

## BAB V

### KESIMPULAN

1. Faktor yang mempengaruhi peramalan jumlah pelanggan DECT adalah jumlah penduduk dan laju pertumbuhannya, jumlah pendapatan perkapita dan laju pertumbuhannya serta kebutuhan satuan sambungan telepon dan perkembangannya maka akan didapat data yang menyerupai garis linier sehingga didapat peramalan jumlah pelanggan DECT dikodya Jakarta Utara tahun 2006 adalah sekitar 3.417 pelanggan.
2. Walaupun pendapatan perkapita dan jumlah penduduk bertambah setiap tahun tapi perkembangan jumlah kepadatan telepon pertahun cenderung menurun.
3. Berdasarkan kapasitas komunikasi dan jumlah pelanggan yang ada pada setiap STO pada tahun 2006 dan analisis perhitungan yang dilakukan maka jumlah cell station untuk semua STO diperkirakan cukup (1 CS) sedangkan RNC dan DAN disemua STO perlu diadakan penambahan. Untuk STO Tanjung Priok membutuhkan penambahan sebesar 3 DAN dan RNC sedangkan STO Pademangan dan Muara Karang hanya membutuhkan penambahan sebesar 1 DAN dan RNC.

## DAFTAR PUSTAKA

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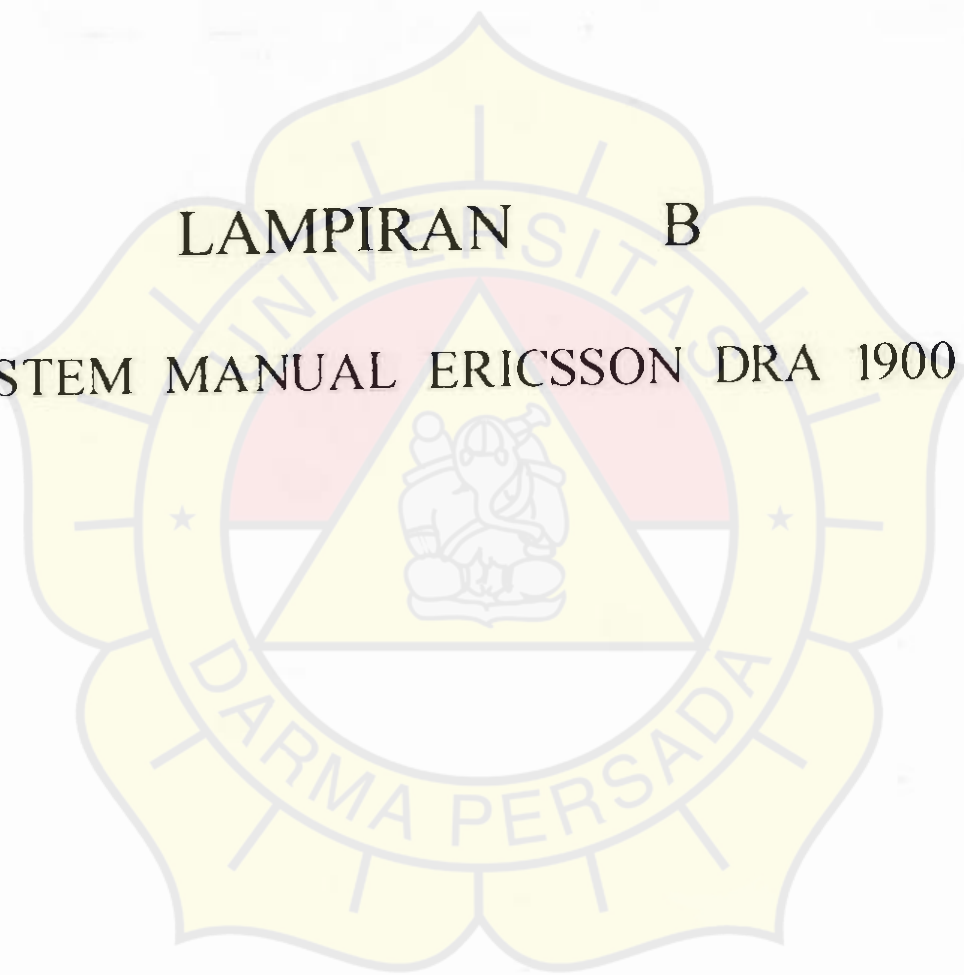


