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

# Q2

## 2 0 1 0

**KOMUNIKASI & MULTIMEDIA  
FAKTA & ANGKA TERPILIH**

*COMMUNICATIONS & MULTIMEDIA  
SELECTED FACTS & FIGURES*

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# 10

## **Matlamat Dasar Kebangsaan bagi Industri Komunikasi dan Multimedia** ***National Policy Objectives for the Communications & Multimedia Industry***

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- 1     Menjadikan Malaysia sebagai pusat dan tumpuan utama dunia bagi perkhidmatan komunikasi dan perkhidmatan maklumat dan kandungan multimedia  
*To establish Malaysia as a major global centre and hub for communications and multimedia information and content services*
  
- 2     Menggalakkan pewujudan masyarakat madani yang dalamnya perkhidmatan berdasarkan maklumat akan menyediakan asas bagi peningkatan yang berterusan kepada mutu kerja dan hidup  
*To promote a civil society where information based services will provide the basis of continuing enhancements to quality of work and life*
  
- 3     Mencambahkan dan memupuk sumber maklumat dan perlambangan budaya tempatan yang membantu mengetengahkan identiti kebangsaan dan kepelbagaian dunia  
*To grow and nurture local information resources and cultural representation that facilitates the national identity and global diversity*
  
- 4     Mengawal selia bagi faedah jangka panjang pengguna akhir  
*To regulate for the long-term benefit of the end user*
  
- 5     Menggalakkan tahap keyakinan pengguna yang tinggi dalam penyampaian perkhidmatan daripada industri  
*To promote a high level of consumer confidence in service delivery from the industry*
  
- 6     Memastikan penyediaan perkhidmatan sama rata yang mampu dibayar melalui infrastruktur kebangsaan yang sentiasa ada  
*To ensure an equitable provision of affordable services over ubiquitous national infrastructure*
  
- 7     Mewujudkan suasana aplikasi yang giat bagi pengguna akhir  
*To create a robust applications environment for end users*
  
- 8     Memudahkan pengagihan secara berkesan sumber seperti tenaga buruh mahir, modal, pengetahuan dan aset kebangsaan  
*To facilitate the efficient allocation of resources such as skilled labour, capital, knowledge and national assets*
  
- 9     Menggalakkan pembinaan keupayaan dan kecekapan dalam industri percantuman Malaysia  
*To promote the development of capabilities and skills within Malaysia's convergence industries;*
  
- 10    Menjamin keselamatan maklumat dan kebolehpercayaan dan keutuhan rangkaian  
*To ensure information security and network reliability and integrity*

# Isi Kandungan

## Contents

---

10 Matlamat Dasar Kebangsaan bagi Industri Komunikasi dan Multimedia <i>10 National Policy Objectives for the Communications and Multimedia Industry</i>	ii
---	----

Nota <i>Notes</i>	vii
----------------------	-----

Simbol dan singkatan <i>Symbols and abbreviations</i>	viii
--	------

### **PETUNJUK-PETUNJUK ASAS** *BASIC INDICATORS*

1. Petunjuk-petunjuk asas Malaysia <i>Malaysia basic indicators</i>	1
2. Kadar penembusan sepintas lalu <i>Penetration rates at a glance</i>	2

### **KOMUNIKASI DAN MULTIMEDIA** *COMMUNICATIONS AND MULTIMEDIA*

#### **JALUR LEBAR DAN INTERNET** *BROADBAND AND THE INTERNET*

3. Bilangan langganan jalur lebar dan kadar penembusan <i>Number of broadband subscriptions and penetration rate</i>	7
4. Kadar penembusan jalur lebar per 100 isi rumah mengikut negeri <i>Broadband penetration rate per 100 households by state</i>	8
5. Capaian Komuniti <i>Community access</i>	9
6. Bilangan lokasi 'Hotspot' mengikut negeri <i>Number of Hotspot locations by state</i>	11
7. Bilangan langganan 'Hotspot' <i>Number of Hotspot subscriptions</i>	11
8. Penggunaan Internet di rumah mengikut kawasan bandar dan luar bandar <i>Household use of the Internet by urban and rural areas</i>	12
9. Penggunaan Internet di rumah mengikut jantina <i>Household use of the Internet by gender</i>	13
10. Penggunaan Internet di rumah mengikut kategori umur <i>Household use of the Internet by age categories</i>	14

# Isi Kandungan

## Contents

---

11.	Penggunaan Internet di rumah mengikut bilangan jam penggunaan seminggu <i>Household use of the Internet by number of hours of use per week</i>	15
12.	Penggunaan Internet di rumah mengikut kegunaan utama <i>Household use of the Internet by main use</i>	16
13.	Peratus isi rumah yang mempunyai kemudahan komputer peribadi mengikut negeri <i>Percentage of households with access to personal computers by state</i>	17
14.	Indeks kepuasan pengguna akses Internet <i>Internet access consumer satisfaction index</i>	18
15.	Jalur lebar per 100 penduduk, negara-negara ASEAN <i>Broadband per 100 inhabitants, ASEAN countries</i>	19
16.	Jalur lebar per 100 penduduk berbanding 10 rakan perdagangan terbesar, Malaysia <i>Broadband per 100 inhabitants compared with 10 biggest trading partners, Malaysia</i>	20

### **TELEFON SELULAR**

#### **CELLULAR TELEPHONES**

17.	Bilangan langganan telefon selular dan kadar penembusan <i>Number of cellular telephone subscriptions and penetration rate</i>	21
18.	Kadar penembusan telefon selular per 100 penduduk mengikut negeri <i>Cellular telephone penetration rate per 100 inhabitants by state</i>	22
19.	Bilangan langganan 3G <i>Number of 3G subscriptions</i>	24
20.	Kemudahan nombor <i>Number portability</i>	25
21.	Peratus pengguna telefon selular mengikut kawasan bandar dan luar bandar <i>Percentage of cellular telephone users by urban and rural areas</i>	26
22.	Peratus pengguna telefon selular mengikut jantina <i>Percentage of cellular telephone users by gender</i>	27
23.	Perkhidmatan pesanan pendek <i>Short message services (SMS)</i>	28
24.	Indeks kepuasan pengguna telefon selular <i>Cellular telephone consumer satisfaction index</i>	29
25.	Telefon selular per 100 penduduk, negara-negara ASEAN <i>Cellular telephone per 100 inhabitants, ASEAN countries</i>	30
26.	Telefon selular per 100 penduduk berbanding 10 rakan perdagangan terbesar, Malaysia <i>Cellular telephone per 100 inhabitants compared with 10 biggest trading partners, Malaysia</i>	31

# Isi Kandungan

## Contents

---

### **TALIAN IBUSAWAT TERUS DAN TELEFON AWAM**

#### *DEL AND PUBLIC PAYPHONES*

27.	Bilangan Talian Ibusawat Terus dan kadar penembusan <i>Number of DEL Connections and penetration rate</i>	32
28.	Kadar penembusan Talian Ibusawat Terus per 100 isi rumah mengikut negeri <i>DEL penetration rate per 100 households by state</i>	33
29.	Peratus langganan isi rumah Talian Ibusawat Terus mengikut kawasan bandar dan luar bandar <i>Percentage of DEL household subscriptions by urban and rural areas</i>	34
30.	Rangkaian Talian Ibusawat Terus, kapasiti digunakan <i>DEL network, capacity used</i>	35
31.	Bilangan telefon awam <i>Number of public payphones</i>	36
32.	Bilangan telefon awam per 1000 penduduk mengikut negeri <i>Number of public payphones per 1000 inhabitants by state</i>	37
33.	Peratus telefon awam mengikut kawasan bandar dan luar bandar <i>Percentage of public payphones by urban and rural areas</i>	38
34.	Indeks kepuasan pengguna Talian Ibusawat Terus <i>DEL consumer satisfaction index</i>	39
35.	Talian telefon utama per 100 penduduk, negara-negara ASEAN <i>Main telephone lines per 100 inhabitants, ASEAN countries</i>	40
36.	Talian telefon utama per 100 penduduk berbanding 10 rakan perdagangan terbesar, Malaysia <i>Main telephone lines per 100 inhabitants compared with 10 biggest trading partners, Malaysia</i>	41

### **RADIO DAN TV**

#### *RADIO AND TV*

37.	Peratus isi rumah yang mempunyai kemudahan peralatan Radio/Hi-fi mengikut negeri <i>Percentage of households with access to Radio/Hi-fi by state</i>	42
38.	Peratus isi rumah yang mempunyai kemudahan peralatan televisyen mengikut negeri <i>Percentage of households with access to television by state</i>	43
39.	Peratus isi rumah yang mempunyai kemudahan peralatan VCR/VCD/DVD mengikut negeri <i>Percentage of households with access to VCR/VCD/DVD by state</i>	44

# Isi Kandungan

## Contents

---

40.	Bilangan minit penyiaran, TV bebas ke udara <i>Number of broadcast minutes, free to air TV</i>	45
41.	Bilangan langganan TV berbayar <i>Number of pay TV subscriptions</i>	46
42.	Indeks kepuasan pengguna TV dan Radio <i>TV and Radio consumer satisfaction index</i>	47

### **TANDATANGAN DIGITAL** *DIGITAL SIGNATURE*

43.	Bilangan lesen Pihak Berkuasa Pemerakuan <i>Number of Certification Authorities</i>	51
44.	Bilangan sijil yang dikeluarkan mengikut jenis <i>Number of certificates issued by type</i>	52

### **KEDUDUKAN MALAYSIA DALAM INDEKS BERKAITAN ICT** *MALAYSIA RANKING FOR ICT RELATED INDICES*

45.	Kedudukan Malaysia dalam indeks berkaitan ICT <i>Malaysia ranking for ICT related indices</i>	55
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### **LAMPIRAN** *APPENDIX*

	Senarai pemegang lesen <i>List of licensees</i>	59
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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.

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 apakah tarikh sesuatu unjuran dibuat dan catat tarikh itu dalam semua laporan yang memetik dari penerbitan ini. Dalam isu ini, semua unjuran dibuat berdasarkan maklumat yang ada pada SKMM pada 16 Ogos 2010.

Nombor dan peratus bila dijumlahkan mungkin tidak sama dengan jumlah yang ditunjukkan ataupun 100 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.*

*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. 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 16 Aug 2010.*

*Numbers and percentages may not add up because of rounding.*

# Simbol dan singkatan

## *Symbols and abbreviations*

---

...	-	Tidak diperolehi
...	-	<i>Not available</i>
Suku	-	Sukutahun
<i>Qtr</i>	-	<i>Quarter</i>
SKMM	-	Suruhanjaya Komunikasi dan Multimedia Malaysia
MCMC	-	<i>Malaysian Communications and Multimedia Commission</i>
BNM	-	Bank Negara Malaysia
<i>BNM</i>	-	<i>Central Bank of Malaysia</i>
JPM	-	Jabatan Perangkaan Malaysia
<i>DOS</i>	-	<i>Department of Statistics, Malaysia</i>
KPKK	-	Kementerian Penerangan Komunikasi dan Kebudayaan
<i>MICC</i>	-	<i>Ministry of Information Communication and Culture</i>
<i>ITU</i>	-	<i>International Telecommunication Union</i>

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4365413656454806  
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**PENUNJUK - PENUNJUK ASAS**  
*Basic Indicators*

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## 1. Penunjuk-penunjuk asas Malaysia

### *Malaysia basic indicators*

Tahun	Suku	Penduduk (juta)	Isi rumah (‘000)	KDNK (RM)		Indeks Harga Pengguna (IHP)
				Harga semasa (billion)	Harga malar (billion)	
Nota		1			2	3
2003		25.32	5,504	418.769	339.414	95.7
2004		25.86	5,622	474.048	426.508	97.1
2005		26.38	5,735	519.451	447.392	100.0
2006		26.91	5,850	572.550	474.392	103.6
2007		27.45	5,967	641.564	505.353	105.7
2008		28.02	6,091	738.677	528.310	111.8
2009	1	28.16	6,122	156.658	121.660	111.7
	2	28.31	6,153	162.481	127.258	111.8
	3	28.46	6,187	174.759	134.717	111.9
	4	28.61	6,220	185.790	137.483	112.1
2010	1	28.76	6,252	183.364	133.890	113.2
	2	28.91	6,285	186.047	138.552	113.3

Year	Qtr	Population (million)	Households (‘000)	GDP (RM)		Consumer Price Index (CPI)
				Current prices (billion)	Constant prices (billion)	
Note		1			2	3

**Punca:** JPM, BNM  
**Source:** DOS, BNM

**Nota penjelasan:**  
*Explanatory notes:*

1. Jumlah pada penghujung tempoh.  
*Total as at end of period.*
2. Tahun asas adalah 2000.  
*Base year is 2000.*
3. Tahun asas adalah 2005.  
*Base year 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 penduduk	Per 100 isi rumah	Per 100 penduduk		
Nota		1	2	3	4		
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	1.8			74.1	
2006		48.3	2.8	10.9		72.3	
2007		47.8	4.1	15.2		85.1	
2008		44.9	6.1	21.1		98.9	
2009	1	44.7	6.8	24.0		100.1	
	2	44.5	7.6	27.1		100.8	
	3	44.2	8.4	29.2		104.1	
	4	44.0	9.2	31.7		105.4	
2010	1	43.9	10.2	34.5		107.1	
	2	44.0	11.3	37.5		108.8	
Unjuran <i>Forecast</i>							
2010	3	43.7	11.4	40.7		110.6	
		<i>Per 100 households</i>	<i>Per 100 inhabitants</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 telephone</i>	
<i>Note</i>		1	2	3		4	

Sila lihat muka surat sebelah untuk nota penjelasan.  
Please see next page for explanatory notes.

