



Suruhanjaya Komunikasi dan Multimedia Malaysia
Malaysian Communications and Multimedia Commission

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KOMUNIKASI & MULTIMEDIA FAKTA & ANGKA TERPILIH

COMMUNICATIONS & MULTIMEDIA
**SELECTED FACTS
 & FIGURES**

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Suruhanjaya Komunikasi dan Multimedia Malaysia
 Malaysian Communications and Multimedia Commission

Malaysian Communications and Multimedia Commission, 2008

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Kata Pengantar

Komunikasi dan Multimedia: Fakta dan Angka Terpilih ialah suatu buletin statistik yang diterbitkan setiap suku tahun oleh Suruhanjaya Komunikasi dan Multimedia Malaysia (SKMM). Tujuan penerbitan ini adalah untuk memberi maklumat yang berguna berkaitan dengan industri komunikasi dan multimedia dan tandatangan digital.

Industri komunikasi & multimedia dan tandatangan digital adalah di bawah bidang kuasa SKMM sebagaimana termaktub dalam Akta Komunikasi dan Multimedia 1998 dan Akta Tandatangan Digital 1997. Beberapa data asas turut disediakan dalam satu jadual awal sebagai penunjuk arah aliran ekonomi negara. Pada keseluruhannya, sebahagian besar kandungan penerbitan ini ialah statistik yang diperolehi daripada rekod pemegang-pemegang lesen, sumber dalaman dan luaran, termasuklah kajian-kajian yang dijalankan sama ada secara langsung ataupun di bawah naungan SKMM. Ia juga mengandungi ramalan-ramalan jangka pendek bagi beberapa penunjuk-penunjuk asas yang penting.

Statistik terpilih daripada penerbitan ini turut disiarkan di laman web SKMM di <http://www.skmm.gov.my>.

Saya mengambil peluang ini mengucapkan terima kasih kepada semua pihak berkenaan yang telah memberi data sehingga buku ini berjaya diterbitkan setiap suku tahunan. Pada masa yang sama saya mengalu-alukan cadangan daripada pengguna untuk meningkatkan lagi mutu penerbitan ini.



Datuk Dr. Halim bin Shafie
Pengerusi
Suruhanjaya Komunikasi dan Multimedia Malaysia

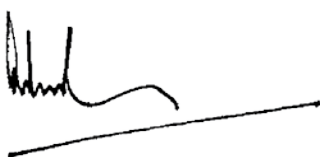
Foreword

The *Communications and Multimedia; Selected Facts and Figures* is a quarterly statistical bulletin published by the Malaysian Communications and Multimedia Commission (SKMM). It aims to provide useful information for a cross-section of the communications and multimedia industry and digital signatures.

Communications & multimedia industry and digital signatures come under the ambit of the SKMM as prescribed by the Communications and Multimedia Act 1998 and Digital Signature Act 1997. Some basic data are also presented in an initial table to indicate trends in the economy. In the main, this publication contains statistics culled from administrative records of licensees, internal and external sources as well as surveys commissioned / conducted by the SKMM. It also contains forecasts in respect of key indicators for the short term.

Selected statistics from this publication are also published on the SKMM website <http://www.skmm.gov.my>.

I wish to take this opportunity to thank all parties concerned in providing the data that made this quarterly publication possible and at the same time invite suggestions from users to make this publication even more useful.



*Datuk Dr. Halim bin Shafie
Chairman
Malaysian Communications and Multimedia Commission*

10

Matlamat Dasar Kebangsaan bagi Industri Komunikasi dan Multimedia

1. Menjadikan Malaysia sebagai pusat dan tumpuan utama dunia bagi perkhidmatan komunikasi dan perkhidmatan maklumat dan kandungan multimedia;
2. Menggalakkan pewujudan masyarakat madani yang dalamnya perkhidmatan berdasarkan maklumat akan menyediakan asas bagi peningkatan yang berterusan kepada mutu kerja dan hidup;
3. Mencambahkan dan memupuk sumber maklumat dan perlambangan budaya tempatan yang membantu mengetengahkan identiti kebangsaan dan kepelbagaian dunia;
4. Mengawal selia bagi faedah jangka panjang pengguna akhir;
5. Menggalakkan tahap keyakinan pengguna yang tinggi dalam penyampaian perkhidmatan daripada industri itu;
6. Memastikan penyediaan perkhidmatan sama rata yang mampu dibayar melalui infrastruktur kebangsaan yang sentiasa ada;
7. Mewujudkan suasana aplikasi yang giat bagi pengguna akhir;
8. Memudahkan pengagihan secara berkesan sumber seperti tenaga buruh mahir, modal, pengetahuan dan aset kebangsaan;
9. Menggalakkan pembinaan keupayaan dan kecekapan dalam industri percantuman Malaysia; dan
10. Menjamin keselamatan maklumat dan kebolehpercayaan dan keutuhan rangkaian.

10

National Policy Objectives for the Communications & Multimedia Industry

1. *To establish Malaysia as a major global centre and hub for communications and multimedia information and content services;*
2. *To promote a civil society where information-based services will provide the basis of continuing enhancements to quality of work and life;*
3. *To grow and nurture local information resources and cultural representation that facilitate the national identity and global diversity;*
4. *To regulate for the long-term benefit of the end user;*
5. *To promote a high level of consumer confidence in service delivery from the industry;*
6. *To ensure an equitable provision of affordable services over ubiquitous national infrastructure;*
7. *To create a robust applications environment for end users;*
8. *To facilitate the efficient allocation of resources such as skilled labour, capital, knowledge and national assets;*
9. *To promote the development of capabilities and skills within Malaysia's convergence industries; and*
10. *To ensure information security and network reliability and integrity.*

Isi Kandungan

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Nota

Sekiranya sesuatu jadual tidak diikuti oleh nota tentang sumber data, maka seluruh data yang terkandung di dalamnya berpunca semata-mata daripada Suruhanjaya Komunikasi dan Multimedia Malaysia (SKMM).

Angka-angka awalan dicondongkan.

Angka-angka yang dipinda digariskan.

Data yang digrafkan, dilorekkan dalam jadualnya.

Melainkan kalau ia ditunjukkan secara berasingan atau dinyatakan sebaliknya

- (i) angka bagi Perlis ditambah ke angka bagi Kedah dan
- (ii) angka bagi WP Labuan ditambah ke angka bagi Sabah.

Angka yang terkandung dalam sesuatu jadual merujuk kepada penghujung tempoh. Sebagai contoh, kadar penembusan tahunan bagi sesuatu perkhidmatan dikira dengan menggunakan jumlah langganan dan anggaran jumlah penduduk pada penghujung tahun. Ini adalah berbeza daripada amalan demografi Malaysia di mana jumlah penduduk pertengahan tahun dianggap sebagai jumlah penduduk tahunan. Sekiranya kedua-dua amalan ini hendak diselaraskan kepada norma demografi, maka kadar penembusan seperti pada penghujung Jun hendaklah digunakan.

Angka-angka unjuran hendaklah digunakan dengan berhati-hati. Pastikan unjuran terbaru digunakan kerana kebanyakan unjuran berdasarkan kaedah autoregresif ataupun variabel peramal yang lebih kemaskini telah diperolehi. Pastikan tarikh unjuran dibuat dan catatkan tarikh itu dalam semua laporan yang memetik dari penerbitan ini. Dalam isu ini, semua unjuran dibuat berdasarkan maklumat yang ada pada SKMM pada 1 Februari 2009.

Nombor dan peratus yang dijumlahkan mungkin tidak sama dengan jumlah atas sebab pembulatan.

Notes

Where a table is not accompanied by a source acknowledgement, that table carries data that emanated solely from the Malaysian Communications and Multimedia Commission (SKMM).

Preliminary figures are italicized.

Revised figures are underscored.

Where a graph accompanies a table, the graph data range is shaded.

Unless shown separately, or otherwise noted,

- (i) figures for Perlis are added to figures for Kedah and*
- (ii) figures for FT Labuan are added to figures for Sabah.*

Figures presented in tables are as at the end of the period. Hence a penetration rate for a given year is calculated using the number of subscriptions and estimated population as at the end of the year. This is different from the Malaysian demographic practice of using the mid-year population as the population for that year. In any case, if the practices need to be synchronised to the demographic norm, then the penetration rates as at end June of that year must be used.

Forecasts must be used with care. Ensure that the latest available forecasts are used as most forecasts made are autoregressive, or more up to date predictor variables may now be available. Always note the date on which the forecasts were made and any reproduction of the forecasts should carry a similar cautionary note. In this issue, all forecasts were made based on data available to SKMM at 1 February 2009.

Numbers and percentages may not add up because of rounding.

Simbol dan singkatan *Symbols and abbreviations*

... - Tidak diperolehi
... - *Not available*

Suku - Suku tahun
Qtr - *Quarter*

SKMM - Suruhanjaya Komunikasi dan Multimedia Malaysia
- *Malaysian Communications and Multimedia Commission*

BNM - Bank Negara Malaysia
BNM - *Central Bank of Malaysia*

JPM - Jabatan Perangkaan Malaysia
DOS - *Department of Statistics, Malaysia*

KTAK - Kementerian Tenaga, Air dan Komunikasi
MEWC - *Ministry of Energy, Water and Communications*

ITU - *International Telecommunication Union*

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PENUNJUK-PENUNJUK ASAS

Basic Indicators

1. Penunjuk-penunjuk asas Malaysia

Malaysia basic indicators

Tahun	Suku	Penduduk (juta)	Isi rumah (‘000)	KDNK (RM)		Indeks Harga Pengguna (IHP)	
				Harga semasa (bilion)	Harga malar 2000 (bilion)		
Nota						1	2
2003		25.32	5,504	418.769	339.414	95.7	
2004		25.86	5,622	474.048	426.508	97.1	
2005		27.45	5,967	519.451	447.392	100.0	
2006		26.91	5,850	572.550	474.392	103.6	
2007	1	27.04	5,878	144.415	120.060	105.0	
	2	27.13	5,898	153.937	123.661	105.1	
	3	27.31	5,937	166.306	130.070	105.4	
	4	27.45	5,967	176.709	131.162	105.7	
2008	1	27.59	5,998	<u>175.374</u>	<u>129.177</u>	107.8	
	2	27.70	6,022	<u>189.352</u>	<u>132.155</u>	109.0	
	3	27.87	6,059	198.668	136.235	110.9	
	4	28.02	6,091	...	...	111.8
Year	Qtr	Population (million)	Households (‘000)	GDP (RM)		Consumer Price Index (CPI)	
				Current prices (billion)	Constant prices 2000 (billion)		
Note						1	2

Punca:

Source:

JPM, BNM
DOS, BNM

Nota penjelasan:

Explanatory notes:

1. Tahun asas harga malar adalah 2000.
Base year for constant prices is 2000.
2. Tahun asas IHP adalah 2005.
Base year for CPI is 2005.

IHP bagi sesuatu suku tahun merujuk kepada indeks purata dari 1hb Januari hingga hujung suku tahun tersebut.

The CPI reported against a quarter, refers to the average index for the period spanning 1st January to the end of that quarter.

2. Kadar penembusan sepintas lalu

Penetration rates at a glance

Tahun	Suku	Talian Ibusawat Terus	Jalur lebar	Telefon selular
		Per 100 isi rumah	Per 100 isi rumah	Per 100 penduduk
Nota			1,2	3
2000		66.4		21.8
2001		65.1		30.8
2002		62.3		36.9
2003		58.0		43.9
2004		52.3		56.5
2005		49.5		74.1
2006		48.3	<u>10.9</u>	72.3
2007	1	48.9	<u>11.6</u>	77.0
	2	48.6	<u>12.7</u>	78.2
	3	48.3	<u>13.8</u>	80.8
	4	47.8	<u>15.2</u>	85.1
2008	1	46.6	<u>16.4</u>	87.9
	2	45.8	<u>18.0</u>	90.6
	3	45.4	<u>19.2</u>	93.9
	4	44.9	21.1	96.8
Unjuran Forecast 2009	1	44.8		101.2
	2	44.5		103.1
	3	44.2		105.0
	4	43.8		106.9
		<i>Per 100 households</i>	<i>Per 100 households</i>	<i>Per 100 inhabitants</i>
<i>Year</i>	<i>Qtr</i>	<i>DEL</i>	<i>Broadband</i>	<i>Cellular phone</i>
Note			1,2	3

Nota penjelasan:

Explanatory notes:

- Dipinda untuk mengambilkira perkhidmatan tanpa wayar termasuk jalur lebar mudah alih ke isirumah.
Revised to take into account wireless access including mobile broadband in households.
- Kajian Jalur Lebar Tanpa Wayar SKMM 2009, mendapati sebanyak 39.4% daripada semua langganan jalur lebar mudah alih adalah untuk kegunaan di rumah.
The SKMM Wireless Broadband Survey 2009, found that as much as 39.4% of all mobile broadband subscriptions are used for access in households.
- Kadar penembusan telefon selular dijangka akan melebihi 100.0 % pada suku tahun pertama 2009. Kadar penembusan telefon selular dikira sebagai jumlah langganan dibahagi jumlah penduduk dan didarabkan dengan 100. Kadar penembusan melebihi 100.0% boleh berlaku kerana pelanggan mempunyai lebih daripada satu langganan.
The penetration rate for cellular phone is expected to exceed 100.0% in the first quarter 2009. The penetration rate refers to the total subscriptions divided by the total population and multiplied by 100. A penetration rate over 100.0% can occur because of multiple subscriptions.

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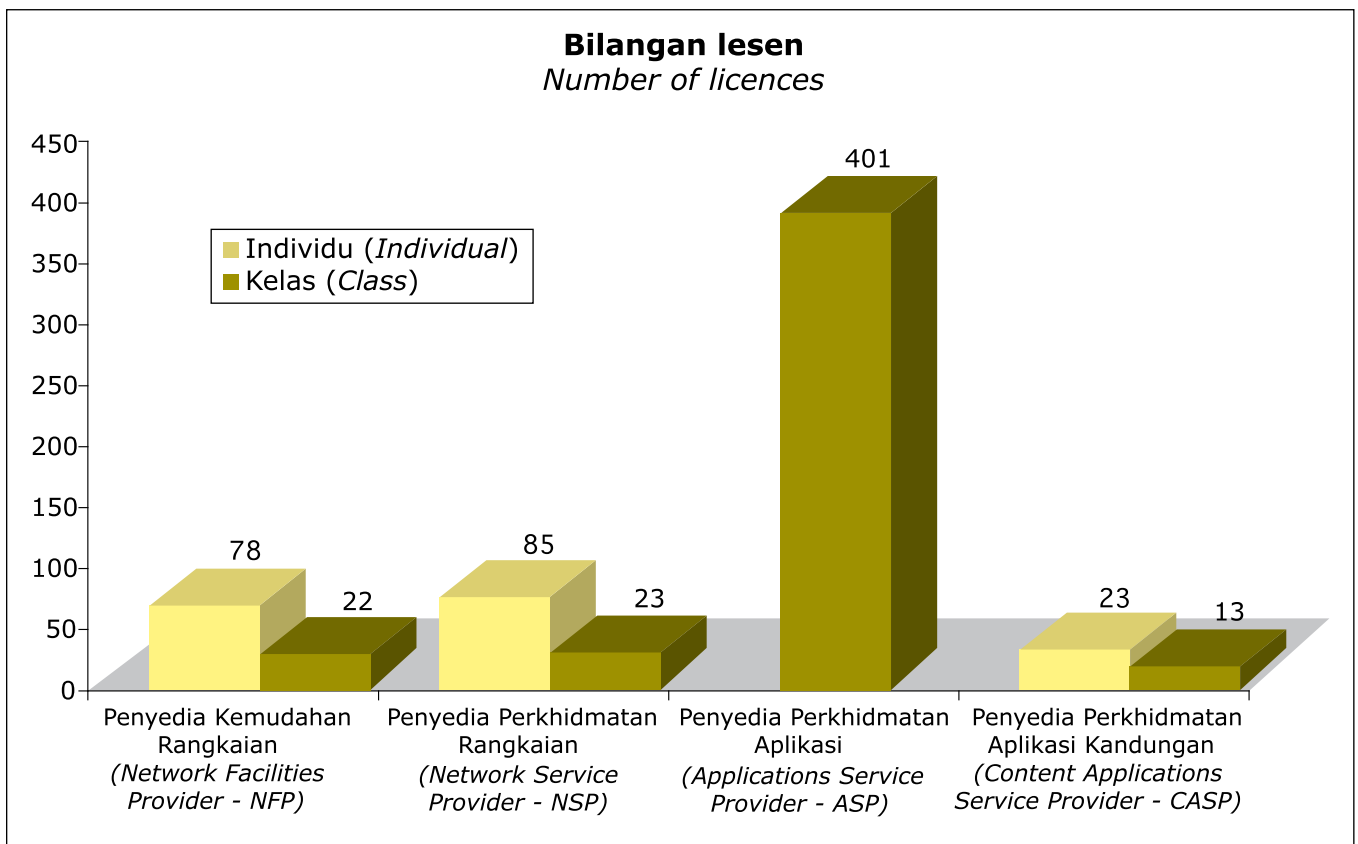
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Communications & Multimedia

3. Bilangan lesen seperti pada Q4 2008

Number of licences as at Q4 2008

	Bilangan lesen	
	Individu	Kelas
Penyedia Kemudahan Rangkaian <i>Network Facilities Provider (NFP)</i>	78	22
Penyedia Perkhidmatan Rangkaian <i>Network Service Provider (NSP)</i>	85	23
Penyedia Perkhidmatan Aplikasi <i>Applications Service Provider (ASP)</i>		401
Penyedia Perkhidmatan Aplikasi Kandungan <i>Content Applications Service Provider (CASP)</i>	23	13
	<i>Individual</i>	<i>Class</i>
	<i>No. of licences</i>	



Nota penjelasan:

Explanatory notes:

Sila lihat lampiran untuk senarai pemegang lesen.

For a complete list of licensees please refer to appendix.

4. Talian Ibusawat Terus

DEL connections

Tahun	Suku	Kediaman		Bilangan langganan perniagaan (<i>'000</i>)	Jumlah langganan (<i>'000</i>)
		Bilangan langganan (<i>'000</i>)	Kadar penembusan (per 100 isi rumah)		
2000		3,392	66.4	1,236	4,628
2001		3,400	65.1	1,310	4,710
2002		3,323	62.3	1,347	4,670
2003		3,194	58.0	1,378	4,572
2004		2,938	52.3	1,508	4,446
2005		2,839	49.5	1,527	4,366
2006		2,831	48.4	1,511	4,342
2007	1	2,872	48.9	1,480	4,352
	2	2,866	48.6	1,484	4,350
	3	2,865	48.3	1,493	4,358
	4	2,851	47.8	1,499	4,350
2008	1	2,793	46.6	1,557	4,350
	2	2,762	45.8	1,544	4,306
	3	2,751	45.4	1,551	4,302
	4	2,734	44.9	1,558	4,292
Unjuran					
<i>Forecast</i>					
2009	1		44.8		
	2		44.5		
	3		44.2		
	4		43.8		
<i>Year</i>	<i>Qtr</i>	<i>Residential</i>		<i>Number of business</i>	<i>Total</i>
		<i>Number of</i>	<i>Penetration rate</i>	<i>subscriptions</i>	<i>subscriptions</i>
		<i>subscriptions ('000)</i>	<i>(per 100 households)</i>	<i>(<i>'000</i>)</i>	<i>(<i>'000</i>)</i>

Nota penjelasan:

Explanatory notes:

Sambungan Talian Ibusawat Terus merujuk kepada talian tetap yang menyambungkan peralatan pelanggan terus kepada ibusawat.

