

## BAB V

### KESIMPULAN

Berdasarkan data dan analisis kapasitas trafik pada unjuk kerja sistem DRA 1900 untuk Jarlokar di Jakarta Utara, maka dapat ditarik kesimpulan bahwa :

1. Berdasarkan kapasitas komunikasi dan jumlah pelanggan yang ada pada setiap STO, dan analisis perhitungan yang dilakukan maka jumlah RNC dan DAN yang dipasang cukup.
2. Pada prinsipnya sistem DECT DRA 1900 ini sangat baik diterapkan di Jakarta Utara, di semua STO yang ada dalam cakupan Jakarta Utara. Trafik per pelanggan yang ditetapkan dengan GOS 0,5 % (100-125 mE) sehingga menyebabkan kualitas jaringannya bagus.
3. Dari hasil evaluasi diatas, terlihat bahwa trafik per pelanggan yang diharapkan sesuai dengan kebutuhan pelanggan di Jakarta Utara akan tercapai apabila dilakukan pembatasan jumlah pelanggan per RNC. Sebaiknya jumlah maksimum pelanggan per RNC untuk sektor perumahan dan bisnis adalah 360 pelanggan.

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The logo of Universitas Darma Persada is a large, stylized yellow flower with eight petals. Inside the flower is a circular emblem containing a red and white triangle with a white figure in the center. The text 'UNIVERSITAS' is written along the top inner edge of the circle, and 'DARMA PERSADA' is written along the bottom inner edge. Two small stars are positioned on the left and right sides of the circle.

**LAMPIRAN A**  
**LAPORAN DATA POTENSI RTBU**



**LAMPIRAN B**  
**TABEL ERLANG**

TABEL ERLANG UNTUK MENENTUKAN SIRKIT

$k = N$

N	A in Erlang								
	B = 0.1%	B = 0.2%	B = 0.5%	B = 1%	B = 2%	B = 3%	B = 5%	B = 10%	B = 20%
1	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.11	0.25
2	0.05	0.07	0.11	0.15	0.27	0.28	0.35	0.60	1.00
3	0.19	0.25	0.35	0.46	0.60	0.72	0.90	1.27	1.93
4	0.44	0.54	0.70	0.87	1.09	1.26	1.52	2.05	2.95
5	0.76	0.90	1.13	1.36	1.65	1.88	2.22	2.88	4.01
6	1.15	1.33	1.62	1.91	2.28	2.54	2.96	3.76	5.11
7	1.58	1.80	2.16	2.50	2.94	3.25	3.74	4.67	6.23
8	2.05	2.31	2.73	3.13	3.63	3.99	4.54	5.60	7.37
9	2.56	2.86	3.33	3.78	4.34	4.75	5.37	6.55	8.52
10	3.09	3.43	3.96	4.46	5.08	5.53	6.22	7.51	9.69
11	3.65	4.02	4.61	5.16	5.84	6.33	7.08	8.49	10.9
12	4.23	4.64	5.28	5.88	6.61	7.14	7.95	9.47	12.0
13	4.83	5.27	5.96	6.61	7.40	7.97	8.83	10.5	13.2
14	5.45	5.92	6.66	7.35	8.20	8.80	9.73	11.5	14.4
15	6.08	6.58	7.38	8.11	9.01	9.65	10.6	12.5	15.6
16	6.72	7.26	8.10	8.88	9.83	10.5	11.5	13.5	16.8
17	7.08	7.95	8.83	9.65	10.7	11.4	12.5	14.5	18.0
18	8.05	8.64	9.58	10.4	11.5	12.2	13.4	15.5	19.2
19	8.72	9.58	10.3	11.2	12.3	13.1	14.3	16.6	20.4
20	9.41	10.1	11.1	12.0	13.2	14.0	15.2	17.6	21.6
21	10.1	10.8	11.9	12.8	14.0	14.9	16.2	18.7	22.8
22	10.8	11.5	12.6	13.7	14.9	15.8	17.1	19.7	24.1
23	11.5	12.3	13.4	14.5	15.8	16.7	18.1	20.7	25.3
24	12.2	13.0	14.2	15.3	16.6	17.6	19.0	21.8	26.5
25	13.0	13.8	15.0	16.1	17.5	18.5	20.0	22.8	27.7
26	13.7	14.5	15.8	17.0	18.4	19.4	20.9	23.9	28.9
27	14.4	15.3	16.6	17.8	19.3	20.3	21.9	24.9	30.2
28	15.2	16.1	17.4	18.6	20.2	21.2	22.9	26.0	31.4
29	15.9	16.8	18.2	19.5	21.0	22.1	23.8	27.1	32.6
30	16.7	17.6	19.0	20.3	21.0	23.1	24.8	28.1	33.8
31	17.4	18.4	19.9	21.2	22.8	24.0	25.8	29.2	35.1
32	18.2	19.2	20.7	22.0	23.7	24.9	26.7	30.2	36.3
33	19.0	20.00	21.5	22.9	24.6	25.8	27.7	31.3	37.5
34	19.7	20.8	22.3	23.8	25.5	26.8	28.7	32.4	38.8
35	20.5	21.6	23.2	24.6	26.4	27.7	29.7	33.4	40.0