**Nota penjelasan:***Explanatory notes:*

1. Kadar penembusan talian ibusawat terus per 100 isi rumah dikirakan dengan membahagi jumlah langganan isi rumah persendirian dengan jumlah isi rumah persendirian dan didarab dengan 100.  
*The DEL penetration rate per 100 households is calculated by dividing the number of private household subscriptions by the number of private households and multiplying by 100.*
2. Kadar penembusan jalur lebar per 100 penduduk dikirakan dengan membahagi jumlah langganan isi rumah dan langganan bukan isi rumah dengan jumlah penduduk dan didarab dengan 100. Langganan WiFi awam tidak diambilkira.  
*The broadband penetration rate per 100 inhabitants is calculated by dividing the sum of household and non-household subscriptions by the number of inhabitants and multiplying by 100. Public WiFi subscriptions are not taken into account.*
3. Kadar penembusan jalur lebar per 100 isi rumah dikirakan dengan membahagi bilangan langganan yang digunakan di isi rumah persendirian dengan jumlah isi rumah persendirian dan didarab dengan 100. Langganan bukan isi rumah and langganan WiFi awam tidak diambilkira.  
*The broadband penetration rate per 100 households is calculated by dividing the number of subscriptions used in private households by the number of private households and multiplying by 100. Non-private household subscriptions and public WiFi subscriptions are not taken into account.*
4. Kadar penembusan telefon selular dikira sebagai jumlah langganan dibahagi jumlah penduduk dan didarabkan dengan 100. Penembusan yang melebihi 100% boleh berpunca daripada pelanggan yang melanggan melebihi daripada satu langganan.  
*The cellular telephone penetration rate refers to the total subscriptions divided by the total population and multiplied by 100. A penetration rate over 100% can occur because of multiple subscriptions.*



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**KOMUNIKASI DAN MULTIMEDIA**  
*Communications & Multimedia*

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### 3. Bilangan langganan jalur lebar dan kadar penembusan

#### *Number of broadband subscriptions and penetration rate*

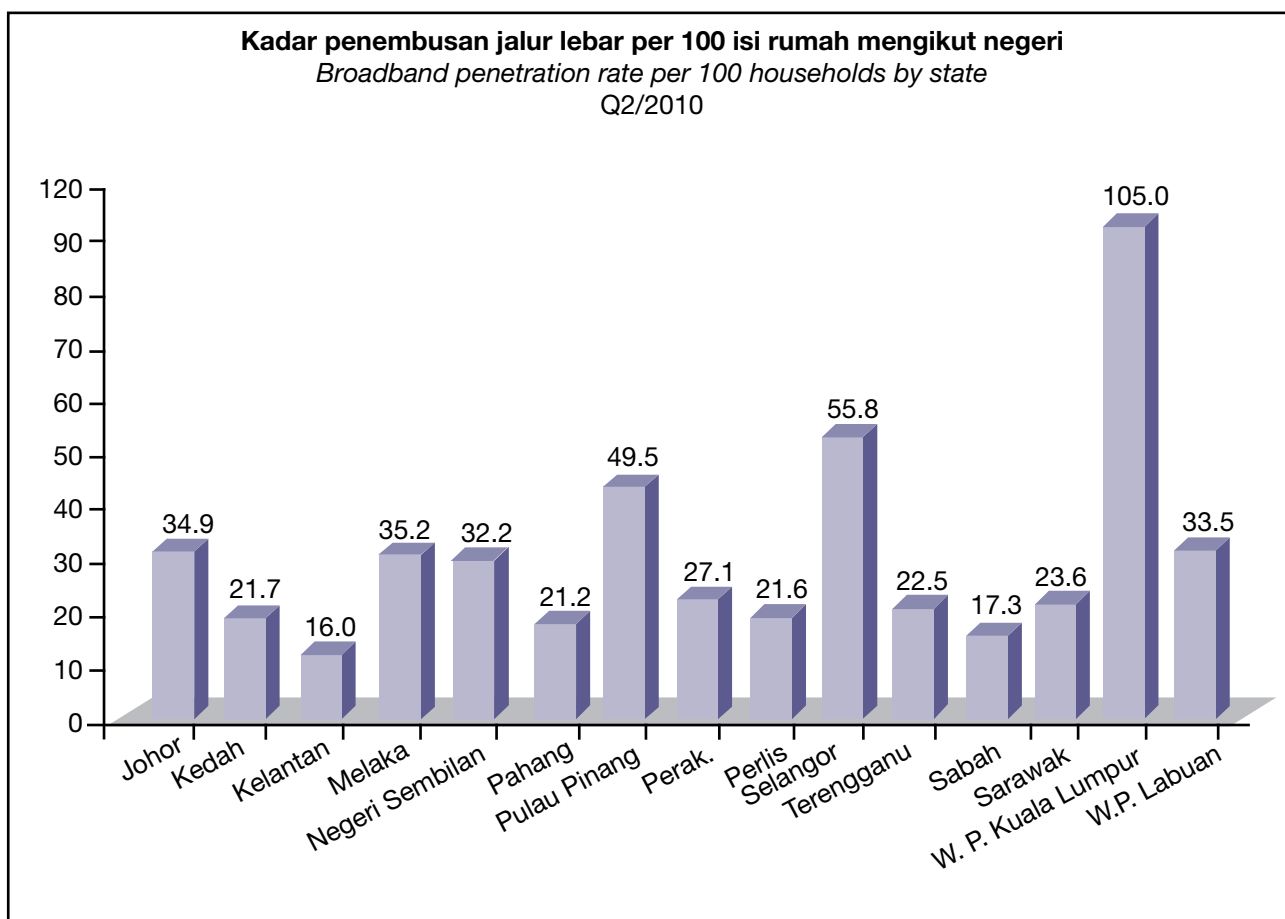
Tahun	Suku	Tetap			Tanpa wayar		Jumlah ('000)
		ADSL	SDSL	Lain-lain	Mobile	Lain-lain	
<i>Jumlah (Total)</i>							
2006		735.9	4.8	10.3	4.5		755.5
2007		1,002.4	6.5	16.9	96.4		1,122.1
2008		1,281.9	7.9	28.7	386.2	13.8	1,718.5
2009	1	1,362.2	8.1	52.9	469.5	19.0	1,911.7
	2	1,421.4	8.7	77.9	631.2	20.1	2,159.3
	3	1,462.3	9.4	114.8	775.7	20.7	2,382.9
	4	1,513.5	10.2	148.1	927.8	20.8	2,620.4
2010	1	1,561.3	11.0	168.7	1,160.2	21.2	2,922.4
	2	1,610.5	11.6	182.4	1,402.1	25.0	3,231.6
Jumlah penduduk/ <i>Total population</i>							28,908.8
Kadar penembusan penduduk/ <i>Population penetration rate</i>							11.2
<i>Isi Rumah (Households)</i>							
2006		628.7	1.1	8.3	1.8		639.9
2007		858.1	1.4	14.4	38.0		911.9
2008		1,098.0	1.6	21.1	152.2	13.0	1,285.9
2009	1	1,167.9	1.5	45.7	269.7	17.9	1,502.7
	2	1,219.0	1.4	70.0	358.5	18.9	1,667.8
	3	1,253.1	1.4	106.2	440.6	19.4	1,820.7
	4	1,285.1	1.5	138.7	527.0	19.5	1,971.8
2010	1	1,321.3	1.5	158.2	659.0	19.8	2,159.8
	2	1,365.5	1.5	169.1	796.4	23.6	2,356.1
Jumlah isi rumah / <i>Total number of households</i>							6,285.0
Kadar penembusan isi rumah / <i>Household penetration rate</i>							37.5
<i>Bukan Isi Rumah (Non - Households)</i>							
2006		107.2	3.7	2	2.7		115.6
2007		144.3	5.05	2.5	58.4		210.2
2008		183.9	6.3	7.6	234.0	0.8	432.6
2009	1	194.3	6.6	7.2	199.8	1.1	409.0
	2	202.4	7.3	7.9	272.7	1.2	491.5
	3	209.2	8.0	8.6	335.1	1.3	562.2
	4	228.4	8.8	9.3	400.8	1.3	648.6
2010	1	240.0	9.5	10.6	501.2	1.4	762.6
	2	245.0	10.1	13.3	605.7	1.4	875.5
Year	Qtr	ADSL	SDSL	Others	Mobile	Others	Total ('000)
			<i>Fixed</i>		<i>Wireless</i>		

#### 4. Kadar penembusan jalur lebar per 100 isi rumah mengikut negeri

*Broadband penetration rate per 100 households by state*

Negeri	2007	2008	2009				2010	
			1	2	3	4	1	2
Johor	13.3	19.4	22.7	24.6	26.7	29.3	31.9	34.9
Kedah	7.6	11.2	13.5	15.0	16.2	17.6	19.7	21.7
Kelantan	4.6	7.1	8.6	9.7	10.6	11.7	13.9	16.0
Melaka	15.0	21.4	24.3	26.4	28.2	30.0	32.2	35.2
Negeri Sembilan	11.1	17.4	20.5	22.7	24.4	26.4	29.0	32.2
Pahang	6.4	10.0	11.9	13.4	14.8	17.4	18.8	21.2
Pulau Pinang	25.5	33.2	36.4	38.7	40.8	43.1	46.3	49.5
Perak	10.1	15.2	17.3	18.8	20.4	22.1	24.4	27.1
Perlis	6.1	10.9	13.2	14.5	15.9	17.4	19.5	21.6
Selangor	25.1	33.2	38.9	42.7	46.1	49.1	52.3	55.8
Terengganu	6.6	10.6	12.6	14.5	16.2	17.6	20.1	22.5
Sabah	6.7	9.5	11.0	11.9	13.0	14.5	16.0	17.3
Sarawak	9.7	13.6	15.6	17.0	18.2	19.3	21.2	23.6
W. P. Kuala Lumpur	40.1	54.2	64.0	72.6	80.1	88.9	98.0	105.0
W.P. Labuan	14.9	21.2	24.5	26.6	27.9	28.7	31.0	33.5
<b>Malaysia</b>	<b>15.2</b>	<b>21.1</b>	<b>24.0</b>	<b>27.1</b>	<b>29.2</b>	<b>31.7</b>	<b>34.5</b>	<b>37.5</b>

State	2007	2008	2009				2010	
			1	2	3	4	1	2



## 5. Capaian Komuniti Community Access

Negeri	Pusat Jalur Lebar Komuniti Bilangan Pusat	Bilangan Pengguna	Pusat Jalur Lebar Komuniti Kecil (Mini PJK)	Perpustakaan Jalur Lebar (PJL)	Program Pembangunan Komunikasi Rakyat (PPKR)	Pusat Internet Desa (PID)	Kampung WiFi
Johor	45	11,483		7		6	1
Kedah	20	5,965	1	21	2	4	
Kelantan	19	4,354		15		2	
Melaka	13	2,170		5		1	
Negeri Sembilan	16	3,499		8		3	2
Pahang	36	9,515	2	6		3	
Pulau Pinang						2	
Perak	15	4,725			55	5	
Perlis	3	478			1	1	
Selangor	12	3,626	2	11		6	
Terengganu	17	4,458	1	10		2	
Sabah	19	6,405	2	1		3	1
Sarawak	25	6,066	3	26		4	3
W.P. Kuala Lumpur							
W.P. Labuan							
W.P. Putrajaya							
<b>Jumlah (Total)</b>	<b>240</b>	<b>62,744</b>	<b>11</b>	<b>110</b>	<b>58</b>	<b>42</b>	<b>7</b>

State	Community Broadband Centre Number of Centres	Number of Users	Mini Community Broadband Centre (Mini CBC)	Community Broadband Library (CBL)	Community Communications Development Program (CCDP)	Rural Internet Centre (RIC)	Kampung WiFi
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**Punca:** SKMM, KPKK  
Source: MCMC, MICC

Sila lihat muka surat sebelah untuk nota penjelasan.  
Please see next page for explanatory notes.

## Nota penjelasan:

### *Explanatory notes:*

#### Pusat Jalur Lebar Komuniti/Community Broadband Centres

Pusat Jalur Lebar Komuniti (PJK) memberikan akses Internet secara kolektif kepada kawasan yang kurang liputan perkhidmatan yang telah dikenalpasti di bawah Program Pemberian Perkhidmatan Sejagat (PPS). Setiap PJK dilengkapi dengan peralatan IT termasuk komputer peribadi yang disambungkan ke Internet melalui jalur lebar yang membolehkan masyarakat luar bandar menikmati Internet sebagaimana dinikmati oleh masyarakat bandar. Adalah diharapkan PJK akan memberi sumbangan kepada kejayaan untuk mencapai inisiatif negara bagi merapatkan jurang digital di antara masyarakat bandar dan luar bandar.

*Community Broadband Centres (CBC) provide collective community Internet access to underserved areas identified under the Universal Service Provision (USP) programme. Each CBC is equipped with IT equipment including personal computers connected to the Internet via broadband to allow rural communities to enjoy the benefits of the Internet as enjoyed by those living in urban areas. It is hoped that the CBC will contribute towards achieving success in national initiatives to bridge the digital divide between urban and rural communities.*

#### Perpustakaan Jalur Lebar/ Community Broadband Libraries

Akses Internet Jalur Lebar ke perpustakaan adalah projek yang dijalankan di bawah PPS. Tujuan pelaksanaan ialah untuk menyediakan akses Internet di kawasan yang kurang liputan perkhidmatan di seluruh negara. Pada awalnya, fokus projek ini ialah untuk membantu perpustakaan dengan memberikan kemudahan kepada masyarakat untuk pembangunan digital di kawasan luar bandar melalui akses komunikasi dan latihan. Projek ini juga menasaskan perkembangan fungsi kakitangan perpustakaan dari sumber fizikal ke sumber elektronik dan Internet dan pada masa yang sama membolehkan mereka memainkan peranan dalam meningkatkan keadaan sosial dan ekonomi masyarakat.

*The provision of broadband Internet access to libraries is a project implemented under the USP. The purpose of the implementation is to provide Internet access in underserved areas throughout the country. Initially, the focus of the project is to assist libraries in providing facilities to the marginalized community of digital development in rural areas through access to communications and training. This project also aims to expand the functions of library staff from only focusing on the physical books and resources in a library's possession to encompass electronic and Internet-based resources and thus empowering them to be an agent of change in improving the socio-economic condition of society through new ways of learning facilitated by the Internet.*

#### Pusat Jalur Lebar Komuniti Kecil/ Mini Community Broadband Centres

Mini PJK ialah projek di bawah PPS dalam usaha untuk merapatkan jurang digital. Mini PJK ditempatkan di premis Jabatan Penerangan di seluruh negara dan memberi liputan kepada masyarakat yang tinggal di persekitaran mini PJK. Setiap mini PJK dilengkapi dengan 5 buah komputer dan akses Internet jalur lebar.

*Mini CBC is a project under USP programme to close the digital divide. Mini CBCs are co-located with Information Department offices all over the country and cover communities living near the mini CBC. Each mini CBC is equipped with 5 personal computers and broadband access.*

#### Program Pembangunan Komunikasi Rakyat/Community Communications Development Program

Objektifnya adalah untuk meningkatkan kawasan liputan dan perkhidmatan rangkaian dan perkhidmatan aplikasi.

*Its objective is to increase community access to network services and facilities.*

#### Pusat Internet Desa/Rural Internet Centres

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 Penerangan Komunikasi dan Kebudayaan.

*The Rural Internet Centre is the physical aspect of the Rural Internet Program. This program is part of a larger program that involves the local community directly from all aspects such as maintenance and daily management. This program is under the auspices of the Ministry of Information Communication and Culture.*

#### Kampung WiFi

Kampung WiFi adalah projek yang dikendalikan oleh Pernecc di kawasan luar bandar. Objektifnya bertujuan untuk menyediakan jalur lebar tanpa wayar dengan memasang antena WiFi pada tempat yang strategik.