Direct Exchange Line (DEL) connects a customer's equipment to the Public Switched Telephone Network (PSTN) and has a dedicated port on a telephone exchange.

5. Kadar Penembusan Talian Ibusawat Terus per 100 isi rumah mengikut negeri

DEL penetration rate per 100 households by state

Negeri	2006	2007
Johor	53.6	56.2
Kedah	40.8	39.4
Kelantan	30.5	28.5
Melaka	58.0	64.5
Negeri Sembilan	53.6	57.9
Pahang	38.6	40.4
Pulau Pinang	64.1	70.3
Perak	56.5	59.3
Perlis	41.0	43.4
Selangor	47.8	52.9
Terengganu	43.5	39.4
Sabah	18.6	18.6
Sarawak	29.8	32.6
W. P. Kuala Lumpur	68.5	78.8
W. P. Labuan	34.4	35.0
Malaysia	48.4	47.8

<i>State</i>	<i>2006</i>	<i>2007</i>
--------------	-------------	-------------

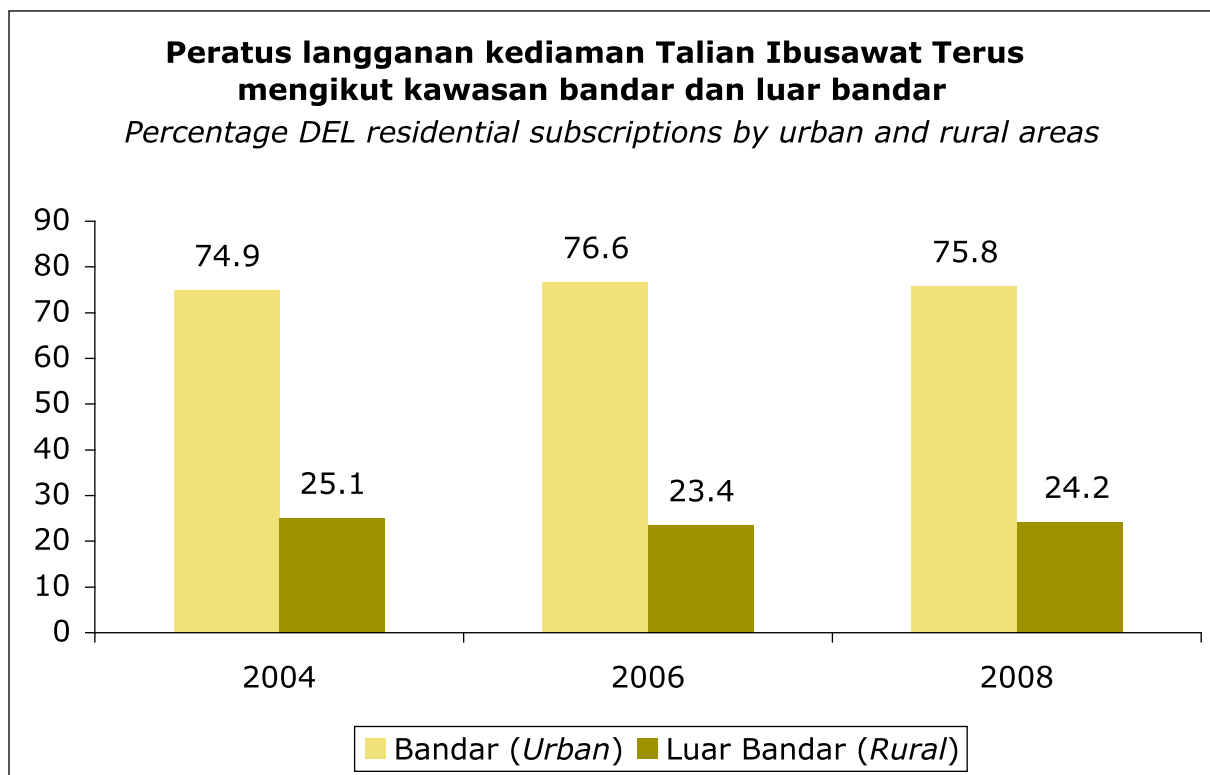


6. Peratus langganan kediaman Talian Ibusawat Terus mengikut kawasan bandar dan luar bandar

Percentage DEL residential subscriptions by urban and rural areas

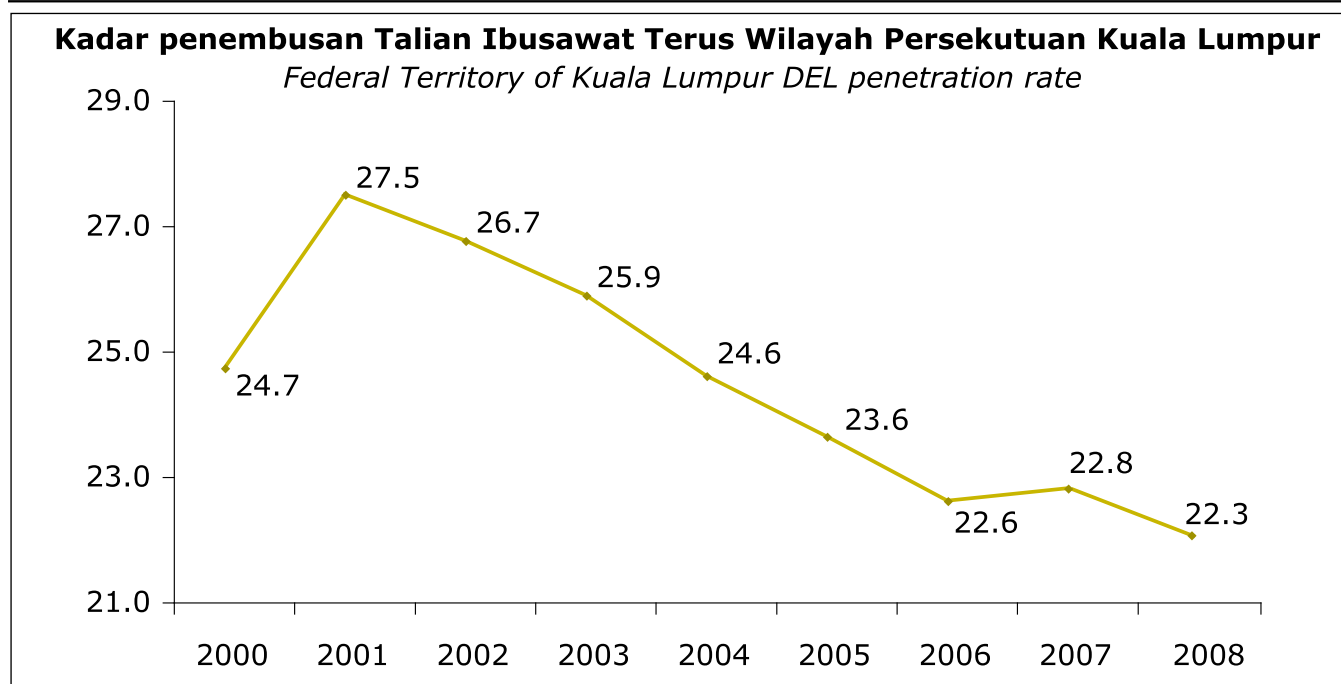
Tahun	Bandar	Luar bandar
2004	74.9	25.1
2006	76.6	23.4
2008	75.8	24.2

Year	Urban	Rural
2004	74.9	25.1
2006	76.6	23.4
2008	75.8	24.2



7. Talian Ibusawat Terus Wilayah Persekutuan Kuala Lumpur Federal Territory of Kuala Lumpur DEL

Tahun	Suku	Kadar penembusan per 100 penduduk	Kadar penembusan lain-lain kawasan per 100 penduduk	Kadar penembusan negara per 100 penduduk
Nota		1	1	1
2000		24.7	19.4	19.7
2001		27.5	19.1	19.6
2002		26.7	18.5	18.8
2003		25.9	17.6	18.1
2004		24.6	16.7	17.2
2005		23.6	16.3	16.6
2006		22.6	15.8	16.1
2007	1	23.0	15.7	16.1
	2	22.9	15.6	16.0
	3	22.8	15.5	15.9
	4	22.8	15.4	15.9
2008	1	22.7	15.3	15.8
	2	22.3	15.0	15.5
	3	22.2	15.0	15.4
	4	22.3	14.9	15.3
<i>Year</i>	<i>Qtr</i>	<i>Penetration rate per 100 inhabitants</i>	<i>Rest of country penetration rate per 100 inhabitants</i>	<i>Overall country penetration rate per 100 inhabitants</i>
Note		1	1	1



Nota penjelasan:

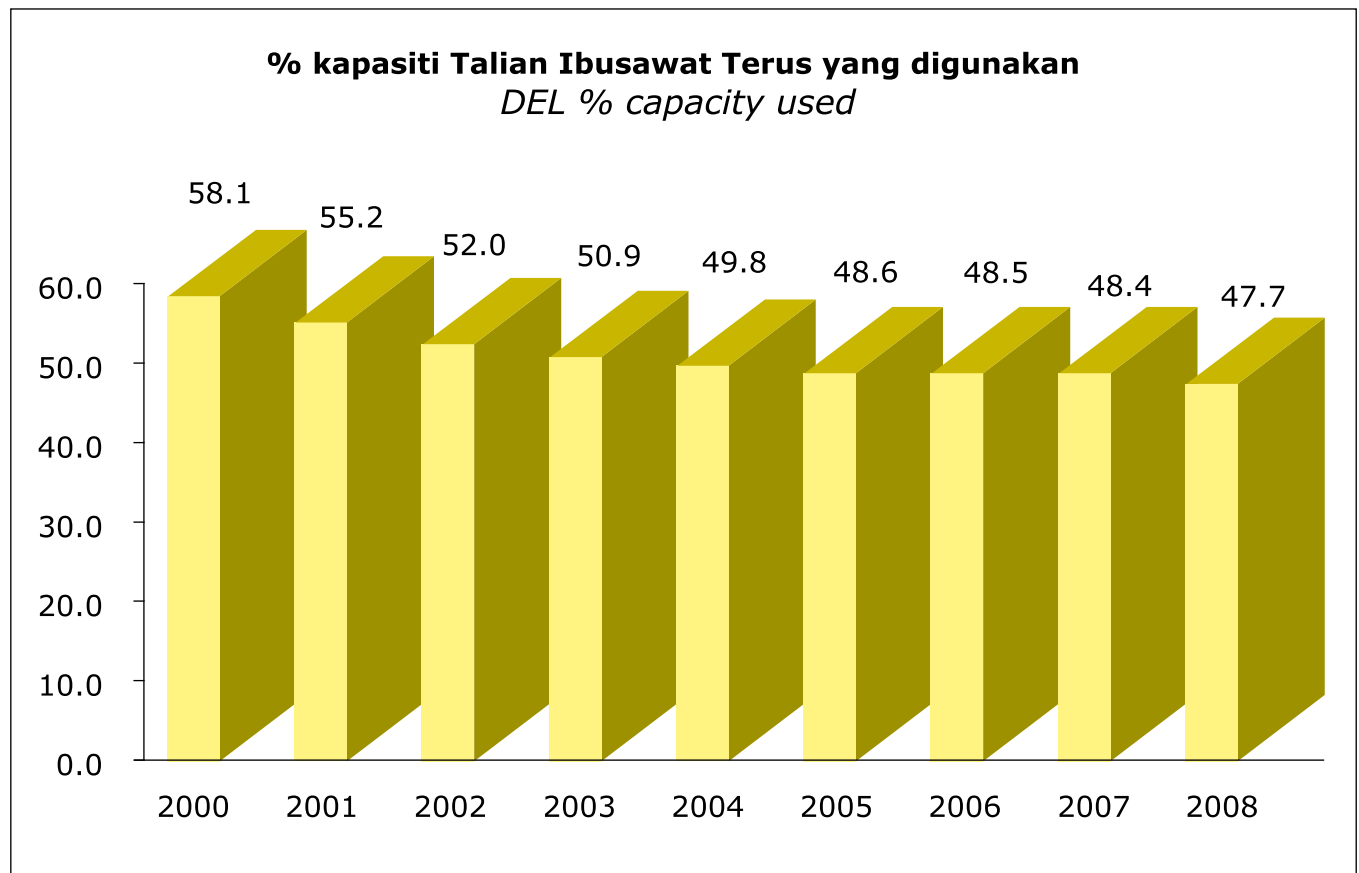
Explanatory notes:

- Merujuk kepada jumlah talian ibusawat terus ke kediaman dan perniagaan.
Refers to the total of DELs to residential as well as businesses.

8. Rangkaian Talian Ibusawat Terus (DEL)

DEL network

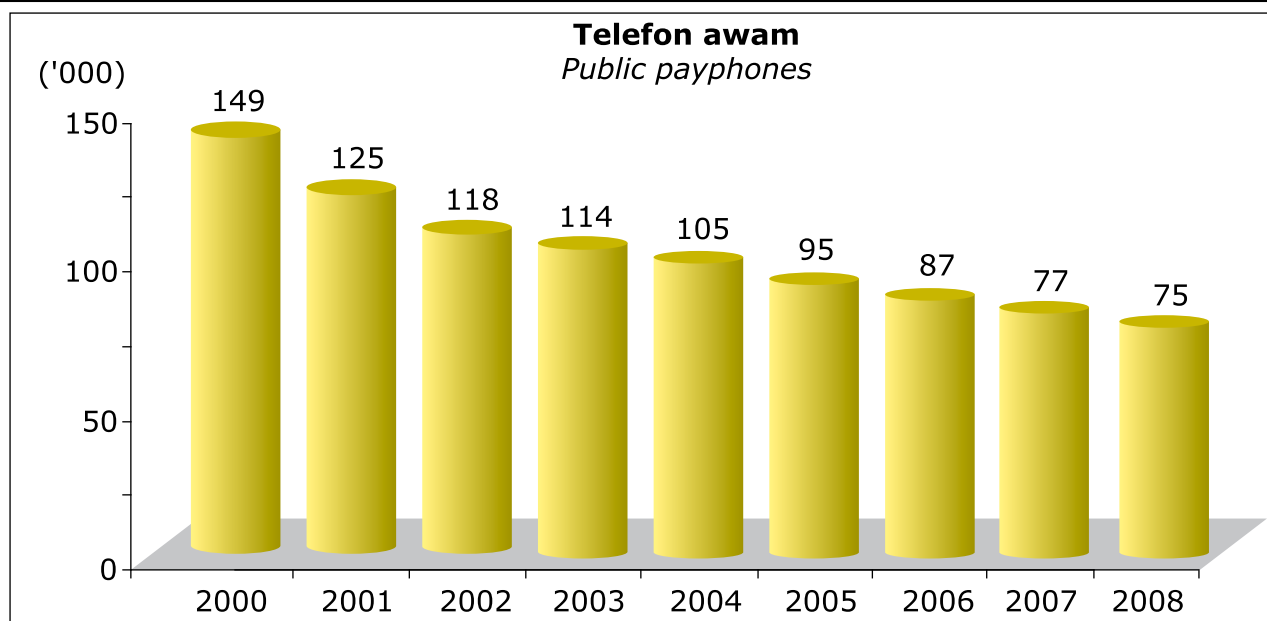
Tahun	Suku	Kapasiti telah digunakan (%)	Senarai menunggu ('000)
2000		58.1	99
2001		55.2	99
2002		52.0	66
2003		50.9	49
2004		49.8	42
2005		48.6	39.0
2006		48.5	38.9
2007	1	48.4	22.4
	2	48.4	22.6
	3	48.4	22.5
	4	48.4	19.5
2008	1	48.4	17.6
	2	47.9	15.7
	3	47.8	14.8
	4	47.7	13.1
Year	Qtr	Capacity used (%)	Waiting list ('000)



9. Telefon awam

Public payphones

Tahun	Suku	Jumlah ('000)	Setiap 1,000 penduduk
2000		149	6.34
2001		125	5.21
2002		118	4.81
2003		114	4.50
2004		105	4.10
2005		95	3.60
2006		87	3.24
2007	1	81	3.00
	2	81	2.99
	3	81	2.97
	4	77	2.81
2008	1	76	2.75
	2	74	2.67
	3	77	2.74
	4	75	2.66
Year	Qtr	Total ('000)	Per 1,000 inhabitants



Nota penjelasan:

Explanatory notes:

Telefon awam merujuk kepada jumlah bilangan semua jenis telefon awam termasuk yang menggunakan duit syiling, kad ataupun kombinasi.

Public payphones refers to the total number of all types of public telephones including coin, card-operated ones and combos.

Termasuk semua telefon awam, beroperasi ataupun tidak.

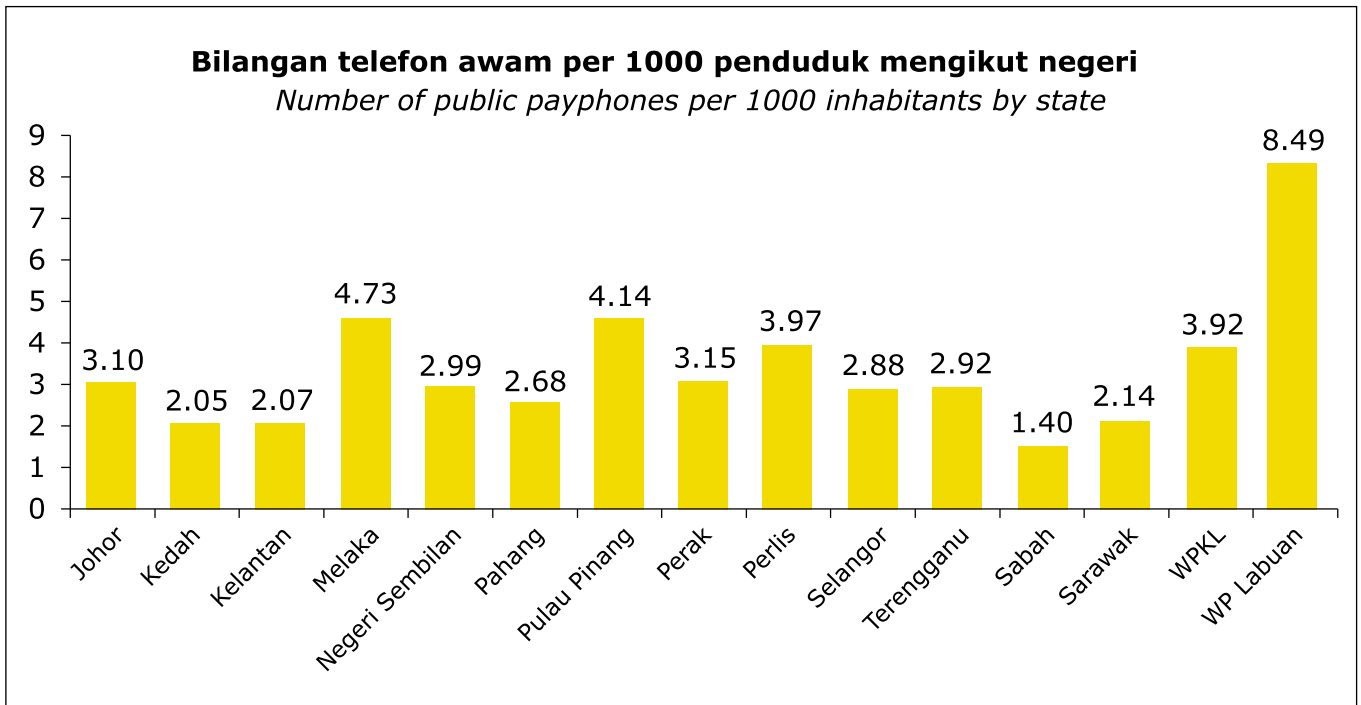
No distinction is made between operational and non-operational public payphones.

