 133 9	91, 694	93, 762

Other Countries! Telex Traffic by Transit Circuit

1000 minutes/year

			<u> </u>	· ·						Liiuco	
Circuit	83	.~.84	85	86	87.	88	89	90	94	99	2000
Other Countries' Total Traffic	963 -	1127.	1316	1524	1751	1963	2210	2453	3131	3725	3811
Via Italy	165.6	193.8	226.4	262.1	301.2	337.6	380.1	421.9	538.5	640.7	655.5
Via Hong Kong	25.0	29.3	34.2	39.6	45.5	51.0	57.5	63.8	81.4	96.9	99.1
Via France	61.6	72.1	84.2	97.5	112.1	125.6	141.4	157.0	200.4	238.4	243.9
Via '' Switzer land	578.8	677.3	790.9	915.9	10524	11798	1328.2	1474.3	1881.7	2238-7	22904
Via Australia	14.4	. :		22.9	26.3	29.4	33.2	36.8	47.0	55.9	57.2
Via U.S.A.	117.5	137.5		185.9	213.6	239.5	269.6	299.3	382.0	454.5	464.9

HES BY E HAY SHEET

Telex Traffic Distribution Ratio

(D): Direct Route

	Actura	l Ratio	Planne	d Ratio 🛒 🧠	Remarks
Country	1st Route	2nd Route	1st Route	2nd Route	
	Italy	France	[taly	France	
Algeria	99	1	9 9	1	TARRET W SALE F.S.
	Italy	USA	Italy	USA	* '85~ Egypt (D).
Egypt	5 1	4 9	9 5	5	100
	Italy	USA	Italy	USA	* '89~ Ethiopia (D)
Ethiopia	9 9	1	9 9	1	100
	USA		USA		* '94~ Kenya (D)
Кепуа	100		100	- 1-	100
	I taly	USA	Italy	USA	the state of the
Nigeria	98	2	98	2	1
	Italy	USA	Italy	USA	
Tunisia	9 9	1	9 9	1 *	
	Italy	USA	Italy	USA	*'99~
South Africa	9 9	1	9 9	1	South Afric
	USA	-	USA		» », « ¿.
Argentine	100		100	: "	
Brazil	Italy	USA	Italy	USA	*.'88~
Drazii	98	2	98	2	Brazil (D)
Chile	USA		USA		
Chile	100		100]
Columbia	USA		USA		
Common	100		100		-
Cuba	Italy		Italy		1
Cuba	100		100		
Mexico	Italy	USA	Italy	USA	* '88~
MICKICO	5 6	4 4	9 5	5	Mexico (D) 1 0 0
Danamia	USA		USA		
Panama	100		100	-	
D	Italy	USA	Italy	USA	†
Peru		 			1 '

(Note) Actural Ratio is adopted from ITU data(Appendix3.2.2-3)

Telex Traffic Distribution Ratio.

Land Broken Broken Broken

(D):Direct Route

					Direct Route
Country	- Actura		Planne	ed Ratio	D .
	-#1st!Route	2nd Route	1st Route	2nd Route	Remarks
Puerto, Rico	USA	. ,	USA	Italy	
(1) (1) (1)	100		5 5	4 5	
Venezue la	one Italy	USA .	Italy	USA	
. 14	: 55	4 5	5 5	4 5	1 ,
Afganistan -	Italy		Italy		† '`
	100	3 6	100	,	
Australia 💡	Australia(D)	··USA	Australia (D)		, ±.xv
1	98	2	100		* _ *
Bahrain 🔠 🥍	Italy,	Swiss	Italy	Swiss	* '99~
}	9 8	. 2	98	2	Bahrain (D) 100
Brunei	Hong Kong	: Singapore	; Hong Kong	Singapore	
	9 1	∵ ′ 9	9 1	9	-
Burma	Hong Kong	USA	Hong Kong	USA	,
1 ,1 ,	9 1	. 9	9 1	9	, `
China 1, -	I tary	Singapore	Italy	4	
	99,	163 1	1 0 0	-	•
Korea D. P. R.	1 2 _E	¥** 2	Japan	٠.	* '94~
(North)	, i	i 1	100	-	K DPR(D) 100
Fiji	USA	244!	USA	ž (
	100	<u> </u>	100		• • •
Hong Kong	Hong Kong(D)	Singapore USA	Hong Kong(D)	Singapore	-
4 3	. 94	6	. 95	5	,
India	Italy	Singapore	India(D)	,	
	8 9	1.1	100	fs fx	
Iran;	Sever Italy	Swiss	Italy	Swiss	* '85~
1 4]	65	3 5	6.5	3 5	Iran(D) 100
Japan_ · · · · ·	: Japan	Singapore	;å √ Japan(D)	Singapore	
	7.8	22	9 5	5	τ
ordan 📲 📜	Italy .	· USA	Italy	USA	* '94~
Aug	991	41: .1 :	99	1	Jordan (D) 1 0 0

Telex Traffic Distribution Ratio

(D): Direct Route

	Actural	Ratio		Planned	Ratio	Remarks
Country	1st Route		Route	1.1st Route	2nd Route	
Varian Dan	Italy	Sw	/1SS	Italy	Swiss	* '85~ Korea (D)
Korea Rep (South)	98		2	9 8	2	100
	Italy	Fr	ance	Italy	France	* '85~ Kuwait (D)
Kuwait	99		1	9 9	1	, 100
	Hong Kong	-		Hong Kong		· · · · · · · · · · · · · · · · · · ·
Macao	100			100		ا به المحادات المحادات المحادات المحادات المحادات المحادات المحادات المحادات المحادات المحادات المحادات المحاد
	Malaysia (D)	Hong	Kong	Malaysia (D)	Hong Kong	***
Malaysia	98		2	9 8	2	
	USA	,,,	_	USA		ي. وياريد. ا
Nepal	100			1 0 0	: 	
	France	. S	ydney	France	,)	2-4
New Caledonia	9 9		1	100		
	Sydney	I1	aly	Sydney	Italy	* '85~
New Zealand	9 7		3	9 7	3	N Z (D) 1 0 0
0	USA		i	USA	£1	,,,,,,,
Omam	100			100		, , ,
Dalitatan	ltaly	Ŭ	SA	Italy	USA	* '85~ Pakistan (I
Pakistan	58		4 2	9 5	5	100
Papua	Sydney	-		Sydney		* '85~ PNG(D)
New Guinea	100			100	٠	100
Philippines	Philippines	Hong Kong	Italy Swiss	Philippines (D)	Hong Kong	** RCA 48.45
- Intropines	7 2	2 3	5	9 5	- 5	ITT 22.80 ETPI23.75
Quatar	Swiss			Swiss	-	
	100			100		41.15.
Sandi Arabia	Italy	F	rance	Italy	France	* '85~
Sulmi Minuia	98		2	9 8	· 2 2	S A (D)
Singapore	Singapore (D)	Hons	Kong	Singapore (D)	Hong Kong	
o ingapore	8 7		1 3	9 5	5	- Enc. 1, 2,000
Sri Lanka	Italy	Sing	gapore	Italy	Singapore	* '85~
OII DANNA	90		10	9 5	5	Sri Lanka 100

Telex Traffic Distribution Ratio

(D): Direct Route

Syrian Arab	V 1, 574 F.	' Actura	l Ratio		Planned		rect Route
Syrian Arab Singapore A7 28 25 95 5 5	Country			oute			Remarks
Thailand Singapore Thailand QNA Thailand(D) Singapore 47 28 25 95 5		*	Fra	nce	Italy		
Thailand	Syrian Arab	·- ^ `- 9 9			100		
U.A.E.	4 '	Singapore	Thailan (D)	USA	Thailand (D)	Singapore	Ę
U.A.E. Swiss Italy Swiss Wiss Wiss U.A.E.D	1 na i and		28.	25	9 5	5	
Yemen 84 16 95 5 100 Yemen Arab Hong Kong Hong Kong <th< td=""><td>TI A G</td><td></td><td>Swi</td><td>ss</td><td>Italy</td><td>Swiss</td><td></td></th<>	TI A G		Swi	ss	Italy	Swiss	
Yemen 100 100 100 Yemen Arab Italy Italy Italy Taiwan (D) Singapore Taiwan (D) Singapore Austria 99 1 99 1 Austria 98 2 100 100 Belgium USA France Swiss USA France Belgium (D) Bulgaria France USA Swiss France USA Swiss Czechoslovak 79 21 80 20 20 Denmark 98 2 98 2 Denmark (D) 1100 100 Finland USA Swiss France USA Swiss **85~ Denmark (D) 1100 <td< td=""><td>U. A. S.</td><td>8 4</td><td>1</td><td>6</td><td>9 5</td><td>5</td><td></td></td<>	U. A. S.	8 4	1	6	9 5	5	
Yemen Arab	Vomon	Hong Kong		,	Hong Kong	,	1 4
Yemen Arab	1 etticii	_ 100	į, ·		100	,	l <u>-</u>
Taiwan (D) Singapore Taiwan (D) Singpore 99	9e	Italy	1 s	-	Italy	, ,	'
Taiwan (b) Singapore Taiwan (c) Singapore 99 1 99 1 1 1 1 1 1	Yemen Arab	100			100		
Austria (D) Singapore Austria (D) Belgium USA France Swiss USA France Belgium (D) 44 35 21 95 5 Belgium (D) France USA Swiss France USA USA Swiss USA Swiss Czechoslovak 79 21 80 20 Italy France USA Italy France Denmark (D) 98 2 98 2 100 Finland USA Swiss France USA Italy France USA Swiss USA France USA Swiss USA France USA Swiss USA France USA Swiss USA France USA Swiss USA Germany (West) Germany (West) France USA Swiss France USA Swiss inland (D) 100 France USA Swiss France USA Swiss Finland (D) 100 France USA Swiss France USA Swiss France (D) France USA Swiss USA Swiss Swiss Swiss France USA Swiss France (D) France USA Swiss USA Swiss USA Swiss France USA Swiss France USA Swiss France USA Swiss France (D) France USA Swiss USA Swiss USA Swiss France USA Swiss France USA Swiss France USA Swiss France USA Swiss France USA Swiss France USA Swiss Swiss France USA Swiss France USA Swiss France USA Swiss France USA Swiss France USA Swiss France USA Swiss France USA Swiss France USA Swiss France USA Swiss France USA Swiss Swiss WSA Swiss Swiss WSA S		Tajwan (D)	Singa	pore	Taiwan (D)	Singpore	
Austria	Taiwan	.99,		ì	9 9	1, , ,	
Belgium	***	Austria (D)	Singa	pore	Austria(D)	,	· • 2:
Belgium Belgium (D) France USA Belgium (D) France USA Belgium (D) Bulgaria France USA Swiss France USA Swiss * '85~ Denmark (D) Czechoslovak 79 21 80 20 * '85~ Denmark (D) * '85~ Denmark (D) 100 * '85~ Denmark (D) 100 * '85~ Finland (D) 100 France (D) France (D) France (D) Italy France (D) Italy France (D) Italy France (D) Italy * '85~ Greece (D) France (D) Italy France (D) Italy France (D) Italy France (D) Italy France (D) I	Austria	98		2.,	100		
Heat	Belgium	USA	France	Swiss	USA	France	
Bulgaria 54 31 5 60 40 Czechoslovak USA Swiss 79 21 80 20 Denmark		4 4	3 5	2 1	9 5	5	100
Czechoslovak Czechoslovak	Bulgaria	France	USA	Swiss	France	USA	
Czechoslovak 79 21 80 20 Denmark France USA France Erance USA Swiss * '85~ Denmark (D) Denmark (D) 100 France USA Swiss * '87~ Finland (D) France Denmark		5 4	3 1	- 5	60	40	
Tell France SA Italy France France France SA Swiss France USA Swiss France USA Swiss France USA Swiss France USA Swiss France Swiss France SA Swiss France Finland (D) Sa Swiss France France Sa Swiss France Sa Swiss France Sa Swiss France Sa Swiss France Finland (D) Sa Swiss France Finland (D) Sa Swiss France Sa Swiss France Finland (D) Sa Swiss France Sa Swiss France Sa Swiss France Finland (D) Sa Swiss France Swiss France Sa Swiss France France Swiss France	Crachestonak	USA	Swi	iss	USA	Swiss	÷
Denmark 98 2 98 2 Denmark (D)	C Zechos Idvak	7 9	- 2	1	8 0		
98 2 98 2 100	Donmonte?	Italy_	France	USA	Italy	France	* '85~
Finland USA Swiss France USA Swiss * '87~ Finland (D)	Démisi K	98		2	98	2	100
		USA	Swiss	France	USA	Swiss	
France 99 1 100 Germany (West) Germany (D) Italy Germany (D) Italy 99 1 99 1 Greece Italy France Italy * '85~ Greece Greece (D)		43	3 0	2 7	9 5 -	5	
99 1 100	France : ('	France (D)	Ita	ly	France (D)		
Germany (West) Germany (D) Italy Germany (D) Italy 99 1 France Italy France Greece Italy France Greece (D)		9 9		1 :	100		
Greece Italy France Italy 4 85~ Greece Greece (D)	i	Germany (D)	Ita	ly.	Germany (D)	Italy	
Greece (D)	- · ·	99.	~ 7,1	1	9 9	1 .	
	Greece	France	Ita	ly.	France	Italy	
	Greece 34.	5 5	- 4	5 ,	95	. 5	