*Kampung WiFi is a project by Pernecc in rural areas. Its objective is to provide wireless broadband access by installing WiFi antennas in strategic places.*

## 6. Bilangan lokasi 'Hotspot' mengikut negeri

*Number of Hotspot locations by state*

Negeri	2005	2006	2007	2008	2009	2010	
						1	2
Johor	79	94	81	104	158	172	192
Kedah	36	31	56	64	88	102	102
Kelantan	30	30	37	47	69	75	74
Melaka	20	34	41	41	103	107	106
Negeri Sembilan	24	31	36	40	125	143	149
Pahang	58	80	88	93	162	187	187
Pulau Pinang	88	94	120	121	139	163	170
Perak	44	43	111	186	228	173	170
Perlis	0	0	2	2	4	7	7
Selangor	319	352	356	574	844	844	783
Terengganu	43	35	39	41	59	62	61
Sabah	37	44	42	37	84	91	93
Sarawak	75	75	79	90	138	146	144
W. P. Kuala Lumpur	352	395	376	494	617	570	427
W.P. Labuan	9	9	10	8	11	11	11
W.P. Putrajaya	13	11	11	11	17	17	17
Jumlah (Total)	1,227	1,358	1,485	1,953	2,846	2,870	2,693
<i>State</i>	<i>2005</i>	<i>2006</i>	<i>2007</i>	<i>2008</i>	<i>2009</i>	<i>2010</i>	
						<i>1</i>	<i>2</i>

## 7. Bilangan langganan 'Hotspot' dan projek jalur lebar WiFi

*Number of Hotspot and WiFi broadband project subscriptions*

Tahun	Suku	Langganan <i>hotspot</i> (‘000)	Langganan projek jalur lebar WiFi (‘000)
2005		20.3	
2006		141.4	
2007		289.3	
2008		355.4	...
2009		375.3	263.9
2010	1	376.3	317.9
	2	375.8	321.1
<i>Year</i>	<i>Qtr</i>	<i>Hotspot subscription</i> (‘000)	<i>WiFi broadband projects subscription</i> (‘000)

### Nota penjelasan:

*Explanatory notes:*

Projek jalur lebar WiFi termasuk projek Wireless@KL, WiFi@Perak, MyBroadband WiFi@Penang dan DANAWA  
*WiFi broadband include Wireless@KL, WiFi@Perak, MyBroadband WiFi@Penang and DANAWA*

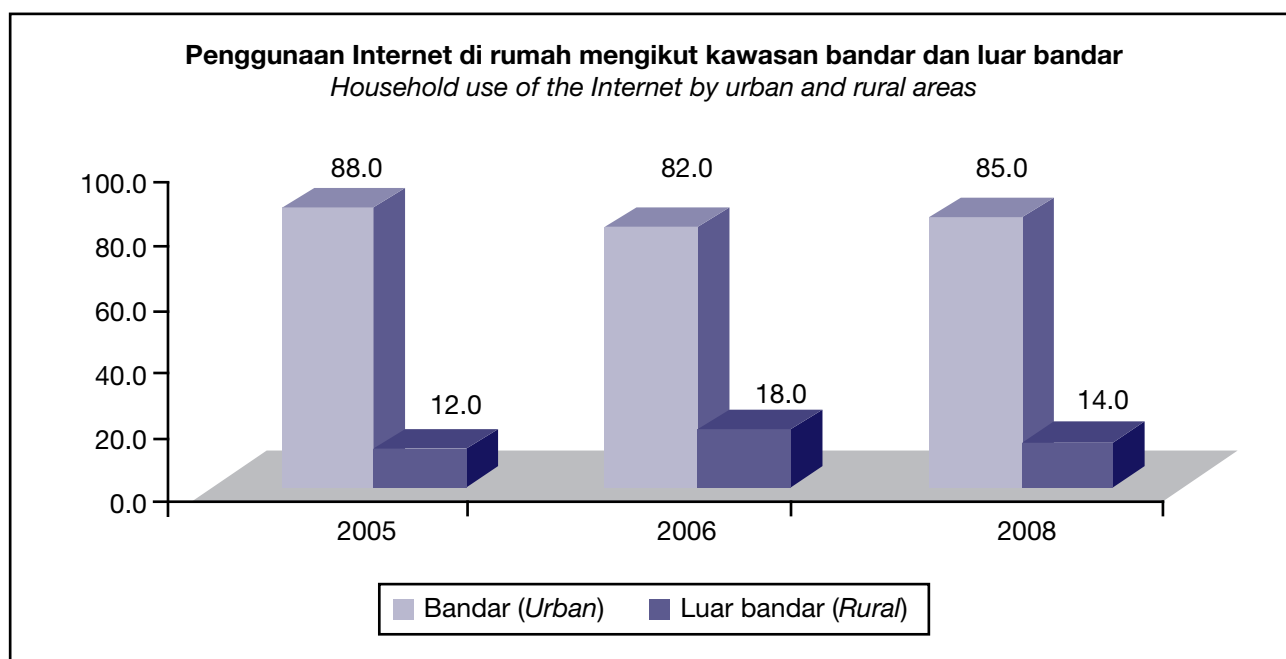
## 8. Penggunaan Internet di rumah mengikut kawasan bandar dan luar bandar

*Household use of the 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
------	-------	-------



### Nota penjelasan:

*Explanatory notes:*

Jadual 8-12, adalah dari Kajian Penggunaan Internet di Isi Rumah yang dijalankan oleh SKMM pada 2005, 2006 dan 2008. Kajian ini hanya meliputi pengguna yang mengakses Internet di isi rumah persendirian melalui sambungan ADSL dan/atau *dial-up*.

*Tables 8-12, are from the Household Use of the Internet surveys conducted by the MCMC in 2005, 2006 and 2008. The survey covers only users from private households in Malaysia that access the Internet through ADSL and/or dial-up.*

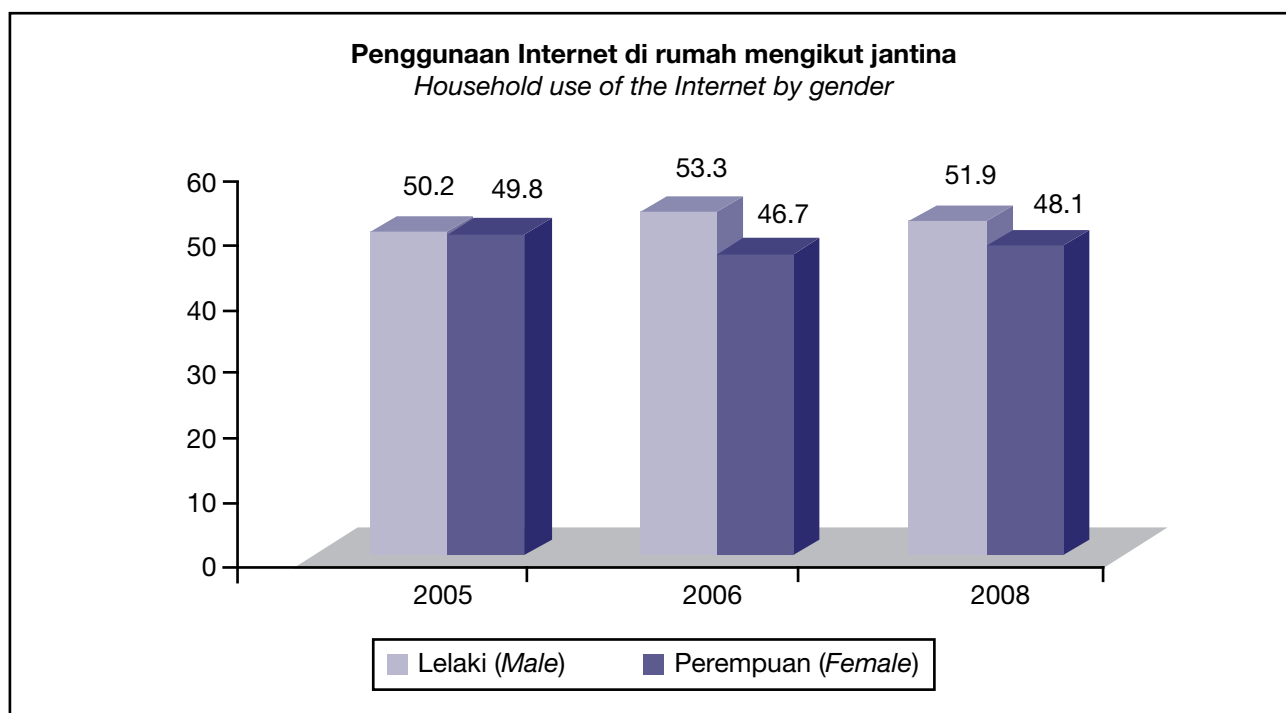
## 9. Penggunaan Internet di rumah mengikut jantina

### *Household use of the Internet by gender*

(%)

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

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



#### **Nota penjelasan:**

*Explanatory notes:*

Sila rujuk nota bagi Jadual 8

*Please see notes accompanying Table 8*

## 10. Penggunaan Internet dirumah mengikut kategori umur

### *Household use of the 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 keatas ( <i>50 and above</i> )	8.4	7.1	9.4
<i>Age category</i>	<i>2005</i>	<i>2006</i>	<i>2008</i>

#### **Nota penjelasan:**

*Explanatory notes:*

Sila rujuk nota bagi Jadual 8

*Please see notes accompanying Table 8*

## 11. Penggunaan Internet dirumah mengikut bilangan jam penggunaan seminggu

*Household use of the 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

### **Nota penjelasan:**

*Explanatory notes:*

Sila rujuk nota bagi Jadual 8

*Please see notes accompanying Table 8*

## 12. Penggunaan Internet di rumah mengikut kegunaan utama

### *Household use of the 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	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

#### **Nota penjelasan:**

*Explanatory notes:*

Sila rujuk nota bagi Jadual 8

*Please see notes accompanying Table 8*

### 13. Peratus isi rumah yang mempunyai kemudahan komputer peribadi mengikut negeri

*Percentage of households with access to personal computers by state*

Negeri	2000	2002	2004	2007
Johor	11.4	22.9	27.9	28.1
Kedah	8.7	17.4	23.5	20.2
Kelantan	5.9	13.5	16.2	14.9
Melaka	13.9	26.3	25.3	36.2
Negeri Sembilan	12.8	22.1	25.1	29.7
Pahang	9.6	17.2	21.5	23.1
Pulau Pinang	19.5	30.4	29.9	41.7
Perak	10.3	19.5	20.4	23.6
Perlis	8.9	16.7	20.7	28.2
Selangor	23.6	36.8	43.9	47.3
Terengganu	8.6	15.2	19.8	21.4
Sabah	7.1	17.8	21.2	22.1
Sarawak	8.5	16.4	35.5	26.5
W. P. Kuala Lumpur	24.2	33.0	39.5	42.3
Malaysia	13.5	24.1	28.2	31.3
<i>State</i>	<i>2000</i>	<i>2002</i>	<i>2004</i>	<i>2007</i>

**Punca:** JPM

*Source:* DOS

## 14. Indeks kepuasan pengguna bagi akses Internet

### *Internet access consumer satisfaction index*

	Pungutan VI	2004	2006	2007
<i>a. Individu (Individual)</i>				
<i>Dial-up</i>	7.59	2.82	3.13	3.49
Jalur lebar <i>Broadband</i>	...	...	3.22	3.52
<i>b. Komersial (Commercial)</i>				
<i>Dial-up</i>	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 dikirakan dari 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 ke skala 1 - 5.

*The Consumer Satisfaction Survey (CSS) for Internet access tries to 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>

## 15. Jalur lebar per 100 penduduk, negara-negara ASEAN

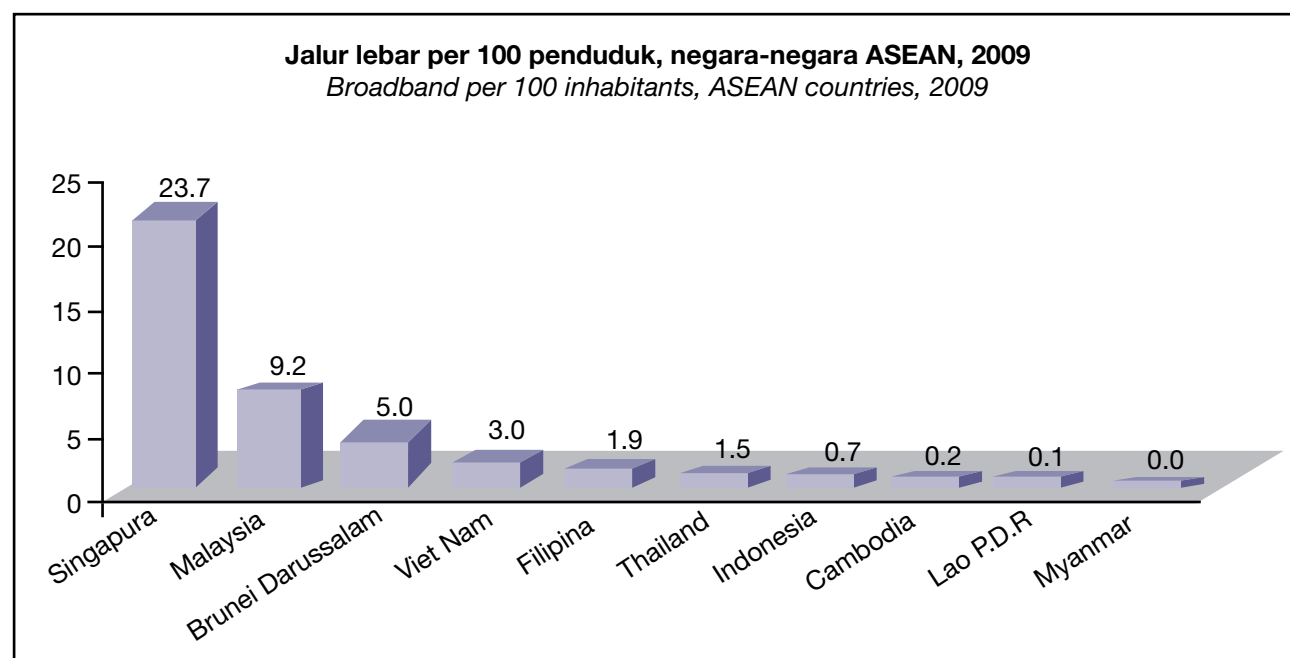
*Broadband per 100 inhabitants, ASEAN countries*

Tahun	Singapura	Malaysia	Brunei Darussalam	Viet Nam	Filipina
2005	15.4	1.8	2.2	0.3	0.1
2006	18.1	2.8	2.4	0.6	0.3
2007	20.0	4.1	3.0	1.5	0.6
2008	21.7	6.1	4.3	2.4	1.2
2009	23.7	9.2	5.0	3.0	1.9

Year	Singapore	Malaysia	Brunei Darussalam	Viet Nam	Philippines
------	-----------	----------	-------------------	----------	-------------

Tahun	Thailand	Indonesia	Cambodia	Lao P.D.R.	Myanmar
2005	0.2	0.1	0.0	0.0	
2006	0.2	0.1	0.0	0.0	0.0
2007	1.4	0.4	0.1	0.1	0.0
2008	1.4	0.4	0.1	0.1	0.0
2009	1.5	0.7	0.2	0.1	0.0

Year	Thailand	Indonesia	Cambodia	Lao P.D.R.	Myanmar
------	----------	-----------	----------	------------	---------