**LAMPIRAN A**

**LAPORAN DATA POTENSI RTBU**



LAMPIRAN B  
SYSTEM MANUAL ERICSSON DRA 1900



## 14.1 Traffic performance data

<b>DRA 1900 network</b>	
Maximum no. of subscribers per sub-network	Approx. 40 000
<b>RSNM</b>	
Maximum no. of RNCs per RSNM	100
<b>RNC</b>	
Maximum number of RNCs per local exchange	Unlimited
Maximum no. of subscribers per RNC	600
Traffic capacity for 0.5% average Grade of Service	45 E
Maximum number of simultaneous calls	
- Speech calls	60
- Standard speed data (up to 9.6kbit/s)	60
- High-Speed Data (up to 28.8 kbit/s)	18
Signalling capacity (speech calls/hour)	1800
Max. recommended no. of DANs per RNC	1
<b>DAN</b>	
Maximum number of simultaneous calls	
Basic DAN	
- Speech calls	28
- Standard speed data (up to 9.6kbit/s)	28
- High-Speed Data (up to 28.8 kbit/s)	14
Full DAN	
- Speech calls	60
- Standard speed data (up to 9.6kbit/s)	60
- High-Speed Data (up to 28.8 kbit/s)	18
Signalling capacity (speech calls/hour)	1800
Traffic capacity for an average of 0.5% Grade of Service and an even distribution of traffic in each sector around the DAN. Maximum 12 simultaneous calls in any sector. Values are given for speech or standard data traffic only.	
Basic DAN	17E ( $\pm 10\%$ )
Full DAN with synchronization between DANs (GPS synchronization)	39 E ( $\pm 10\%$ )
Full DAN isolated (no surrounding DECT systems)	45 E ( $\pm 10\%$ )
Dual DAN with synchronization between DANs (GPS synchronization)	70 E ( $\pm 10\%$ )
Dual DAN isolated (no surrounding DECT systems)	80 E ( $\pm 10\%$ )
<b>DLN</b>	
Traffic impact for DLN usage is minor, if the DLN antenna is close (<50 m) from the DAN antennas and the DLN antennas are pointing to the 60° sector left out by the DAN antennas	

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**FAU**

Channel capacity 1 simultaneous call

Response time between local exchange and subscriber line interface is not exceeded for 90% of the cases:

Off-hook/on-hook (loop signalling)	1000 ms
DTMF or impulse signalling	1000 ms
Ringing signalling	1500 ms
Dial tone at subscriber line interface	<1000 ms

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The logo of Universitas Darma Persada is a large, light yellow watermark in the background. It features a central shield with a red upper half and a white lower half. Inside the shield is a white figure of a person sitting on a throne, holding a book. The shield is surrounded by a circular border with the text 'UNIVERSITAS DARMA PERSADA' and two stars. The entire logo is set within a larger, stylized yellow shape.

LAMPIRAN C  
SPESIFIKASI RADIO DECT





TELKOM

CORDLESS TELECOMMUNICATIONS

DECT

## SPEKIFIKASI RADIO :

SESUAI STANDAR ETSI ETS 300 175 :

Band Frekuensi	: 1880 - 1900 MHz
Jumlah carrier	: 10
Carrier spacing	: 1,728 MHz
Peak transmit power	: 250 mW
Carrier Multiplex	: TDMA : 24 slots per frame
Frame length	: 10 msec
Basic Duplexing	: TDD using 2 slots on same RF carrier
Gross bit rate	: 1152 kbps.
Net channel rate	: 32 kbps (traffic) per slot 6,4 kbps (control/signaling) per slot