10. Bilangan telefon awam per 1000 penduduk mengikut negeri

Number of public payphones per 1000 inhabitants by state

Negeri	2007
Johor	3.10
Kedah	2.05
Kelantan	2.07
Melaka	4.73
Negeri Sembilan	2.99
Pahang	2.68
Pulau Pinang	4.14
Perak	3.15
Perlis	3.97
Selangor	2.88
Terengganu	2.92
Sabah	1.40
Sarawak	2.14
WPKL	3.92
WP Labuan	8.49

State	2007
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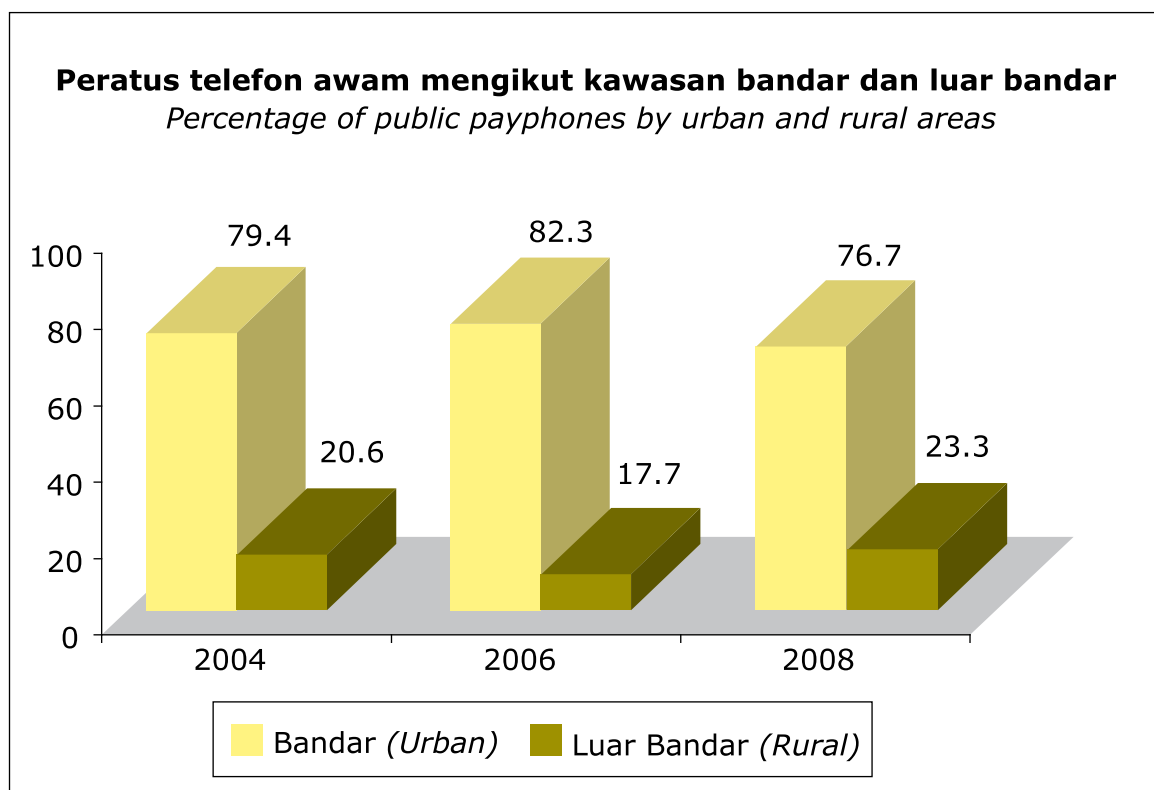


11. Peratus telefon awam mengikut kawasan bandar dan luar bandar

Percentage of public payphones by urban and rural areas

Tahun	Bandar	Luar bandar
2004	79.4	20.6
2006	82.3	17.7
2008	76.7	23.3

Year	Urban	Rural
2004	79.4	20.6
2006	82.3	17.7
2008	76.7	23.3



12. Indeks kepuasan pengguna Talian Ibusawat Terus

DEL consumer satisfaction index

	Pungutan VI	2004	2006	2007
a. Individu (<i>Individual</i>)				
Talian Ibusawat Terus (<i>DEL</i>)	7.53	3.20	3.46	3.66
Telefon awam (<i>Payphone</i>)		2.90	3.50	3.86
b. Komersial (<i>Commercial</i>)				
Talian Ibusawat Terus (<i>DEL</i>)	7.52	2.94	3.41	3.60
	<i>Wave VI</i>	<i>2004</i>	<i>2006</i>	<i>2007</i>

Nota penjelasan:

Explanatory notes:

Objektif Kajian Kepuasan Pengguna Talian Ibusawat Terus dan Telefon Awam adalah untuk menentukan tahap kepuasan bagi perkhidmatan yang diberi. Indeks Kepuasan Pengguna yang dipaparkan dalam jadual di atas dikira daripada penemuan-penemuan kajian itu. Indeks Kepuasan Pengguna adalah di dalam julat nilai 1 (tiada kepuasan langsung) hingga 10 (kepuasan sepenuhnya). Mulai 2004 ia dikonfigurasi semula kepada skala 1-5.

Consumer Satisfaction Surveys (CSS) for DELs and Payphones gauge levels of satisfaction in respect of services provided. The Consumer Satisfaction Index or CSI presented in the table above is formulated from the findings of the CSS. The CSI ranges from a scale of 1 (total dissatisfaction) to 10 (total satisfaction). However from 2004, it was reconfigured to a scale of 1 - 5.

Pungutan/Tahun	Pelaksanaan
VI	Sep - Nov 2003
2004	Aug - Dec 2004
2006	Oct - Dec 2006
2007	Oct - Dec 2007
<i>Wave/Year</i>	<i>Canvassed</i>

13. Talian telefon utama per 100 penduduk, negara-negara ASEAN

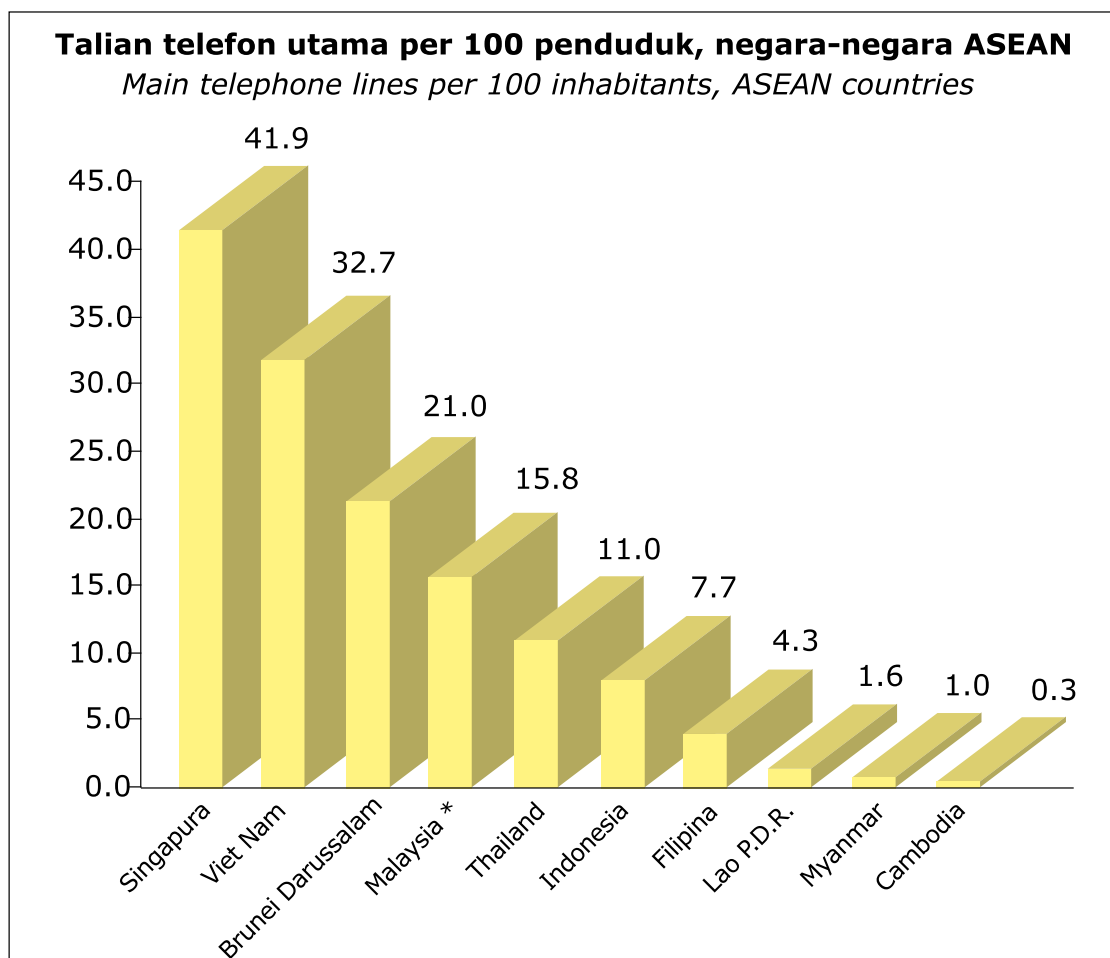
Main telephone lines per 100 inhabitants, ASEAN countries

Tahun	Singapura	Viet Nam	Brunei Darussalam	Malaysia *	Thailand
2005	42.7	18.7	25.6	16.5	11.3
2006	42.3	32.2	21.0	16.1	10.9
2007	41.9	32.7	21.0	15.8	11.0

Year	Singapore	Viet Nam	Brunei Darussalam	Malaysia*	Thailand
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Tahun	Indonesia	Filipina	Lao P.D.R.	Myanmar	Cambodia
2005	5.7	4.2	1.3	0.8	0.3
2006	6.6	4.3	1.5	0.9	0.2
2007	7.7	4.3	1.6	1.0	0.3

Year	Indonesia	Philippines	Lao P.D.R.	Myanmar	Cambodia
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Punca:

Source:

SKMM, ITU

Nota penjelasan:

Explanatory notes:

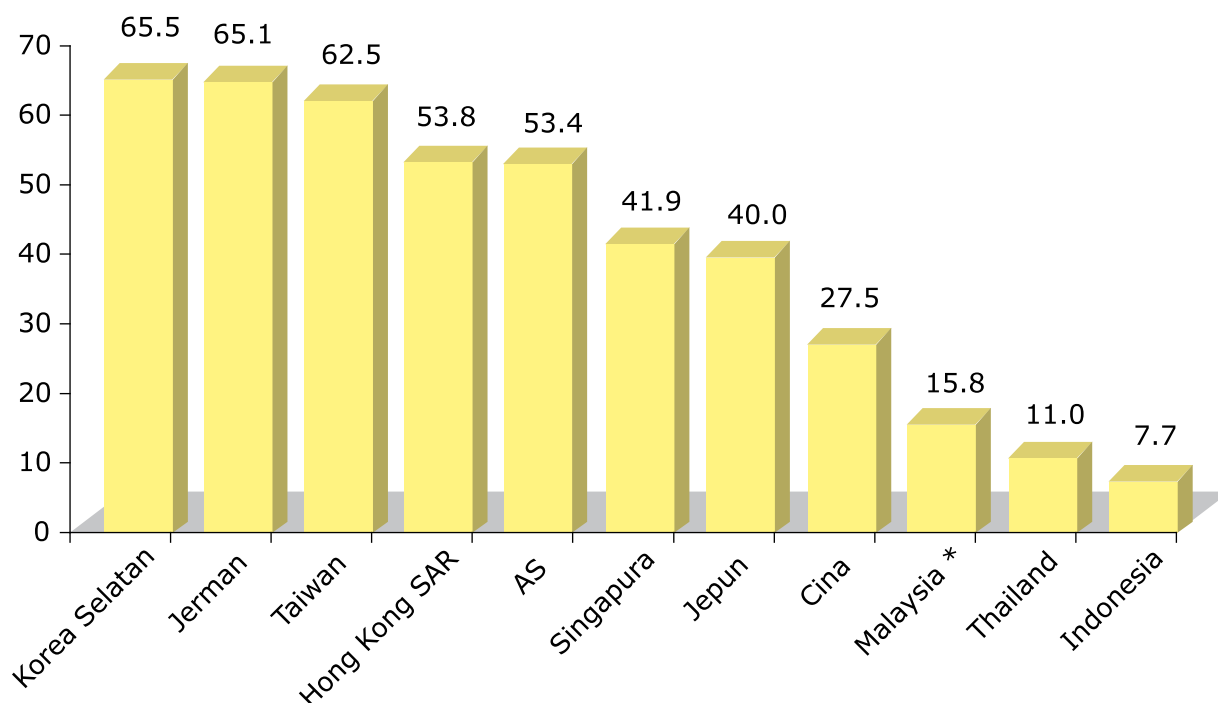
* - Talian ibusawat terus
Direct exchange line (DEL)

14. Talian telefon utama per 100 penduduk bagi 10 rakan perdagangan terbesar
Main telephone lines per 100 inhabitants for 10 biggest trading partners

Tahun	Korea Selatan	Jerman	Taiwan	Hong Kong SAR	AS	Singapura
2005	49.2	66.3	59.6	53.9	60.6	42.7
2006	65.5	65.9	63.6	53.9	55.6	42.3
2007	65.5	65.1	62.5	53.8	53.4	41.9
Year	South Korea	Germany	Taiwan	Hong Kong SAR	USA	Singapore

Tahun	Jepun	Cina	Malaysia*	Thailand	Indonesia	Dunia
2005	45.9	26.6	16.6	11.3	5.7	19.8
2006	43.0	27.8	16.1	10.9	6.6	19.5
2007	40.0	27.5	15.8	11.0	7.7	19.2
Year	Japan	China	Malaysia*	Thailand	Indonesia	Worlds

Kadar penembusan per 100 penduduk bagi 10 rakan perdagangan terbesar
Penetration rate per 100 inhabitants for 10 biggest trading partners



Punca:
Source:

Nota penjelasan:
Explanatory notes:

SKMM, ITU

* - Talian ibusawat terus
Direct exchange line (DEL)

15. Telefon selular

Cellular phones

Tahun	Suku	Pascabayar ('000)	Prabayar ('000)	Jumlah ('000)	Kadar penembusan per 100 penduduk
2000		2,599	2,523	5,122	21.8
2001		3,069	4,316	7,385	30.8
2002		2,961	6,092	9,053	36.9
2003		2,566	8,558	11,124	43.9
2004		2,555	12,057	14,611	56.5
2005		2,925	16,620	19,545	74.1
2006		3,368	16,096	19,464	72.3
2007	1	3,392	17,427	20,819	77.0
	2	3,485	17,734	21,219	78.2
	3	3,689	18,380	22,069	80.8
	4	3,905	19,442	23,347	85.1
2008	1	4,137	20,116	24,253	87.9
	2	4,451	20,635	25,086	90.6
	3	4,926	21,236	26,162	93.9
	4	5,577	21,548	27,125	96.8
Unjuran Forecast 2009	1				101.2
	2				103.1
	3				105.0
	4				106.9
Year	Qtr	Postpaid ('000)	Prepaid ('000)	Total ('000)	Penetration rate per 100 inhabitants

Nota penjelasan:

Explanatory notes:

Kadar penembusan telefon selular dijangka akan melebihi 100.0 % pada suku tahun pertama 2009. Kadar penembusan telefon selular dikira sebagai jumlah langganan dibahagi jumlah penduduk dan didarabkan dengan 100. Penembusan melebihi 100.0% boleh berlaku kerana pelanggan mempunyai lebih daripada satu langganan.

The penetration rate for cellular phone is expected to exceed 100.0% in the first quarter 2009. The penetration rate refers to the total subscriptions divided by the total population and multiplied by 100. A penetration rate is over 100.0% can occur because of multiple subscriptions.

16. Kadar penembusan telefon selular per 100 penduduk mengikut negeri

Cellular phones penetration rate per 100 inhabitants by state

Negeri	2004	2005	2006	2007
Johor	48.8	63.8	70.0	71.4
Kedah	39.6	45.7	60.2	58.8
Kelantan	27.3	35.2	51.5	46.1
Melaka	56.1	60.3	87.6	85.5
Negeri Sembilan	48.3	59.0	75.6	73.0
Pahang	32.1	45.2	56.6	59.0
Pulau Pinang	53.6	72.2	72.6	73.1
Perak	40.9	46.3	57.1	57.5
Perlis	35.5	51.0	70.6	58.2
Selangor*	60.7	74.8	76.3	76.1
Terengganu	28.3	39.5	62.4	59.2
Sabah**	23.6	31.4	36.5	39.6
Sarawak	31.7	36.6	51.5	43.3
W. P. Kuala Lumpur	69.7	89.3	93.1	91.4
Malaysia	56.5	74.1	72.3	85.1

<i>State</i>	<i>2004</i>	<i>2005</i>	<i>2006</i>	<i>2007</i>
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Nota penjelasan:

Explanatory notes:

* - Termasuk W. P. Putrajaya
Including W. P. Putrajaya

** - Termasuk W. P. Labuan
Including W.P. Labuan

Pengiraan bagi kadar penembusan mengikut negeri adalah berdasarkan kepada:

- anggaran taburan pelanggan mengikut negeri
- anggaran penduduk mengikut negeri

Anggaran taburan pelanggan diperolehi daripada *Hand Phone Users Survey* yang dijalankan oleh SKMM setiap tahun.

Anggaran penduduk diperolehi daripada Jabatan Perangkaan Malaysia.

Kadar penembusan dikira seperti berikut:

$$\frac{\text{Bilangan pelanggan dalam sesebuah negeri}}{\text{Bilangan penduduk dalam negeri tersebut}} \times 100$$

Adalah diingatkan bahawa *Hand Phone Users Survey* ini adalah satu kajiselidik dan seperti semua kajiselidik ia tertakluk kepada:

- ralat pensampelan
- ralat bukan-pensampelan

Ralat pensampelan boleh dikira dan dinyatakan dalam laporan kajian. Walau bagaimanapun ralat bukan-pensampelan tidak boleh dikira.