**Punca:** SKMM, ITU  
*Source:* MCMC, ITU

## 16. Jalur lebar per 100 penduduk berbanding 10 rakan perdagangan terbesar, Malaysia

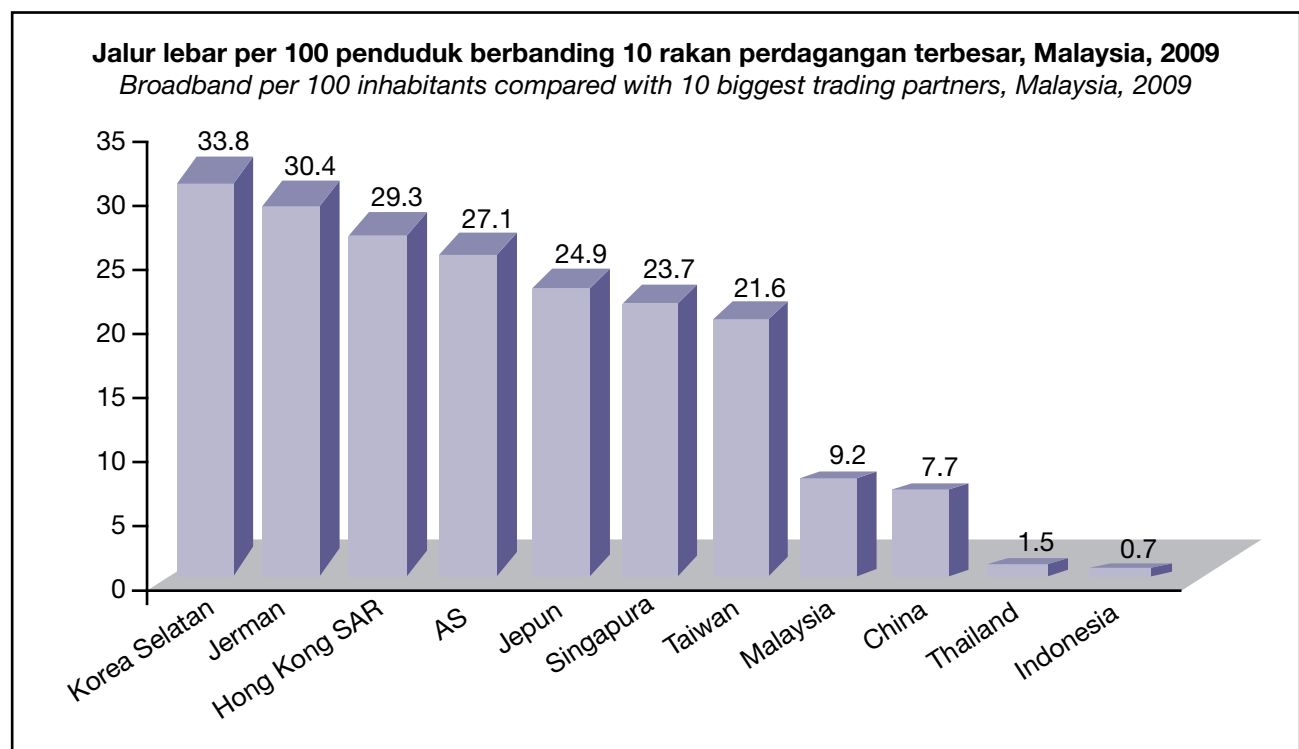
*Broadband per 100 inhabitants compared with 10 biggest trading partners, Malaysia*

Tahun	Korea Selatan	Jerman	Hong Kong SAR	AS	Jepun	Singapura
2005	25.6	13.1	24.1	15.9	18.3	15.4
2006	29.4	18.2	26.0	19.7	20.7	18.1
2007	30.7	23.8	27.3	22.7	22.2	20.0
2008	32.1	27.5	28.1	24.7	23.2	21.7
2009	33.8	30.4	29.3	27.1	24.9	23.7

Year	South Korea	Germany	Hong Kong SAR	USA	Japan	Singapore
------	-------------	---------	---------------	-----	-------	-----------

Tahun	Taiwan	Malaysia	China	Thailand	Indonesia
2005	19.1	1.8	2.9	0.2	0.1
2006	19.8	2.8	3.9	0.2	0.1
2007	20.9	4.1	5.0	1.4	0.4
2008	21.8	6.1	6.2	1.4	0.4
2009	21.6	9.2	7.7	1.5	0.7

Year	Taiwan	Malaysia	China	Thailand	Indonesia
------	--------	----------	-------	----------	-----------



**Punca:** SKMM, ITU  
**Source:** MCMC, ITU

## 17. Bilangan langganan telefon selular dan kadar penembusan

*Number of cellular telephone subscriptions and penetration rate*

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		3,905	19,442	23,347	85.1
2008		5,544	22,169	27,713	98.9
2009	1	5,859	22,335	28,194	100.1
	2	6,086	22,459	28,545	100.8
	3	6,212	23,411	29,623	104.1
	4	6,265	23,879	30,144	105.4
2010	1	6,402	24,392	30,794	107.1
	2	6,488	24,968	31,456	108.8
Unjuran <i>Forecast</i>					
2010	3				110.6
Year	Qtr	Postpaid (‘000)	Prepaid (‘000)	Total (‘000)	Penetration rate per 100 inhabitants

### Nota penjelasan:

#### *Explanatory notes:*

Kadar penembusan telefon selular dikira sebagai jumlah langganan dibahagi jumlah penduduk dan didarabkan dengan 100. Penembusan yang melebihi 100% boleh berpunca daripada pelanggan yang melanggan lebih daripada satu langganan/perkhidmatan.

*The penetration rate refers to the total number of subscriptions divided by total population and multiplied by 100. A penetration rate of over 100% can occur because of multiple subscriptions.*

Termasuk 3G. Sila lihat Jadual 19

*Includes 3G. Please see Table 19*

**18. Kadar penembusan telefon selular per 100 penduduk mengikut negeri**  
*Cellular telephone penetration rate per 100 inhabitants by state*

Negeri	2007	2008
Johor	87.1	101.3
Kedah	72.0	88.1
Kelantan	56.4	70.6
Melaka	104.7	102.7
Negeri Sembilan	89.4	92.4
Pahang	72.3	86.4
Pulau Pinang	89.5	101.4
Perak	70.4	85.9
Perlis	71.2	94.8
Selangor*	93.2	96.4
Terengganu	72.5	62.6
Sabah**	48.4	58.5
Sarawak	53.0	65.7
W. P. Kuala Lumpur	111.9	151.8
<i>State</i>	<i>2007</i>	<i>2008</i>

Sila lihat muka surat sebelah untuk nota penjelasan.  
*Please see next page for explanatory notes.*

## 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 langganan mengikut negeri
- anggaran penduduk mengikut negeri

Anggaran langganan diolah daripada Kajian Pengguna Telefon Bimbit yang dijalankan oleh SKMM setiap tahun. Anggaran penduduk diperoleh dari Jabatan Perangkaan Malaysia.

Pengiraan bagi kadar penembusan adalah:

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

Adalah diingatkan bahawa Kajian Pengguna Telefon Bimbit adalah satu kaedah kajiselidik dan tertakluk kepada:

- ralat pensampelan
- ralat bukan-pensampelan

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

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

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

- *estimated number of subscriptions by state*
- *estimated population by state*

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

*A penetration rate is calculated as:*

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

*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.*

## 19. Bilangan langganan 3G

*Number of 3G subscriptions*

Tahun	Suku	Pascabayar (‘000)	Prabayar (‘000)	Jumlah (‘000)
2006		265	162	427
2007		825	730	1,555
2008		2,014	2,352	4,366
2009	1	2,319	3,122	5,441
	2	2,614	3,429	6,043
	3	2,817	4,062	6,879
	4	2,993	4,354	7,347
2010	1	3,210	4,249	7,459
	2	3,351	4,509	7,860
Year	Qtr	Postpaid (‘000)	Prepaid (‘000)	Total (‘000)

### Nota penjelasan:

*Explanatory notes:*

Langganan 3G yang ditunjukkan di atas adalah dikirakan juga dalam Jadual 17  
*3G subscriptions shown above are also counted in Table 17*

## 20. Kemudahan Nombor *Number Portability*

Tahun	Suku	Permintaan pengalihan nombor (‘000)	Pengalihan nombor yang berjaya (‘000)
2008		324.5	211.7
2009	1	439.3	297.7
	2	457.4	320.6
	3	322.5	230.9
	4	306.5	225.6
2010	1	279.9	199.1
	2	257.4	185.6

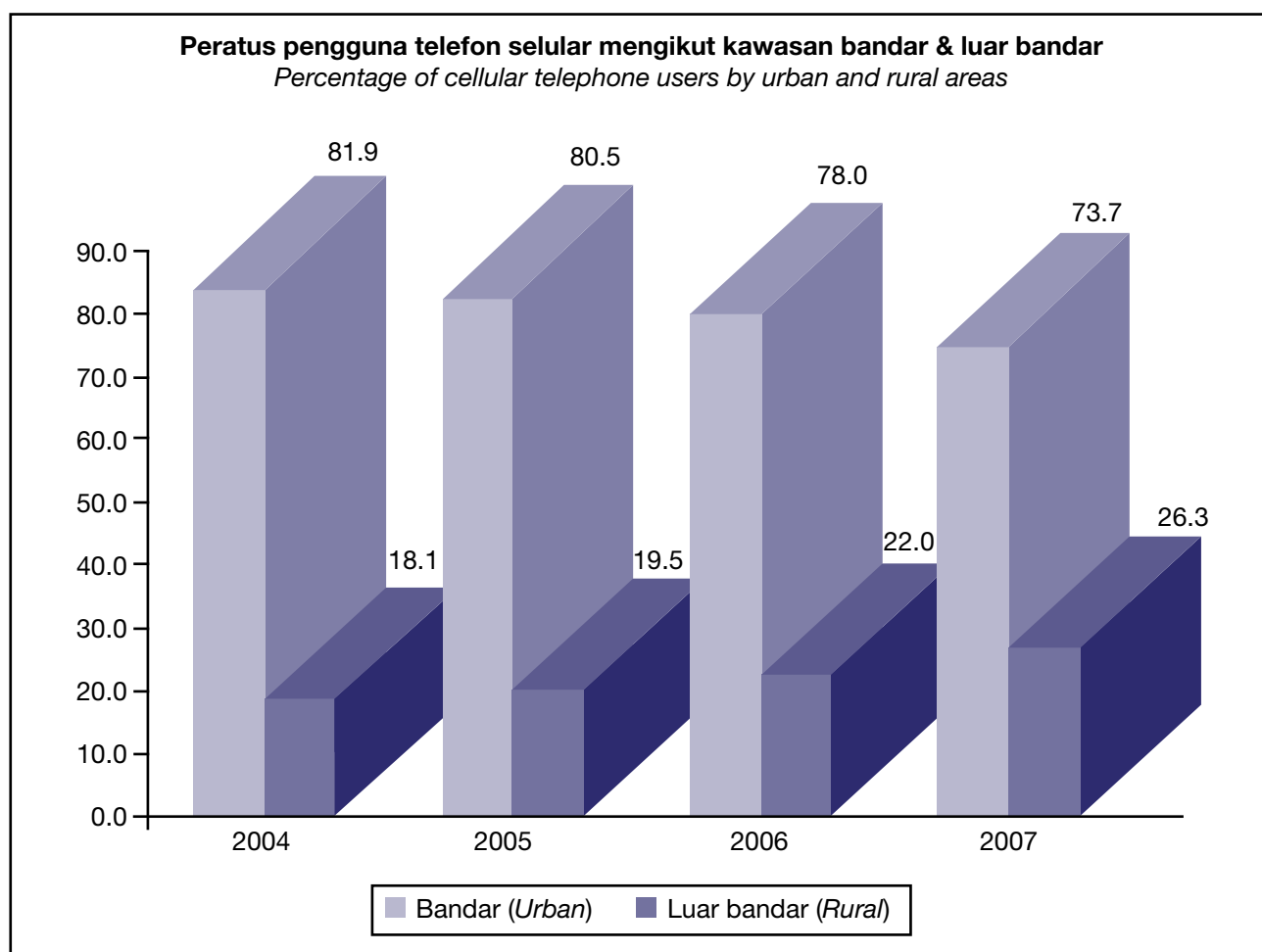
Year	Qtr	Number of Porting Request (‘000)	Successful Porting (‘000)
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## 21. Peratus pengguna telefon selular mengikut kawasan bandar dan luar bandar

*Percentage of cellular telephone 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
2007	73.7	26.3

Year	Urban	Rural
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### Nota penjelasan:

*Explanatory notes:*

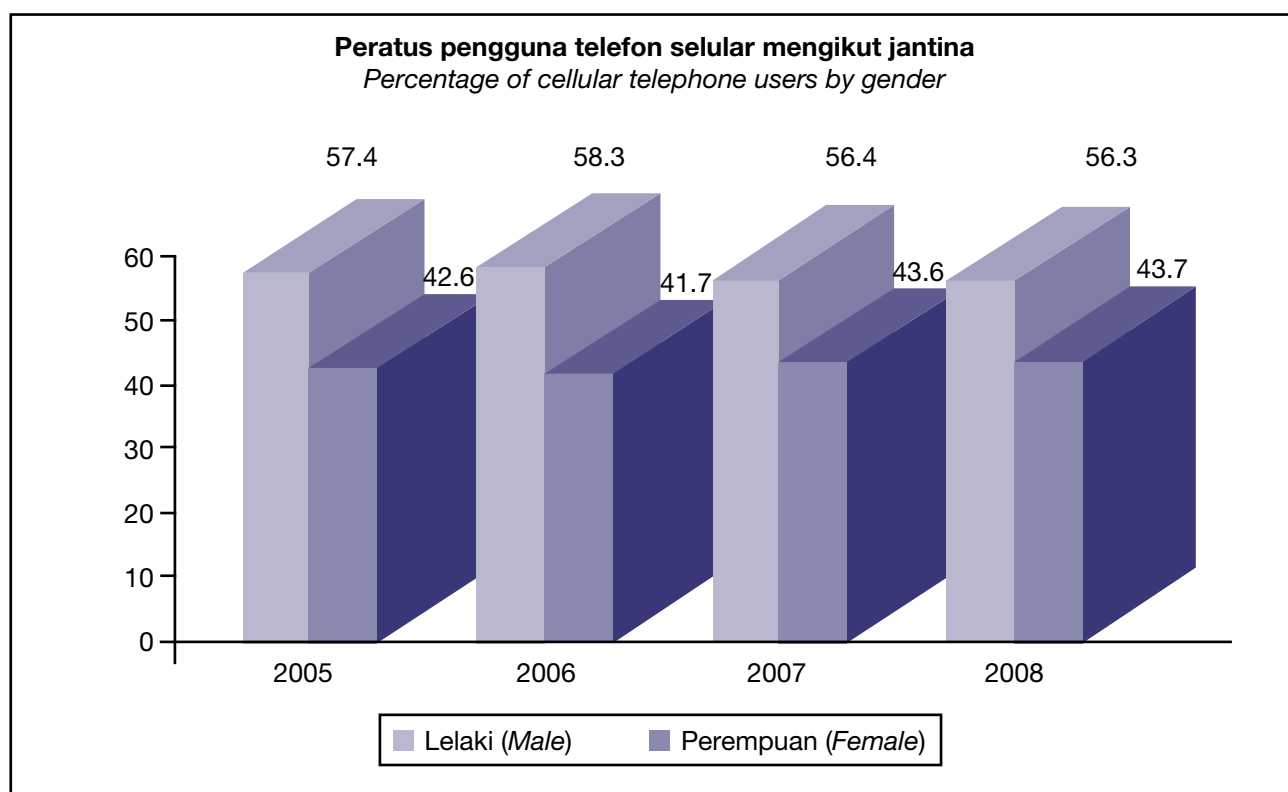
Jadual 21-22, adalah dari Kajian Pengguna Telefon Bimbit yang dijalankan oleh SKMM pada setiap tahun.  
*Tables 21-22, are from the Hand Phone Users Survey conducted by MCMC annually.*

## 22. Peratus pengguna telefon selular mengikut jantina Percentage of cellular telephone users by gender

Tahun	Lelaki	Perempuan
2005	57.4	42.6
2006	58.3	41.7
2007	56.4	43.6
2008	56.3	43.7

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



### Nota penjelasan:

*Explanatory notes:*

Sila rujuk nota bagi Jadual 21

*Please see notes accompanying Table 21*

## 23. 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		56,888.5	2,437
2008		73,211.3	2,650
2009	1	20,397.6	726
	2	22,028.9	772
	3	22,677.4	766
	4	24,304.9	800
2010	1	23,398.0	770
	2	24,015.4	771
Year	Qtr	Total (million)	Per subscription
Note		1	

#### **Nota penjelasan:**

*Explanatory notes:*

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

## 24. Indeks kepuasan pengguna telefon selular

*Cellular telephone consumer satisfaction index*

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

### 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 dari 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 ke skala 1 - 5.