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Telex Traffic Distribution Ratio

(D): Direct Route

	Actura	1 Ratio	,	Planned	Ratio	Remarks
Country	1st Route	2nd	Route	1st Route	2nd Route	t's so
	France	Swiss	,	France	Swiss	*188- Hungary(D)
Hungary	51		49	95	5	Hungary(D) 100
	Italy			Italy		, .
Iceland	100			100		
Ireland	USA		France	USA	Swiss 5	
	37	35	28	95		
	Italy(D)	France		Italy(D)	France	1
Italy	98		2	98	2	
	USA	Swiss		USA	Swiss	
Luxembourg	57		43	60	20	
Netherlands	Nether- lands(D)	Italy		Nether- lands	Italy	
	99		1	99	1	
Manuay	USA	Swiss	France	บรล	SWISS	* '85- Norway(D)
Norway	42	31	27	95	5	100
D41	Italy	Franc	e	Italy		
Portuga1	99		1	100		1
Roumania	Italy	Franc	e	Italy	France	*'85- Roumania(D)
Noumania	98		2	98	2	100
Crain	Swiss	Franc	e USA	Spain(D)		a same
Spain	71		29	100		
Sweden	France	Swis	5	France	Swiss	*185-
Sweden	79		21	95	5	Sweden(D) 100
Switzerland	Italy	USA		Switzerland (D)		
	67		2	100		-
Turkov	Italy	Fran	ce/USA	Italy	France	*185-
Turkey	99		1	98	2	Turkey(D) 100
ll c c p	USA			USA	*, 5	*188-
U.S.S.R.	100			100		USSR(D) 100
United	UK(D)	Italy	France	UK(D)	Italy	
Kingdom	72		28	95	- 5	

Telex Traffic Distribution Ratio (based on ITU TELEX 1980)

(D): Direct Route

· ·	I		 		Treet Route
Country	Actura	I Ratio	Planne	d Ratio	
,	1st Route	2nd Route	1st Route	2nd Route	Remarks
Yugoslavia	Italy	France/USA	Italy	France	* '85~
1 "-	9 8	2	9 8	2	Yugoslavia(D)
Canada 2	USA		Canada (D)		
Outridad , 2 %	. 100		100		j ,
U. S. A.	USA	Italy Sydney Singapore	USA(D)	Australia	** RCA 19.95
,	9 5	5	9 5	5	ITT 4940 WUI 25.65
Hawa i i	USA		USA		* '85~
*	100		100	*.	Hawaii (D) 100
Guam	USA	-	USA		
	100	•	100		,
Bahamas	USA		USA	· · ·	
	1 0 0		1 0 0		
Bermuda	USA		USA		
_ 5.maaa	, 100		100		1

NOTE 347.1 57.4 18.2 17 6 105. 12163 745. Š 83 2000 22 ij 75 89 g 1413. 4 1360.3 11895, 8 17.8 17.2 70.7 22.5 62 7 103 Ŕ 729. 56 ន 1999 20 66. 10001 1144.3 0 5 47.2 19.4 17.2 613.3 59, 4 56.1 59.4 18.9 . 86. 1188 . 285, 1994 52. 67.8 7848 5 တ 895. 930. 0661 480. 46. 33 £ Ĉ. 201. 4 807.2 61, 1 838.6 7070.7 432. 6 33.3 37.2 39 1989 179.9 54.6 6314.5 643 35.3 1988 720. 7.48. 62 386 33 33 5586. 2 48,3 159.1 8 31, 3 662. 26 1987 341 139.0 557.0 42.2 578.7 27.3 1986 298 3 120.3 19.9482.3 ç, 1225. 258. ဗ္ဗ 501, 23 3611.0 53 Q, 1984 128 220. 3086.3 1983 188. 366. Zealand South Africa Malaysia 👾 E thiopia Korea D Bahraın Brazil Mexico K uwa i t J ordan Egypt Korea Japan Kenya India New Iran

Telex by Country

ĿΪ NOT 1824.3 757.0 669.8 5255, 4 288. 1 123 170. 100 22531. 151. 116. 230. 79 563 6 98.4 519.0 167.1 77.9 5139.6 1999 22035. 740. 147. 215. 655, 1 120. 1784 298 281 227.2 18536. 8 101. 1 237.0 436.6 140.5 1994 82 4323. 1500 622 124 181. 65, 96. 251. 551 371.2 14513.3 1175.0 97.4 .1990 79. 185. 64. 142. 196. 51 75, 487. 433 160.2 13074.9 87.8 177. 1 œ 1989 167. 308. 1058. 58. 71. 99. 128 388 16 29 945, 4 78.4 114.4 Ø 347, 1 C 1988 275.0 11676 52. 392. 88 B 158 4 2723. 8 10329, 8 347.0 m 78.3 69, 3 8 307.1 2409.4 6 1987 264. 126. 132. 139. 46. 9 836. 243 36 101. 33 230.8 49.2 ល ۵. S 115. 40. 68 212. 9023. 303. 60, 730. 88 268 2104 46. 122 184.0 105.8 199. 59 34. 42 7813 1822. 262. 52. 632. 76. 232. 40 81.8 85.4 224.3 D 6679, 540. .. 170 65, 1557 69, 9 5709.3 331.2 1983 146 191, 55. 462 Papua New Guinea Saudi Arabia ETPI Sri Lanka Singapore **Thailand** Belgium Austria Denmark Taiwan Finland Greece

5 - 12 Cen .

Country

by

Telex

[L] NOTE 586.8 6867.4 32.4 131.0 72.2 3566.3 329 254 201. 89 72.6 6716.0 97.7 31.7 128.1 70.7 196.8 o 573. 6661 248. 352 (3487 99 61.1 5649.7 26.7 296.1 165, 5 59, 4 2934.0 1994 82. 482 209. 107 29 47.8 231.8 Q, ເດ 43, 9 129.6 46.5 164.0 2297.1 377 4423, 1990 쭃. 8 64 43.1 28 0 18.8 2069, 5 41.9 208.8 76.0 3985, 1 ı, 116 8 147.7 1989 340 39 51.8 67.9 131.9 35.3 1848.1 37.4 186. 3558. 304 38. 16 104 92. 2 165.0 45.8 269.0 116.7 1635.0 33. 1 1987 3148. 9 34 1428 1 28.9 144.1 40.0 235.0 29.7 ß 1986 2750 ਲੁ 101 52 124.8 2381. 4 1236.6 45, 4 203, 5 69.8 88.3 25, 1 34.7 2035.2 173, 9 00 75.4 1984 1056.8 1739.5 വ 9 1983 79 48 United Kingdom Netherland Yugoslavia Roumania H unga ry U. S. S. R. Sweden Canada Norway H awa i i Turkey Spain

Country

by

Telex

7											
í	NOTE		21.%	52 %	27 %	* * * *	1 9			: 1	
	2000	10412 5	218 <u>6</u> . 6	5414.5	2811. 4	14,	3826. 3	3177.1	3216.0	7761.8	2457. 4
•	1999	10182.6	2138.3	5295.0	2749.3	*****	3742.0	3093. 2	3145,2	7590.7	2402.8
	1994;	8565.3	1798.7	4454.0	2312. 6	***	3147.8	2600.9	2645.7	6385,4	2450.2
	1990	9 1229	1411. 5	3495.2	1814.8		2464.7	2037.3	2071. 6	4999, 4	1620.3
,	1989	6055.4	. 1271. 6	. 3148.8	1635.0	· .	2218.5	1835.3	1866.2	4504.3	1459.8
	1988	5406.5	, 1135, 4	2811. 4	1459.7	1	1982.7	, 1632. 6	1666.2	4021.9	1334. 3
-	1987	4802.6	1008.5	2497, 4	1296.7	, ., .	1754.3	1454.7	1504. 5	3558. 5	1246. 9
ļ	1986	4224.3	887 1.	2196.6	1140.6		1532.3	1268.9	1313.7	3108.1	1087.9
,	1985	3657 5	768.1	1901:9	987.5		1326 7	1096. 6	1137 3	2691. 3	942
	1984	3395.8	713.1	1765.8	916, 9	,	1270. 1	958.0	1122.8	2300.0	1692.3
,	1983	2902. 5	609.5	1509.3	7.83.7	,	1085, 4	818.8	959.7	1966. 0	1446.2
,		*	;	- d		- E	,			ž	•
, , , , , , , , , , , , , , , , , , , ,	To after the	. U. S .A . T	R C A	ITT	. I n m		Australia	Switzerland	France	Hong Kong	I taly

Telev Traffic by Country and by Gateway

	, -				-				-	Upper: Busy H Lower: Annual		our Erlang paid minutes
Circuit		1983	1984	1985	1986	1987	1988	1 989	1990	1994	1999	2000
	Indonesia		es	3 48	4	4, 55	5.12	5.7	6.25	7.84	16 6	0 41
	total	188.8	220. 9	258 5	298. 5	341.8	386 3	432 6	480.2	6133	729	745 4
India	Jakarta		2 77	3 18	3 62	4.07	4.53	4.99	5 42		7 58	7 60
			205 4	237 8	271.6	307. 6	343.8	380.7	417.8	521 3		
	Medan		0. 23	0.3	0.38	0 48	0, 59	0.71	0.83	1.2	1, 61	1, 72
			15.5	20.7	26.9	34.2	42.5	51.9	62.4	26	127. 6	134.2
	Indonesia		48.98	56 9	65.41	74,38	83 66	93 24	102.11	127.96	150.37	153 54
-	force	3086.3	3611	4225 2	4879 5	5586.2	6314.5	7070, 7	7848 5	10001	11895 8	12163 8
Japan	Jakarta		45, 28	52.05	59, 17	66.55	74 01	81.56	88 57	108.44	123 68	
			3358.2	3887 2	4440.3	5027. 6	5619.9	6222.2	6828 2	8506	9814	9974.3
	Medan		3.69	4.86	6 24	7. 83	9,64	11 68	13 54	19. 52	26.7	28 02
			252.8	338	439.2	558.6	694.6	848 5	1020.3	15011	2081.8	2189, 5
	Indonesia	4.96	5.81	6.75	2. 76	8.82	9.92	11 06	12.11	15.2	17.87	18.24
	total	366	428.3	501.2	578.7	662.6	748 9	838.6	930.9	1188.9	1413.4	1445.2
Malaysia	Jakarta	-	28.5	6 17	7.02	2.89	8.78	9.67	10.51	12.88	14.69	14.91
			398.3	461.1	526 6	596.3	66 6. 5	738	809.9	1010 6	1166.1	1185.1
	Medan	,	0.44	0 58	0.74	0.93	1.14	1,38	1.61	2.32	3 17	. 3.33
٧.			30	40.1	52.1	66.3	82.4	100.6	121	178.3	247. 3	260.1
	Indonesia	1.98	2.32	2. 69	3.09	3.52	3.96	4.41	4.83	90 9	7.12	7.27
į.	total	146	170.8	199.8	230, 8	264.2	298.7	334.4	371.2	474 1	563.6	576.2
. Tues	Jakarta	<u> </u>		2.46	2.8	3.15	3.5	3.86	4:19	. 5.14	5.86	.5.95
<		Company on the Manager	The Union Service	183 8	210	237.8	265 8	294.3	322.9	403	465	472.5
, 	Medan			0.23	0 29	0.37	0.46	0.55	0.64	0.92	1.26	1.33
				16	20.8	26 4	32.9	40.1	48 3	71.1	98,6	103.7