Oleh yang demikian angka-angka yang diperolehi perlu digunakan dengan berhati-hati.

The calculation of the penetration rate by state was based on:

- *estimated distribution of subscribers by state*
- *estimated population by state*

The former was derived from the annual Hand Phone Users Survey (HPUS) conducted by the SKMM. While the latter was provided by the Department of Statistics, Malaysia.

A penetration rate is calculated as:

$$\frac{\text{Number of subscribers in a state}}{\text{Population in the state}} \times 100$$

Users are reminded that the annual HPUS is a survey and like all surveys is subject to:

- *sampling errors*
- *non-sampling errors*

Sampling errors can be quantified and are reported in the survey report. Non-sampling errors however cannot be quantified.

These figures are therefore to be used with caution.

17. Langganan 3G

3G subscriptions

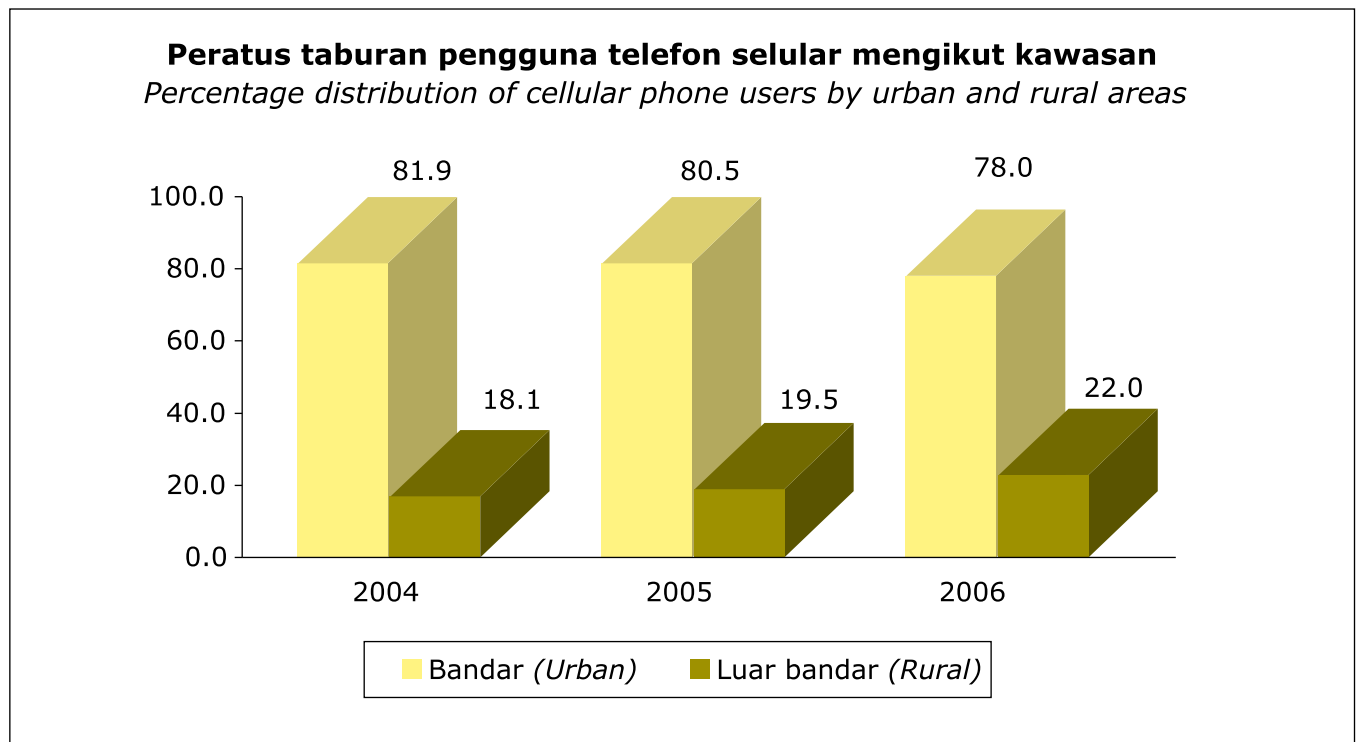
Tahun	Suku	Pascabayar (<i>'000</i>)	Prabayar (<i>'000</i>)	Jumlah (<i>'000</i>)
2006		265	162	427
2007		825	730	1,555
2008	1	1,083	765	1,848
	2	1,315	1,184	2,499
	3	<u>1,646</u>	<u>1,479</u>	<u>3,125</u>
	4	2,014	2,352	4,366
<i>Year</i>	<i>Qtr</i>	<i>Postpaid</i> (<i>'000</i>)	<i>Prepaid</i> (<i>'000</i>)	<i>Total</i> (<i>'000</i>)

18. Peratus taburan pengguna telefon selular mengikut kawasan bandar dan luar bandar

Percentage distribution of cellular phone users by urban and rural areas

Tahun	Bandar	Luar bandar
2004	81.9	18.1
2005	80.5	19.5
2006	78.0	22.0

Year	Urban	Rural
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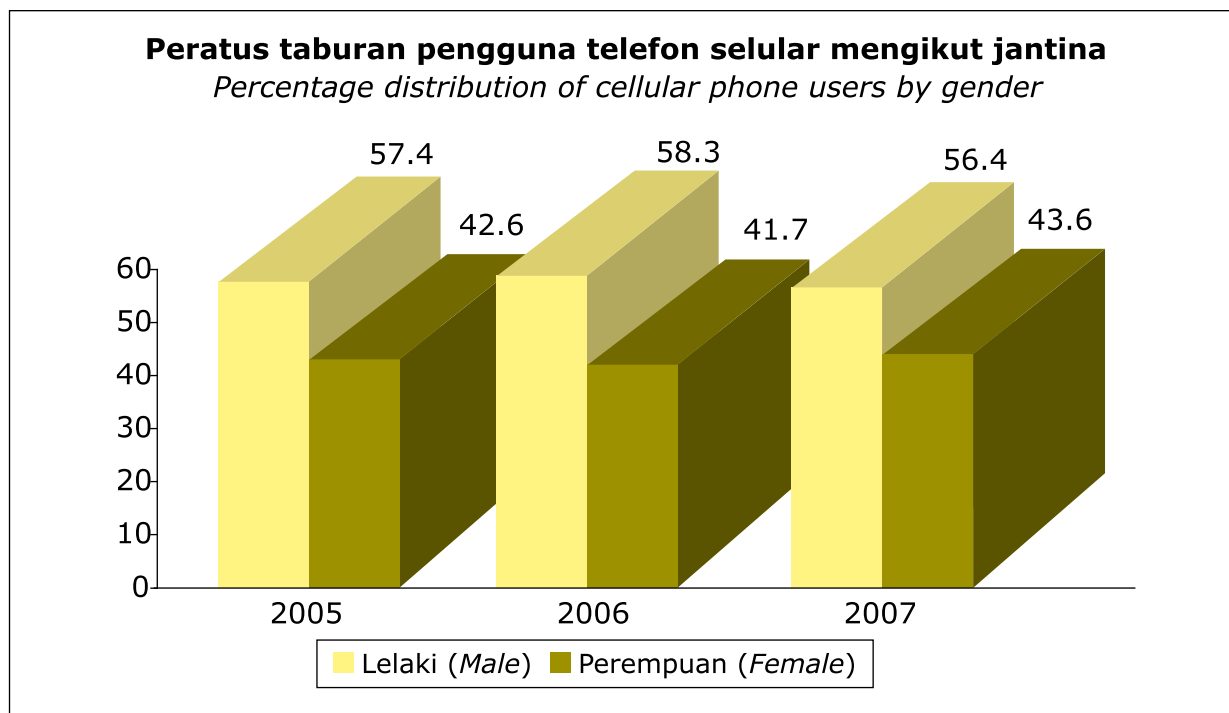


19. Peratus taburan pengguna telefon selular mengikut jantina

Percentage distribution of cellular phone users by gender

Tahun	Lelaki	Perempuan
2005	57.4	42.6
2006	58.3	41.7
2007	56.4	43.6

Year	Male	Female
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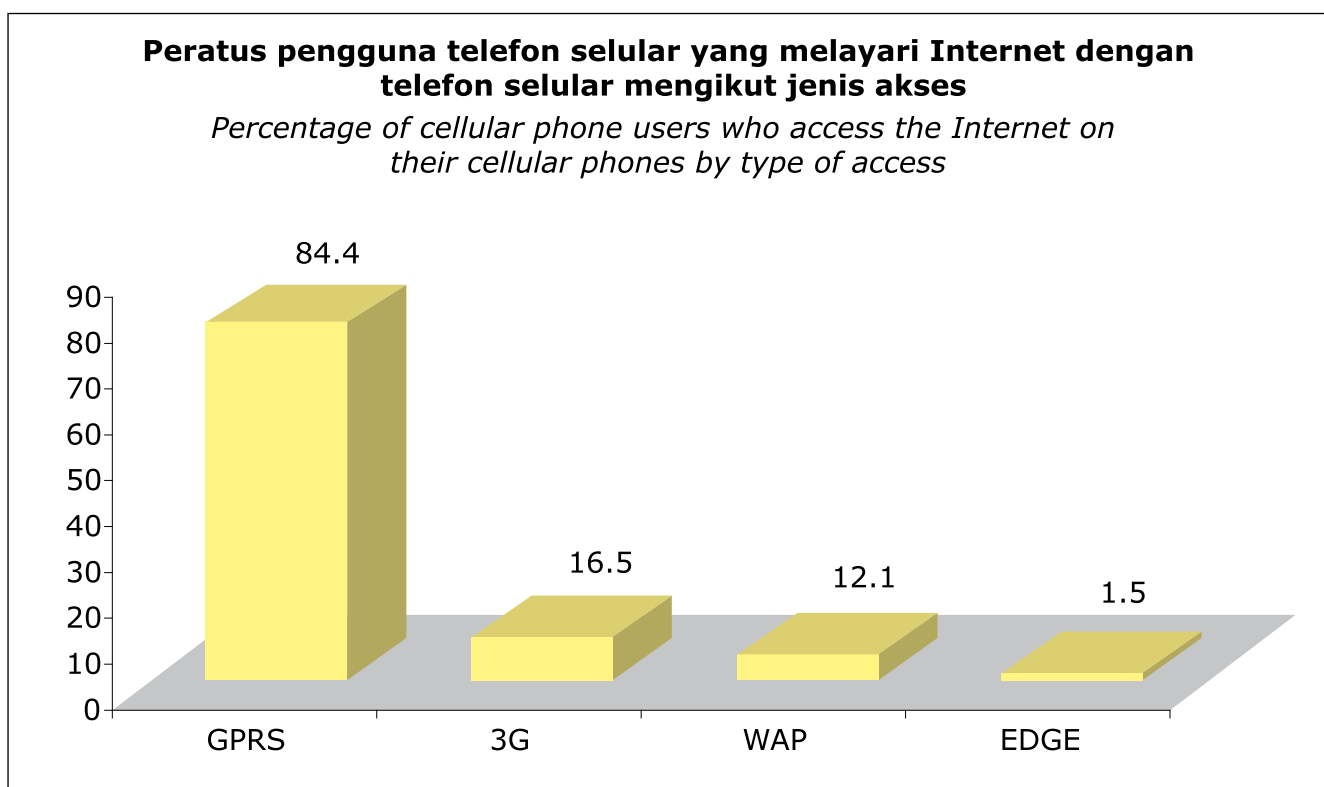


20. Peratus pengguna telefon selular yang melayari Internet dengan telefon selular mengikut jenis akses

Percentage of cellular phone users who access the Internet on their cellular phones by type of access

Jenis Akses	2007
GPRS	84.4
3G	16.5
WAP	12.1
EDGE	1.5

Type of Access	2007
----------------	------



Nota penjelasan:

Explanatory notes:

Seseorang pengguna mungkin boleh menggunakan lebih daripada satu jenis akses.
A user may use more than one type of access.

21. Perkhidmatan pesanan pendek

Short message services

Tahun	Suku	Jumlah (juta)	Per langganan
Nota		1	
2002		3,605.9	398
2003		6,163.5	554
2004		9,532.1	652
2005		21,999.0	1,126
2006		33,350.6	1,713
2007	1	11,724.0	563
	2	13,442.1	633
	3	14,689.5	664
	4	17,032.9	730
2008	1	16,833.1	694
	2	17,576.7	701
	3	18,284.1	699
	4	20,517.4	756
Year	Qtr	Total (million)	Per subscription
Nota		1	

Nota penjelasan:

Explanatory notes:

1. Jumlah dalam tempoh rujukan sahaja
Total in reference period only

22. Indeks kepuasan pengguna telefon selular

Cellular phone consumer satisfaction index

Pungutan VI		2004	2006	2007
Keseluruhan <i>Overall</i>	7.62	3.43	3.56	3.64

Wave VI		2004	2006	2007
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Nota penjelasan:

Explanatory notes:

Objektif Kajian Kepuasan Pengguna bagi Telefon Selular adalah untuk menentukan tahap kepuasan bagi perkhidmatan yang diberi. Indeks Kepuasan Pengguna yang dipaparkan dalam jadual di atas dikira daripada penemuan-penemuan kajian itu. Indeks Kepuasan Pengguna adalah di dalam julat nilai 1 (tiada kepuasan langsung) hingga 10 (kepuasan sepenuhnya). Mulai 2004 ia dikonfigurasi semula kepada skala 1 - 5.

Consumer Satisfaction Surveys (CSS) for Cellular Phones gauge levels of satisfaction in respect of services provided. The Consumer Satisfaction Index or CSI presented in the table above is formulated from the findings of the CSS. The CSI ranges from a scale of 1 (total dissatisfaction) to 10 (total satisfaction). However, from 2004 it was reconfigured to a scale of 1 - 5.

Pungutan/ Tahun	Pelaksanaan
VI	Sep - Nov 2003
2004	Aug - Dec 2004
2006	Oct - Dec 2006
2007	Oct - Dec 2007

Wave/Year	Canvassed
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23. Telefon selular per 100 penduduk, negara-negara ASEAN

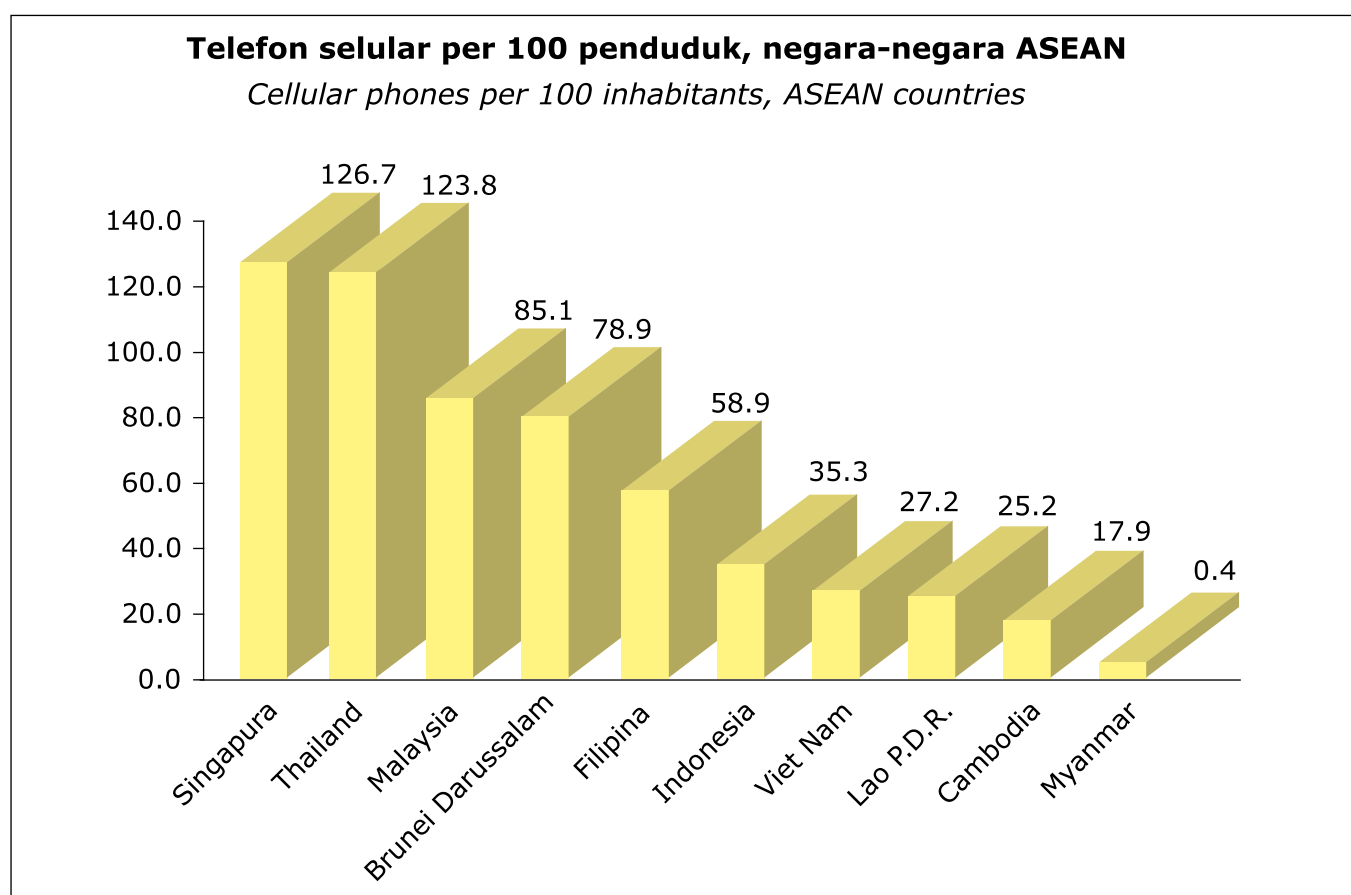
Cellular phones per 100 inhabitants, ASEAN countries

Tahun	Singapura	Thailand	Malaysia	Brunei Darussalam	Filipina
2005	101.4	26.1	74.1	56.3	39.5
2006	109.3	62.9	72.3	66.5	50.8
2007	126.7	123.8	85.1	78.9	58.9

Year	Singapore	Thailand	Malaysia	Brunei Darussalam	Philippines
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Tahun	Indonesia	Viet Nam	Lao P.D.R.	Cambodia	Myanmar
2005	21.1	10.7	10.8	7.6	0.3
2006	28.3	18.2	16.7	12.0	0.4
2007	35.3	27.2	25.2	17.9	0.4

Year	Indonesia	Viet Nam	Lao P.D.R.	Cambodia	Myanmar
------	-----------	----------	------------	----------	---------



Punca:

Source:

SKMM, ITU

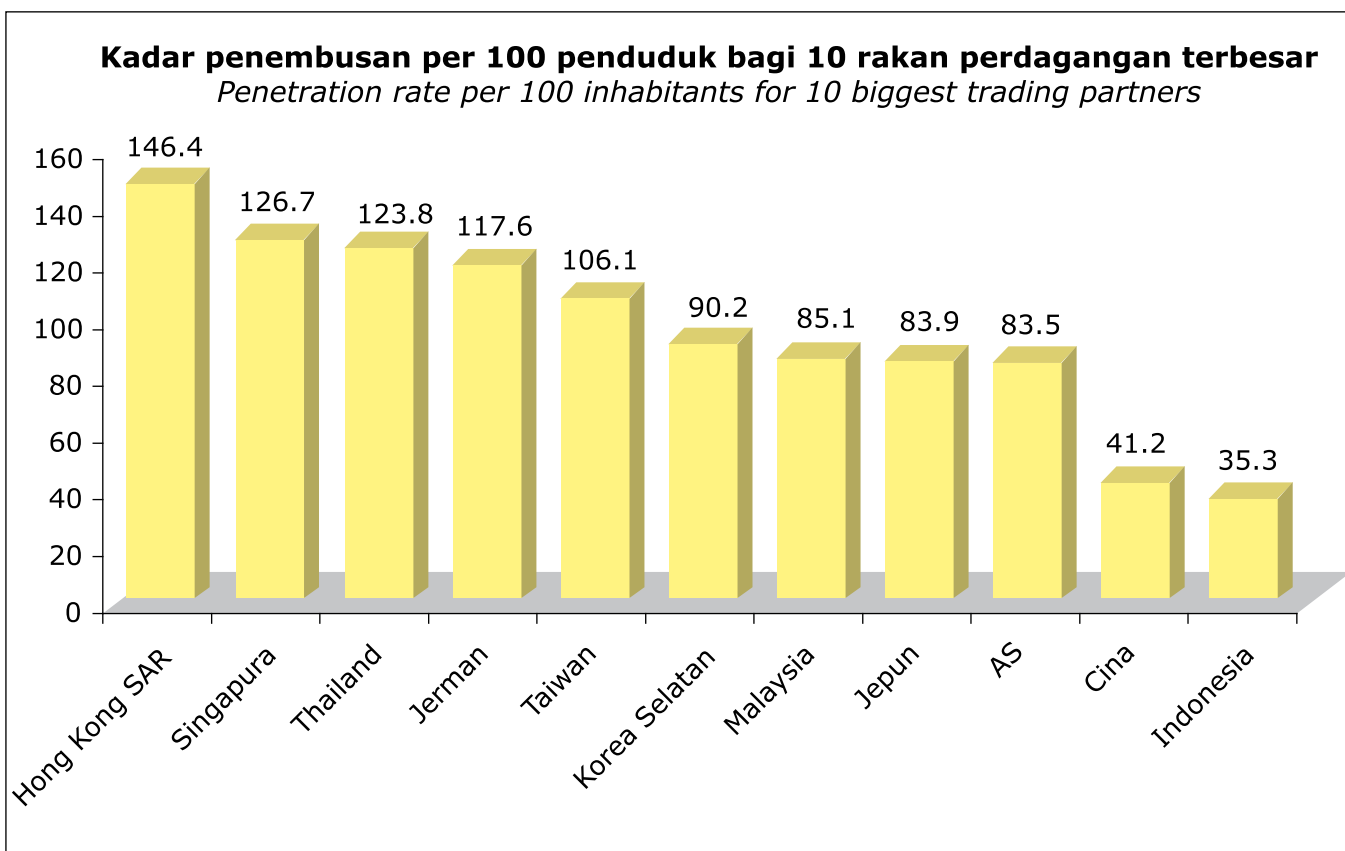
24. Telefon selular per 100 penduduk bagi 10 rakan perdagangan terbesar
Cellular phones per 100 inhabitants for 10 biggest trading partners

Tahun	Hong Kong SAR	Singapura	Thailand	Jerman	Taiwan	Korea Selatan
2005	122.6	101.4	26.1	95.9	97.0	79.4
2006	132.7	109.3	62.9	107.0	102.0	83.8
2007	146.4	126.7	123.8	117.6	106.1	90.2

Year	Hong Kong SAR	Singapore	Thailand	Germany	Taiwan	South Korea
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Tahun	Malaysia	Jepun	AS	Cina	Indonesia	Dunia
2005	74.1	74.0	67.6	29.9	21.1	31.9
2006	72.3	79.3	80.3	34.8	28.3	41.8
2007	85.1	83.9	83.5	41.2	35.3	50.0

Year	Malaysia	Japan	USA	China	Indonesia	World
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Punca:
Source:

SKMM, ITU

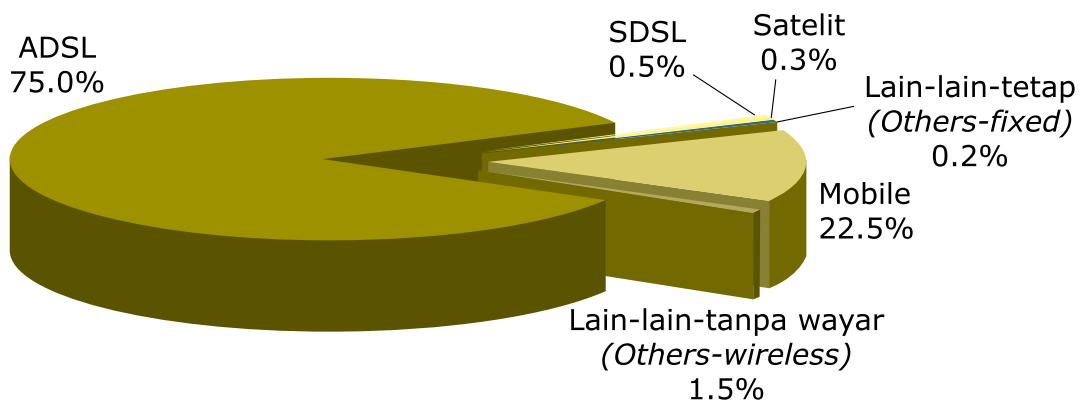
25. Bilangan langganan jalur lebar mengikut teknologi

Number of broadband subscriptions by technology

Tahun	Suku	Tetap ('000)				Tanpa wayar ('000)	
		ADSL	SDSL	Satelit	Lain-lain	Mobile	Lain-lain
2007	1	784.3	5.2	1.9		11.4	9.0
	2	859.5	5.5	2.0		13.1	9.3
	3	932.2	6.1	2.0		26.3	9.2
	4	1,002.4	6.5	2.0		96.3	8.4
2008	1	1,070.8	6.8	2.1		140.5	9.1
	2	1,162.5	7.4	2.1		<u>185.6</u>	<u>17.6</u>
	3	1,234.1	7.8	2.9	5.9	<u>215.1</u>	<u>18.7</u>
	4	1,284.8	7.9	4.9	4.0	386.2	26.3
Unjuran Forecast 2009	1	1,342.6					
	2	1,423.4					
	3	1,493.3					
	4	1,569.4					
Year	Qtr	ADSL	SDSL	Satellite	Others	Mobile	Others
		<i>Fixed ('000)</i>				<i>Wireless ('000)</i>	

Peratus langganan jalur lebar mengikut teknologi

Percentage of broadband subscriptions by technology



26. Kadar penembusan jalur lebar per 100 isi rumah mengikut negeri

Broadband penetration rate per 100 households by state

Negeri	2007	2008			
		Suku 1	Suku 2	Suku 3	Suku 4
Johor	<u>13.3</u>	<u>14.5</u>	<u>16.1</u>	<u>17.2</u>	19.4
Kedah	<u>7.6</u>	<u>8.5</u>	<u>9.2</u>	<u>9.8</u>	11.2
Kelantan	<u>4.6</u>	<u>5.1</u>	<u>5.6</u>	<u>6.1</u>	7.1
Melaka	<u>15.0</u>	<u>16.5</u>	<u>18.3</u>	<u>19.5</u>	21.4
Negeri Sembilan	<u>11.1</u>	<u>12.5</u>	<u>14.3</u>	<u>15.5</u>	17.4
Pahang	<u>6.4</u>	<u>7.1</u>	<u>7.9</u>	<u>8.7</u>	10.0
Pulau Pinang	<u>25.5</u>	<u>26.9</u>	<u>28.9</u>	<u>31.2</u>	33.2
Perak	<u>10.1</u>	<u>11.2</u>	<u>12.7</u>	<u>13.8</u>	15.2
Perlis	<u>6.1</u>	<u>7.3</u>	<u>8.3</u>	<u>9.2</u>	10.9
Selangor	<u>25.1</u>	<u>26.7</u>	<u>28.6</u>	<u>30.1</u>	37.0
Terengganu	<u>6.6</u>	<u>7.6</u>	<u>8.7</u>	<u>9.3</u>	10.6
Sabah	<u>6.7</u>	<u>7.3</u>	<u>7.9</u>	<u>8.4</u>	9.5
Sarawak	<u>9.7</u>	<u>10.5</u>	<u>11.5</u>	<u>12.2</u>	13.6
W. P. Kuala Lumpur	<u>40.1</u>	<u>42.7</u>	<u>47.9</u>	<u>50.2</u>	53.9
W.P. Labuan	<u>14.9</u>	<u>16.5</u>	<u>17.4</u>	<u>18.7</u>	21.2
Malaysia	15.2	16.4	18.0	19.2	21.1

State	2007	2008			
		Qtr 1	Qtr 2	Qtr 3	Qtr 2

Nota penjelasan:

Explanatory notes:

Dipinda untuk mengambilkira perkhidmatan tanpa wayar termasuk penggunaan jalur lebar mudah alih ke isirumah.

Revised to take into account wireless access including mobile broadband in households.

Kajian Jalur Lebar Tanpa Wayar SKMM 2009, mendapati sebanyak 39.4% daripada jumlah langganan jalur lebar mudah alih adalah untuk kegunaan di rumah.

The SKMM Wireless Broadband Survey 2009, found that as much as 39.4% of all mobile broadband subscriptions are used for access in households.

27. Bilangan lokasi 'Hotspot' mengikut negeri

Number of Hotspot locations by state

Negeri	2005	2006	2007	2008			
				Suku 1	Suku 2	Suku 3	Suku 4
Johor	79	94	81	82	88	100	104
Kedah	36	31	56	58	58	64	64
Kelantan	30	30	37	39	41	49	47
Melaka	20	34	41	39	44	43	44
Negeri Sembilan	24	31	36	37	37	39	40
Pahang	58	80	88	85	88	92	96
Perak	44	43	111	118	118	203	196
Pulau Pinang	88	94	120	131	146	122	122
Perlis	...	...	2	2	2	2	2
Selangor	319	352	356	363	577	428	574
Terengganu	43	35	39	40	41	43	41
Sabah	37	44	42	36	36	36	37
Sarawak	75	75	79	82	84	90	90
W. P. Kuala Lumpur	352	395	376	365	607	677	494
W.P. Labuan	9	9	10	8	8	8	8
W.P. Putrajaya	13	11	11	11	11	12	11
Malaysia	1,227	1,358	1,485	1,496	1,986	2,008	1970
<i>State</i>	<i>2005</i>	<i>2006</i>	<i>2007</i>	<i>2008</i>			
				<i>Qtr 1</i>	<i>Qtr 2</i>	<i>Qtr 3</i>	<i>Qtr 4</i>

28 Bilangan langganan 'Hotspot'

Number of Hotspot subscriptions

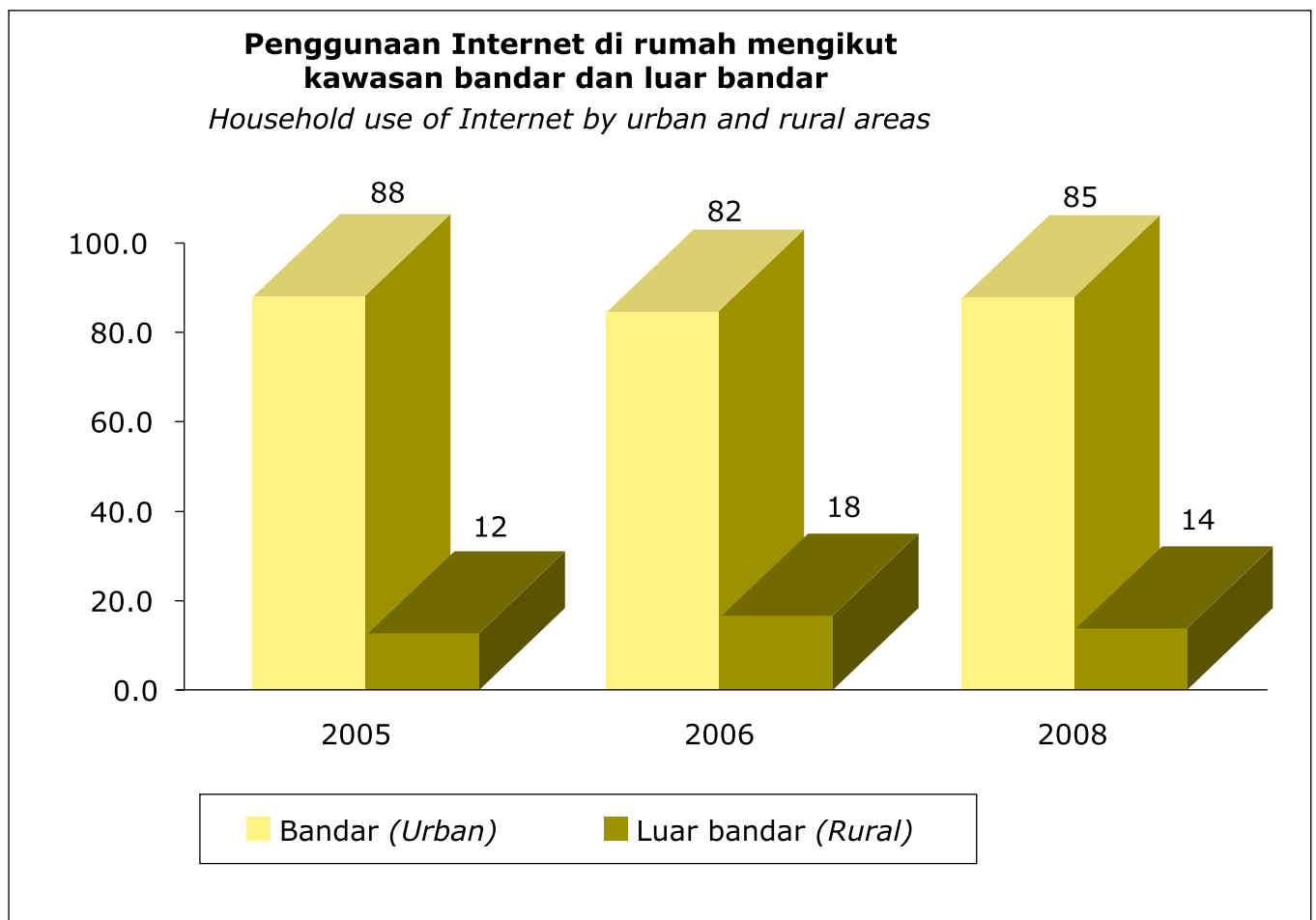
Tahun	Suku	Jumlah ('000)
2005		20.3
2006		141.4
2007	1	180.1
	2	219.1
	3	257.6
	4	289.3
2008	1	309.9
	2	358.8
	3	<u>348.3</u>
	4	355.4
<i>Year</i>	<i>Qtr</i>	<i>Total ('000)</i>

29. Penggunaan Internet di rumah mengikut kawasan bandar dan luar bandar

Household use of Internet by urban and rural areas

(%)		
Tahun	Bandar	Luar bandar
2005	88.0	12.0
2006	82.0	18.0
2008	85.0	14.0

Year	Urban	Rural
------	-------	-------



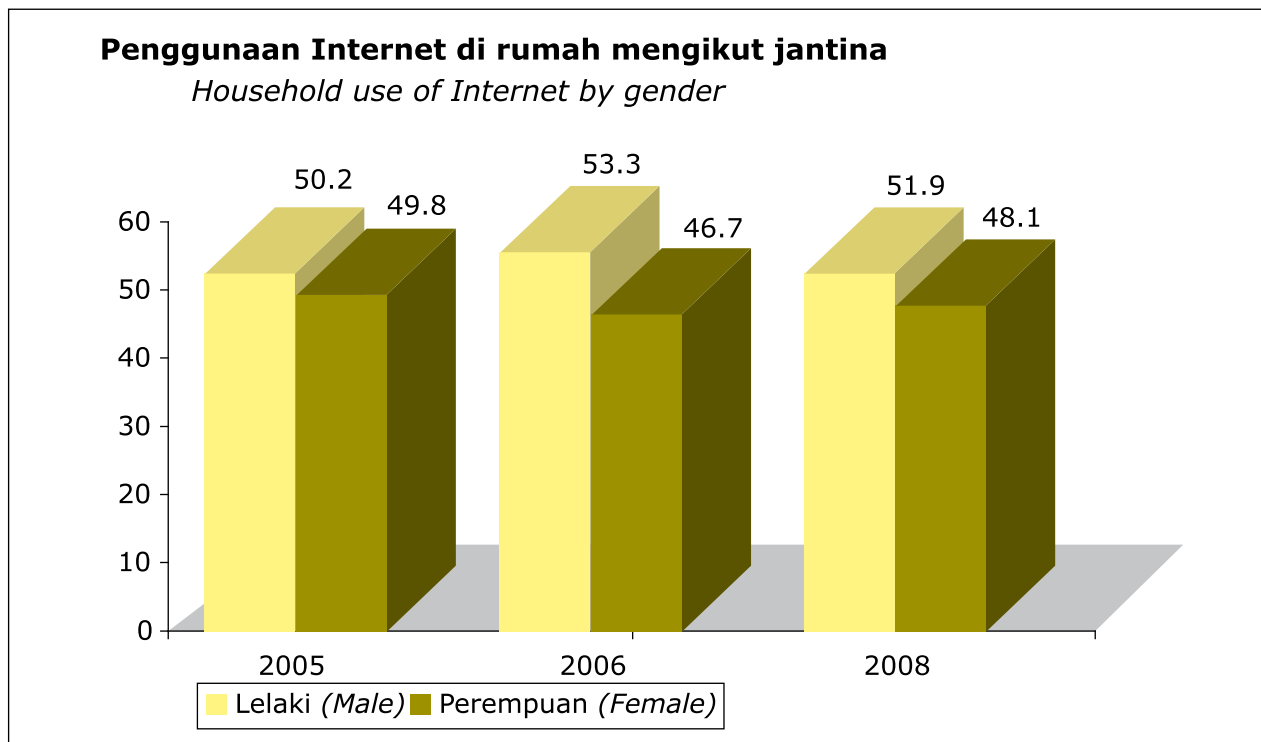


30. Penggunaan Internet di rumah mengikut jantina

Household use of Internet by gender

Tahun	Lelaki	Perempuan
2005	50.2	49.8
2006	53.3	46.7
2008	51.9	48.1

Year	Male	Female
------	------	--------



31. Penggunaan Internet di rumah mengikut kategori umur

Household use of Internet by age categories

	(%)		
Kategori umur	2005	2006	2008
Bawah 15 (<i>Below 15</i>)	6.5	7.3	6.8
15-19	18.6	18.7	17.9
20-24	17.2	16.3	15.7
25-29	12.5	11.3	11.9
30-34	12.2	12.3	11.7
35-39	9.9	10.4	11.2
40-44	9.6	10.6	9.3
45-49	5.1	6.1	6.1
50 dan ke atas (<i>50 and above</i>)	8.4	7.1	9.4