LAMPIRAN D

TABEL ERLANG



**APPENDIX 1.1**  
**Blocked-Calls-Cleared**  
**(Erlang B)**

N	A, erlangs												
	B												
	10%	12%	15%	2%	3%	5%	7%	10%	15%	20%	30%	40%	50%
1	.0101	.0121	.0152	.0204	.0309	.0526	.0753	.111	.176	.250	.429	.667	1.00
2	.153	.168	.190	.223	.282	.381	.470	.596	.796	1.00	1.45	2.00	2.73
3	.455	.489	.535	.602	.715	.899	1.06	1.27	1.60	1.93	2.63	3.48	4.59
4	.869	.922	.992	1.09	1.26	1.52	1.75	2.05	2.50	2.95	3.99	5.02	6.50
5	1.36	1.43	1.52	1.66	1.88	2.22	2.50	2.88	3.45	4.01	5.19	6.60	8.44
6	1.91	2.00	2.11	2.28	2.54	2.96	3.30	3.76	4.44	5.11	6.51	8.19	10.4
7	2.50	2.60	2.74	2.94	3.25	3.74	4.14	4.67	5.46	6.23	7.86	9.80	12.4
8	3.13	3.25	3.40	3.63	3.99	4.54	5.00	5.60	6.50	7.37	9.21	11.4	14.3
9	3.73	3.92	4.09	4.34	4.75	5.37	5.88	6.55	7.55	8.52	10.6	13.0	16.3
10	4.46	4.61	4.81	5.08	5.53	6.22	6.78	7.51	8.62	9.68	12.0	14.7	18.3
11	5.16	5.32	5.54	5.84	6.33	7.08	7.69	8.49	9.69	10.9	13.3	16.3	20.3
12	5.88	6.05	6.29	6.61	7.14	7.95	8.61	9.47	10.8	12.0	14.7	18.0	22.2
13	6.61	6.80	7.05	7.40	7.97	8.83	9.54	10.5	11.9	13.2	16.1	19.6	24.2
14	7.35	7.56	7.82	8.20	8.80	9.73	10.5	11.5	13.0	14.4	17.5	21.2	26.2
15	8.11	8.33	8.61	9.01	9.65	10.6	11.4	12.5	14.1	15.6	18.9	22.9	28.2
16	8.88	9.11	9.41	9.83	10.5	11.5	12.4	13.5	15.2	16.8	20.3	24.5	30.2
17	9.65	9.89	10.2	10.7	11.4	12.5	13.4	14.5	16.3	18.0	21.7	26.2	32.2
18	10.4	10.7	11.0	11.5	12.2	13.4	14.3	15.5	17.4	19.2	23.1	27.6	34.2
19	11.2	11.5	11.8	12.3	13.1	14.3	15.3	16.6	18.5	20.4	24.5	29.5	36.2
20	12.0	12.3	12.7	13.2	14.0	15.2	16.3	17.6	19.6	21.6	25.9	31.2	38.2
21	12.8	13.1	13.5	14.0	14.9	16.2	17.3	18.7	20.8	22.8	27.3	32.8	40.2
22	13.7	14.0	14.3	14.9	15.8	17.1	18.2	19.7	21.9	24.1	28.7	34.5	42.1
23	14.5	14.8	15.2	15.8	16.7	18.1	19.2	20.7	23.0	25.3	30.1	36.1	44.1
24	15.3	15.6	16.0	16.6	17.6	19.0	20.2	21.8	24.2	26.5	31.6	37.8	46.1
25	16.1	16.5	16.9	17.5	18.5	20.0	21.2	22.8	25.3	27.7	33.0	39.4	48.1
26	17.0	17.3	17.8	18.4	19.4	20.9	22.2	23.9	26.4	28.9	34.4	41.1	50.1
27	17.8	18.2	18.6	19.3	20.3	21.9	23.2	24.9	27.6	30.2	35.8	42.8	52.1
28	18.6	19.0	19.5	20.2	21.2	22.9	24.2	26.0	28.7	31.4	37.2	44.4	54.1
29	19.5	19.9	20.4	21.0	22.1	23.8	25.2	27.1	29.9	32.6	38.6	46.1	56.1
30	20.3	20.7	21.2	21.9	23.1	24.8	26.2	28.1	31.0	33.8	40.0	47.7	58.1
31	21.2	21.6	22.1	22.8	24.0	25.8	27.2	29.2	32.1	35.1	41.5	49.4	60.1
32	22.0	22.5	23.0	23.7	24.9	26.7	28.2	30.2	33.3	36.3	42.9	51.1	62.1
33	22.9	23.3	23.9	24.6	25.8	27.7	29.3	31.3	34.4	37.5	44.3	52.7	64.1
34	23.8	24.2	24.8	25.5	26.8	28.7	30.3	32.4	35.6	38.8	45.7	54.4	66.1
35	24.6	25.1	25.6	26.4	27.7	29.7	31.3	33.4	36.7	40.0	47.1	56.0	68.1
36	25.5	26.0	26.5	27.3	28.6	30.7	32.3	34.5	37.9	41.2	48.6	57.7	70.1
37	26.4	26.8	27.4	28.3	29.6	31.6	33.3	35.6	39.0	42.4	50.0	59.4	72.1
38	27.3	27.7	28.3	29.2	30.5	32.6	34.4	36.6	40.2	43.7	51.4	61.0	74.1
39	28.1	28.6	29.2	30.1	31.5	33.6	35.4	37.7	41.3	44.9	52.8	62.7	76.1
40	29.0	29.5	30.1	31.0	32.4	34.6	36.4	38.8	42.5	46.1	54.2	64.4	78.1
41	29.9	30.4	31.0	31.9	33.4	35.6	37.4	39.9	43.6	47.4	55.7	66.0	80.1
42	30.8	31.3	31.9	32.8	34.3	36.6	38.4	40.9	44.8	48.6	57.1	67.7	82.1
43	31.7	32.2	32.8	33.8	35.3	37.6	39.5	42.0	45.9	49.9	58.5	69.3	84.1
44	32.5	33.1	33.7	34.7	36.2	38.6	40.5	43.1	47.1	51.1	59.9	71.0	86.1
45	33.4	34.0	34.6	35.6	37.2	39.6	41.5	44.2	48.2	52.3	61.3	72.7	88.1
46	34.3	34.9	35.6	36.5	38.1	40.5	42.6	45.2	49.4	53.6	62.8	74.3	90.1
47	35.2	35.8	36.5	37.5	39.1	41.5	43.6	46.3	50.6	54.8	64.2	76.0	92.1
48	36.1	36.7	37.4	38.4	40.0	42.5	44.6	47.4	51.7	56.0	65.6	77.7	94.1
49	37.0	37.6	38.3	39.3	41.0	43.5	45.7	48.5	52.9	57.3	67.0	79.3	96.1
50	37.9	38.5	39.2	40.3	41.9	44.5	46.7	49.6	54.0	58.5	68.5	81.0	98.1

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