				-						,		
Circuit	Gateway	1983	1 984	1985,	1986	1987	1988;	1 989	1990	1994	1999	2000 >.
· · · · ·	Indonesia	0.95	1.11	17. 1.29	1.48	1. 69	19	2.11	2.31	2.91	3 41	. 3.49
* * - 1	total	69.69	81.8	95.7	110.6	126.6	1431	160.2	177.9	227.2	270	276.1
Philippines	Takarta	*.			1 1 1 1	·	1.68	-1.85	2.01	2.46	2.81	~ 2.85
ITT	, , , , ,	, ,	,	,		,	127. 4	141	154.8	193.1	222.7	226.4
	Medan		-	, ++	1 4 2	-	0.22	0.26	0.31	0 44	î 0.61	² 0.64
				,	, ,	~	15.7	19.2	23.1 $^\circ$	34.1	47.3	49.7
ं कार	Indonesia	66'0	91.16	1.35	1.55	2.1.76	1.98	2.2	2.41	3, 03	3 56	3.64
-* : \}	total	ಜ	85 4	99, 9	115.4	132.1	149 3	167.2	185.6	237	281.8	288.1
Philippines	Takarta	-	-				1. 75	1.93	2.09	2.57	-2.93	2.97
ETPI	•		~	^ ,	, .	*	132.9	147.1	161.5	201 4	232.5	236.2
	Medan				-		0 23	0.28	0.32	0 46	0.63	0 66
				7	3	*	16.4	20 1	24.1	35, 6	49.3	51.9
(E) 1'	Indonesia	77.43	90.58	105.23	120.96	137. 54	154.7	172.43	188 82	237 03	278 54	284.41
	total	5709.3	6679	1813 1	9023 1	10329 8	11676 7	13074.9	14513 3	18536.8	22035 2	22531.6
Singpore	Takarta	* (83.75	96.24	109.42	123.06	136.86	150.83	163.78	200.87	229.09	232.49
			6212.3	7188.1	8211	9296.8	10392.3	11505 9	12626.6	15756.3	18179	18475.9
	Medan		6.83	8.98	11. 53	14 48	17.83	21.6	.25.04	36 16	49.45	51.91
			467.6	625	812 1	1033	1284. 4	1569	1886. 7	2780.5	3856.2	4055 7
	Indonesia	9 2	3.04	3.53	4.06	4.62	5.2	5. 79	6.34	7. 96	9, 36	9 20
	total	191.7	224.3	262.5	303.1	347	392.3	439.2	487. 5	622. 7	740.2	757
Thailand	Laborta		2.81	3. 23	3 68	4.13	4.6	5 07	5,5	6.75	7.7	7.81
	n year f		208 6	241.5	275.8	312.3	349.1	386.5	424.1	529 3	610.7	620.7
-	игрејД		0.23	0.3	0.39	0.49	90	0. 73	18 0	1.21	1.66	1.74
±			15.7	21	27.3	34.7	43.2	52.7	63 4	93.4	129 5	136 3
										Appendix	4.5.1 - 7	7 (2)

E * SE * F F F SE

Cateway 1983 Lindonesia 6.27 Lotal 462 462 462 462 462 464 462 464 462 464 462 464 462 464 462 464 465 464 465 464 465 4	1984	1 985	1986	1 987	1988	1989	1 000	1004		
Indonesia Jakarta Medan Indonesia total Jakarta Medan Indonesia 24				_			2	765	1000	0000
I akarta Medan Indonesia total Jakarta Medan Indonesia 22 total 1333		8 52	62 6	11 14	12.52	13.96	15.29	10 10	500	2000
Jakarta Medan Indonesia total 5 Jakarta Medan Indonesia 2 total 1333	540 6	632.6	730.5	836.4	945 4	1058 6	1175	1500.7	22.55	23 03
Medan Indonesia total Jakarta Medan Indonesia 24	6 78	7. 79	8 86	96 '6	11,08	12 21	13.26	16.26	18 55	1024.3
Medan Indonesia total 5 Jakarta Medan Indonesia 24	502 8	582	664 8	752.8	841.4	931.6	1022.2	1275 6	1471 9	1495 0
Indonesia total 5 Jakarta Medan Indonesia 24 total 1333	0 55	0 73	0.93	1.17	1 44	1, 75	2.03	2.93		6 4 9
Indonesia 5 total 5 Jakarta Medan 22 Indonesia 22 total 1333	37.8	50.6	65.7	83 6	104	127	152.8	225.1	312.2	328.4
Jakarta Medan Indonesia total	1 1.18	1.37	1.58	1.8	2.02	2.25	2 47	3.1	3 64	3 72
Jakarta Medan Indonesia total	65.4	9 92	88.4	101.2	114.4	128.1	142 2	181.6		220 8
n esia	-								2.99	3 04
n esia	-			-	-		7		1 8 1	181.1
esia 13									0 65	0 68
esia 13									37.8	39.7
		32. 72	37. 62	42.77	48 11	53.62	58 72	73.71	86.62	88. 45
	1557. 5	1822.4	2104.5	2409.4	2723.6	3049.7	3385.1	4323.6	5139.6	5255.4
Jakarta		29.93	34.03	38 27	42.56	46 91	50 93	62 47	71.25	72.3
Cermany		1676.6	1915 1	2168 5	2424	2683.7	2945	3675.1	4240.2	4309.4
Medan		2. 79	3 29	4.5	5 55	6 72	62 '2	11.24	15 38	16.14
,		145 8	189.4	240.9	299 6	366	440.1	648.5	899. 4	946
Indonesia 16.33	19,11	22 21	25.53	29 03	32 65	36.39	39,85	50.02	58.78	60.02
total 903.3	1056.8	1236.6	1428.1	1635	1848.1	2069 5	2297. 1	2934	3487. 7	3566 3
Jakarta	-	20 31	:23.09	. 25. 97	28.88	31.83	34.56	42.39	48 35	49.07
		1137.7	1299.6	1471.5	1644.8	1821.2-	1998. 5	2493.9	2877. 4	2924.4
Medan		1.89	2.43	3.06	3.76	4.56	5.28	1.7.63	10.43	.10,95
		98.9	128.5	163.5	203.3	248.3	298,6	440.1	610.3	641.9

101.9 116.7 2.33 101.9 116.7 131.9 49.15 55.89 62.87 2750.1 3148.4 3558.9 44.47 50.01 55.62 2502.6 2833.6 3167.4 4.69 5.89 7.25 247.5 314.8 391.5 4.2 4.78 5.37 235 2.69 304.1	88.3 88.3 88.3 89.3 90.9 90.9 3.65 3.65
49.15 55.89 49.15 55.89 44.47 50.01 62.6 2833.6 3 4.69 5.89 47.5 314.8 635 269	
49.15 55.89 50.1 3148.4 35 4.69 5.89 6.89 7.8 7.5 314.8 7.8 7.5 314.8 7.8 7.5 269 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	
49.15 55.89 50.1 3148.4 36 44.47 50.01 4.69 5.89 47.5 314.8 4.2 4.78 35 269	
49.15 55.89 50.1 3148.4 44.47 50.01 62.6 2833.6 314.8 34.8 4.69 5.89 47.5 314.8 4.2 4.78 35 269 35 269	
49.15 55.89 50.1 3148.4 44.47 50.01 402.6 2833.6 4.69 5.89 47.5 314.8 4.2 4.78 4.2 4.78 35 269	
49.15 55.89 50.1 3148.4 38 44.47 50.01 3 46.6 2833.6 3 4.69 5.89 314.8 47.5 314.8 3 4.2 4.78 3 35 269 3	
50.1 3148.4 355 44.47 50.01 5 402.6 2833.6 316 4.69 5.89 39 47.5 314.8 39 4.2 4.78 30 35 269 30	
44.47 50.01 5 602.6 2833.6 316 4.69 5.89 39 47.5 314.8 39 4.2 4.78 30 35 269 30	
4.69 5.89 4.69 5.89 47.5 314.8 39 4.2 4.78 35 269 30	
4.69 5.89 39 47.5 314.8 39 4.2 4.78 35 269 30	
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4.2 4.78 35 269 30	2 2
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887.1 1008.5 1135.4	1.892
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Circuit	Gateway	1983	1984	1985	1986	1987	1988	1989	1990	1004	900	0000
	Indonesia	27.29	30 56	34.15	39.12	44.24	49.67	55 37	60 63	75.04	5661	2000
	total	1509 3	1765.8	1901.9	2196 6	2497. 4	2811.4	3148 8	3495 2	4454	5965	91.13
U.S.A	Jakarta											
	Medan										-	
	Indonesia	14.17	15.87	17. 73	20.31	22. 47	25.79	28, 75	31.48	39 43	46.34	47.00
	total	783 7	916.9	987. 5	1140.6	1296.7	1459 7	1635	1814.8	2312.6	2749.3	2811.4
WUT	Jakarta											
	Medan				-							
	Indonesia	14.72	16.23	17.87	20.54	23.36	26, 26	29, 27	32.07	40, 25	47. 3	48.3
	total	1085, 4	1270.1	1326 7	1532.3	1754.3	1982.7	2218.5	2464.7	3147 8	3742	3826 3
Australia	Jakarta	-	,			20.9	23. 23	25.6	27. 81	34.11	38.9	39.48
				-	•	1578 9	1764.6	1952 3	2144.3	2675.6	3087.1	3137.6
	Medan					2 46	3.03	3.67	4.25	6 14	8.4	8.81
+						175.4	218 1	266.2	320 4	472.2	654 9	688.7
	Indonesia	14.81	17.12	19, 71	22.7	25. 73	28.9	32.27	35.34	44.34	52.25	53.47
	total	818 8	826	1096.6	1268.9	1454.7	1632.6	1835.3	2037. 3	2600.9	3093.2	3177.1
	Jakarta	,	,	18.03	20.53	23.02	25. 57	28 23	30.65	37. 58	42.98	43.71
ş	3,7	7° 1	21	1008.9	1154.7	1309.2	1453	1615.1	1772.5	2210.8	2551.9	2605 2
	Medan		ie ie	1. 68	2.16	2.71	3,33	4.04	4. 69	92 9	9.28	9. 76
;	,	;	;	87.7	114.2	. 145.5	179 6"	220.2	264.8	390.1	541.3	571.9