<i>Age category</i>	<i>2005</i>	<i>2006</i>	<i>2008</i>
---------------------	-------------	-------------	-------------

32. Penggunaan Internet di rumah mengikut bilangan jam penggunaan seminggu

Household use of Internet by number of hours of use per week

		(%)
	2006	2008
Kurang daripada 4 jam <i>Less than 4 hours</i>	25.7	28.0
4 tetapi kurang daripada 8 jam <i>4 but less than 8 hours</i>	22.3	23.2
8 tetapi kurang daripada 15 jam <i>8 but less than 15 hours</i>	20.3	19.3
15 tetapi kurang daripada 22 jam <i>15 but less than 22 hours</i>	10.3	8.4
22 tetapi kurang daripada 28 jam <i>22 but less than 28 hours</i>	5.8	5.2
Lebih daripada 28 jam <i>28 hours and above</i>	15.7	16.0
	2006	2008

33. Penggunaan Internet di rumah mengikut kegunaan utama

Household use of Internet by main use

	2005	2006	2008
Mendapatkan maklumat <i>Getting information</i>	40.5	84.5	94.4
Berkomunikasi melalui teks <i>Communication by text</i>	99.6	80.7	84.7
Aktiviti waktu lapang <i>Leisure</i>	47.1	52.6	63.5
Pendidikan <i>Education</i>	46.8	45.9	64.5
Aktiviti kewangan <i>Financial Activities</i>	14.6	23.6	31.8
Perkhidmatan awam <i>Public services</i>	12.7	12.0	29.2
Transaksi e-Kerajaan <i>e-Government transactions</i>			19.8
Urusniaga saham dalam talian <i>Online stock trading</i>			5.9
Lain-lain <i>Others</i>	1.3	0.2	0.7
	2005	2006	2008

34. Peratus isi rumah yang mempunyai kemudahan komputer peribadi mengikut negeri
Percentage of households with access to personal computer by state

Negeri	2000	2002	2004
Johor	11.4	22.9	27.9
Kedah	8.7	17.4	23.5
Kelantan	5.9	13.5	16.2
Melaka	13.9	26.3	25.3
Negeri Sembilan	12.8	22.1	25.1
Pahang	9.6	17.2	21.5
Pulau Pinang	19.5	30.4	29.9
Perak	10.3	19.5	20.4
Perlis	8.9	16.7	20.7
Selangor	23.6	36.8	43.9
Terengganu	8.6	15.2	19.8
Sabah	7.1	17.8	21.2
Sarawak	8.5	16.4	35.5
W. P. Kuala Lumpur	24.2	33.0	39.5
Malaysia	13.5	24.1	28.2
<i>State</i>	<i>2000</i>	<i>2002</i>	<i>2004</i>

Punca:

Source:

Jabatan Perangkaan Malaysia
Department of Statistics, Malaysia

35. Capaian Komuniti

Community Access

Negeri	Pusat Jalur Lebar Komuniti	Perpustakaan Jalur Lebar Komuniti	Program Pembangunan Komunikasi Rakyat	Pusat Internet Desa
Johor	12	7		6
Kedah	3	17	2	4
Kelantan	1	14		2
Melaka	10	5		1
Negeri Sembilan	5	8		3
Pahang	15	6		3
Pulau Pinang				2
Perak			55	5
Perlis			1	1
Selangor	2	11		6
Terengganu	12	10		2
Sabah	6	1		3
Sarawak	19	26		4
Malaysia	85	105	58	42
<i>State</i>	<i>Community Broadband Centre</i>	<i>Community Broadband Library</i>	<i>Community Communications Development Programme</i>	<i>Rural Internet Centres</i>

Punca:

Source:

SKMM, KTAK
SKMM, MEWC

Nota penjelasan:

Explanatory notes:

Projek Perpustakaan Jalur Lebar Komuniti dan Pusat Jalur Lebar Komuniti bertujuan untuk menyediakan kemudahan capaian Internet jalur lebar kepada komuniti di kawasan-kawasan luar bandar di seluruh negara. Fokus projek-projek ini adalah untuk membantu dalam memberi kemudahan Internet jalur lebar dan peralatan ICT kepada komuniti yang terpinggir daripada pembangunan digital di kawasan luar bandar melalui akses komunikasi dan multimedia.

Program Pembangunan Komunikasi Rakyat ini dimulakan dan dibiayai oleh SKMM. Objektifnya adalah untuk meningkatkan kawasan liputan dan perkhidmatan rangkaian dan perkhidmatan aplikasi.

Pusat Internet Desa merupakan aspek fizikal untuk Program Internet Desa. Program ini adalah sebahagian daripada program yang melibatkan secara terus masyarakat tempatan daripada semua aspek seperti penyelenggaraan dan pengurusan harian. Program ini dikendalikan oleh Kementerian Tenaga, Air dan Komunikasi.

The objective of Community Broadband Centre and Community Broadband Library is to provide Internet broadband access to the community at the rural areas. The focus of these projects is to offer the broadband access and the ICT equipments to the rural community that has been excluded from the development of the digital through the communications and multimedia access.

The Community Communications Development Programme was initiated and funded by the SKMM. Its objective is to increase community access to network services and facilities.

The Rural Internet Centre is the physical aspect of the Rural Internet Programme. This programme is part of a larger programme that involves the local community directly from all aspects such as maintenance and daily management. This programme is under the auspices of KTAK.

36. Indeks kepuasan pengguna Internet

Internet access consumer satisfaction index

	Pungutan VI	2004	2006	2007
a. Individu (<i>Individual</i>)				
Dial-up	7.59	2.82	3.13	3.49
Jalur lebar (<i>Broadband</i>)	...	...	3.22	3.52
b. Komersial (<i>Commercial</i>)				
Dial-up	7.34	2.61	3.10	3.46
Jalur lebar (<i>Broadband</i>)	...	...	3.18	3.47
	<i>Wave VI</i>	<i>2004</i>	<i>2006</i>	<i>2007</i>

Nota penjelasan:

Explanatory notes:

Objektif Kajian Kepuasan Pengguna bagi Internet adalah untuk menentukan tahap kepuasan bagi perkhidmatan yang diberi. Indeks Kepuasan Pengguna yang dipaparkan dalam jadual di atas dikira daripada penemuan-penemuan kajian itu. Indeks Kepuasan Pengguna adalah di dalam julat nilai 1 (tiada kepuasan langsung) hingga 10 (kepuasan sepenuhnya). Mulai 2004 ia dikonfigurasi semula kepada skala 1 - 5.

Consumer Satisfaction Surveys (CSS) for internet access tries gauge levels of satisfaction in respect of services provided. The Consumer Satisfaction Index or CSI presented in the table above is formulated from the findings of the CSS. The CSI ranges from a scale of 1 (total dissatisfaction) to 10 (total satisfaction). However from 2004 it was reconfigured to a scale of 1 - 5.

Pungutan/ Tahun	Pelaksanaan
VI	Sep - Nov 2003
2004	Aug - Dec 2004
2006	Oct - Dec 2006
2007	Oct - Dec 2007
<i>Wave/Year</i>	<i>Canvassed</i>

37. Peratus isi rumah yang mempunyai kemudahan peralatan Radio/Hi-fi mengikut negeri

Percentage of households with access to Radio/Hi-fi by state

Negeri	2000	2002	2004
Johor	83.5	89.2	87.1
Kedah	79.9	85.3	81.5
Kelantan	76.9	81.7	85.1
Melaka	85.1	92.8	90.8
Negeri Sembilan	85.8	90.9	90.3
Pahang	80.5	90.6	84.0
Pulau Pinang	83.8	89.3	86.2
Perak	83.8	90.4	88.2
Perlis	81.5	90.7	84.3
Selangor	82.1	90.6	88.2
Terengganu	74.0	79.8	73.2
Sabah	62.5	76.1	73.6
Sarawak	70.8	83.9	83.4
W. P. Kuala Lumpur	79.8	88.8	88.0
Malaysia	78.8	87.5	84.5
<i>State</i>	<i>2000</i>	<i>2002</i>	<i>2004</i>

Punca:

Source:

Jabatan Perangkaan Malaysia
Department of Statistics, Malaysia

38. Peratus isi rumah yang mempunyai kemudahan peralatan televisyen mengikut negeri

Percentage of households with access to television by state

Negeri	2000	2002	2004
Johor	88.8	96.1	95.4
Kedah	88.8	93.5	96.5
Kelantan	83.2	90.9	94.0
Melaka	90.3	95.9	97.8
Negeri Sembilan	91.1	95.1	96.6
Pahang	86.6	94.5	95.9
Pulau Pinang	90.3	95.8	97.1
Perak	90.1	96.4	98.1
Perlis	90.3	95.2	95.5
Selangor	87.1	95.0	97.8
Terengganu	86.4	92.0	92.6
Sabah	66.5	81.3	87.1
Sarawak	72.5	89.3	97.3
W. P. Kuala Lumpur	84.6	97.9	93.8
Malaysia	84.3	93.8	95.2
<i>State</i>	<i>2000</i>	<i>2002</i>	<i>2004</i>

Punca:

Source:

Jabatan Perangkaan Malaysia
Department of Statistics, Malaysia

39. Peratus isi rumah yang mempunyai kemudahan peralatan Video/VCD/DVD mengikut negeri

Percentage of households with access to Video/VCD/DVD by state

Negeri	2000	2002	2004
Johor	56.0	74.8	78.9
Kedah	45.4	61.5	71.6
Kelantan	28.2	51.3	68.1
Melaka	59.4	74.7	78.7
Negeri Sembilan	60.3	76.0	81.7
Pahang	49.1	66.9	75.1
Pulau Pinang	69.5	80.6	83.5
Perak	57.3	73.8	76.9
Perlis	41.8	59.4	71.0
Selangor	66.8	78.4	85.8
Terengganu	36.3	56.7	62.4
Sabah	35.8	56.2	68.1
Sarawak	45.6	64.6	84.7
W. P. Kuala Lumpur	68.6	82.1	83.5
Malaysia	53.5	71.0	77.4
<i>State</i>	<i>2000</i>	<i>2002</i>	<i>2004</i>

Punca:

Source:

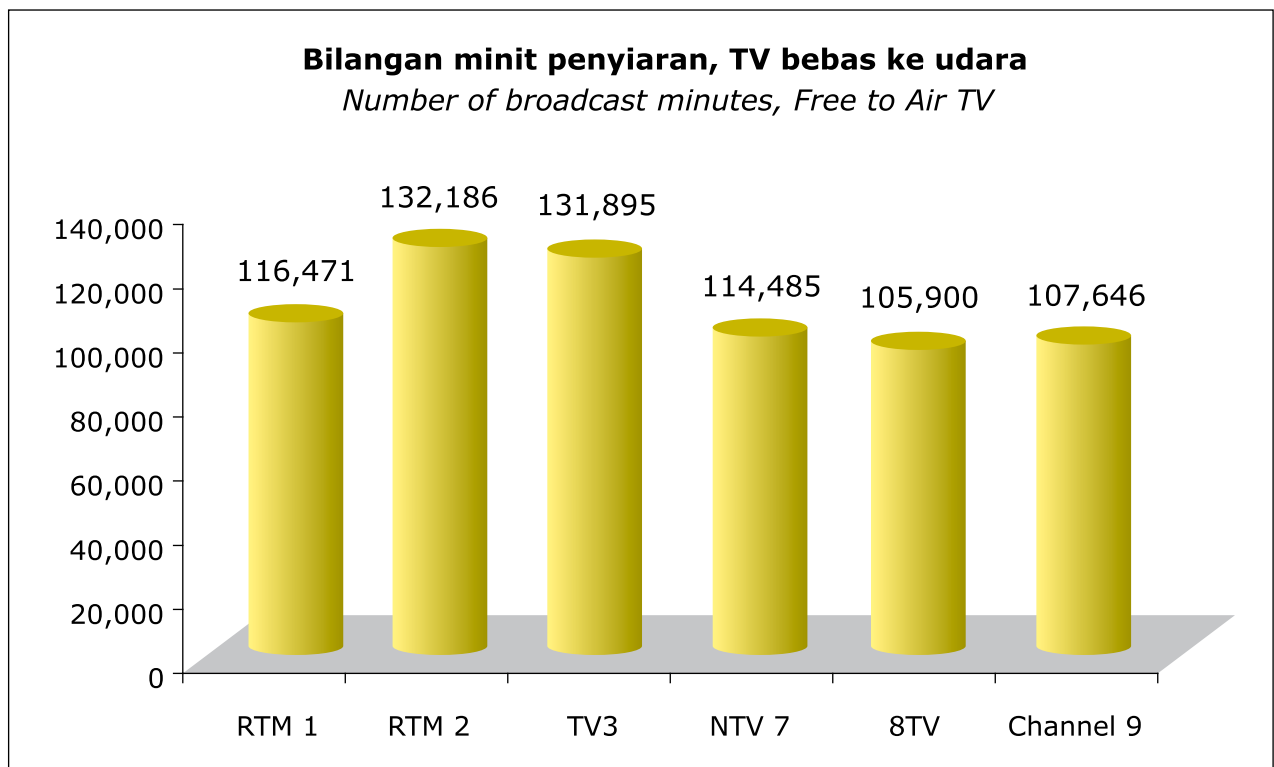
Jabatan Perangkaan Malaysia
Department of Statistics, Malaysia

40. Bilangan minit penyiaran, TV bebas ke udara

Number of broadcast minutes, Free to Air TV

Tahun	Suku	Stesen TV						Jumlah
		RTM 1	RTM 2	TV3	NTV7	8TV	Channel 9	
2007	1	111,901	130,019	115,310	96,904	110,338	87,546	652,018
	2	114,627	130,813	121,109	98,667	112,365	89,139	666,720
	3	118,794	130,889	130,631	101,695	111,972	100,689	694,670
	4	117,967	129,884	131,805	99,421	112,442	103,661	695,180
2008	1	113,101	130,608	130,461	94,607	110,197	104,906	683,880
	2	113,879	129,751	130,725	98,294	109,082	102,920	684,651
	3	121,350	132,073	131,071	116,118	110,780	113,574	724,966
	4	116,471	132,186	131,895	114,485	105,900	107,646	708,583

Year	Qtr	TV station						Total
		RTM 1	RTM 2	TV3	NTV7	8TV	Channel 9	



Punca:

Source:

AGB Nielsen

41. Bilangan langganan televisyen berbayar

Number of payTV subscriptions

Tahun	Suku	Bilangan langganan ('000)			Kadar Penembusan per 100 isi rumah
		Kediaman	Komersial	Jumlah	
2007	1	2,083	193	2,276	35.4
	2	2,111	199	2,310	35.8
	3	2,203	201	2,404	37.1
	4	2,272	210	2,482	38.1
2008	1	2,368	216	2,584	39.5
	2	2,469	219	2,688	41.0
	3	2,565	223	2,788	42.3
Year	Qtr	Number of subscriptions ('000)			Penetration Rate per 100 household
		Residential	Commercial	Total	

42. Indeks kepuasan pengguna TV dan Radio

TV and Radio consumer satisfaction index

	Pungutan VI	2004	2006	2007
TV bebas ke udara (<i>Free to air TV</i>)	3.80	3.41	3.69	4.02
TV berbayar (<i>Pay TV</i>)	3.79	3.10	3.40	3.55
Radio	3.81	3.56	3.71	4.02
	<i>Wave VI</i>	<i>2004</i>	<i>2006</i>	<i>2007</i>

Nota penjelasan:

Explanatory notes:

Objektif Kajian Kepuasan Pengguna bagi Radio dan TV adalah untuk menentukan tahap kepuasan bagi perkhidmatan yang diberi. Indeks Kepuasan Pengguna yang dipaparkan dalam jadual di atas dikira daripada penemuan-penemuan kajian itu. Indeks Kepuasan Pengguna adalah di dalam julat nilai 1 (tiada kepuasan langsung) hingga 5 (kepuasan sepenuhnya).

Consumer Satisfaction Surveys (CSS) for Radio and TV gauge levels of satisfaction in respect of services provided. The Consumer Satisfaction Index or CSI presented in the table above is formulated from the findings of the CSS. The CSI ranges from a scale of 1 (total dissatisfaction) to 5 (total satisfaction).

Pungutan/Tahun	Pelaksanaan
VI	Sep - Nov 2003
2004	Aug - Dec 2004
2006	Oct - Dec 2006
2007	Oct - Dec 2007
<i>Wave/Year</i>	<i>Canvassed</i>

Q4

2008

KOMUNIKASI & MULTIMEDIA
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**SELECTED FACTS
& FIGURES**

TANDATANGAN DIGITAL

Digital Signature

43. Bilangan lesen Pihak Berkuasa Pemerakuan

Number of Certification Authorities

Tahun	Suku	Bilangan lesen
2005		3
2006		3
2007	1	3
	2	3
	3	3
	4	3
2008	1	3
	2	3
	3	3
	4	2
<i>Year</i>	<i>Qtr</i>	<i>Number of licenses</i>

Nota penjelasan:

Explanatory notes:

Merujuk kepada Pihak Berkuasa Pemerakuan yang dilesenkan di bawah Akta Tandatangani Digital 1997.

Refers to Certification Authorities licenced under the Digital Signature Act 1997.