*The Consumer Satisfaction Survey (CSS) for Cellular Telephony gauges 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

## 25. Telefon selular per 100 penduduk, negara-negara ASEAN

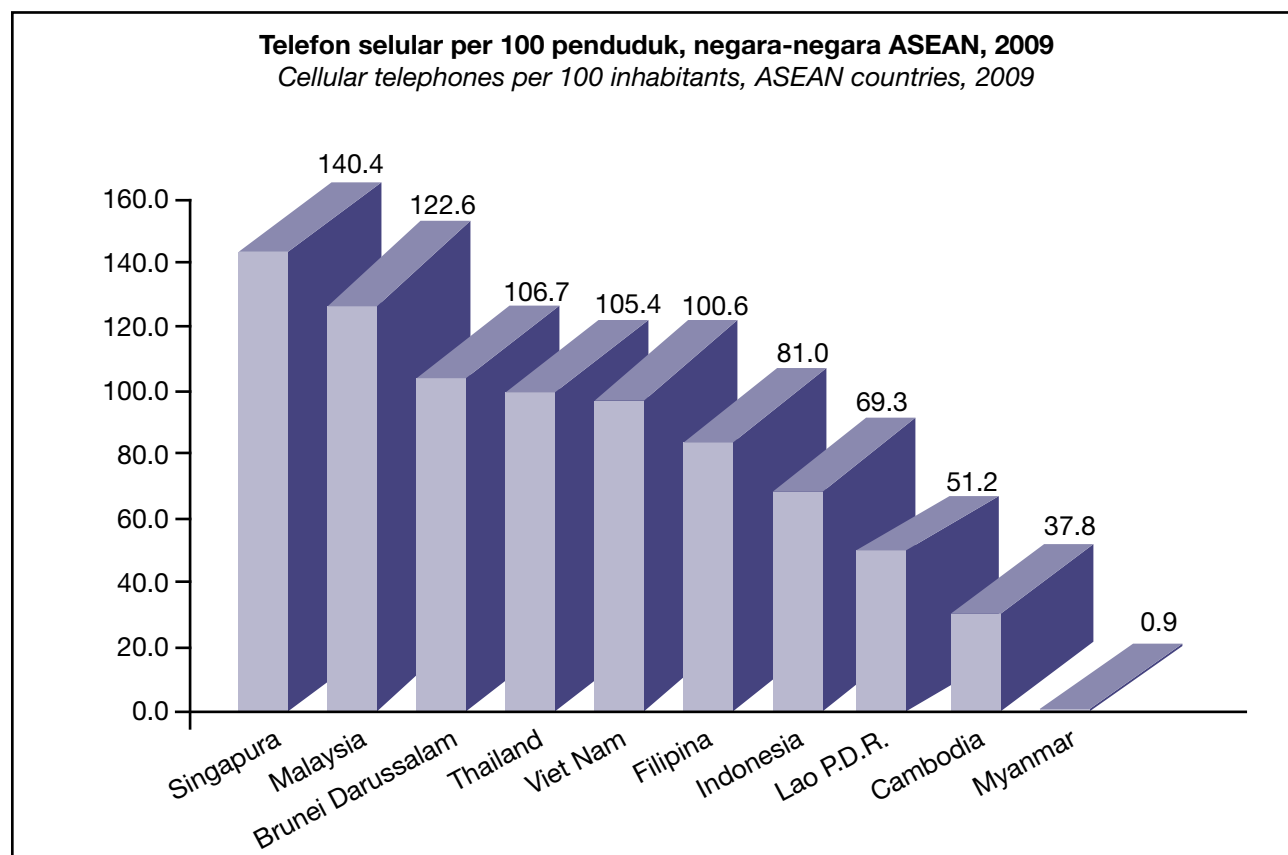
*Cellular telephones per 100 inhabitants, ASEAN countries*

Tahun	Singapura	Malaysia	Brunei Darussalam	Thailand	Viet Nam
2005	101.4	74.1	56.3	26.1	10.7
2006	109.3	72.3	66.5	62.9	18.2
2007	132.1	85.1	90.7	79.1	27.6
2008	138.2	98.9	95.9	92.0	80.4
2009	140.4	122.6	106.7	105.4	100.6

Year	Singapore	Malaysia	Brunei Darussalam	Thailand	Viet Nam
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Tahun	Filipina	Indonesia	Lao P.D.R.	Cambodia	Myanmar
2005	39.5	21.1	10.8	7.6	0.3
2006	50.8	28.3	16.7	12.0	0.4
2007	64.6	41.6	24.3	18.0	0.5
2008	75.4	61.8	29.4	29.1	0.7
2009	81.0	69.3	51.2	37.8	0.9

Year	Philippines	Indonesia	Lao P.D.R.	Cambodia	Myanmar
------	-------------	-----------	------------	----------	---------



**Punca:** SKMM, ITU  
**Source:** MCMC, ITU

## 26. Telefon selular per 100 penduduk berbanding 10 rakan perdagangan terbesar, Malaysia

*Cellular telephones per 100 inhabitants compared with 10 biggest trading partners, Malaysia*

Tahun	Hong Kong SAR	Singapura	Jerman	Taiwan	Malaysia	Jepun
2005	122.6	101.4	95.9	97.0	74.1	74.0
2006	132.7	109.3	107.0	102.0	72.3	79.3
2007	146.4	126.7	117.6	106.1	85.1	83.9
2008	165.9	138.2	128.3	110.3	98.8	95.3
2009	173.8	140.4	127.8	122.6	116.7	105.4

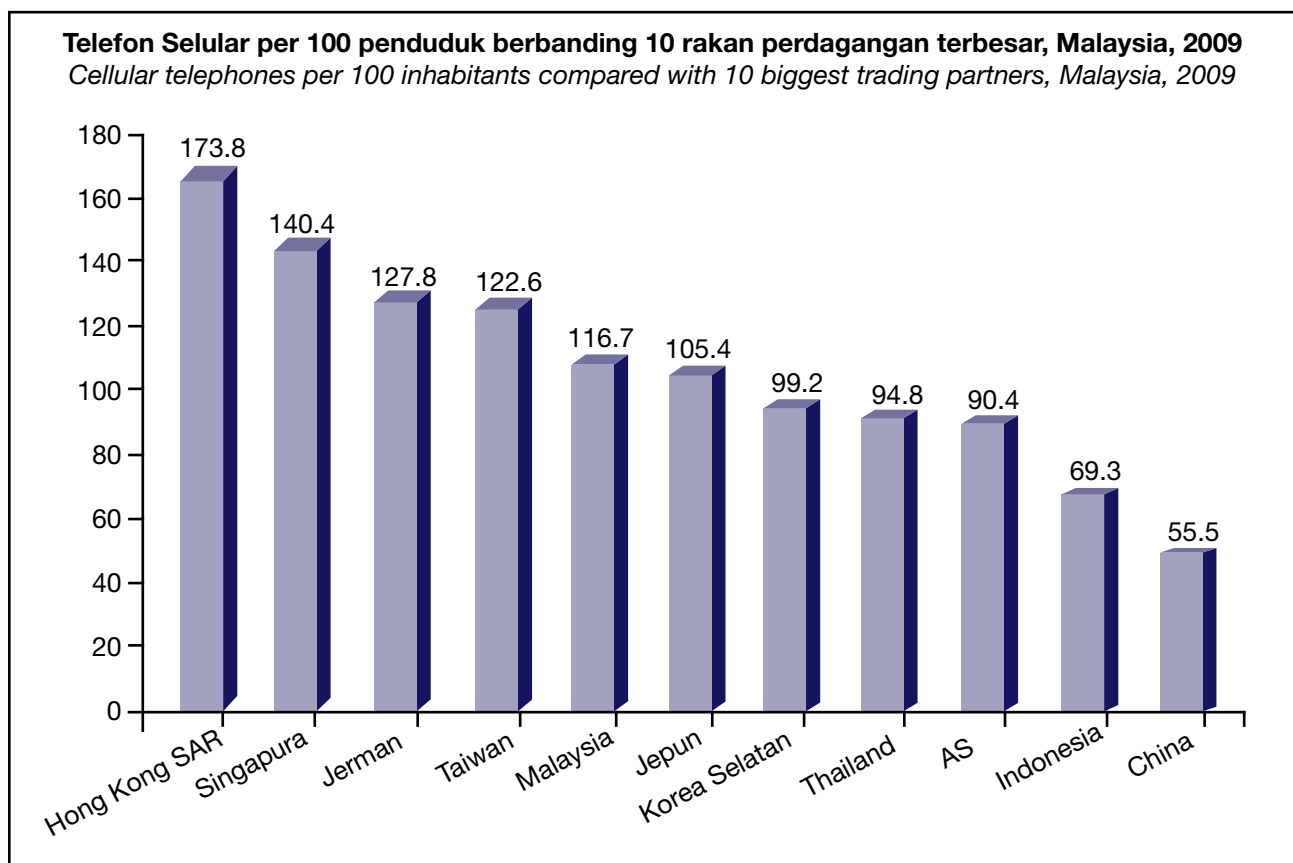
  

Year	Hong Kong SAR	Singapore	Germany	Taiwan	Malaysia	Japan
------	---------------	-----------	---------	--------	----------	-------

Tahun	Korea Selatan	Thailand	AS	Indonesia	China
2005	79.4	26.1	67.6	21.1	29.9
2006	83.8	62.9	80.3	28.3	34.8
2007	90.2	123.8	83.5	35.3	41.2
2008	94.7	92.0	86.8	61.8	47.9
2009	99.2	94.8	90.4	69.3	55.5

Year	South Korea	Thailand	USA	Indonesia	China
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**Punca:** SKMM, ITU  
**Source:** MCMC, ITU

## 27. Bilangan Talian Ibusawat Terus dan kadar penembusan

*Number of DEL connections and penetration rate*

Tahun	Suku	Kediaman		Bilangan langganan perniagaan ('000)	Jumlah langganan ('000)
		Bilangan langganan ('000)	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	48.3	1,511	4,342
2007		2,851	47.8	1,499	4,350
2008		2,734	44.9	1,558	4,292
<hr/>					
2009	1	2,734	44.7	1,563	4,297
	2	2,741	44.5	1,570	4,311
	3	2,735	44.2	1,574	4,309
	4	2,734	44.0	1,578	4,312
<hr/>					
2010	1	2,745	43.9	1,583	4,328
	2	2,767	44.0	1,592	4,359
<hr/>					
Unjuran Forecast					
2010	3		43.7		
<hr/>					
Year	Qtr	Residential		Number of business subscriptions ('000)	Total subscriptions ('000)
		Number of subscriptions ('000)	Penetration rate (per 100 households)		

**Nota penjelasan:**  
*Explanatory notes:*

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

**28. Kadar Penembusan Talian Ibusawat Terus per 100 isi rumah mengikut negeri**  
*DEL penetration rate per 100 household by state*

Negeri	2009	2010	
		1	2
Johor	49.2	49.0	49.2
Kedah dan/and Perlis	32.6	32.9	33.0
Kelantan	25.0	24.1	23.3
Melaka	57.8	58.1	58.5
Negeri Sembilan	51.9	52.2	52.3
Pahang	33.0	32.8	32.7
Pulau Pinang	61.9	62.0	62.4
Perak	52.7	52.4	52.4
Selangor*	57.5	57.6	57.6
Terengganu	35.7	35.4	35.2
Sabah	18.8	18.7	18.7
Sarawak	28.3	28.3	28.3
W. P. Kuala Lumpur	31.9	32.6	33.3
W. P. Labuan	38.0	37.9	38.0
<b>Malaysia</b>	<b>44.0</b>	<b>43.9</b>	<b>44.0</b>
<i>State</i>	<i>2009</i>	<i>1</i>	<i>2</i>
		<i>2010</i>	

**Nota penjelasan:**

*Explanatory notes:*

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

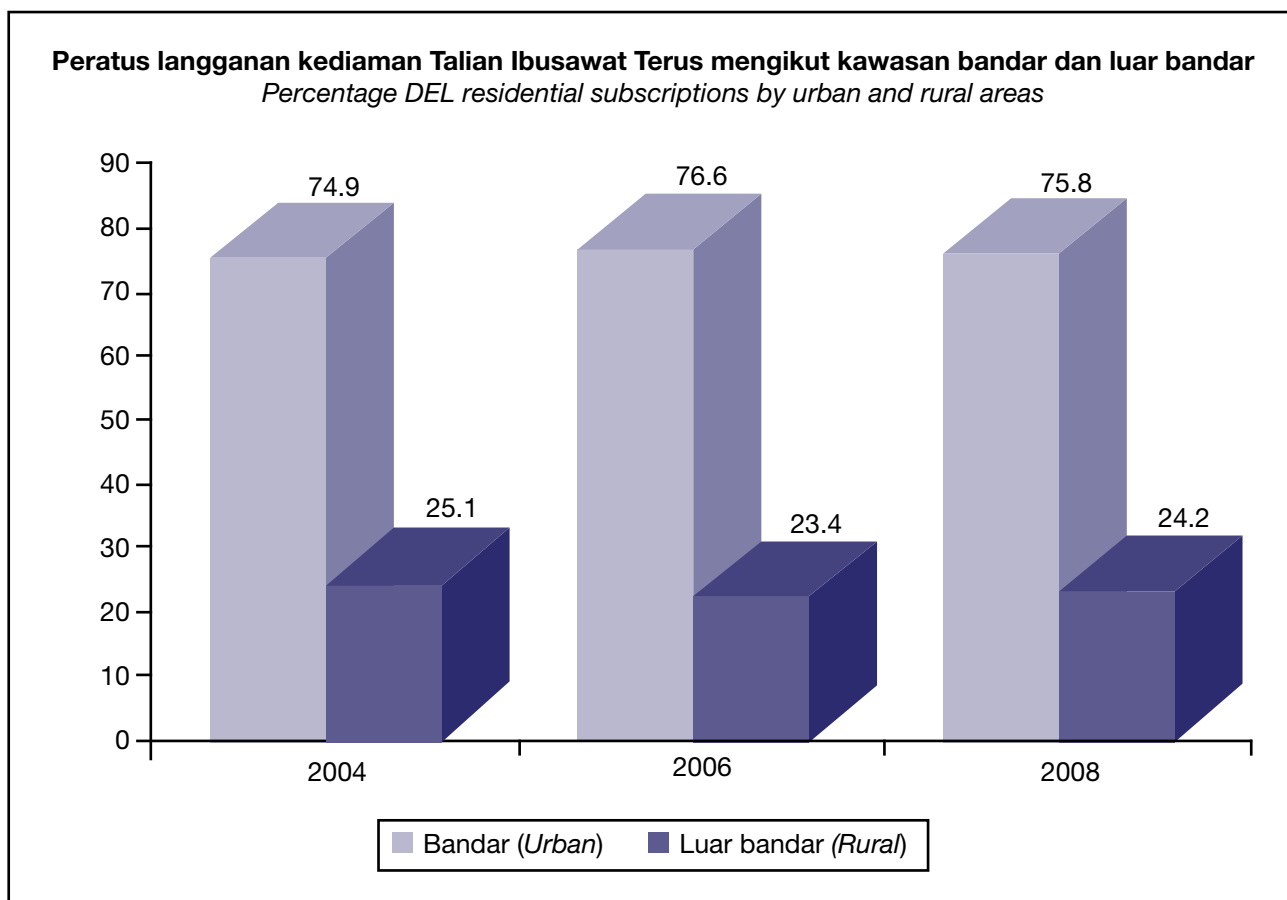
## 29. Peratus langgan kediaman Talian Ibusawat Terus mengikut kawasan bandar dan luar bandar