								•	5 6 8		÷-	•
Circuit	Gateway	1983	1984	1985	1986	1987	1988	1989	1 990	1994	1999	≥000
3 34	Indonesia	17.35	18.83	20.42	23.48	26.42	29.44	32.81	35.94	45.11	.53. 01	.54.13
- <u>-</u>	total	959. 7	1122 8	1137.3	1313.7	1504.5	1666.2	1866.27	2071. 6	2645.7	3145.2	3216
France	Takarta			18.68	21.25	₹53.64	26.04	28.7	31.17	38.23	43 6	44.25
2 Tanks	Jahai 1a			1046.3	1195.5	1354	1482 9	1642.3	1802 3.	2248.8	2594 8	2637.1
	Moden			1. 74	2.21	2.78	3.39	4.11	4.76	88 9	: 9.41	9.88
	THE PARTY			91	118.2	150.5	183.3	223.9	269.3	396.9	550.4	578.9
	Indonesia	26, 66	31.2	36, 25	41.67	47.38	53.29	59.4	65 04	81.65	95.95	97. 97
	total	1966	2300	2691.3	3108.1	3558. 5	4021.9	4504.3	4999. 4	6385. 4	7590.7	7761.8
Hong	et rede I		28.84	33.15	37. 69	42 39	47. 15	51.96	56. 42	69.19	78 92	80.09
kong	,		2139	2476	2828.4	3202.6	3579. 5	3963.8	4349, 5	5427, 6	6262.3	6364.7
,	acpopy		2.35	3.09	3.97	4.99	6.14	7. 44	8. 62	12.46	17.03	17 88
	W cardin		161	215.3	279.7	355.9	442.4	540. 5	649.9	957.8	1328.4	1397 1
	Indonesia	26.15	21 95	26 '91	19.46	21.51	23.28	25 67	28.11	41.77	40 5	41.36
	total	1446.2	1 692. 3	942	1087.9	1246.9	1334.3	1459.8	1620 3	2450.2	2402.8	2457. 4
2	1 akarta			15.47	17.6	19.25	20.6	22 45	24.38	35.4	33.31	33.81
	et munf			866.6	. 066	1122.2	1187.5	1284.6	1409, 7	2082.7	1982.3	2015.1
	переру			1.44	1.85	2.26	2. 68	3 21	3.73	6.37	7.19	7, 55
	MCCAIL			75.4	97.9	124.7	146.8	175.2	210.6	367. 5	420.5	442.3
,	Indonesia			0.42	0.49	0.55	0.62	0.7	0. 76	0.96	1.12	1.15
	total			23.6	27.3	31.3	35.3	39 6	43.9	56.1	66.7	68.2
Egypt	Jakarta					,		•,		;	7	
, 1	Medan	ŗ			¥ (, , , , , , , , , , , , , , , , , , ,	,	;) p		5	-
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Circuit	Gateway	1983	1 984	1982	1986	1987	1988	1 989	0661	1661	6661	2000
	Indonesia			0 27	0, 31	0.35	0.39	0.44	0 48	0.6	0.71	0 72
	total			19.9	23	26.3	29.7	33.3	37	47.2	56.1	57. 4
Iran	Jakarta			-	-		*			 _ =		*
1	Medan											
	Indonesia		.,	6.5	7. 47	8.49	9.55	. 10.64	.11.66	14.63	17.19	17.56
	total		-	482.3	557	637. 7	720.8	807.2	895.9	1144.3	1360.3	1390.9
Korea Rep	Jakarta			-				4				-
	Medan		*	1 4								
ē	Indonesia	·		- 0 49	0.57	0 64	0.72	0 81	0.88	1.11	1.3	1.33
ì	total			36 5	42.2	48 3	54.6	61.1	67.8	86.7	103	105.3
Kuwait	Jakarta		-								1.07	1.09
	-		7	-				*	•		85	86.3
	Medan					-	-			•	0.23	0.24
				,		,				*	18	19
	Indonesia	!		1.62	1.86	2.12	2.38	2.66	2.91	3, 65	, 4.29	. 4.38
	total			120.3,	139 ,	1591	179.9	201.4	223. 5	285. 5	339.4	347. j
New	Iskarts	i.		,	, ,	6.17	1.2.11	2.32	. 2.52	< 13.09	82.53	3.58
Zealand) and to	، ک در	** **	1.1	7 , 1,1 1,1	143.2	160.1.	177.2	194,4	242.7	280	284.6
	Medan		**	-	_	. 0.22	0.27	0.33	0.39	0 26	0.75	0.8
					,	15.9	19.8	24.2	29.1	42.8	59.4	62.5

definitional about the first the state of th		***	*		, ,		1	6 34.4 · · ·	1 may 1 may 1 may 2 may			
Circuit	Gateway	1983	1984	1985	1986	1987	1988	1989	1990	1994	1999	2000
	Indonesia	; r ;	,	0.47	0.54	0, 61	0.69	77 0	0.84	1.06	1.24	1.27
, g, t, g, 1	total			34.9	40.3	46.1	52 1	58.4	, 5 64.8	82.8	98 4	100.6
Pakistan	Lakarta			, ""		7.7		- F			11.02	1,04
	, i			م ن	,	٠	1 5, 1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. *	37	81,2	. 82.5
; ; ;	Medan									-	0 22	.0 23
								,	,	- 0-	17.2.	181
1	Indonesia			0.57	99 0	0.75	0.84	0.94	1.03	1.29	1.52	1.55
	total			426	49.2	56 3	63.7	71.3	79. 2	101.15	120.2	122 9
Papua	Takarta		-	-	,-	**	,	7	•		,	j.
New	5 , 36 or				, n.	,		-		,		
cu mea	Medan							-		ę		
	•						,	,,	·		1	
	Indonesia	\$		2.48	2.85	3.24	3.64	4.06	4, 45	5. 58	6.56	6.7
	total			184	212.5	243 3	275	308	341.8	436. 6	519	530 7
Saudi	Jakarta				2.58	2.9	3.22	- 3 55	3 86	4.73	5.4	5 48
Arabia	21 1212			•	193 4	219	244.7	271	297. 4	371.1	428.2	435.2
	Medan			*	0 27	0.34	0 42	0.51	0 59	0 85	1.16	1.22
					19.1	24.3	30, 3	37	44,4	65.5	90.8	95, 5
	Indonesia	,		0.8	0.92	1.04	1.17	1.31	1 43	1.8	2 11	2 16
	tota]			59.2	68 4	78.3	88 5	99.1	110	140.5	167.1	170.8
	I about 40				1.	,				1. 52	1,74	1 76
Lanka	James ta				-		;			119.4	137. 9	140 1
· .	Moder			-		_	,	-		0.27	0.37	0,39
· 3	Medan				- k		î		•	21.1	2.62	30.7

;		-							,	,	7	,
Circuit	Gateway	1983	1984	1985	1986	1987	1 988	1989	1990	1994	1999	2000
-	Indonesia			12 0	0.81	0 92	1.04	1 16	1.27	1. 59	.1.87	1.91
F	total			52.4	60.6	69.3	78 4	87.8	97. 4	124 4	147.9	151.2
U. A. E.	Jakarta									1.35	1.54	1.56
	,						,			105.7	122	124
	Medan							,		0.24	0, 33	0.35
										18.7	25 9	27.2
-	Indonesia			4. 17	4.79	5.45	.6.13	6 83	7. 48	9.39	11.04	11.27
	total		-	232.3	268.2	307. 1	347.1	388 7	431.4	551	655.1	669.8
Belgium	Jakarta						5 42	5, 98	6 49	2. 96	90.6	9.22
	-			-			308.9	342 1	3753	468 3	540.5	549.2
	Medan						0 71	98 0	66 '0	1.43	1.96	2 06
							38.2	46.6	56.1	82.7	114.6	120.6
	Indonesia			1.9	2 18	2 48	2.79	3.11	3.41	4 28	5.03	5.14
	total			105.8	122.2	139.9	158.2	177.1	196.6	251.1	298.5	305.2
Denmark	Jakarta			• .	~	•				3 63	4.14	4.2
ı.	- "			,						213 4	246.3	250 3
-	Medan					·				0.65	68 '0 '	0.94
ŧ							rieri			37. 7	52.2	54.9
- - - -	Indonesia			0.73	0.81	0 95	1.07	1.19	1.3	1.64	: 1.92	1 97
	total	-		40 5	46.8	53.6	60 5	67.8	75. 2	96.1	114.2,	1168
Greece	Jakarta			Ş	¥ 7 Y	, ~				,	* *	
	18 Feb. 18 1			-	4.43	÷	-		, ,	,		ř.
,,	Medan	42.4	* 2 3	and the second	· · · · · · · · · · · · · · · · · · ·	***************************************		• •	, ,	* ,	* - 1	
		-										

Circuit	Gateway	1983	1984	1985	1986	1987	1988	1989	1990	1994	1999	2000
	Indonesia			1.25	1.44	1.64	1.84	2.05	2.25	2.82	3.32	3, 39
~; ;	total			69.8	80.6	92.2	104 3	116.8	129.6	165.5	196.8	201.2
	Tolograph	ì			- (1	-11	27 2 31	, ,		, , ,	2 77
Ivoi way	Jakarta					,			, ,		4-3 -	165
		•		***		,		\$	a :	s	2 1 5	0.62
	Medan					•				-		36.2
	Indonesia	-		0.45	0,52	0.59	0.66	0.74	18 '0	1.01	1.19	1.22
	total			25.1	28.9	33.1	37. 4	41.9	46.5	59.4	70.7	72.2
Ponmania	Takarta			,		,	. , ,			_		· .
	, J. and L.					,						•
1	Medan				a							
,	Indonesia			2.24	2.58	2.93	3.29	3 67	4.02	5.05	5.93	90 9
-	total	****		124.8	144.1	165	186 5	208 8	231.8	296.1	352	359.9
-	-					٠		-		.4 28	4.88	4 95
Sweden	Jakarta			<u>.</u>	·					251 7	290.4	295.1
										0.77	1.05	1.11
	Medan								-	44.4	61.6	64.8
	Indonesia			0. 61	0.7	0.8	0.9	_	1.1	1.38	1.62	1.65
='	total			45.4	52.5	60.1	62.9	76	84.4	107.8	128 1	131
Turkey	Jakarta		,		-	,		•	·*	-	:	
	-			-			ı	-	,			
	Medan		-		~			\$. ,	•		

11.5 11.7 · 12.8 · 15.8

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Circuit	Gateway	1983	1984	1985	1986	1 987	1988	1989	1990	1994	1999	2000
 	Indonesia			0.62	0.71	0.81	0.91	1.02	1.12	1.4	1.64	1.68
	total			34.7	40	45,8	51.8	58	64.4	82 2	97.2	99.9
Yugoslavia	Jakarta								 		,	
	Medan											
	Indonesia			0.46	0 53	0.6	0.68	0.76	0.83	1 04	1.22	1.25
	total		i	25 8	29.7	34.1	38,5	43.1	47.8	61.1	72.6	74.3
Hawaiı	Jakarta											
	Medan											:
	Indonesia					0 65	0.73	0.81	0 89	1.12	1, 31	1.34
,	total					36.5	41.3	46.2	513	65. 5	77. 9	79.7
Finland	Jakurta			:							•	
:	Medan			-								<i>s</i>
, , , , , , , , , , , , , , , , , , ,	Indonesia total				-		0. é6 ⁷ 37. 4	0.74	0.81	1.01	1,19	1.22
		,				,			-1 -1		-	
,	Jakarta				,	,	, -			ŕ		ř
	Medan		3	,		3. 3. 4. 4. 5. 4. 5. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	**	,	ender were		. ,	

Circuit	Gateway	1983	1984	1985	9861	1987	1 988	1989	1990	1994	1999	2000
1 3 20 20 1	Indonesia						0, 66	0.74	0 81	1.01	1.19	
	total	•	¢	•	:		37. 4	41.9	46.5	59.4	70.7	72.2
Mexico	Jakarta	,	ī	,		,	÷ ;			5	3.	
7	Medan	1 2 3	,						,	*	,	1
	Indonesia						0,62	0.7	92 0	0.96	1.12	1.15
	total	,			,		. 35.3	. 39.6	43.9	56.1	56.7	68.2
Hungary	Jakarta		•		······································	-					•	
	Medan					,				,		
5 5 3 3	Indonesia						0.3	0, 33	0.36	0.46	0.53	0, 55
- >	total						16.8	18.8	20.9	26 7	31.7	32.4
USSR	Jakarta		;									
	Medan											
	Indonesia							0.65	0.72	6.0	1.06	1.08
Ethiopia	Jakarta							7 10	Cit	0 1	3	
- <u> </u>	Medan			-					- 1			

and the transfer

÷:		Ì									}	
Circuit	Gateway	1983	1981	1985	1986	1987	1988	1 989	1990	1994	1999	2000
	Indonesia									0.32	88 0	0.39
	total		1	,						18.9	22.5	23
Kenya	Jakarta											
	Medan											
	Indonesia									0.22	0.26	0.26
 !	total							1		17.2	20,5	20.9
Korea	Jákarta			-								
3	Medan							. ,			, -	,
	Indonesia	,							,	0.25	0.29	0.3
Jordan	Jakarta			-								
	Medan		,	7		-					,	
	Indonesia total										0 29	0.3
Sauth	Jakarta											
<u> </u>	Medan		;			,		7	,		,	, , ,
.,	Indonesia total	ž,		,			•.				0. 22	0 23
Bahrain	Jakarta		,	` ,		٠	The state of the s		, ,		,	. 2.
, , ,	Medan	\$ \$4 K	2 2 2 3 4 4 7 7	, , , , , , , , , , , , , , , , , , ,	وا ميد مد مد تا ا	in the state of th	1	, , ,			, † -	, ,