k = N

N	Ain Erlang								
	B = 0.1%	B = 0.2%	B = 0.5%	B = 1%	B = 2%	B = 3%	B = 5%	B = 10%	B = 20%
36	21.3	22.4	24.0	25.5	27.3	28.6	30.7	34.5	41.2
37	22.1	23.2	24.8	26.4	28.3	29.6	31.6	35.6	42.4
38	22.9	24.0	25.7	27.3	29.2	30.5	32.6	36.6	43.7
39	23.7	24.8	26.6	28.1	30.1	31.5	33.6	37.7	44.9
40	24.1	25.6	27.4	29.0	31.0	32.4	34.6	38.8	46.1
41	25.2	26.1	28.2	29.9	31.9	33.4	35.6	39.9	47.4
42	26.0	27.2	29.1	30.9	32.8	34.3	36.6	40.9	48.6
43	26.8	28.1	29.9	31.7	33.8	35.3	37.6	42.0	49.9
44	27.6	28.9	30.8	32.5	34.7	36.2	38.6	43.1	51.1
45	28.4	29.7	31.7	33.4	35.6	37.2	39.6	44.2	52.3
46	29.3	30.5	32.5	34.3	36.5	38.1	40.5	45.2	53.6
47	30.1	31.4	33.4	35.2	37.5	39.1	41.5	46.3	54.8
48	30.9	32.2	34.2	36.1	38.4	40.0	42.5	47.4	56.0
49	31.7	33.0	35.1	37.0	39.3	41.0	43.5	48.5	57.3
50	32.5	33.9	36.0	37.9	40.3	41.9	44.5	49.6	58.6
51	33.3	34.7	36.9	38.8	41.7	42.9	45.5	50.6	59.7
52	34.2	35.6	37.7	39.7	42.1	43.9	46.5	51.7	61.0
53	35.0	36.4	38.6	40.6	43.1	44.8	47.5	52.8	62.2
54	35.8	37.2	39.5	41.5	44.0	45.8	48.5	53.9	63.5
55	36.6	38.1	40.4	42.4	44.9	46.7	49.5	55.0	64.7
56	37.5	38.9	41.2	43.3	45.9	47.7	50.5	56.1	65.9
57	38.3	39.8	42.1	44.2	46.8	48.7	51.5	57.1	67.2
58	39.1	40.6	43.0	45.1	47.8	49.6	52.6	58.2	68.4
59	40.0	41.5	43.9	46.0	48.7	50.6	53.6	59.3	69.7
60	40.8	42.4	44.8	46.9	49.6	51.6	54.6	60.4	70.9
61	41.6	43.2	45.6	47.9	50.6	52.5	55.6	61.5	72.1
62	42.5	44.1	46.5	48.8	51.5	53.5	56.6	62.6	73.4
63	43.3	44.9	47.4	49.7	52.5	54.5	57.6	63.7	74.6
64	44.2	45.8	48.3	50.6	53.4	55.4	58.6	64.8	75.9
65	45.0	46.7	49.2	51.5	54.4	56.4	59.6	65.8	77.1
66	45.8	47.5	50.1	52.4	55.3	57.4	60.6	66.9	78.3
67	46.7	48.4	51.0	53.4	56.3	58.4	61.6	68.0	79.6
68	47.5	49.2	51.9	54.3	57.2	59.3	62.6	69.1	80.8
69	48.1	50.1	52.8	55.2	58.2	60.3	63.7	70.2	82.1
70	49.2	51.0	53.7	56.1	59.1	61.3	64.7	71.3	83.3