*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
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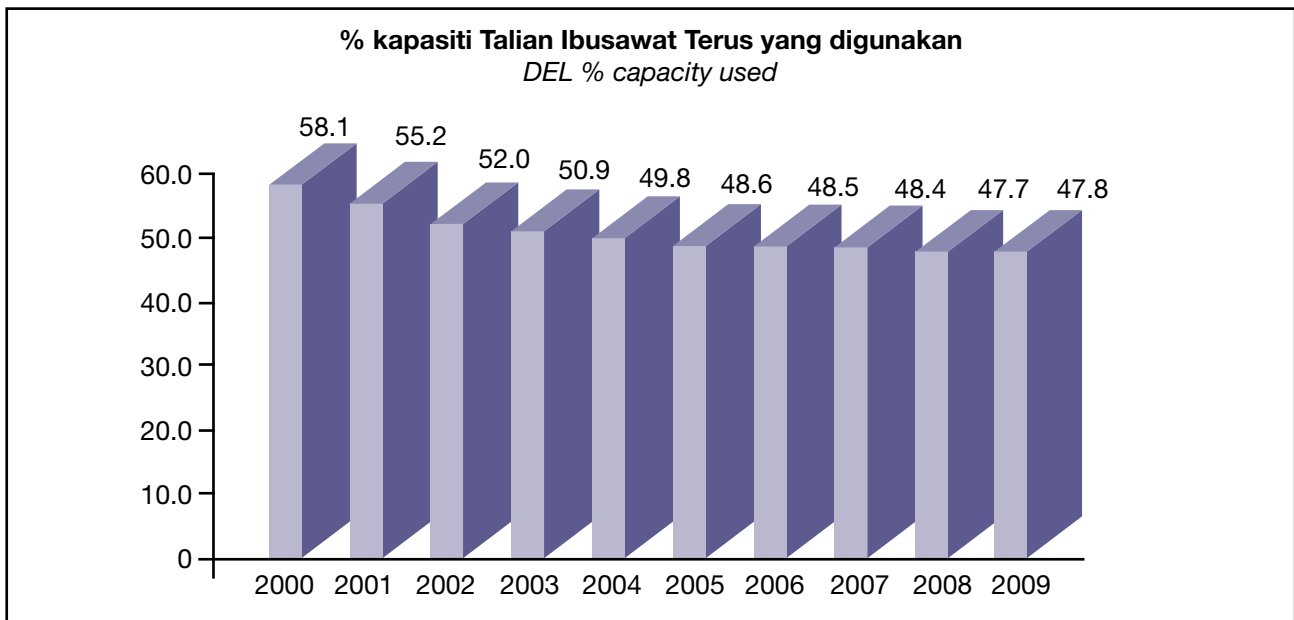


### 30. Rangkaian Talian Ibusawat Terus, kapasiti digunakan *DEL network, capacity used*

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
2006		48.5	39
2007		48.4	20
2008		47.7	13
2009		47.8	39
2010	1	48.1	39
	2	48.1	39

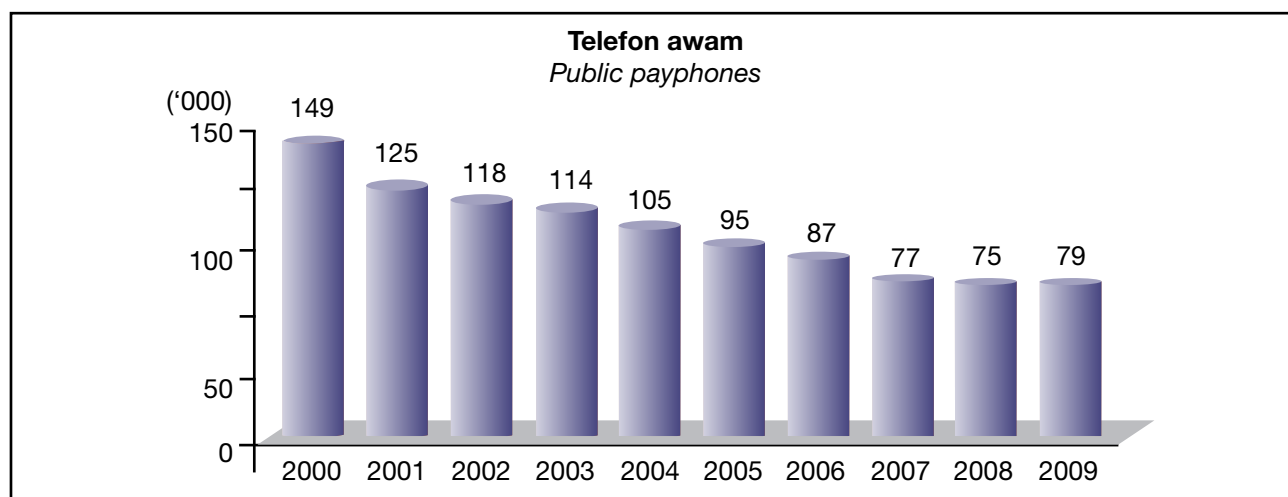
Year	Qtr	Capacity used (%)	Waiting list ('000)
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### 31. Bilangan telefon awam

*Number of 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		77	2.81
2008		75	2.66
2009	1	68	2.41
	2	61	2.16
	3	64	2.25
	4	79	2.76
2010	1	64	2.23
	2	50	1.73
Year	Qtr	Total ('000)	Per 1,000 inhabitants



**Nota penjelasan:**  
*Explanatory notes:*

Telefon awam merujuk kepada semua jenis termasuk yang menggunakan duit syiling, kad ataupun kombinasi.  
*Payphones refer to of all types of public telephones including coin, card-operated ones and combos.*

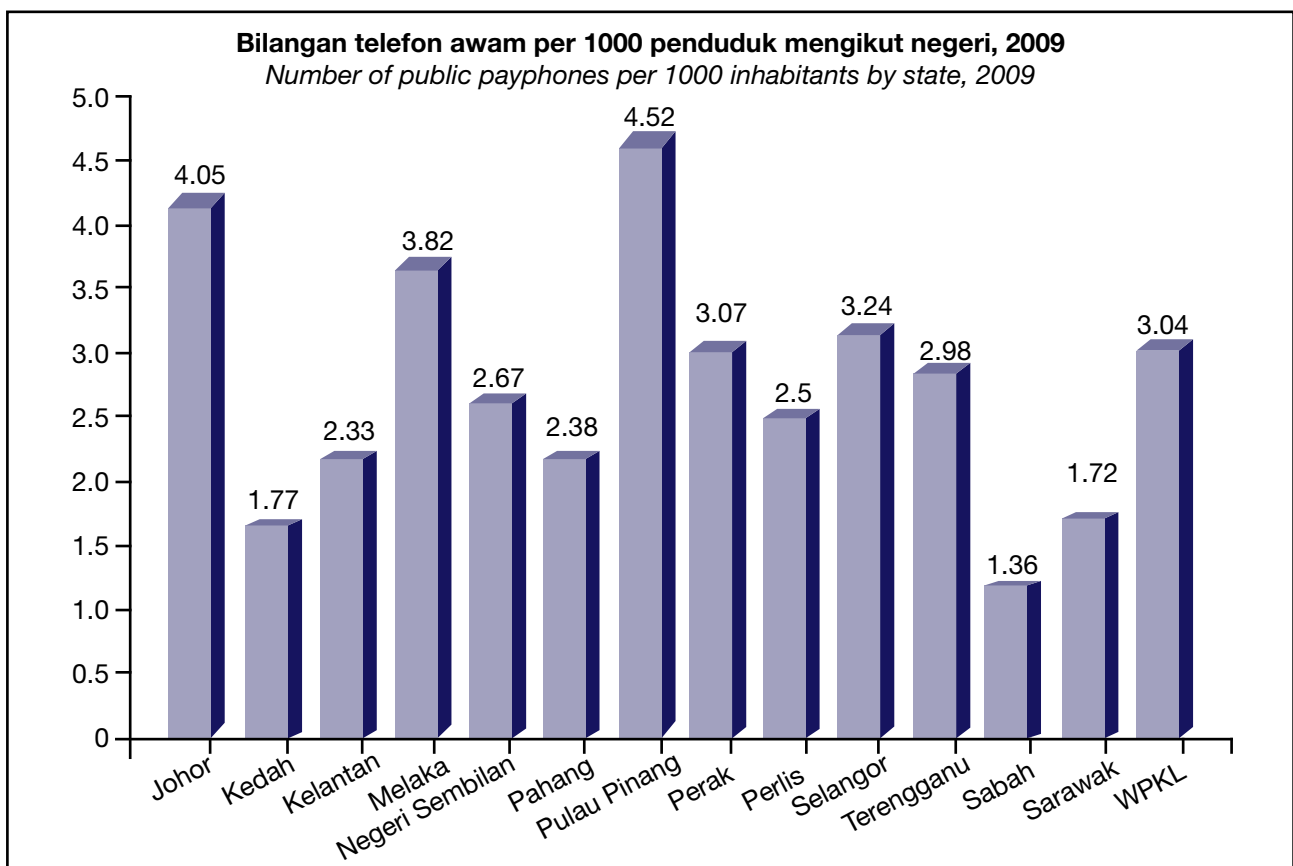
Termasuk semua telefon awam, beroperasi ataupun tidak.  
*No distinction is made between operational and non-operational payphones.*

**32. Bilangan telefon awam per 1000 penduduk mengikut negeri**  
*Number of public payphones per 1000 inhabitants by state*

Negeri	2007	2009
Johor	3.10	4.05
Kedah	2.05	1.77
Kelantan	2.07	2.33
Melaka	4.73	3.82
Negeri Sembilan	2.99	2.67
Pahang	2.68	2.38
Pulau Pinang	4.14	4.52
Perak	3.15	3.07
Perlis	3.97	2.50
Selangor*	2.88	3.24
Terengganu	2.92	2.98
Sabah**	1.59	1.36
Sarawak	2.14	1.72
W.P. Kuala Lumpur	3.92	3.04

State	2007	2009
-------	------	------



**Nota penjelasan:**  
*Explanatory notes:*

\* Termasuk W.P. Putrajaya  
*Including W.P. Putrajaya*

\*\* Termasuk W.P. Labuan  
*Including W.P. Labuan*

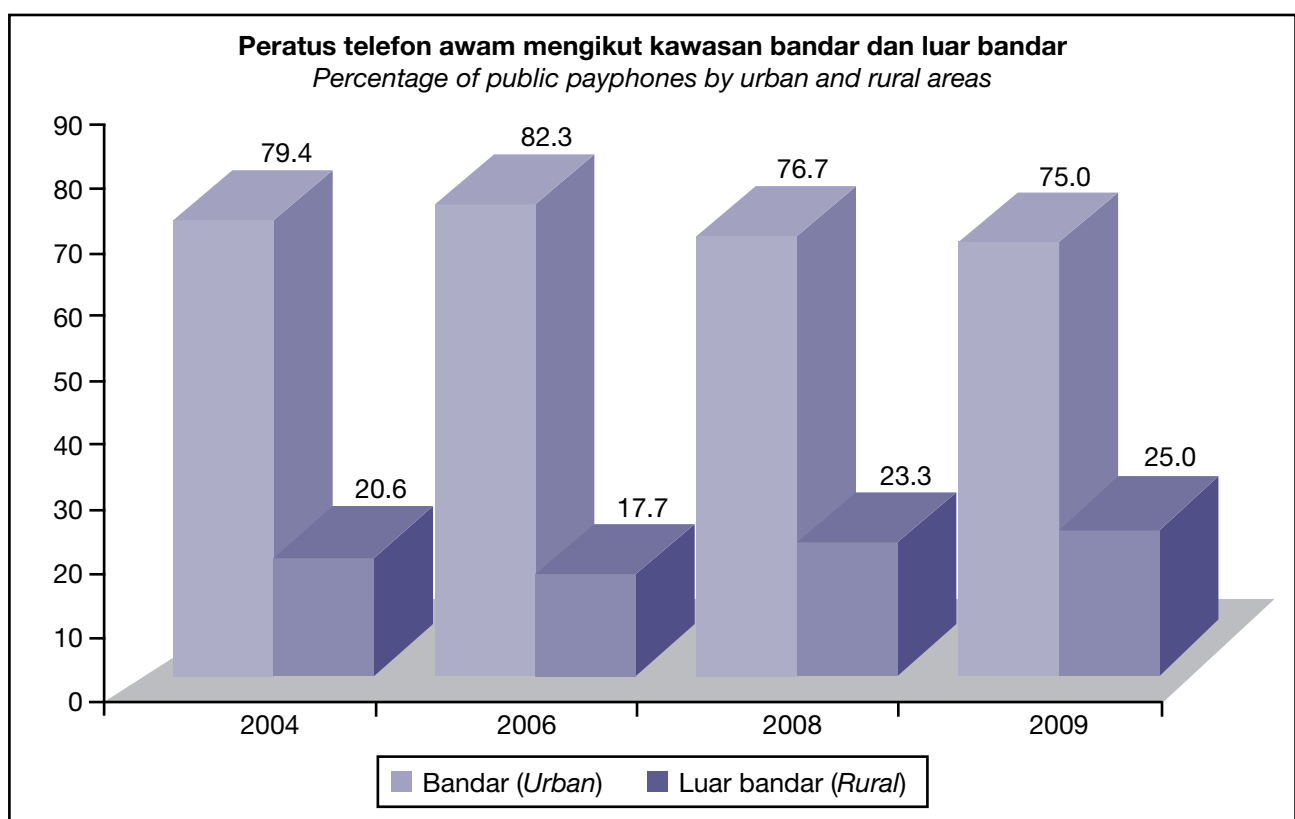
### 33. Peratus telefon awam mengikut kawasan bandar dan luar bandar

*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
2009	75.0	25.0

Year	Urban	Rural
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### 34. Indeks kepuasan pengguna Talian Ibusawat Terus

#### *DEL consumer satisfaction index*

	Pungutan VI	2004	2006	2007
<b>a. Individu (Individual)</b>				
Talian Ibusawat Terus (DEL)	7.53	3.20	3.46	3.66
Telefon awam (Payphone)		2.90	3.50	3.86
<b>b. Komersial (Commercial)</b>				
Talian Ibusawat Terus (DEL)	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 dikirakan dari 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 ke skala 1-5.