Assumed Concentration Ratio for Intarnational Telex

Circuit	Concentration Ratio (%)	- Circuit	Concentration Ratio (%)
E gypt 1	20 ″	U. A. E.	15
E thiopia:	20	Taiwan 🗸 🔭	.15
Kenya	20	Austria	20
S. Africa	. 20	Belgium	20
Brazil	20 .	Czechoslovakia	20
Mexico	20	Denmark	20
Australia	15	Finland	20
Bahrain	- · · 1. 15	France	20
D. P. R. Korea	15	Germany	.20
Hong Kong	. 15	Greece	20
India	15	Hungary	20
I ran for the property of	15	I taly	- 20
Japan , , , , , ,	15	Netherlands	20
Jordan	. 15	Norway	20
R. Korea	15	Roumania	20
Kuwait	15	Spain	20
Malaysia	15	Sweden	20
Newzealand	15	Switzerland	20
Pakistan ;	15	Ţurky	15
Papua New-Guinea	15	USSR	20
Philippines	15	U. K(, _	- 20
S audi A rabia	15	Yugoslavia	20
S ingapore	, 15	Canada	20
Sri Lanka	15	U. S. A'	20
T hai land	15	Hawaii	20
annual accordance to an action	-1	i9—	

Telex International Circuits

	1											
0 0	MDN	9	37	ω	យ	4	ぜ	63	φ΄	ъ.	4	
200	JKT	14	139	23	21	7	82	247	14	- 23	′ 60 *-	
	MDM	, c	36	œ	လ	`4.	4	9	g	66 } i	4.	
6 6	JKT	14	137	22	12	7	2	243	14	27	8	,
4	NOW	ra -	28	7	4	က	3	46	: 22	7	10.0	, (
, 6	JKT	12	123	20	, 1 1	-	7	215	. 13	24	8	,
0	MDN	4	21	5	4	က	3	34	4	9	(.''
) 6	JKT	111	101	17	6	9	9	178	11	21	2	
9	MDN	*	61	5	3	3	က	30	4	9	t	, ,
8	JKT	10	76	16	6	9	9	165	10	19	9	,
8	NON	т	91	10	, æ	73	83	98	n	ເດ , ,	(1)	,
8	JKT	10	86	15	80	9 .	9	150	a ,	18	9	(
	NOM	m	4	4	m (1	1	22	က်	מע	. 1	}
8 7	JKT	6	78	14	8	9	9	136	6	17	, 9	()" .
9	MDN	m	12	4	3	1	ı	19	m	4	1	
80	JKT	æ	11	13	t~	ស	r.	123	6	15	rð.	3.7
5	NON	n	의	ო	m	1	1	15	8	4	1	
8	JKT	80	63	12	.	:10	ıç	109	8	14	ĸ	
4	NON	87	6	5.0	1	1		12	m	ю	,,,, ;	,
8	JKT	c	29	11	E+ .	ري ر	157	- 8	4	13	ις,	
3	MDN	1	1	1	1	1	1		ı	36 4 5 27 -	1	,
82	JKT	2	52	10	9	4	4	8	-	112	4	,
1					<	H		V			. 3	
•	٠. ا				oines R C	H	E T P	, a		-	J 740	: .
		I ndia	apan	Malaysia	Philippines	 		Singapore	T hailand	T a iwan	Austria	
	_	I n	ੈ ਲ •	Ma	다			8	H H	E E	A u	~~~

	0.0 0.0	MDN	24	. 18	4	30	-	_	_	1	15	16	
•	2.0	JKT	84	09	8	108	17	47	104	58	20	33	
	· g	MDN	. 23	71	4	29	_	_		l	15	16	
	, б	JKT	83	. 59	, xo	106	16	46	102	57	49	53	
	4.	MDN	18	14	· 11.	22	1.	ı	I	ı	12	13	
;	6.	JKT	, <u>7</u> 4	53	Ćα	94	15	40	88	50	44	48	
, ,	0	MDN	14	11 ,	J	17	I'	l	Î	_	6	01	-
*	6	JKT	. 62	. 4		78	12	33	72	41	37	8	
	6, 1	MDN	, 13	OT ,	1	15	1 *		ı	1	6	5	
, , -	8	jkT	. 58	41	7	73	12	31	67	38	35	37	
3 - 4	∞.	NDN	Ĭ1,	6	^ {	13	l 	1	I	l	∞	∞	
	8	JKT	53	38	2	<i>L</i> 9	11,	28	61	32	32	35	
(r	L:	MDN	01	, 8	1	12	ļ	1	`		2	-	
	8	JKT	48	35	9	19	10	26	55	32	29	32	
	9	MDN	8	L	1	01	, I	1	- I	i	-	9	
• ;	8	JKT	44	32	ý		6	24	49	62	59	29	
	5	NŒN	7	9	i	6	I	l	1	l	1	9	
	8	JKT	39	62	5	49	6	21	14	26	26	26	-
<u>;</u>	8 .4	NDN	4	<u>;</u>]	!	1	15	1	, I	•1	<u> </u>		
Circuits	8	JKT	37	LZ	Ü	47	8	20	40	24	24	. 25	
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ional	8	JKT	33	, 24 ,	rg.	41	7	18	36	22	22	22	_
Telex International	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Manager Methods on the Allendam	West Germany	Netherlands	Spain	United Kingdom	Canada	UŞA RCA	LLI	110M	Australia	Swiss	

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1 14 MDN JKT MDN JKT MDN JKT MDN JKT MDN 26 1,1 2000 ∞′ (1) . 56 ß 44 ୍ଷ 22 1 ; 7 1 1 1 13 36 25 6 4, ໌ ເລີ ຸ້ œ 4 Ş2, ß G 5 5 91 1 2 ; 1 , m 1 ī 12 133 23 9 4 ் ம் 4 603 8 5 48 81 13 I, ı ŧ ţ 6 15 9 ş N ന 61 41 89 33 1 ì -} 6 92 ļ 1 7 JKT œ 4 3 38 11 63 31 ໌ຕາ <u>, 1</u> 1 1 MDN JKT MDN ľ i œ 12 £-œ 4 က . 9 4 91 35 28 23 , | , ì ì 1 ۲-9 ì 1 2 10 œ MDN JKT MDN JKT 작 · 4 n m 32 23 23 55 9 6 9 ŧ 1 ı 1 Ľ 8 60 . | 9 w , 4 48 14 33 56 9 8 ŝ ī ī 1 ī } 1 œ JKT 43 3 m w (m) 27 23 12 JKT MDN JKT MDN 1 7 1 3 œ 38 31 27 , 1 T 7 8 ស្ល 36 32 Zealand Papua, New Guinea Hong Kong Pakistan 굨 France Kuwait Italy Egypt Korea I ran New

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International Circuits

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		6	JKT	, ct	က	ດ	14	6	2	Ž	4	6	- CJ	
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	ì 1	ω,	MDN	'n	; [4	1	Į	:	: "	1,		
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·	, L	8	MDN	. [j†		 	1		1	1	. 9	4 _	
,			JKT		, , 4	¥ ,	6	9	4	, m	, ,			
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, , ,	T GLEX I DECIDATIONAL TO THE TANK TO THE TANK TH		2	Saudi Arabia	Sri Lanka?	U A E	Belgium	Denmark	Greece	Norway	Roumania	Sweden	Turkey	,
3	1		1	100	02	יב יב	<u> </u>			, 64 5			<u> </u>	

Street Street

1 MDN 2000 3 10 rz. JKT ø 7 MDN 1 -٦ ٦ 1 4 1 1 ı JKT | ī ß LJ. ιΩ ıO i: MDN ţ 1 ı ŀ 1 -1 I , | ı 9 **6** 'n JKT י לגו η. JKT MDN 1 1, 1 ŧ i 1 1 7 4 , m សា NDN ļ 1 1 1 1 1 1 ç ന JKT MDN JKT ¥ ١ ٠٠ 1 i JKT MDN <u>-</u> 1 ı t œ 4 m JKT MDN 1 ı , 🚉 , ဖ -, *,-* * * က JKT | MDN | JKT | MDN | JKT | MDN re j Ì ĺ œ 27 . . . , <u>, '</u> ന ougoslavia Korea D. P. R. Ethiopia Finland Brazil Hawaiı Mexico USSR Kenya

Telex International Circuits

Telex International Circuits

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1 1 1 2 1 1 2 2	JKT MDN		JKT	MDN .	JKT	NOW	JKT	MDN	JKT	MDN	JKT MDN		JKT	MDN	JKT	NON		JKT MDN	JKŢ	NON	JĶT	MDN
Jordan	. * ?	a R	, , ,	:	- :	· · · · ·		<u> </u>	1		* ** *** ** **		s .	2			. t	1º	es .	-1	E	- 10 -
South Africa 35						, , , , , , , , , , , , , , , , , , ,	,	,	,	,	,			i	* ' \$	-,	., .	,	. 3	1	3	1
Bahrain	* * * * * * * * * * * * * * * * * * *	,		·				,	,		,	:				_	-	*	23	i I	, , , ,	1.
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Grand Total	522	1	565	- 04	694		768	103	841	126	933	152 1	1012	174	1080	189	1292	258	1445	333	1471	350

9.6 K bps/cct Remarks $\frac{At + At + 1}{2 \times 250}$ D× 512 60×60 $B \times 0.3$ $c \times \frac{10}{6}$ 02: 5.5. 664.2 2,802 9, 341 . 4, 670 2,085 2000 534.0 99 2, 253 7, 510 - 3, 755 1,670 1999178.5 19. 753 1, 255 2, 511 558 1994 73. 7 518 311 1,067 227 1990 54 5 766 230 383 156 1989 - 292 37.3 524 157 106 1988 . 172 24.5 342 ß 103 1987 14.6 1986 208 103 39 82 6. 1 1985 98 5 ጲ busy hour traffic E busy hour traffic D Busy Hour Traffic Required Segments at Ф (103 segments) C (10° segments) A (Kbps) to handle Required Number Yеаг Required Speed Annual Traffic Daily Traffic (103 segments) (103)to handle at year end of Circuits year end

Circuits for Packet Switching Service

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Required Number

Packet Switching Service Circuit Expansion

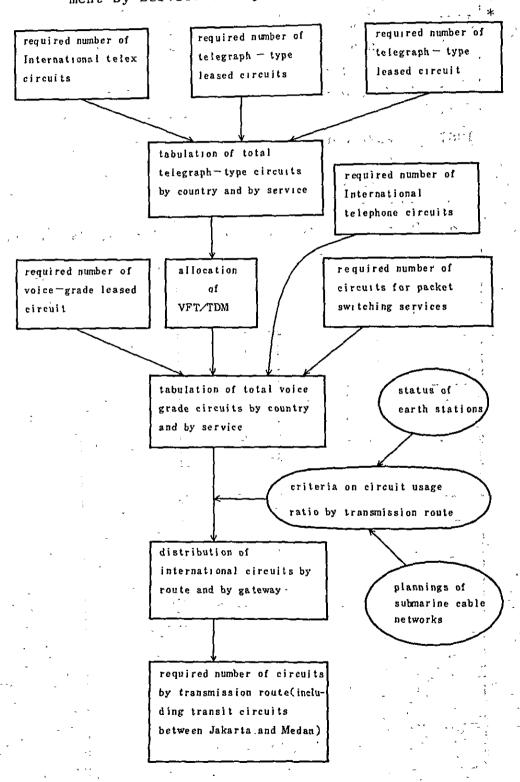
And the second second second second second second

Singapore
United Kingdom
United States of America (3 IRC s)

1987 West Germany
France
Australia

1990-Increase in the number of circuits for the above destinations and addition of destinations.