44. Bilangan sijil yang dikeluarkan mengikut jenis pemegang

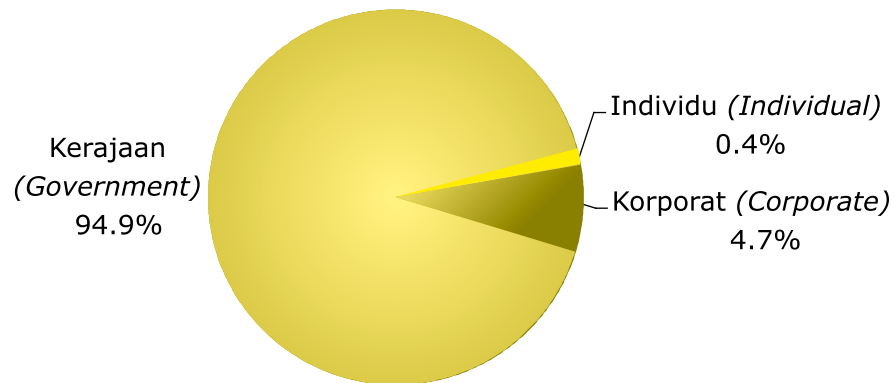
Number of certificates issued by type of holder

Tahun	Suku	Pemegang domestik			Pemegang luar negara		Jumlah
		Individu	Organisasi		Organisasi		
			Korporat	Kerajaan	Korporat	Kerajaan	
2007	1	8,412	74,937	509,841	594	1,004	594,788
	2	8,425	82,523	1,160,893	589	1,002	1,253,432
	3	8,435	90,292	1,173,590	624	1,002	1,273,943
	4	10,249	92,671	1,179,803	638	1,002	1,284,363
2008	1	8,054	82,466	1,362,177	877	...	1,453,574
	2	8,070	86,365	1,867,411	953	...	1,962,799
	3	8,094	89,796	1,891,049	984	...	1,989,923
	4	8,117	95,178	1,926,693	1,084	...	2,031,072

Year	Qtr	Domestic holder			Foreign holder		Total
		Individual	Organisation		Organisation		
			Corporate	Government	Corporate	Government	

Bilangan sijil yang dikeluarkan kepada pemegang domestik

Number of certificates issued to domestic holders



Q4

2008

KOMUNIKASI & MULTIMEDIA
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COMMUNICATIONS & MULTIMEDIA
**SELECTED FACTS
& FIGURES**

KEDUDUKAN MALAYSIA DALAM INDEKS BERKAITAN ICT

Malaysia Ranking For ICT Related Indices

45. Kedudukan Malaysia dalam indeks berkaitan ICT

Malaysia ranking for ICT related indices

Tahun	E-Readiness Rankings	Networked Readiness Index (NRI)	ITU Digital Access Index (DAI)	Digital Opportunity Index (DOI)	e-Business Readiness Index	E-Government Readiness Index	World Competitiveness Scoreboard
2002			46				
2003						43	
2004	33	27			33	42	
2005	35	24		59	35	43	
2006	37	26		57	37		
2007	36	26			36		23
2008	34				34	34	19

Year	E-Readiness Rankings	Networked Readiness Index (NRI)	ITU Digital Access Index (DAI)	Digital Opportunity Index (DOI)	e-Business Readiness Index (EIU)	E-Government Readiness Index (UN)	World Competitiveness Scoreboard
2002			46				
2003						43	
2004	33	27			33	42	
2005	35	24		59	35	43	
2006	37	26		57	37		
2007	36	26			36		23
2008	34				34	34	19

Nota penjelasan:

Explanatory notes:

E-Readiness Ranking

E-readiness adalah tahap kesediaan infrastruktur teknologi maklumat dan komunikasi (ICT) sesebuah negara dan juga keupayaan pengguna, perniagaan dan kerajaannya menggunakan ICT. Indeks ini telah disusun untuk 69 ekonomi oleh Economist Intelligence Unit.

E-readiness is the readiness of a country's information and communications technology (ICT) infrastructure and the ability of its consumers, businesses and governments to use ICT to their benefit. The index has been compiled for 69 economies by Economist Intelligence Unit.

Networked Readiness Index (NRI)

NRI mengukur kecenderungan negara mengeksplorasikan peluang-peluang yang disediakan oleh ICT. Indeks ini telah disusun untuk 115 ekonomi oleh World Economic Forum.

Networked Readiness Index (NRI) measures the propensity for countries to exploit the opportunities offered by ICT. The index has been compiled for 115 economies by World Economic Forum.

Digital Access Index (DAI)

DAI mengukur keupayaan keseluruhan individu dalam sesebuah negara dalam mengakses dan menggunakan ICT baru. Indeks ini telah disusun untuk 177 ekonomi, oleh International Telecommunication Union.

Measures the overall ability of individuals in a country to access and use new ICTs. The index has been compiled for 177 economies by International Telecommunication Union.

Digital Opportunity Index (DOI)

DOI adalah satu kaedah standard yang boleh digunakan oleh kerajaan, operator, agensi pembangunan, penyelidik dan sebagainya untuk mengukur jurang digital dan membuat perbandingan prestasi ICT dalam sesebuah negara dan berbanding negara-negara lain. DOI telah disusun untuk 181 ekonomi oleh International Telecommunication Union.

The DOI is a standard tool that governments, operators, development agencies, researchers and others can use to measure the digital divide and compare ICT performance within and across countries. The DOI has been compiled for 181 economies by International Telecommunication Union.

Q4

2008

KOMUNIKASI & MULTIMEDIA
**FAKTA & ANGKA
TERPILIH**

COMMUNICATIONS & MULTIMEDIA
**SELECTED FACTS
& FIGURES**

PEMEGANG LESEN 30 September 2008
LICENSEE AS AT 30 September 2008

Pemegang Lesen Penyedia Kemudahan
Rangkaian, Individu
Network Facilities Provider (NFP) Individual
Licensee

1. Airzed Broadband Sdn. Bhd.
2. ARL HomeComm Sdn. Bhd.
3. Asiaspace Sdn Bhd
4. AtlasONE Sdn. Bhd.
5. Baycom Sdn. Bhd.
6. Celcom (Malaysia) Sdn Bhd
7. Celcom Mobile Sdn. Bhd.
8. Celcom Timur (Sabah) Sdn. Bhd.
9. Celcom Transmission (M) Sdn Bhd
10. Clear-Comm Sdn. Bhd.
11. Common Tower Technologies Sdn. Bhd.
12. Danawa Resources Sdn. Bhd.
13. Desabina Industries Sdn. Bhd.
14. D'Harmoni Telco Infra Sdn. Bhd.
15. DiGi Telecommunications Sdn Bhd
16. DTRS Consortium Sdn. Bhd.
17. eB Technologies (M) Sdn. Bhd.
18. Electcoms Wireless Sdn. Bhd.
19. Fiberail Sdn Bhd
20. Fibrecomm Network (M) Sdn. Bhd.
21. Global Transit Communications Sdn. Bhd.
22. Go Lightspeed Broadband Sdn Bhd
23. Infra Quest Sdn. Bhd.
24. IP Mobility Sdn. Bhd.
25. I-R&D Sdn Bhd
26. IT Surplus Sdn. Bhd.
27. iZZinet Sdn. Bhd.
28. Jaring Communications Sdn. Bhd.
29. Kedah ICT Holdings Sdn. Bhd.
30. Konsortium Jaringan Selangor Sdn. Bhd.
31. Macro Lynx Sdn. Bhd.
32. Malaysia Airports (Sepang) Sdn. Bhd.
33. Maxis Broadband Sdn Bhd
34. Maxis International Sdn Bhd
35. Maxis Mobile Sdn Bhd (2)
36. Maxis Mobile Services Sdn Bhd
37. MEASAT Satellite Systems Sdn Bhd.
38. Melaka ICT Holdings Sdn. Bhd.
39. Mobikom Sdn Bhd
40. MyKRIS Asia Sdn. Bhd.
41. NasionCom Sdn. Bhd.
42. OBNET SDN. BHD.
43. Optical Communication Engineering Sdn. Bhd.
44. Packet One Networks (Malaysia) Sdn. Bhd.
45. Paneagle Communications Sdn. Bhd.
46. PDC Telecommunication Services Sdn. Bhd.
47. Perak Integrated Network Services Sdn Bhd.
48. Perlis Comm Sdn Bhd
49. Pernec Paypoint Sdn. Bhd
50. Rangkaian Minang (NS) Sdn. Bhd.
51. Realm Energy Sdn Bhd
52. REDtone Marketing Sdn. Bhd.

53. Redtone-CNX Broadband Sdn. Bhd.
54. Sacofa Sdn. Bhd.
55. Sapura Holdings Sdn. Bhd.
56. Sarawak Information Systems Sdn. Bhd.
57. Scopetel Sdn. Bhd.
58. Sector Solutions Sdn Bhd
59. Segi Maju Consortium Sdn. Bhd.
60. Setia Haruman Sdn. Bhd.
61. Smart Digital Communications Bhd.
62. Stealth Solutions Sdn. Bhd.
63. Suidar Elektronik Sdn Bhd
64. Technology Park Malaysia Corporation Sdn. Bhd.
65. Telekom Malaysia Bhd
66. TIME Reach Sdn. Bhd.
67. TIME Sat Sdn. Bhd.
68. Touch Matrix Sdn. Bhd.
69. Touch Mindscape Sdn. Bhd.
70. TT dotCom Sdn. Bhd
71. U Mobile Sdn. Bhd.
72. U Television Sdn. Bhd.
73. VDSL Network Sdn. Bhd.
74. Wellcom Communications (M) Sdn. Bhd.
75. Wi-Net Technology Sdn. Bhd.
76. Yiked Bina Sdn Bhd
77. Y-Max Infra Sdn. Bhd.
78. Y-Max Networks Sdn. Bhd.

Pemegang Lesen Penyedia Kemudahan
Rangkaian, Kelas
Network Facilities Provider (NFP) Class
Licensee

1. Achi Jaya Communications Sdn Bhd
2. CMRS Trunk Radio Sdn Bhd
3. Comintel Sdn Bhd
4. Communications & Satellite Services Sdn Bhd
5. Electcoms Sdn Bhd
6. Extreme Broadband Sdn Bhd
7. Hasyon Teknik Sdn Bhd
8. Mal-Tel Communications Sdn Bhd
9. Media Digital Distribution Sdn Bhd
10. Mobile Asset Security Sdn Bhd
11. Orbcomm Satellite Malaysia Sdn Bhd
12. Persiasys Sdn Bhd
13. Samen Trunk Radio Sdn Bhd
14. Schlumberger Wellog (M) Sdn Bhd
15. Segi Maju Sdn Bhd
16. Serting Com Sdn Bhd
17. Siva Temple Registered
18. Societe Internationale Telecommunications Aeronautiques (SITA)
19. Stars Associated Sdn Bhd
20. STR Communications Sdn Bhd
21. Textphone (M) Sdn Bhd
22. Widenet Distributors Sdn Bhd

Pemegang Lesen Penyedia Perkhidmatan Rangkaian, individu
Network Service Provider (NSP) Individual Licensee

1. Airzed Broadband Sdn. Bhd.
2. Applied Information Management Services Sdn. Bhd.
3. ARL HomeComm Sdn. Bhd.
4. Asia Telecommunications (M) Sdn. Bhd.
5. Asiaspace Sdn Bhd
6. AtlasONE Sdn. Bhd. (formerly known as Kasturi Capital Sdn. Bhd.)
7. Baycom Sdn. Bhd.
8. Celcom (Malaysia) Sdn Bhd
9. Celcom Mobile Sdn. Bhd.
10. Celcom Timur (Sabah) Sdn. Bhd.
11. Celcom Transmission (M) Sdn Bhd
12. Centennial Gateway Sdn. Bhd.
13. Clear-Comm Sdn. Bhd.
14. Cordoda Corporation Sdn. Bhd.
15. Danawa Resources Sdn. Bhd.
16. DiGi Telecommunications Sdn Bhd
17. DTRS Consortium Sdn. Bhd.
18. eB Technologies (M) Sdn. Bhd.
19. Electcoms Wireless Sdn. Bhd.
20. Equant Services Malaysia Sdn. Bhd.
21. Fiberail Sdn Bhd
22. Fibrecomm Network (M) Sdn. Bhd.
23. Frior.com Sdn. Bhd.
24. FSBM Net Media Sdn Bhd
25. GITN Sdn. Bhd.
26. Global Transit Communications Sdn. Bhd.
27. Go Lightspeed Broadband Sdn Bhd
28. HeiTech Padu Berhad
29. IP Mobility Sdn. Bhd.
30. I-R&D Sdn Bhd
31. IT Surplus Sdn. Bhd.
32. ITG Communications Sdn. Bhd.
33. iZZinet Sdn. Bhd.
34. Jaring Communications Sdn. Bhd.
35. Kedah ICT Holdings Sdn. Bhd.
36. KKIPC Sdn. Bhd.
37. Macro Lynx Sdn. Bhd.
38. Malaysia Airports (Sepang) Sdn. Bhd.
39. Maxis Broadband Sdn Bhd
40. Maxis International Sdn Bhd
41. Maxis Mobile Sdn Bhd
42. Maxis Mobile Sdn. Bhd.
43. Maxis Mobile Services Sdn Bhd
44. MCM Wireless Sdn. Bhd.
45. MEASAT Satellite Systems Sdn Bhd.
46. Merchantrade Asia Sdn. Bhd.
47. Mobikom Sdn Bhd
48. MyKRIS Asia Sdn. Bhd.
49. NasionCom Sdn. Bhd.
50. Next Telecommunications Sdn. Bhd.
51. NTT MSC Sdn. Bhd.
52. OBNET SDN. BHD.
53. Optical Communication Engineering Sdn. Bhd.
54. Packet One Networks (Malaysia) Sdn. Bhd.
55. Paneagle Communication Sdn. Bhd.
56. Reach Bandwidth Services Malaysia Sdn. Bhd.

57. Realm Energy Sdn Bhd
58. Redtone Marketing Sdn. Bhd.
59. Redtone-CNX Broadband Sdn. Bhd.
60. Sacofa Sdn. Bhd.
61. Sapura Holdings Sdn. Bhd.
62. Sarawak Information Systems Sdn. Bhd.
63. Scopetel Sdn. Bhd.
64. Sector Solutions Sdn Bhd
65. Segi Maju Consortium Sdn. Bhd.
66. Smart Digital Communications Bhd.
67. Suidar Elektronik Sdn Bhd
68. Technology Park Malaysia Corporation Sdn. Bhd.
69. Telekom Malaysia Bhd
70. Telshine Sdn. Bhd.
71. TIME Sat Sdn. Bhd.
72. TM Net Sdn. Bhd.
73. Touch Mindscape Sdn. Bhd.
74. TT dotCom Sdn. Bhd
75. Tune Talk Sdn. Bhd.
76. U Mobile Sdn. Bhd.
77. U Television Sdn. Bhd.
78. VADS Sdn. Bhd.
79. VDSL Network Sdn. Bhd.
80. Wellcom Communications (M) Sdn. Bhd.
81. Wi-Net Technology Sdn. Bhd.
82. Xintel Sdn. Bhd.
83. XOX Com Sdn. Bhd.
84. Y-Max Infra Sdn. Bhd.
85. Y-Max Networks Sdn. Bhd.

Pemegang Lesen Penyedia Perkhidmatan Rangkaian, Kelas
Network Service Provider (NSP) Class Licensee

1. Achi Jaya Communications Sdn Bhd
2. Boeing Aerospace (M) Sdn Bhd
3. CMRS Trunk Radio Sdn Bhd
4. Comintel Sdn Bhd
5. Communications & Satellite Services Sdn Bhd
6. Electcoms Sdn Bhd
7. Extreme Broadband Sdn Bhd
8. Hasyon Teknik Sdn Bhd
9. LNV Solutions Sdn Bhd
10. Mal-Tel Communications Sdn Bhd
11. Media Digital Distribution Sdn Bhd
12. Mobile Asset Security Sdn Bhd
13. Orbcomm Satellite Malaysia Sdn Bhd
14. Persiasys Sdn Bhd
15. Samen Trunk Radio Sdn Bhd
16. Schlumberger Wellog (M) Sdn Bhd
17. Segi Maju Sdn Bhd
18. Serting Com Sdn Bhd
19. Societe Internationale Telecommunications Aeronautiques (SITA)
20. Stars Associated Sdn Bhd
21. STR Communications Sdn Bhd
22. Textphone (M) Sdn Bhd
23. Widenet Distributors Sdn Bhd

**Pemegang Lesen Penyedia Perkhidmatan
Aplikasi, Kelas
Applications Service Provider (ASP) Class
Licensee**

1. 3B Vision International Sdn. Bhd.
2. Ace Serve Anaconda Sdn. Bhd.
3. Ace Touchtone Sdn. Bhd.
4. Achi Jaya Communications Sdn. Bhd.
5. Advance Able Network Sdn. Bhd.
6. Advanced Mobile Services & Solutions Sdn. Bhd.
7. Ahead Mobile Sdn. Bhd.
8. AIMS Data Centre Sdn. Bhd.
9. Airocom Technology Berhad
10. Airtime Management & Programming Sdn. Bhd.
11. Airzed Networks Sdn. Bhd.
12. Aliya Technologies Sdn. Bhd.
13. Antechnic Systems Sdn. Bhd.
14. ARL HomeComm Sdn. Bhd.
15. ARN Technology Sdn. Bhd.
16. Arthatek Resources Corporation Sdn. Bhd.
17. Asia Media Sdn. Bhd.
18. AsiaEP Berhad
19. Asiaspace WiMax Sdn. Bhd.
20. Aspati Sdn. Bhd.
21. Aspire Technologies Sdn. Bhd.
22. Avenue Telecommunications Sdn. Bhd.
23. Avio Telecommunication Sdn. Bhd.
24. Avo Technology Sdn. Bhd.
25. Axis Technologies Solutions (M) Sdn. Bhd.
26. Azea Communications Sdn. Bhd.
27. B.D. Call Sdn. Bhd.
28. Bakti Anggun Sdn. Bhd.
29. Basic Depth Sdn. Bhd.
30. Baycom Sdn. Bhd.
31. Best Debut Sdn. Bhd.
32. Bestlelong.com Sdn. Bhd.
33. Bimbit.com Sdn. Bhd.
34. Biox Carbon Malaysia Sdn. Bhd.
35. Bizsurf MSC Sdn. Bhd.
36. Boeing Aerospace (Malaysia) Sdn. Bhd.
37. Brightnet System Sdn. Bhd.
38. Brilliant Communications Sdn. Bhd.
39. Broad-Line Corporation Sdn. Bhd.
40. BT Systems (Malaysia) Sdn. Bhd.
41. C C I Technology Sdn. Bhd.
42. Callplus Telecommunications Sdn. Bhd.
43. Capable Titan Sdn. Bhd.
44. Carlsberg Marketing Sdn. Bhd.
45. Celcom (Malaysia) Berhad
46. Celcom Mobile Sdn. Bhd.
47. Celcom Technology (M) Sdn. Bhd.
48. Celcom Timur (Sabah) Sdn. Bhd.
49. Centennial Gateway Sdn. Bhd.
50. Centennial Global Communication Sdn. Bhd.
51. Centurise Tech Sdn. Bhd.
52. Chatgate Communications Sdn. Bhd.
53. Clear-Comm Sdn. Bhd.
54. Cmaxzone Technology Sdn. Bhd.
55. CMRS Trunk Radio Sdn. Bhd.
56. COM2U Sdn. Bhd.
57. Comintel Sdn. Bhd.
58. Community Shapers Sdn. Bhd.
59. Commzgate Sdn. Bhd.
60. Compurex Corporation (M) Sdn. Bhd.
61. Computer Systems Advisers (M) Sdn. Bhd.
62. Confident Communications Sdn. Bhd.
63. Connection Fidelity Sdn. Bhd.
64. Consensus Network Sdn. Bhd.
65. Cool Mobile Sdn. Bhd.
66. Cosmos Discovery Sdn. Bhd.
67. Crazy2U Dotcom Sdn. Bhd.
68. CTAPPS Technology Sdn. Bhd.
69. Custommedia Sdn. Bhd.
70. D Loy Network
71. Da Fa Lottery Information Services
72. Danawa Resources Sdn. Bhd.
73. Dapat Vista (M) Sdn Bhd
74. Data Zone Sdn. Bhd.
75. Datapower Sdn. Bhd.
76. Dencomm Sales & Services Sdn. Bhd.
77. Didadee Sdn. Bhd.
78. DiGi Telecommunications Sdn. Bhd.
79. Domino Application System Sdn. Bhd.
80. Dream Chorus Sdn. Bhd.
81. DSA Alliance Sdn. Bhd.
82. Dubaitech Marketing Sdn. Bhd.
83. Duo A Synergy (M) Sdn. Bhd.
84. DVM Intellisource Sdn. Bhd.
85. Econet Corridor Sdn. Bhd.
86. Edgecomms Sdn. Bhd.
87. E-Gal Corporation Sdn. Bhd.
88. Elanet Sdn. Bhd.
89. Electcoms Sdn. Bhd.
90. Emerge Software Solutions (M) Sdn. Bhd.
91. Equant Services Malaysia Sdn. Bhd.
92. Ericsson (Malaysia) Sdn. Bhd.
93. E-Room Sdn. Bhd.
94. ERP Twenty One Sdn. Bhd.
95. ESKY Holdings Sdn. Bhd.
96. ETA Network Systems Sdn. Bhd.
97. Etnet.com Sdn. Bhd.
98. Everest Mobile Sdn. Bhd.
99. Everest Web Sdn. Bhd.
100. Everworks Solutions (M) Sdn. Bhd.
101. Excel Commerce Solutions Sdn. Bhd.
102. Exticom Sdn. Bhd.
103. Extiva Communications Sdn. Bhd.
104. Extreme Broadband Sdn. Bhd.
105. EZNET Sdn. Bhd.
106. Fast Line Marketing Sdn. Bhd.
107. Fibrecomm Network (M) Sdn. Bhd.
108. Firatel Sdn. Bhd.
109. First Click Sdn. Bhd.
110. First Logix Sdn. Bhd.
111. Focus Spirit Sdn. Bhd.
112. Forest Interactive Sdn. Bhd.
113. Forte Tech Solutions Sdn. Bhd.
114. Foundermall Dot Com Sdn. Bhd.
115. Frenclub Mobile Sdn. Bhd.
116. Fristor Communications Sdn. Bhd.
117. Frizzhub VOB Sdn. Bhd.
118. FSBM Net Media Sdn Bhd
119. Ftone Sdn. Bhd.
120. Function Ramslink Sdn. Bhd.
121. Funz Mobility Sdn. Bhd.
122. Gang Mobile Sdn. Bhd.