*The Consumer Satisfaction Survey (CSS) for DEL and Payphones gauge levels of satisfaction in 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 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>

### 35. Talian telefon utama per 100 penduduk, negara-negara ASEAN

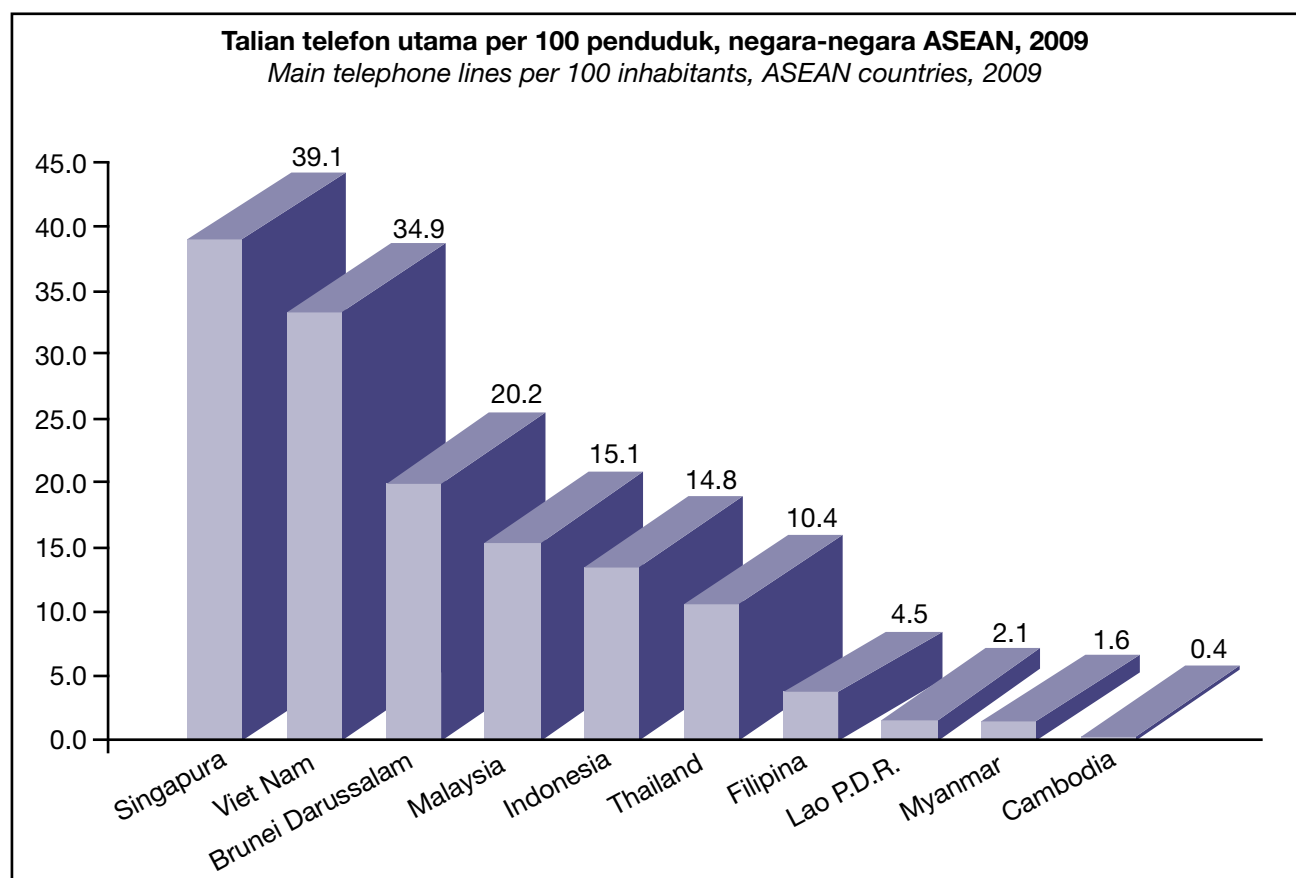
*Main telephone lines per 100 inhabitants, ASEAN countries*

Tahun	Singapura	Viet Nam	Brunei Darussalam	Malaysia	Indonesia
2005	42.7	18.7	25.6	16.5	5.7
2006	42.3	32.2	21.0	16.1	6.6
2007	41.9	32.7	21.0	15.8	7.7
2008	40.2	33.1	19.9	15.3	13.4
2009	39.1	34.9	20.2	15.1	14.8

Year	Singapore	Viet Nam	Brunei Darussalam	Malaysia	Indonesia
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Tahun	Thailand	Filipina	Lao P.D.R.	Myanmar	Cambodia
2005	11.3	4.2	1.3	0.8	0.3
2006	10.9	4.3	1.5	0.9	0.2
2007	11.0	4.3	1.6	1.0	0.3
2008	10.5	4.3	1.6	1.4	0.3
2009	10.4	4.5	2.1	1.6	0.4

Year	Thailand	Philippines	Lao P.D.R.	Myanmar	Cambodia
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**Punca:** SKMM, ITU  
**Source:** MCMC, ITU

### 36. Talian telefon utama per 100 penduduk berbanding 10 rakan perdagangan terbesar, Malaysia

*Main telephone lines per 100 inhabitants compared with 10 biggest trading partners, Malaysia*

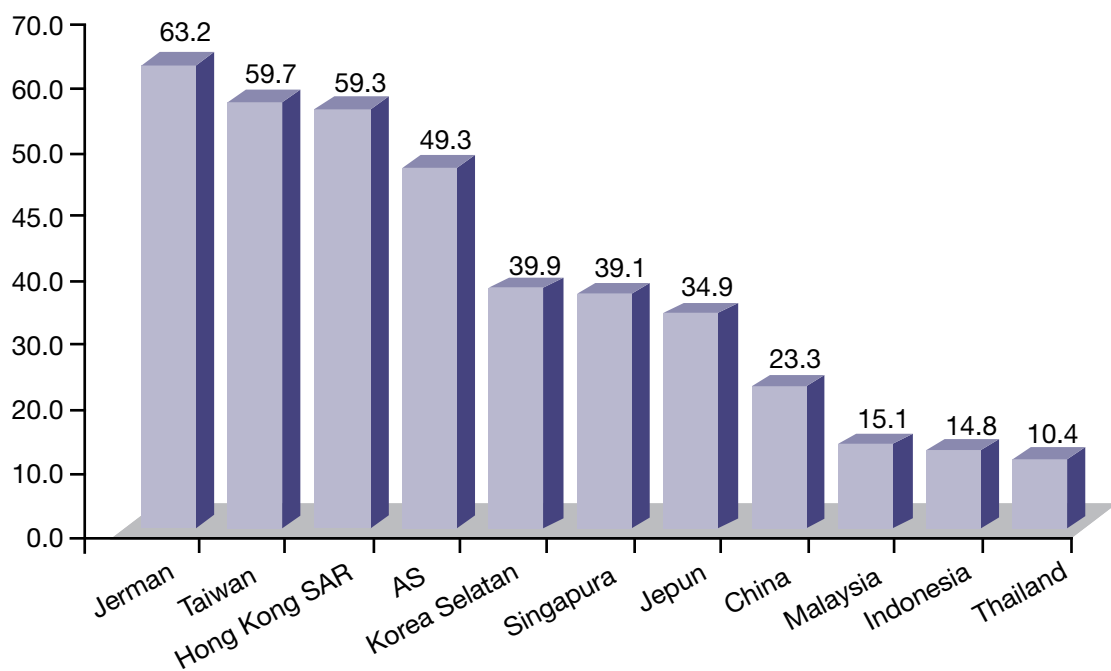
Tahun	Jerman	Taiwan	Hong Kong SAR	AS	Korea Selatan	Singapura
2005	66.3	59.6	53.9	60.6	49.2	42.7
2006	65.9	63.6	53.9	55.6	65.5	42.3
2007	65.1	62.5	53.8	53.4	65.5	41.9
2008	62.6	62.0	58.8	51.3	44.3	40.2
2009	63.2	59.7	59.3	49.3	39.9	39.1

Year	Germany	Taiwan	Hong Kong SAR	USA	South Korea	Singapore
------	---------	--------	---------------	-----	-------------	-----------

Tahun	Jepun	China	Malaysia	Indonesia	Thailand
2005	45.9	26.6	16.6	5.7	11.3
2006	43.0	27.8	16.1	6.6	10.9
2007	40.0	27.5	15.8	7.7	11.0
2008	40.2	27.5	15.3	13.4	10.5
2009	34.9	23.3	15.1	14.8	10.4

Year	Japan	China	Malaysia	Indonesia	Thailand
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**Talian telefon utama per 100 penduduk berbanding 10 rakan perdagangan terbesar, Malaysia, 2009**  
*Main telephone lines per 100 inhabitants compared with 10 biggest trading partners, Malaysia, 2009*



**Punca:** SKMM, ITU  
**Source:** MCMC, ITU

### 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	2007
Johor	83.5	89.2	87.1	86.8
Kedah	79.9	85.3	81.5	72.7
Kelantan	76.9	81.7	85.1	81.8
Melaka	85.1	92.8	90.8	88.5
Negeri Sembilan	85.8	90.9	90.3	87.0
Pahang	80.5	90.6	84.0	85.0
Pulau Pinang	83.8	89.3	86.2	77.1
Perak	83.8	90.4	88.2	88.8
Perlis	81.5	90.7	84.3	70.5
Selangor	82.1	90.6	88.2	83.7
Terengganu	74.0	79.8	73.2	71.5
Sabah	62.5	76.1	73.6	70.5
Sarawak	70.8	83.9	83.4	76.7
W. P. Kuala Lumpur	79.8	88.8	88.0	84.2
Malaysia	78.8	87.5	84.5	81.4
<i>State</i>	<i>2000</i>	<i>2002</i>	<i>2004</i>	<i>2007</i>

**Punca:** JPM

*Source:* DOS

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

*Percentage of households with access to television by state*

Negeri	2000	2002	2004	2007
Johor	88.8	96.1	95.4	98.7
Kedah	88.8	93.5	96.5	96.8
Kelantan	83.2	90.9	94.0	95.4
Melaka	90.3	95.9	97.8	98.4
Negeri Sembilan	91.1	95.1	96.6	98.0
Pahang	86.6	94.5	95.9	97.3
Pulau Pinang	90.3	95.8	97.1	98.1
Perak	90.1	96.4	98.1	98.3
Perlis	90.3	95.2	95.5	96.3
Selangor	87.1	95.0	97.8	98.9
Terengganu	86.4	92.0	92.6	95.5
Sabah	66.5	81.3	87.1	90.5
Sarawak	72.5	89.3	97.3	92.8
W. P. Kuala Lumpur	84.6	97.9	93.8	99.0
Malaysia	84.3	93.8	95.2	96.9
<i>State</i>	<i>2000</i>	<i>2002</i>	<i>2004</i>	<i>2007</i>

**Punca:** JPM

*Source:* DOS

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

*Percentage of households with access to VCR/VCD/DVD by state*

Negeri	2000	2002	2004	2007
Johor	56.0	74.8	78.9	84.0
Kedah	45.4	61.5	71.6	72.8
Kelantan	28.2	51.3	68.1	65.6
Melaka	59.4	74.7	78.7	81.6
Negeri Sembilan	60.3	76.0	81.7	83.1
Pahang	49.1	66.9	75.1	75.0
Pulau Pinang	69.5	80.6	83.5	85.7
Perak	57.3	73.8	76.9	78.1
Perlis	41.8	59.4	71.0	68.7
Selangor	66.8	78.4	85.8	87.8
Terengganu	36.3	56.7	62.4	64.2
Sabah	35.8	56.2	68.1	72.5
Sarawak	45.6	64.6	84.7	77.1
W. P. Kuala Lumpur	68.6	82.1	83.5	79.8
Malaysia	53.5	71.0	77.4	79.4
<i>State</i>	<i>2000</i>	<i>2002</i>	<i>2004</i>	<i>2007</i>

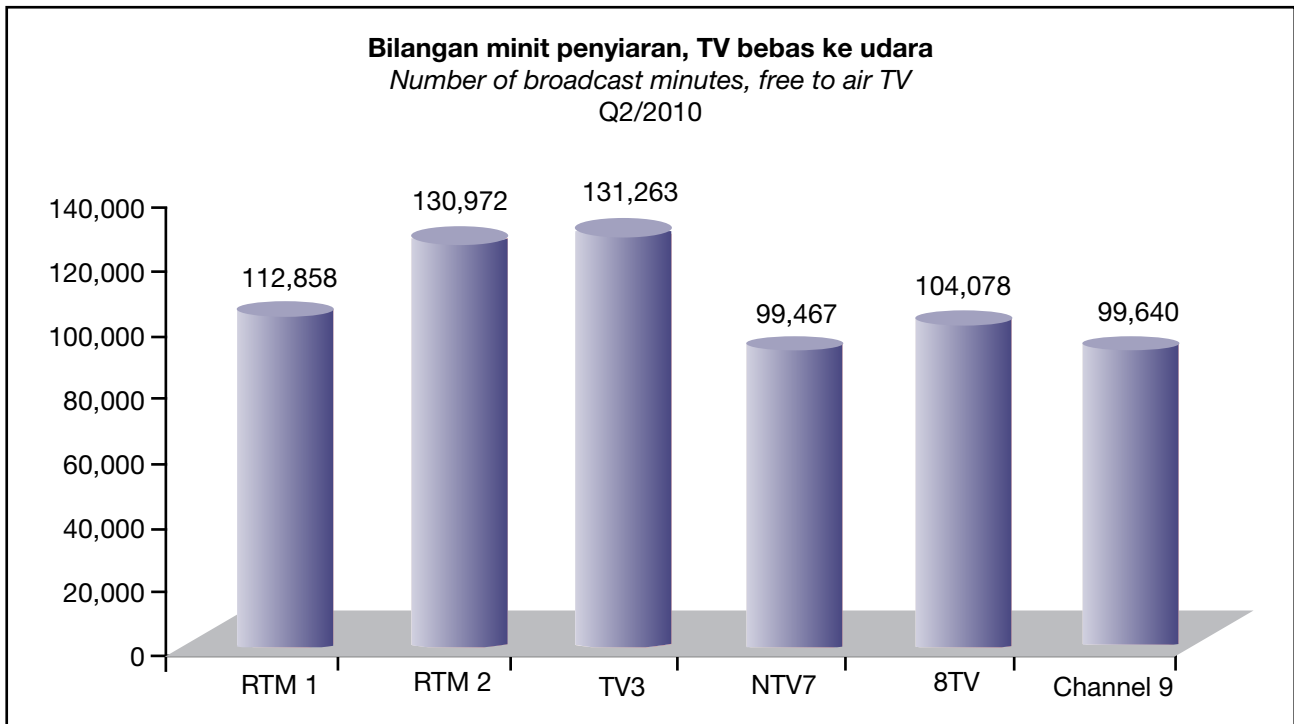
**Punca:** JPM

*Source:* DOS

**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	
2002		431,097	352,816	428,403	393,277	...	...	1,605,593
2003		458,621	357,640	436,108	363,607	...	...	1,615,976
2004		461,535	355,269	454,026	363,959	351,989	347,681	2,334,459
2005		467,467	396,937	470,868	368,289	400,620	33,364	2,137,545
2006		468,474	488,338	486,325	367,579	399,735	190,432	2,400,883
2007		463,289	521,605	498,855	396,687	447,117	381,035	2,708,588
2008		464,801	524,618	524,152	423,504	435,959	429,046	2,802,080
2009	1	132,925	127,438	129,122	104,498	105,844	101,666	701,493
	2	134,304	130,801	130,071	99,743	103,568	103,393	701,880
	3	119,881	132,145	113,448	100,742	104,667	105,810	676,693
	4	110,219	131,557	117,463	101,551	105,523	99,968	666,281
2010	1	106,091	128,890	129,866	99,439	103,082	99,162	666,530
	2	112,858	130,972	131,263	99,467	104,078	99,640	678,278

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



**Punca:** AGB Nielsen  
*Source: AGB Nielsen*

## 41. Bilangan langganan televisyen berbayar

*Number of pay TV subscriptions*

Tahun	Suku	Bilangan langganan ('000)			Kadar Penembusan per 100 isi rumah
		Isi Rumah	Bukan Isi Rumah	Jumlah	
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
	4	2,646	223	2,869	43.4
2009	1	2,728	225	2,953	44.6
	2	2,781	231	3,012	45.2
	3	2,875	237	3,112	46.5
	4	2,930	242	3,172	47.1

Year	Qtr	Number of subscriptions ('000)			Penetration Rate per 100 household
		Household	Non-household	Total	

## 42. Indeks kepuasan pengguna TV dan Radio

### *TV and Radio consumer satisfaction index*

	Pungutan VI	2004	2006	2007
TV biasa <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
Penyiaran <i>Broadcasting</i>	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 dikirakan daripada penemuan-penemuan kajian itu. Indeks Kepuasan Pengguna adalah di dalam julat nilai 1 (tiada kepuasan langsung) hingga 5 (kepuasan sepenuhnya).