(Tabulation of International Circuit Planning ment by Service and by Transmission Route)



C	h	A	n	n	^	4	

Country	83	84	85	86	87	88	89	90	94	99 14	2000
Hong Kong	1	, 66	, 66	- 66	67	67	67	67	50	26	25
Singapore	· • ^ 20 ·	23	_ 23	23	24	24	28	30	49	75	76
Japán .	. 15	, 18	19	19	, 19·	20	20	20	20	20	20
Philippines	, - ⁻ 5	, 6	6	, 7	. 7	. 7	, 7	7	7	7	7
Thailand	0	, 0	. 1	1 ,	1 '	. 1 ,	1	1	1	1,	1
India	2	2 1	2	. 3	. 3	4	4	4	4	4	4
U.S.A.	9 ,	9,	9	9	, - 9 ;	9	9	9	10	11	11
West Gernany	6	6 '	,, ,	6	7	7	7	7	8	8	8
Canada	2	2	2	3	3	3	3	3	3	3	3
Switzerland	1	1	2	2	2	. 2	2	2	2	2	2
Austria	2	2	2	2	2	. 2	. 2	2	. 3	3	3
United Kingdom	1	1	2	2	2	. 3	3.	3	3	3	3
New. Zealand	0	0	0	1	1	1	1	1	1	1	1
Australia	6	6	6	6	7	7	7	7	7	7	7
France		1		2	- 2	2	2	2	2	2	-
Netherlands 5 1	1	· ;1	**************************************	2, 1 ,	1	- '1	, 1 -	*5. 1	1.	2	2

Leased Circuit Telegraph Type

Country	83	84	85	86	87	88	89	90	94	99 '	2000
Taiwan .	0	0	D	1	1	1	1	1	1	1	- i
Malaysta	0	0	1	1	1	1	1	1	2	2'	′′2
Когеа	0	0	0	0	1	1	1	1	1	1	F , 1
Saudı Arabia	0	0	0	0	0	1	1	1	1	· `` 1	'''i
Italy ·	0	0	1	1	1	1	1	1 .	2	(2	· ^{, -3} 2
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								:	<u> </u>	1	ئِ در، ئ
TG type Total	136	144	150	156	161	165	. 168	: 171		1	· 33 182°

Required Telegraph Type Circuits by Country and Service

							7,					
Country	1	Gateway	84,	85	86	87	88	89	90	94	99	2000
* * * * * * * * * * * * * * * * * * *	Service	-								54		2000
	Ø-1	Jakarta	7	8	8	.9	10	10	11	12	14	14
, f	Telex .	Medan	3	3	3	, 3	3	4	4	5	5	6
* * * * * * * * * * * * * * * * * * *	Telegram	Jakarta		1	1	1	1	1	1	1	1	1
India	L C	Jakarta	2	2	3	3.	4	4	4	4	4	4
, to 20	Total	Jakarta	9	11	12	13,	15	15	16	17	19	19
	iotai ,	Medan	3	3	3	3	3	4	4	5	5	6
25, 755	Telex	Jakarta	56	63	71	78	86	94	101	122	137	139
nga Philip	reiex	Medan .	9	10	12	14	16	19	21	28	36	37
Tanan (Telegram	Jakarta	1	I	1.	1	1	1	I	1	1	1
Japan 🛶 🧀	LC .	Jakarta	15	18	19	19	19	20	20	20	20	20
, ~ ~	Potoi	Jakarta	72	82	91	98	106	115	122	143	158	160
* * *	Total	Medan	9	10	12	14	16	19	21	28	36	37
	T les	Jakarta	11	12	13	14	15	16	17	20	22	23
**************************************	Telex	Medan	3	3	4	4	5	5	5	7	8	8
Moloroia	Telegram	Jakarta	1	1	1	1	1	1	1	1	1	1
Malaysia	L C	Jakarta	0	1	1	1	1	1	1	2	2	2
	Total	Jakarta	12	14	15	16	17	18	19	23	25	26
, s ²	10tal	Medan	3	3	4	4	5	5	5	7	8	8
	Telex	Jakarta	7	7	7	. 8	8	9	9	11	12	12
· , · 5	Telex.	Medan	_	3	3	3	3	3	4	4	5	5
Philippines	Telegram	Jakarta	, 1	1	1	1	1	1	1	1	1	1
R'C A	L C	Medan	3	3	3	4	4	4	4	4	4	4
ا الله الله الله الله الله الله الله ال	Total	Jakarta	11	11	11	₂ 13	13	14	14	16	17	17
	Total	Medan	ō	3	3	3	3	3	4	4	5	5
	Telex	Jakarta	5	5	5	6	6	6	6,	7	7	7
je ja	TOTOX.	Medan				_	2	3	3	3	4	4
Philippines	Telegram	Jakarta	. 1	1	1	1	1	1	1	1	1	1
i î î î	LC ·	Jakarta	2	3	3	3	3	3	3	3	3	3
	Total	Jakarta	8	9	9	. 10	10	10	10	11	11	11
	i diveri	Medan]	_		,—	2	3	3	3	4	4

Required Telegraph Type Circ	iits by Country	and by	Service
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Required Telegi	apri 17pt c					$ \neg$			• 1	į		
Country				0.5		87	88	89	90	94	99	2000
	G	Gateway	84	85	86	87	00	03	. 90	54	99	2000
	Service								6			
	Telex	Jakarta	5	5	5	6.	6	6		7	7	8
		Medan					3	3	3	3	4	4
Philippines	Telegram	Jakarta	1	1	1	1	1	1	1	1	1	1
ETPI	LС	Jakarta										
	Total	Jakar ta	6	6	6	7	7	7	7	8	8	9
,	10001	Medan	-	_		_	3	3	3	3	4	4
`	M-1	Jakarta	96	109	123	136	150	165	178	215	243	247
·	Telex	Medan	12	15	19	22	26	30	34	46	60	63
C :	Telegram	Jakarta	1	1	1	1	1	1	1	1	1	1
Singapore	LC	Jakarta	23	23	23	24	24	28	30	49	75	76
	m-4-1	Jakarta	120	133	147	161	175	194	209	265	319	324
	Total	Medan	12	15	19	22	26	30	34	46	60	63
	<i>(</i> 1)	Jakarta	7	8	9	9	10	10	11	13	14	14
	Telex	Medan	3	3	3	3	3	4	4	5	6	6
(D) - : 1 1	Telegram	Jakarta	1	1	1	1	1	1	1	1	1	1
Thailand	LC	Jakarta	0	1	1	1	1	1	1	1	1	1
		Jakarta	8	10	11	11	12	12	13	15	16	16
	Total	Medan	3	3	3	3	3	4	4	5	6	6
		Jakarta	7	8	9	9	10	10	11	13	14	14
	Telex	Medan	3	3	3	3	3	4	4	5	6	6
Taiwan	Telegram	Jakarta	1	1	1	1	1	1	1	1	1	1
Taiwan	L C	Jakarta	0	0	1	1	1	1.	1	1	. 1.	1
i		Jakarta	8	9	11	11'	12	12	13	15	16	16
	Total	Medan	3	3	3	3	3	4	4	5	6	6
	m .	Jakarta	5	5	5	6	6	6	7	8	8	8
	Telex	Medan		_	-		_	_	_	_	4	4
Austria	Telegram	Jakarta	1	1	1	1	1	1	1	1,	٠ - 1	1
Austria	L C	Jakarta	2	2	2	2	2	2	2	3	3	3
	m-4 1	Jakarta	8	8	8	9	9	9	10	12	12	12
ļ	Total	Medan	 -		 		 	 			 -	

Required Telegraph Type Circuits by Country and by Service

Country	ари туре Ст	Gateway	84	85	86	87	88	89	90			2000
	Service	Gateway	04	65	80	87	88	89	90	94	99	2000
* (54-	Telex	Jakarta	37	39	44	48	53	58	62	74	83	84
	Telex	Medan	~	7	8	10	11	13	14	18	23	24
'West	Telegram	Jakarta	5	5	. 5	5	5	5	5	5	5	5
Germany	LС	Jakarta	6	6	6	7	7	7	7	8	8	8
	Total	Jakarta	48	50	55	60	65	70	74	87	96	97
	10141	Medan		7	8	10	11	13	14	18	23	24
	Telex	Jakarta	27	29	32	35	38	41	44	53	59	60
	icicx	Medan		6	7	8	9	10	11	14	17	18
Nether lands	Telegram	Jakarta _	1	1	1	1	1	1	1	1	1	1
iveflier rands	LС	Jakarta	l	1	1	1	1	1	1	1	1	2
+	Total	Jakarta	29	31	35	37	40	43	46	55	62	63
	10141	Medan		6	7	8	9	10	11	14	17	18
	Telex	Jakarta	5	5	6	6	7	7	7	8	8	8
	Telex	Medan		-	-	1		-	_		4	4
Spain	Telegram	Jakarta	0	1	1	. 1	1	1	1	1	1	1
Sparin	rc	Jakarta										
	Total	Jakarta	5	- 6	7	7	8	8	8	9	9	9
	10191	Medan									4	4
,:	Telex	Jakarta	47	49	55	61	67	73	78	94	106	108
ŕ	Telex	Medan		9	10	12	13	15	17	22	29	30
United	Telegram	Jakarta	1	1	1	1	1	1	1	1	1	_1
Kingdom	L C	Jakarta	1	2	2	2	3	3	3	3	3	3
	Total	Jakarta _	49	52	58	64	71	77	82	98	110	112
	10001	Medan		9	10	12	13	15	17	22	29	30
-	Telex	Jakarta_	8	9	9	.10	11	12	12	15	16	17
	I crex	Medan	_	_	-	į	-		_	_		_
Canada	Telegram	Jakarta	1	1	1	1	1	1	1	1	1	1
Canada	Canada L C	Jakarta	2	2	3	3	3	3	3	3	3	3
	Total	Jakarta	11	12	13	. 14	15	16	16	19	20	21
) t	10021	Medan	, ,									

Required Telegr	anh Type Cì	rcuits by	Count	ry ar	id by	Serv	i ce	Ap	pendi	x 4 · · 1	7 • 1 -	3 (4)
Country	ири тур	Gateway	84	85	86	87	88	89	90	94	99	2000
	Service]			, 	<u> </u>		
· ·	m-1-w	Jakarta	20	21	24	26	28	31	33	40	46	47
	Telex	Medan									_	
USA/RCA	Telegram	Jakarta	1	1	1	1	1	1		1	1	1
USA/ NCA	LC	Jakarta	2	2	2	2	2	2	2	2	3	3
	Total	Jakarta	23	24	27	29	31	34	36	43	50	51
	Total	Medan										i
	Telex	Jakarta	40	44	49	55	61	67	72	88	102	104
ų	letex	Medan	_	_	_	<u> </u>						
77.63 / T.M.M.	Telegram	Jakarta	1	1	1	. 1.	1,	·, · 1	. 1	1	. 1	,1
USA/ITT	L C	Jakarta	6	6	6	⁻ 6	6	6	6	, 6	· 6	6
	, , , , , , , , , , , , , , , , , , ,	Jakarta	47	-51	56	62	68	74	79	95	109	111
	Total	Medan							,			
	Telex	Jakarta	24	26	29	32	35	38	, 41	50	57	58
		Medan	_		_	_		1	_	_	-	_
1104 /11011	Telegram	Jakarta	1	1	1	1	1	1.	1	1	1	1
USA/WUI	LC	Jakarta	1	1	1	-1	1	1'	. 1	2	2	2
		Jakarta	26	28	31	35	37	40	43	53	60	61
	Total	Medan				,						
<u> </u>	—	Jakarta	24	26	29	· 29	32	35	37	44	49	50
	Telex	Medan	_		-	7	8	9	9	12	15	15
· · · · · · · · · · · · · · · · · · ·	Telegram	Jakarta	1	1	1	1	1	+ 1	` '1	1	1	1
Australia	L C	Jakarta	6	6	6	. 7.	7	-7	2 7	7	7	7
	(D) 4 - 1	Jakarta	31	33	36	37	40	43	45	52	57	58
	Total	Medan				7	8	9	9	12	15	15
,	T - 1	Jakarta	25	26	29	32	35	37	40	48	53	55
	Telex	Medan	_	6	6	. 7	8	9	10	13	16	16
	Telegram	Jakarta	1	1	1	1	1	1	1	1	1	1
Swiss	LC	Jakarta	1	2	2	2	2	2	2	2	2	2
	T-4-1	Jakarta	27	29	32	35	38	40	. 43	51	56	58
	Total	Medan		6	6	7	8	9	.0	13	16	16