123. Gapurna Technologies Sdn. Bhd.
124. Gateway Option Sdn. Bhd.
125. Genesis Voiz Systems Sdn. Bhd.
126. Genus Consultancy Sdn. Bhd.
127. Gen-X Technology Sdn. Bhd.
128. Gerakan Padu Sdn. Bhd.
129. GITN Sdn. Bhd.
130. Global Forway Sdn. Bhd.
131. Global Surf Sdn. Bhd.
132. Global Telelinks (M) Sdn. Bhd.
133. Global Tone Sdn. Bhd.
134. Global Transit Communications Sdn. Bhd.
135. Global Transit Malaysia Sdn. Bhd.
136. Golden Digit Resources Sdn. Bhd.
137. Green Web Sdn. Bhd.
138. Hasyon Teknik Sdn. Bhd.
139. Heitech Padu Berhad
140. Hitz Mobile Sdn. Bhd.
141. Horizon Multimedia Sdn. Bhd.
142. IBM Malaysia Sdn. Bhd.
143. IdotTV Sdn. Bhd.
144. IGMobile Holdings Sdn. Bhd.
145. Ikogo Sdn. Bhd.
146. Imsa Technology Sdn. Bhd.
147. iNavigate Sdn. Bhd.
148. Info-Age Technology Sdn. Bhd.
149. Infolient Sdn. Bhd.
150. Information Network Services Sdn. Bhd.
151. Infosphere Sdn. Bhd.
152. Infra-Info Telecommunications Sdn. Bhd.
153. Innatech Sdn. Bhd.
154. Inobel Sdn. Bhd. (formerly UPE Systems Services Sdn. Bhd.)
155. Intellectual Learning Sdn. Bhd.
156. Intelligent Essence Sdn. Bhd.
157. Intereach Communication Sdn. Bhd.
158. Inter-Touch (Malaysia) Sdn. Bhd.
159. I-Office2 Sdn. Bhd.
160. Ionnex Sdn. Bhd.
161. IP Innovation Sdn. Bhd.
162. IPSAT Sdn. Bhd.
163. IPTEL Sdn. Bhd.
164. iRepublics.com Sdn Bhd
165. Iridea (M) Sdn. Bhd.
166. iSCALAR HT Technology Sdn. Bhd.
167. Isentric Media Sdn. Bhd.
168. iSentric Sdn. Bhd.
169. ITG Telecommunications Sdn. Bhd.
170. ITX Marketing Sdn. Bhd.
171. I-Way Network Sdn. Bhd.
172. Izzinet Sdn. Bhd.
173. J & C Pacific Sdn. Bhd.
174. Jaring Communications Sdn. Bhd.
175. JAS Mobile Solutions Sdn. Bhd.
176. JNI System Sdn. Bhd.
177. Jobmobile Service Centre (M) Sdn. Bhd
178. JP Com Sdn. Bhd.
179. K-Amal Technologies (M) Sdn. Bhd.
180. Karisma Electronic System Sdn. Bhd.
181. KDDI Malaysia Sdn. Bhd.
182. Kist Prepaid Retail Sdn. Bhd.
183. KKIPC Sdn. Bhd.
184. Kotaemas Edaran Sdn. Bhd.
185. Kurnia Insurans (M) Berhad
186. Langkah Teknologi Sdn. Bhd.
187. Lasskar System Technologies Sdn. Bhd.
188. Lavish Team Sdn. Bhd.
189. Level 1 Communications (M) Sdn. Bhd.
190. LNV Solutions (M) Sdn. Bhd.
191. Long Tail Sdn. Bhd.
192. Lotus West Sdn. Bhd.
193. Lovelink Connections Sdn. Bhd.
194. M3 Technologies (Asia) Berhad
195. Macro Kiosk Berhad
196. Macro Lynx Sdn. Bhd.
197. Macrobuzz Interactive Sdn. Bhd.
198. Malaysian Allied Mobile Sdn. Bhd.
199. MAL-TEL Communications Sdn. Bhd.
200. Matrix Internet & Wireless Sdn. Bhd.
201. Matrix Tech Management Sdn. Bhd.
202. Maxis Broadband Sdn. Bhd.
203. Maxis Mobile Sdn. Bhd.
204. Maxis Mobile Services Sdn Bhd
205. Maxlink Technology Sdn. Bhd.
206. Mboard Media Sdn. Bhd.
207. MCOM Media Technology Sdn. Bhd.
208. MCOM Messaging Sdn. Bhd.
209. MDOT Marketing Sdn. Bhd.
210. Media Xch Sdn. Bhd.
211. Mediacliq Sdn. Bhd.
212. Mediaconcise Sdn. Bhd.
213. Mediarling Sdn. Bhd.
214. Megamobile Solutions Sdn. Bhd.
215. Meghna Telecommunication Sdn. Bhd.
216. Melewar International Sdn. Bhd.
217. Merchantrade Asia Sdn. Bhd.
218. Meridian Surveys (M) Sdn. Bhd.
219. Metabolix (M) Sdn. Bhd.
220. Mexcom Sdn. Bhd.
221. Mikimoto Communications Sdn. Bhd.
222. Mikro Oasis Sdn. Bhd.
223. M-Mode Mobile Sdn. Bhd.
224. MNC Consulting Sdn. Bhd.
225. MNC Wireless Berhad
226. Mobif Global Sdn. Bhd.
227. Mobile Asset Security Sdn. Bhd.
228. Mobile Communications Media Sdn. Bhd.
229. Mobile Entertainment (M) Sdn. Bhd.
230. Mobile FPX Sdn. Bhd.
231. Mobile Management Solution Sdn. Bhd.
232. Mobile Money International Sdn. Bhd.
233. Mobile Multimedia Sdn. Bhd.
234. Mobile Touchetek Sdn. Bhd.
235. Mobileexec Sdn. Bhd.
236. Modern Solution Sdn. Bhd.
237. Moore Nasser Infra Sdn. Bhd.
238. Move Success Sdn. Bhd.
239. MRCB Technologies Sdn. Bhd.
240. MTL E-solutions Sdn. Bhd.
241. MTN Solution Sdn. Bhd.
242. Multimedia Interactive Technologies Sdn. Bhd.
243. Murasu Communications (Malaysia) Sdn. Bhd.
244. Mutual Digital Sdn. Bhd.
245. M-Village Sdn. Bhd.

246. M-Village Solutions Sdn. Bhd.
247. My Lucky Mobile Sdn. Bhd.
248. Mypressto.Com Sdn. Bhd.
249. N2N Connect Berhad
250. Nano Media Tchnology Sdn. Bhd.
251. Nassion Systems (M) Sdn. Bhd.
252. Newszapped Media (M) Sdn. Bhd.
253. Nex-Ge Technologies Sdn. Bhd.
254. Next G Telecommunication (M) Sdn. Bhd.
255. Next Telecommunications Sdn. Bhd.
256. Next Wave Communications Sdn. Bhd.
257. Nextnation Network Sdn. Bhd.
258. NFAB Services Holdings (M) Sdn. Bhd.
259. NGC Systems Sdn. Bhd.
260. Nglobe Sdn. Bhd.
261. NGNTalk (M) Sdn. Bhd.
262. Nokia (M) Sdn. Bhd.
263. NTT MSC Sdn. Bhd.
264. Nukilan Mahir Sdn. Bhd.
265. N-Visio Sdn. Bhd.
266. N-Wave Telecoms (Malaysia) Sdn. Bhd.
267. Obnet Sdn. Bhd.
268. Ocean Violet Sdn. Bhd.
269. Optical Communication Engineering Sdn. Bhd.
270. ORBCOMM Satellite Malaysia Sdn. Bhd.
271. Otelco Telecommunications Sdn. Bhd.
272. Ourcom Sdn. Bhd.
273. P1.Com Sdn. Bhd.
274. Packet One Networks (Malaysia) Sdn. Bhd.
275. Pacmee Sdn. Bhd.
276. Pacnet Global (M) Sdn. Bhd.
277. Pacnet Internet (Malaysia) Sdn. Bhd.
278. Pan Malaysian Pools Sdn. Bhd.
279. Paneagle Communications Sdn. Bhd.
280. Paximej (M) Sdn. Bhd.
281. Paycomm Sdn. Bhd.
282. Pennytel Communications Sdn. Bhd.
283. Penzpages Sdn. Bhd.
284. Pernec Paypoint Sdn. Bhd.
285. Persada Digital Sdn. Bhd.
286. Persiasys Sdn. Bhd.
287. PG Communications Sdn. Bhd.
288. Phenomenal UAM Sdn. Bhd.
289. Planworth Communications (M) Sdn. Bhd.
290. Platronix Sdn. Bhd.
291. Purple Gum Sdn. Bhd.
292. Qasima Technology Sdn. Bhd.
293. Questnet (M) Sdn. Bhd.
294. Radiant Corridor Sdn. Bhd.
295. Radius-ED Sdn. Bhd.
296. Rafais (M) Sdn. Bhd.
297. Reach Bandwidth Services Malaysia Sdn. Bhd.
298. Reapfield Technology Sdn. Bhd.
299. Redtone Mobile Services Sdn. Bhd.
300. Redtone Mytel Sdn. Bhd.
301. Redtone Telecommunications Sdn. Bhd.
302. Redtone-CNX Broadband Sdn. Bhd.
303. Rentak Setia Sdn. Bhd.
304. Responsive & Directive Media Malaysia Sdn. Bhd.
305. Ring 8 (Malaysia) Sdn. Bhd.
306. Sacofa Sdn. Bhd.
307. Sadiatec Sdn. Bhd.
308. Samen Trunked Radio Sdn. Bhd.
309. Savvis Malaysia Sdn. Bhd.
310. Scan Associates Berhad
311. Schlumberger Wellog (M) Sdn. Bhd.
312. Sedania Corporation Sdn. Bhd.
313. Segi Maju Sdn. Bhd.
314. Sellreenz Communications Sdn. Bhd.
315. Serting Com Sdn. Bhd.
316. SG Communications (M) Sdn. Bhd.
317. Shanco Rich Sdn Bhd
318. Silkron Technology Sdn. Bhd
319. Skyetel Malaysia Sdn. Bhd.
320. Skyline Theme Sdn. Bhd.
321. SMS Biz Sdn. Bhd.
322. SMS91.Com Sdn. Bhd.
323. Societe Internationale Telecommunications Aeronautiques (SITA)
324. Softwareone Sdn. Bhd.
325. Solution System Touchmedia Sdn. Bhd.
326. Sphinx Fusion Sdn. Bhd.
327. Stars Associated Sdn. Bhd.
328. Startone Telecommunication Sdn. Bhd.
329. STR Communication Sdn. Bhd.
330. Suitelab Technology Sdn. Bhd.
331. Sunway Digital Wave Sdn. Bhd.
332. Super Call Sdn. Bhd.
333. Suprima Holdings Sdn. Bhd.
334. Sybase 365 Asia Sdn. Bhd.
335. Sybase Software (M) Sdn. Bhd.
336. Symphonet Sdn. Bhd.
337. Synergycentric Communications Sdn. Bhd.
338. Synergycentric Teleservices Sdn. Bhd.
339. Talk Eight Communications Sdn. Bhd.
340. Tam Tam Asia Sdn. Bhd.
341. Tanla Mobile Malaysia Sdn. Bhd.
342. Tappo Tappi Sdn. Bhd.
343. Techexpert Solutions Sdn. Bhd.
344. Tec-Surf Technologies Sdn. Bhd.
345. Telkom Communication Sdn. Bhd.
346. Telkom Research (M) Sdn. Bhd.
347. Teleinfo Technology & Services Sdn. Bhd.
348. Telekom Applied Business Sdn. Bhd.
349. Telekom Malaysia Berhad
350. Teletouch Communications Sdn. Bhd.
351. Teliti Computers Sdn. Bhd.
352. Telshine Sdn. Bhd.
353. Telshine Telecommunication Sdn. Bhd.
354. Textphon (M) Sdn. Bhd.
355. T-Force Technology Sdn. Bhd.
356. Threesixty Technologies Sdn. Bhd.
357. TIME Reach Sdn. Bhd.
358. TM Info-Media Sdn. Bhd.
359. TPM IT Sdn. Bhd.
360. TraderInAsia Sdn. Bhd.
361. Tranglo Sdn. Bhd.
362. Trio Mobile Sdn Bhd
363. Trylah Sdn. Bhd.
364. TT dotCom Sdn. Bhd.
365. Tune Talk Sdn. Bhd.
366. Two Tale Marketing Sdn. Bhd.
367. Two-P Technology (M) Sdn. Bhd.
368. U Mobile Sdn. Bhd.
369. Uberfusion Sdn. Bhd.

370. Uncover Technology Sdn. Bhd.
371. VADS Bhd.
372. Vast Meridian Sdn. Bhd.
373. Venus Telecommunication Sdn. Bhd.
374. Verizon communications Malaysia Sdn. Bhd.
375. Viztel Technologies Sdn. Bhd.
376. Voicestar Communications Sdn. Bhd.
377. Voiztech Communication Sdn. Bhd.
378. Vox Emas Communications Sdn. Bhd.
379. Wavellcall Malaysia Sdn. Bhd.
380. Wellcom Communications (M) Sdn. Bhd.
381. West Infinity (M) Sdn. Bhd.
382. WI Network Sdn. Bhd.
383. Widenet Distributor Sdn. Bhd.
384. Wizio Sdn. Bhd.
385. Wokbyte Sdn. Bhd.
386. Wonderful Telecommunications Sdn. Bhd.
387. World Marketplace Sdn. Bhd.
388. Worldtone (Malaysia) Sdn. Bhd.
389. Xintel Sdn. Bhd.
390. Xota Communications Sdn. Bhd.
391. XOX Com Sdn. Bhd.
392. X-Pax Telecommunication Sdn. Bhd.
393. Xpedite Systems Incorporated (Malaysia) Sdn. Bhd.
394. XTC Solutions Sdn. Bhd.
395. X-Wave Solutions Sdn. Bhd.
396. Yellotext Sdn. Bhd.
397. Yesnet Telecommunication Sdn. Bhd.
398. Y-Max Networks Sdn. Bhd.
399. Yomobile Sdn. Bhd.
400. Zed Mobile Malaysia Sdn. Bhd.
401. Zeus3 Sdn. Bhd.

Pemegang Lesen Penyedia Perkhidmatan Aplikasi Kandungan, Individu
Content Applications Service Provider (CASP) Individual Licensee

1. BFM Media Sdn. Bhd.
2. CH-9 Media Sdn Bhd
3. Husa Network Sdn. Bhd. (Manis FM)
4. Institut Kefahaman Islam Malaysia (Radio IKIM)
5. ISY Holdings Sdn. Bhd.
6. Kristal Harta Sdn Bhd (Cats Radio)
7. Maestra Broadcast Sdn Bhd (MIX FM) & (ERA)
8. Malaysia Airports (Sepang) Sdn Bhd (Radio KLIA)
9. Measat Radio Communications Sdn Bhd (MY), (HITz) & (Light & Easy)
10. Metropolitan TV Sdn Bhd (Metro Vision)
11. MOL Media Sdn. Bhd.
12. Natseven TV Sdn Bhd. (NTV7)
13. Network Guidance Sdn Bhd (FINE Network)
14. Perfect Excellence Waves Sdn. Bhd.
15. Radio Lebuhraya Sdn Bhd. (THR)
16. Radio Wanita Berhad
17. Rimakmur Sdn Bhd
18. Sistem Televisyen Malaysia Bhd. (TV3)
19. STAR Rfm Sdn. Bhd. (RfM) & (Redi.FM)

20. Suara Johor Sdn Bhd (Best 104)
21. Syncrosound Studios Sdn Bhd (HotFM)
22. TM Net Sdn. Bhd.
23. U-Television Sdn. Bhd.

Pemegang Lesen Penyedia Perkhidmatan Aplikasi Kandungan, Kelas
Content Applications Service Provider (CASP) Class Licensee

1. Berjaya Georgetown Hotel (Penang) Sdn Bhd
2. Bukit Jambul Hotel Development Sdn Bhd
3. Digistar Rouland MSC Sdn Bhd
4. Greearth Technovations Sdn Bhd
5. Komtar Hotel Sdn Bhd
6. Kuala Lumpur Convention Centre Sdn Bhd
7. Metroplex Holdings Sdn Bhd
8. One World Hotel Sdn Bhd
9. Pantai Dalit Beach Resort Sdn Bhd
10. PJ Hotels & Resorts Sdn Bhd
11. Subang Jaya Hotel Development Sdn Bhd
12. Tanjong Aru Hotel Sdn Bhd
13. Tradewinds Hotels & Resorts sdn Bhd

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2008

KOMUNIKASI & MULTIMEDIA
**FAKTA & ANGKA
TERPILIH**

COMMUNICATIONS & MULTIMEDIA
**SELECTED FACTS
& FIGURES**

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