k = N

N	A in Erlang								
	B = 0.1%	B = 0.2%	B = 0.5%	B = 1%	B = 2%	B = 3%	B = 5%	B = 10%	B = 20%
71	50.1	51.8	54.6	57.0	60.1	62.3	65.7	72.4	84.6
72	50.9	52.7	55.5	58.0	61.0	63.2	66.7	73.5	85.8
73	51.8	53.6	56.4	58.9	62.0	64.2	67.7	74.6	87.0
74	52.7	54.5	57.3	59.8	62.9	65.2	68.7	75.6	88.3
75	53.5	55.3	58.2	60.7	63.9	66.2	69.7	76.7	89.5
76	54.4	56.2	59.1	61.7	64.9	67.2	70.8	77.8	90.8
77	55.2	57.1	60.0	62.6	65.8	68.1	71.8	78.9	92.0
78	56.1	58.0	60.9	63.5	66.8	69.1	72.8	80.9	93.3
79	57.0	58.8	61.8	64.4	67.7	70.1	73.8	81.1	94.5
80	57.8	59.6	62.1	65.4	68.7	71.1	74.8	82.2	95.7
81	58.7	60.6	63.6	66.3	69.6	72.1	75.8	83.3	97.0
82	59.5	61.5	64.5	67.2	70.6	73.0	76.9	84.4	98.2
83	60.4	62.6	65.4	68.2	71.6	74.0	77.9	85.5	99.5
84	61.3	63.2	66.3	69.1	72.5	75.0	78.9	86.6	100.7
85	62.1	64.1	67.2	70.0	73.5	76.0	79.9	87.7	102.0
86	63.0	65.0	68.1	70.9	74.5	77.0	80.9	88.8	103.2
87	63.9	65.9	69.0	71.9	75.4	78.0	82.0	89.9	104.5
88	64.7	66.3	69.9	72.8	76.4	78.9	83.0	91.0	105.7
89	65.6	67.7	70.8	73.7	77.3	79.9	84.0	92.1	106.9
90	66.5	68.6	71.8	74.7	78.3	80.9	85.0	93.1	108.2
91	67.4	69.4	72.7	75.6	79.3	81.9	86.0	94.2	109.4
92	68.2	70.3	73.6	76.6	80.2	82.9	87.1	95.3	110.7
93	69.1	71.2	74.5	77.5	81.2	83.9	88.1	96.4	111.9
94	70.0	72.1	75.4	78.4	82.2	84.9	89.1	97.5	113.2
95	70.9	73.0	76.3	79.4	83.1	85.9	90.1	98.6	114.4
96	71.7	73.9	77.2	80.3	84.1	86.8	91.1	99.7	115.7
97	72.6	74.8	78.2	81.2	85.1	87.9	92.2	100.8	116.9
98	73.6	75.7	79.1	82.2	86.0	88.8	93.2	101.9	118.1
99	74.4	76.7	80.0	83.1	87.0	89.8	94.2	103.0	119.4
100	75.2	77.5	80.9	84.1	90.8	95.2	95.3	104.1	120.6
101	76.1	78.4	81.8	85.0	88.9	91.8	96.3	105.2	121.9
102	77.0	79.3	82.9	85.9	89.9	92.8	97.3	106.3	123.1
103	77.9	80.2	83.7	86.9	90.9	93.8	98.3	107.4	124.4
104	78.8	81.1	84.6	87.8	91.9	94.8	99.3	108.5	125.6
105	79.7	82.0	85.5	88.8	92.8	95.7	100.4	109.6	126.9

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