Required Telegraph Type Circuits by Country and by Service

Country												
2° 1 26 1	Service	Ga teway	84	85	86	87	88	89	90	94	99	2000
	, m-1	Jakarta	27	27	30	32	35	38	41	48	54	55
t un ;	Telex	Medan	-	6	. 6	7.	8	9	10	13	16	17
France	Telegram	Jakarta	1	1	1	1	1	1	1	1	1	1
rance	Γ̈́C	Jakarta	1	1	2	2	2	2	2	2	2	2
	. 41'	Jakarta	29	29	33	35	38	41	44	51	57	58
, - ,	Total	Medan	-	6	6	7	8	9	10	13	16	17
, , , ,	Telex	Jakarta	38	43	48	53	58	63	68	81	91	93
	-lelex	-Medan	7	8	9	10	12	14	15	20	25	26
Hana Vana	Telegram	Jakarta	1	1	1	1	1	. 1	1	1	1	1
Hong Kong .	L C	Jakarta	66	66	66	67	67	67	√67	50	26	25
, 6 5	Total	Jakarta	105	110	115	121	126	73	136	132	118	119
~ • /	10tal	Medan	7	8	9	10	12	14	15	20	25	26
, . A	Telex	Jakarta	31	23	26	27	29	31	33	45	43	44
	relex	Medan	_	5	6	6	7	8	9	12	13	14
I talỳ	Telegram	Jakarta	1	1	1	1	1	1	. 1	1	1	1
italy	L C:	Jakarta	0	1	1	1	1	1	1	2	2	2
	Total -	Jakarta	32	25	28	29	31	33	35	48	46	47
3 4	10tal	Medan		5	6	6	7	8	9	12	13	14
e 3, ; · ·	Telex	Jakarta		3	3	3	4	4	. 4	4	5	5
	relex	Medan										
Warnt	Telegram	Jakarta		1	1	1	1	. 1	1	1	1	1
Egypt	L C	Jakarta				,						
*	Total -	Jakarta		4	4	4	5	,5	5	5	6	6
	1,0,081	Medan										
	Telex	Jakarta		3	3	3	3	3	3	3	4	4
, }	Teitex	Medan										
İran	Telegram	Jakarta	٠.	1	1	1	1	1	1	1	1	1
- AAGH AAGH MA	L C	Jakarta		ī	٠	. ^-				13		
7,4	Total	Jakarta		' 4	4	4	4	4	, 4	4	5	5
6	TULAT	Medan	λ	,		~ T	٥					

Required Tele	graph Type (Circuits by	Cour	try 8	and b	y Sei	viće		нррепо	lix 4	7 • 1	3(
· Country	,	Gateway	84	85	86	87	88	89	90	94	99	2000
`.	Service											
,	Telex	Jakarta	:	12	14	15	16	17	19	22	25	26
:	relex	Medan				٠,	,		x ~			
Korea Rep	Telegram	Jakarta		1	1	1	1	1	1	1	1	. ,1
riotea tteb	L C	Jakarta	,	0	0	1	1,	1	1	.1	1	, 1
Ç Ç	Total	Jakarta		13	15	-17	18	19	21	24	27	28
	lotai	Medan				,						
•	Telex	Jakarta		3	3	4	4	4	4	-5	- 4	4
***	1 e lex	Medan	;								3	3
Kwait	Telegram	Jakarta		1	-1	- 1	1	- 1	_1	1	. 1	1
,	LC	Jakarta				,						,
	Total	Jakarta	,	4	4	- 5	5	5	5	. 6	. 5	5
·	10121	Medan	-			-					3	3
	Telex	Jakarta		5	6	6	6	7	∵7	8	8	8
-	Total	Medan	¥			2	3	3	3	3	4	4
New Zealand	Telegram	Jakarta		1	1	1	1	- 1	1	:1	1	1
	LC -	Jakarta		1	. 1	~ 1 °	1	1.	- 1	-1	1	1
	Total	Jakarta		7	8	8	8	9	, 9	. 10	10	10
-	-	Medan	-			2	3	3	3	3	4	4
_	Telex	Jakarta		3	3	4	4	4	· 4	4	٠ 4	4
	Telex	Medan				٠ :	-		,- `		-2	3
Pakistan	Te legram	Jakarta		1	1	- 1	1	1	· 1	1	1	1
	LC	Jakarta				. , .	-	h.	: :	•	,	
	Total	Jakarta		4	4	5	5	5	5	5	- 5	 5
_	Total	Medan				-			- ;		2	3
	Telex	Jakarta.		3	4	4	4	4	4	5	5	5
		Medan							7	1 .	·	
Papur	Telegram	Jakarta		1	1	1.	1.	1.1	. 1	1	- 1	1
New Guinea	L C	Jakarta				-			2 2	_		
	Total -	Jakarta		4	5	5.	5	5		-; 6	6	6
		Medan					,		,		-	

Required Telegraph Type Circuits by Country and by Service

Country	3 3 4 7 8											
1 1 - A	Service	Gateway	84	85 [,]	86	87	88	89	90	94	99	2000
, ,	m 1 2	Jakarta	:	7	7	7	8	8	9	10	11	11
	Telex	Medan			3	, 3	3	3	3	4	5	5
Cauli Ambia	Telegram	Jakarta		1	1	1	1	· 1	1	1	1	1
Saudi Arabia	L C	Jakarta		0	0	0	1	1	1	1	1	1
	Total	Jakarta	1	8	8	8	10	10	11	12	13	13
Ę, i	Total ;	Medan	,		3	· 3	3	3	3	4	5	5
	Telex	Jakarta	1	. 4	4	4	5	.5	5	5	6	6
the second of th	Telex	Medan						,		3	3	3
Sri Lanka	Telegram	Jakarta	, ,	1	1	- 1	1	1	1	1	1	1
ori Lanka	LC	Jakarta	ļ ļ			٠			,			
	Total	Jakarta		٠ 5	· 5	. 5	6	6	6	6	7	7
,	10tai	Medan				£ 7				3	3	3
	Telex	Jakarta		4	4,	4	4	5	5	5	5	5
	Telex	Medan		,		٠.				3	3	3
U A E	Telegram	Jakartá-	-	1	1	- 1,	1	1	` 1	1	1	1
UAE	L C	Jakarta				.,						
· · · · ·		Jakarta	,	5	5	5	5	6	, 6	6	6	6
	Total	Medan'				1.	-		ı	3	3	3
1	M-1	Jakarta		9	10-	11	11	12	ຸ12	14	16	16
	Telex	Medan					4	4	4	5	6	6
1 2	Telegram	Jakarta		1	1	1	1	-1 ⁷	1	1	1.	1
Belgium	LC ,	Jakarta		ś			-					
1 17	Total **	Jakarta		10	11	12	12	13	,13	15	17	. 17
- 14	Total:	Medan					4	4	4	5	6	6
* 1	Tolor	Jakarta	-	6	6	7	7	8	8	9	9	9
,	Telex	Medan		,						4	4	4
Dominanta i	Telégram	Jakarta	Ţ	1	1	1	1	1	1	1	1	1
Denmark	· · · · · · · · · · · · · · · · · · ·	Jakarta	3					,				
	Ç î. Total	Jakarta	\$ _*	7	7	· 8	*8	9	, 9	10	10	10
	Total	Medan		ξ		2464	* 7			4	4	4

Appendix 4 · 7 · 1 - 3(8)
y Service

Required Telegraph	Tyne	Circuits	by	Country	and	by Ser	vice
Redutted LeteBrahu	- 7 P ··		<u> </u>			$\neg \neg$	

Country		Gateway	84	85	86	87	88	89	90	94	99	2000
	Service	<u> </u>		!			}	,	٦ ,			· -
		Jakarta		4	4	4	, 4	5	5	5	5	5
Greece	Telex	Medan								3	3	3
	Telegram	Jakarta		1	1	1	1	. 1	. 1	1	1	1
Greece	L C	Jakarta							الد		, ,	
		Jakarta		5	5	5	5	6	6	6	6	6
	Total	Medan			!				, 	3	3	3
		Jakarta		5	5	> 5	6	6	6	7	8	7
	Telex	Medan				`			,			4
	Telegram	Jakarta		1	1	1	1	1	1	1	1	1
Norway	LC	Jakarta			_				',		4	'
		Jakarta		6	6	. 6	7	7	7	8	9	8
	Total	Medan	_				,					4
		Jakarta		3	3	3	4	4	4	4	5	5
	Telex	Medan				,						
D 1	Telegram	Jakarta		1	1	-1	1	1	1	1	1	1
Roumania	L C	Jakarta				,						·
		Jakarta		4	4	4	5	5	5	5	6	6
	Total	Medan										
	<i>m</i> 1	Jakarta		6	7	7	8	9	9	9	10	10
	Telex	Medan								4	4	5
Sweden	Telegram	Jakarta		1	1	1	1	٠, 1	. 1	1	1	1
Sweden	L C	Jakarta							,		160	
	The Area	Jakarta		7	8	8	9	10	10	10	11	11
	Total	Medan						1	,	4	4	5
		Jakarta		4	4	4	4	4	5	5	5	5
	Telex	Medan										
Turkey	Telegram	Jakarta		1	1	1	1	J. () 1	1	1	1	1
ı uı key	L C	Jakarta										
¢	T-4-1	Jakarta		5	5	5	5	5	6	6	6	6
	Total	Medan						<u> </u>	,			

Required Telegraph Type Circuits by Country and by Service

Country	:	Gateway	84	85	86	87	88	89	90	94	99	2000
· · · · · · · · · · · · · · · · · · ·	Şervice	daveway					35	,		J.4	33	2000
	() () () () () () () () () ()	Jakarta		4	4	. 4	4	4	5	5	5	6
	Telex	Medan						,				
Varantaria -	Telegram	Jakarta		' 1	1	1	1	1	1	1	1	. 1
Yugoslavia	LC	Jakarta				<u>.</u>						
	m	Jakarta		5	5	5	5	5	6	6	6	7
	Total	Medan			·							
	M-15	Jakarta		3	3	3	4	4	4	4	5	5
	Telex	Medan				·						
, TT	Telegram	Jakarta		1	1	1	1	1	1	1	1	1
Hawaii:	L C	Jakarta										
- + <u>}</u>		Jakarta		4	4	4	5	5	5	5	6	6
	Total	Medan										
t	<i>m</i> 1	Jakarta				٠،4	4	4	4	5	5	5
	Telex	Medan		,		·						
Finland	Telegram	Jakarta				1	1	1	1	1	1	1
Finland	L C	Jakarta			-							
		Jakarta			٤	5	5	_ 5	5	6	6	6
	Total	Medan										
,		Jakarta					4	4	4	4	5	5
	Telex	Medan			i	,						
Duite st	Telegram	Jakarta					1	1	1	1	1	1
Brazil	L C	Jakarta										
· · · · · · · · · · · · · · · · · · ·	<i>m</i>	Jakarta			,		5	5	5	5	6	6
	Total	Medan										
1.4	` <u>.</u>	Jakarta				-	4	4	4	4	5	5
	Telex	Medan										
Morino	Telegram	Jakarta					1	1	1	1	1	1
Mexico	LС	Jakarta										
	We to 1	Jakarta					5	5	5	5	6	6
;	Total '	Medan				,						

Required Telegr	raph Type Ci	ircuits Cou	ıntry	and	by Se	rvice	g. <u>'</u>	- 1	ppenu i	· .	957 9	
Country										, ,)	
-	· · ·	Gateway	84	85	86	87	88	89	90	94	99	2000
	Service											
	Telex	Jakarta				- '	4	4	4	4	5	5
	1 CTCX	Medan				٠, ,						
Hungary	Telegram	Jakarta					1	1-	1	1	1	1
lungury	LC	Jakarta										
-	Total	Jakarta		-	,	٠	5	5	5	5	6	6
	1000.	Medan				,						
	Telex	Jakarta				.,,	3	3	3	3	3	3 ·
		Medan									· · · · · · · · · · · · · · · · · · ·	
USSR	Telegram	Jakarta				,	1	1	1	1	1	1
	LC	Jakarta										
÷,	Tntal	Jakarta					4	4	4	4	4	4
	Tntal											
,	Telex							4	4	4	4	4
}	Telex	Medan				- '						
Ethiopia .	Telegram	Jakarta						1	1	1	1	1
Echtopia	L C	Jakarta									•	۸.
	Total	Jakarta						5	5	5	5	5
-	10ta1	Medan							:			
	По 1	Jakarta								3	3	' 3
ĺ	Telex	Medan										
Kenya	Telegram	Jakarta							I	1	1	1
Kenya	LC	Jakarta										
•	Total	Jakarta			·					4	4	4
	Total	Medan				٧-					ĩ	٧,
Telex	Jakarta								2	3	3	
	Telex	Medan				2 ₁						1
Wante DDD	Telegram	Jakarta						- , 4		1	1	ì.
Korea ĐPR	L.C	Jakarta									,	-
Ì		Jakarta			`	le .				3	4	4
	Total	Medan				F_444 ;						

Required Telegraph Type Circuits by Country and by Service

Country		Catama	0.4	9.5	2.0	0.5						
The month of the same to	Service	Gateway	84	85	86 -	87	88	89	90	94	99	2000
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John Committee	Telegram	Jakarta	_		,		,			1	1	1
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	m	Jakarta								4	4	4
,	Total	Medan						_				
		Jakarta									3	3
	Telex	Medan									,	
	Telegram	Jakarta									1	1
South Africa	L C	Jakarta							_		- 11111	
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	Total Telex Telegram L C	Meban										
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	Telex	Medan			. c 3				,		Į*	
.	Telegram	Jakarta								,	1	1,
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		Jakarta						,	-		3	4
	Total	Medan										
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	(D. 4.1)	Jakarta					<u>, , , , , , , , , , , , , , , , , , , </u>			<u> </u>	<u> </u>	ļ
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Allocation of VFT/TDM to Each Circuit in 1984, 1985

* Existing circuit

	1		* Existing circuit	
ĺ		2	Egypt, Ethiopia	•
		6	India, Jordan, Korea(R), Kuwait, Malaysia *, Iran	
		6	New Zealand, Pakistan, Papua New Guinea, Saudi Arabia, Sri Lan	ika
			Thailand*	
		3	Philippines RCA, ITT *, ETPI *	,
		6	U.A.E, Taiwan, Austria, Belgium, Denmark, Finland	;
	VFT	5	Greece, Hangary, Norway, Roumania, Spain	,
		4	Sweden, Turkey, Yugoslavia, Canada*	•
	-	1	Hawaii	
ĺ	İ	4	Spare	•
Jakarta	ļ		,	,
(1985)		10	Total * 6	
		1	Australia	
		5	Hong kong 3, Japan 2	;
		3	Singapore 3	
		1	France	,
	TDM*	4	Germany 2, Italy 1, Netherlands 1	,
		3	Switzerland 1, U.K 2	
		4	U. S. A RCA 1, ITT 2, WUI 1	,
		2	Jakarta-Medan	
		3	Spare	
				_
		24	Total	
			·	
		6	Hong kong, India, Japan, Malaysia, Thailand, Taiwan	
	VFT	1	Singapore	٠
Medan	or	2	Jakarta-Medan	
(1984)	TDM	1	Spare	•
•			-	
		10	Total	
		_		,

Appendix $4 \cdot 7 \cdot 2 - 1$ (2)

Allocation of VFT/TDM to Each Circuit 1985 to 1989

		1985	1986	1987	1988	1989
	:	ı		Finland	USSR	
,	VFT				Brazil,	
Jakarta	V1 1		•		Mexico,	
					Hangary	
	TDM		Singapore	Japan	Singapore	
` `		I taly	SaudiArabia	NewZealand	Philippines - ITT	15,70
m 9	′ 1	France Germany			Philippines - ETPI	
Medan	VFT	Netherland			Belgium	
-	,	Switzerland				•
ار ق	ı	U. K				,
		Philippines -RCA				

Appendix $4 \cdot 7 \cdot 2 - 2$ channels

Country	83	84	85	86	87	88	89	90	• 94	- 99	2000
Hong Kong	8	10	11	12	14	15	17	20	20	19	18
Malaysia	1	1	1	1	1	. 1	i 1	1	2	' 3 ;	3
Singapore	4	6	8	9	10	12	13	15	24	37	37
USA	4	5	6	6	7	7	7	. 7.	8	. 10	11
United Kingdom	1	1	2	2	2.	2	3	· 3	5	7	7
Japan			1	2	3	4	5	, 6	12	18	20
Philippines				1	1	2	2	2	4	6	7
West Germany		1		. 1	1	2	2	, 2	4	6	7
Australia	_	~	- *		1	1	2	2	3	5.	6
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Voice Grade Total	18	23	29	34	40	46	52	58	82	111	1 .

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Appendix 4 • 7 • 2 - 4(1)

	Usage	Ratio	Remarks				
Country	Satellite	Cable		Remarks			
	I S	1 S C 50		PG TS 1000/			
Egypt	50			by 86 IS 100%			
	IS			2 -1			
Ethiopia	100			` · · · · · · · · · · · · · · · · · · ·			
	IS						
Nigeria	100		, , ,				
South Africa	IS						
South Africa	100						
Tanzania	I S			*			
lanzania	100						
· A	IS			ca * at			
Argemtina	100						
Brazil	IS	·					
D(8211	100						
Mexico	PS			, — ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;			
Wexieo	100						
Danasi	I S	ISC M	SC				
Brunei	- 30	70		, , , , , , , , , , , , , , , , , , ,			
Burma	I S						
During .	100						
Fiji	P S						
	100			, 'y '			
Thea	IS						
I raq	100			Î			
Uone Vone	PS	ISC M	sc*	*Medan			
Hong Kong	30	70		weuan ,			
Tudia	IS	ISC MPC*		by, 86 IS 100%			
India	50	50		ph, 99 12 100%			
Innon	P S	ISC		2 3 1 5			
Japan	50	50					
Voime	IS						
Kuwait	100						

e in a resident

Appendix $4 \cdot 7 \cdot 2 - 4(2)$

Country	Usage	Domanica			
F 2 2 .	Satellite	Cable		Remarks	
Malaysia	PS	ISC MPC*			
	30	70		, ,	
New Zealand	P S	IAC			
THEW Zealand	2/3	1/3		by '86 PS 100%	
Pakistan	1 S				
rakistan	100	Ţ <u> </u>			
Papna New Guinea	PS				
	100			, T,	
Dhilimbinon DCA	1 S	ISC	MSC*		
Philiphines RCA	30		70	-	
" ITT	1 8	ISC	MSC*		
	30		70		
" ECD!	18	ISC	MSC*		
" ETPI	30	70		* Y,,	
V D	PS			v <u>1</u> -	
Korea R.	100				
0:1	I S	7 S ISC		107 10 . 100	
Sri Lanka	30	70		by , 87 IS: 100	
	I 'S	ISC MCC*			
Saudi Arabia	. 50	50			
	I S	ISC MSC*			
Singapore	30		70	, 	
m	P S	ISC	мѕс*		
Taiwan -	50		50	·	
70.	PS	ISC	MSC*		
Thailand	30	70			
	IS				
U. A. E.	100				
	PS	IAC		by '87 PS : 100	
Australia	50	50		by '01 PS : 100	
	I'S	ISC			
Bahrain,	, 50		50	•	

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Country	Usage Ratio						
Country	Satellite			Cable	Remarks		
Korea DPR.		PS			* * * * *		
Korea DPR.	100			<u> </u>	. તે -		
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	1	100		a			
Jordan	I S						
	1	100			* 3.4		
Canada	F	P S			, ,		
	1	.00					
Hawaii	P	S .			a piga ca me		
	1	100			, 1, 3°1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
USA ATT	PS	IS					
	2/3	1/3					
" RCA	P S	IS					
	2/3	1/3			ŕ		
" ITT	PS	IS					
	2/3	1/3					
// WUI	PS	IS	,				
	2/3	1/3					
Austria	IS		ISC		1 0		
	9	90		10	by * 87 IS: 100		
Belgium	IS		ISC				
	9	90		10	7 / 7/ 63		
Denmark	IS '		ISC		// · · · · · · · ·		
	90		10				
Greece	I S		ISC				
	90 .		10		11 - 1 4		
[taly	IS		ISC	мсс*			
	90		10		" TE 35		
Germany .	18		ISC	MCC*			
	90		10		211° 0° 41.		
rance	-I S	I S		мсс*			
-	90			10	Merc Roll		

Circuit Usage Ratio by Transmission Route

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Appendix $4 \cdot 7 \cdot 2 - 4(4)$

Country	Usage					
5 To 4	Satellite	Ca	ble	Remarks		
Netherlands -	IS	ISC	MCC*	1 ,		
, ,	90	1	10	by' 87 IS: 100		
Norway	IS	I	sc			
	90	1	10			
Spain	I S	I	sc	,		
Spain	90 -]	10			
Sweden	IS.	I	SC			
	90	1	10	, //		
Switzerland	IS	I	sc			
Switzeriand	90	1	10	<i>"</i>		
, Czechoslovakia –	ÍS	ISC				
	90]	0	, · · · · · // ·		
Finland	I S					
Finiand	100			-		
U	I S					
Hungary	100					
T	I S	-				
Roumania	100					
Turkey	I S					
i	100					
TOOD	I S					
USSR	100					
Y	I S					
Yugoslavia	100					
TT 72	I S	ISC MCC*		by' 87 IS: 100		
U. K	90	1	.0	Dy 01 15 - 100		

*) IS: Indian Satellite

IAC: Indonesia -Australia Cable

PS : Pacific Satellite

MSA: Medan -Singapore Cable

ISC: Indonesia -Singapore Cable

MPC: Medan -Penang Cable

MCC: Medan -Colombo Cable

Transit Requirement for Medan-Singapore-Jakarta Cable x VG Circuits

X VG.CIrcuits										
i	Year	1984	1985	1986	1987	1988	1989	1990	1994	2000
Medan	Australia	, -	_	_	14	16	20	23	35	61
	New Zealand			· -	5	5	5	6	7	10
	Total	-	1	_	19	21	-25	29	42	71
		. 1				;	,	<i>;</i>		_
	Egypt	_	2	2	2	2	3	, 3	<u>.</u> 3	4
1	Sri Lanka	, -	3	3	3	3	. 3	4	√ 5	6
	Saudi Arabia	-	8	·9	10"	, 12	13	15	: 21	32
	Austria	· 	1	1	1	1	1	1	1	2
. ~	Belgium		2	2	2	3	·3	` 3	: 4	· 5
	Denmark	-	2	, 2	2	2	2	- 2	2	2
	Greece	-	2	2	2	2	. 2	2	2	2
	Italy	_	1	3	3	3	4	5	··· 7	. 10
Jakarta	W. Germany	-	3	5	6	7	.8	9	16	26
Jak	France	-	2	4	5	6	7	8	11	_ 21
	Netherlands	-	5	6	. 7	8	- 9	11	- 19	√. 30
	Norway	-	-	1	1	1	1	1	ř. "ī	2
-	Spain	-	1	1	1	1	2	2	2	3
	Sweden	-	1	1	1	1	1	1	. 2	2
	Switzerland	-	1	1	1	2	2	2	°′ 3	4
	Finland	-	_	_	, 	-	1		. 1	`
,	U.K.	_	. 6	7	7	. 8.		.,.11		30
	Total	_	40	50	54	62	71	81	119	182