*The Consumer Satisfaction Survey (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>
------------------	------------------



3244854654545454  
5235895123214275  
2323.20023232323  
3521334358577754  
31423345878991211  
4216695653142343  
2135254138974135  
8695241353224433  
7456523541355989  
44134721454212111  
3654413311335636  
4365413656454806  
2156365515154543  
6665413879745056  
5213042434795421  
8454612430424512  
7978523565210979  
4542436006424316  
4042154643420376  
4000203061645497  
1345297875426458  
1210012365423165  
1519108522436184  
3160975763424641  
6485445456545464  
1563244455556998  
2300232656695989  
4985697854213150  
8451208563264213

**TANDATANGAN DIGITAL**  
*Digital Signature*

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### 43. Bilangan Pihak Berkuasa Pemerakuan *Number of Certification Authorities*

Tahun	Suku	Bilangan lesen
2005		3
2006		3
2007		3
2008		2
2009		2
2010	1	2
	2	2

Year	Qtr	Number of licenses
------	-----	--------------------

**Nota penjelasan:**  
*Explanatory notes:*

Merujuk kepada Pihak Berkuasa Pemerakuan yang dilesenkan di bawah Akta Tandatangan Digital 1997.  
*Refers to Certification Authorities licenced under the Digital Signature Act 1997.*

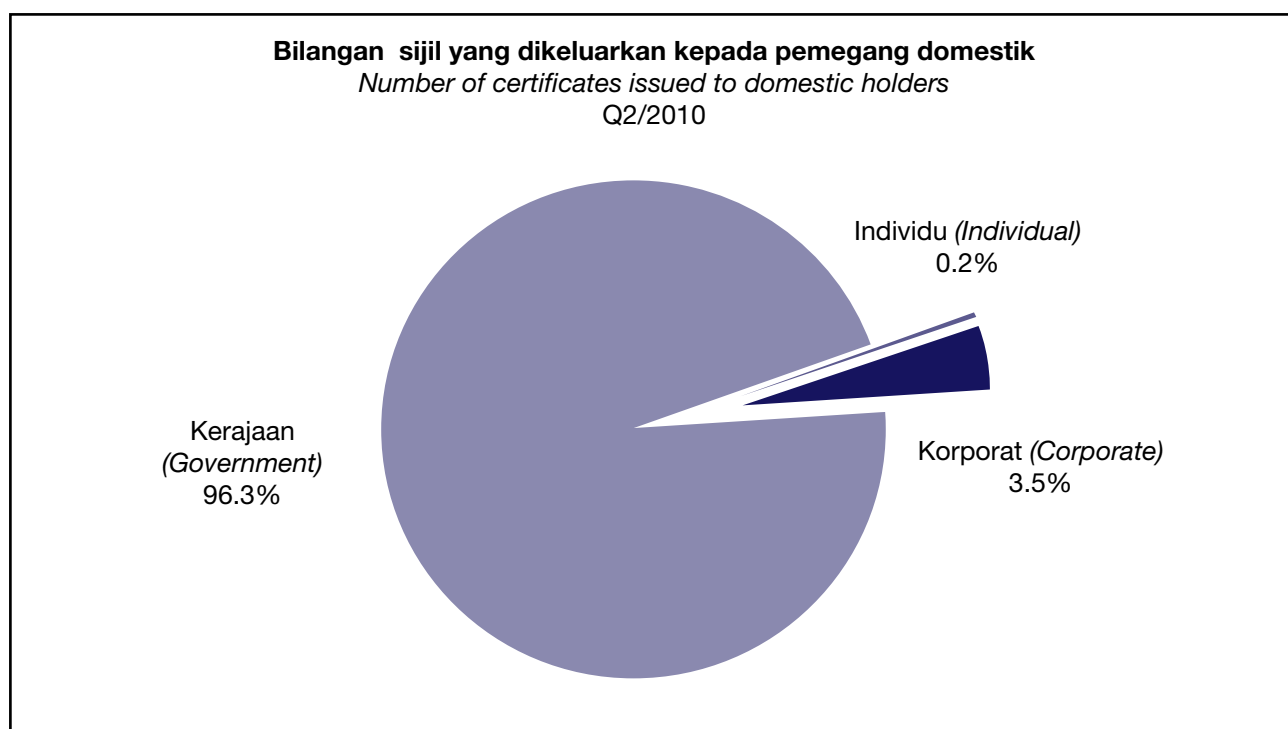
#### 44. Bilangan sijil yang dikeluarkan mengikut jenis

*Number of certificates issued by type*

Tahun	Suku	Pegguna Domestik			Pegguna Luar Negara	Jumlah
		Individu	Organisasi		Organisasi	
			Korporat	Kerajaan	Korporat	
2009	1	7,966	92,440	2,178,709	153	2,279,268
	2	7,975	96,797	2,277,945	229	2,382,946
	3	7,986	101,261	2,301,215	255	2,410,972
	4	8,009	107,794	2,361,429	325	2,477,557
2010	1	8,013	132,614	2,618,296	352	2,759,275
	2	8,114	118,735	3,319,520	352	3,446,721

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



3244854654545454  
5235895123214275  
2323.20023232323  
3521334358577754  
31423345878991211  
4216695653142343  
2135254138974135  
8695241353224433  
7456523541355989  
44134721454212111  
3654413311335636  
64365413656454806  
32156365515154543  
6665413879745056  
5213042434795421  
8454612430424512  
7978523565210979  
4542436006424316  
4042154643420376  
4000203061645497  
1345297875426458  
1210012365423165  
1519108522436184  
3160975763424641  
6485445456545464  
1563244455556998  
2300232656695989  
4985697854213150  
8451208563264213

# KEDUDUKAN MALAYSIA DALAM INDEKS BERKAITAN ICT

*Malaysia Ranking For ICT  
Related Indices*

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## 45. Kedudukan Malaysia dalam indeks berkaitan ICT

### *Malaysia ranking for ICT related indices*

Tahun/ Year	e-Readiness Rankings	Networked Readiness Index (NRI)	ITU Digital Access Index (DAI)	Digital Opportunity Index (DOI)	e-Business Readiness Index
2002			46		
2003					
2004	33	27			33
2005	35	24		59	35
2006	37	26		57	37
2007	36	26			36
2008	34				34
2009	38	27			

Tahun/ Year	e-Government Readiness Index	World Competitiveness Scoreboard	ICT Development Index
2002			
2003	43		
2004	42		
2005	43		
2006			
2007		23	52
2008	34	19	56
2009		18	
2010		10	

## **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 government 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.

*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 40 ekonomi, oleh International Telecommunication Union. Ia diterbitkan hanya bagi dua tahun iaitu 1998 dan 2002.

*Measures the overall ability of individuals in a country to access and use new ICTs. The index has been compiled for 40 economies by International Telecommunication Union. It was published only for 1998 and 2002.*

### **Digital Opportunity Index (DOI)**

DOI adalah satu kaedah yang boleh digunakan oleh kerajaan, pengusaha, 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 untuk 2005 dan 2006.

*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 for 2005 and 2006.*

### **e-Business Readiness**

e-Business Readiness adalah satu ukuran bagi persekitaran e-perniagaan, satu koleksi faktor yang menunjukkan betapa responsif sesuatu pasaran terhadap peluang-peluang berasaskan Internet.

*e-Business Readiness is a measure of e-business environment, a collection of factors that indicate how amenable a market is to Internet-based opportunities.*

### **e-Government Readiness Index**

e-Kerajaan kini digunakan bukan sahaja untuk menyediakan perkhidmatan kepada penduduk tetapi juga untuk tujuan meningkatkan kecekapan sektor awam, memperbaiki ketelusan dan kebertanggungjawaban kerajaan dalam melaksanakan fungsi-fungsinya selain menjimatkan kos dalam pentadbiran kerajaan

*e-Government is being deployed not only to provide citizen services but for public sector efficiency purposes, improving transparency and accountability in government functions and allowing for cost savings in government administration*

### **World Competitiveness**

Laporan Daya Saing Dunia diterbitkan untuk menunjukkan daya saing negara, kedudukan dan menganalisa bagaimana negara menguruskan sumber dan kecekapan mereka. Diterbitkan semenjak 1989, ia membandingkan daya saing untuk 58 ekonomi berdasarkan 300 kriteria.

*World Competitiveness Yearbook publishes competitiveness of nations, ranking and analysing how a nation manages its resources and competencies. Published since 1989 it compares the competitiveness of 58 economics on the basis of over 300 criteria.*

### **ICT Development Index (IDI)**

Indeks ini mengukur tahap kemajuan ICT. Ia juga mengukur jurang digital global dan mengkaji bagaimana jurang ini berkembang pada tahun-tahun kebelakangan ini.

*The Index captures the level of advancement of ICTs. It also measures the global digital divide and examines how it has developed in recent years*

3244854654545454  
5235895123214275  
2323.20023232323  
3521334358577754  
31423345878991211  
4216695653142343  
2135254138974135  
8695241353224433  
7456523541355989  
44134721454212111  
3654413311335636  
64365413656454806  
32156365515154543  
6665413879745056  
5213042434795421  
8454612430424512  
7978523565210979  
4542436006424316  
4042154643420376  
4000203061645497  
1345297875426458  
1210012365423165  
1519108522436184  
3160975763424641  
6485445456545464  
1563244455556998  
2300232656695989  
4985697854213150  
8451208563264213

**LAMPIRAN**  
*Appendix*

**Q2**  
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## PEMEGANG LESEN 30 Jun 2010

### LICENSEES AS AT 30 June 2010

	Bilangan lesen	
	Individu	Kelas
Penyedia Kemudahan Rangkaian <i>Network Facilities Provider (NFP)</i>	100	25
Penyedia Perkhidmatan Rangkaian <i>Network Service Provider (NSP)</i>	106	26
Penyedia Perkhidmatan Aplikasi <i>Applications Service Provider (ASP)</i>		436
Penyedia Perkhidmatan Aplikasi Kandungan <i>Content Applications Service Provider (CASP)</i>	36	30
	<i>Individual</i>	<i>Class</i>
	<i>No. of licences</i>	

#### Pelesen Pemberi Kemudahan Rangkaian, individu

##### *Network Facilities Provider (NFP) Individual Licensee*

1. Airzed Broadband Sdn. Bhd.
2. ARL HomeComm Sdn. Bhd.
3. Asia Media Sdn. Bhd.
4. Asiaspace Digital Network Sdn Bhd
5. Asiaspace Sdn Bhd
6. Asiaspace Wimax Sdn. Bhd.
7. AtlasONE Sdn. Bhd.
8. Baycom Sdn. Bhd.
9. Best Multimedia Sdn Bhd
10. Broadband Satellite Solutions Sdn Bhd
11. Celcom Axiata Berhad
12. Celcom Mobile Sdn. Bhd
13. Celcom Timur (Sabah) Sdn. Bhd.
14. Celcom Transmission (M) Sdn Bhd
15. Clear-Comm Sdn. Bhd.
16. Common Tower Technologies Sdn. Bhd.
17. Danawa Resources Sdn. Bhd.
18. Desabina Industries Sdn. Bhd.
19. D'Harmoni Telco Infra Sdn. Bhd.
20. DiGi Telecommunications Sdn Bhd
21. DTRS Consortium Sdn. Bhd.
22. eB Technologies (M) Sdn. Bhd.
23. Electcoms Wireless Sdn. Bhd.
24. Extiva Communications Sdn Bhd
25. Extreme Broadband Sdn Bhd
26. Fiber At Home City Networks Sdn Bhd
27. Fiberail Sdn Bhd
28. Fibrecomm Network (M) Sdn. Bhd.
29. Global Transit Communications Sdn. Bhd.
30. GTC Global Sdn Bhd
31. Hidaka Construction (M) Sdn Bhd
32. Infra Quest Sdn. Bhd.
33. IP Mobility Sdn. Bhd.
34. I-R&D Sdn Bhd
35. iZZinet Sdn. Bhd.
36. Jalur Lebar Nasional Sdn Bhd
37. Jaring Communications Sdn. Bhd.
38. Konsortium Jaringan Selangor Sdn. Bhd.
39. Macro Lynx Sdn. Bhd.
40. Malaysia Airports (Sepang) Sdn. Bhd.
41. Maxis Broadband Sdn Bhd
42. Maxis Broadband Sdn Bhd
43. Maxis International Sdn Bhd
44. Maxis International Sdn Bhd
45. Maxis Mobile Sdn Bhd
46. Maxis Mobile Sdn Bhd
47. Maxis Mobile Sdn. Bhd.
48. Maxis Mobile Services Sdn Bhd
49. Maxis Mobile Services Sdn Bhd
50. Measat Broadcast Network Systems Sdn Bhd
51. MEASAT Satellite Systems Sdn Bhd.
52. Media Digital Distribution Sdn Bhd

53. Melaka ICT Holdings Sdn. Bhd.
54. Mobikom Sdn Bhd
55. MyKRIS Asia Sdn. Bhd.
56. NasionCom Sdn. Bhd.
57. Numix Engineering Sdn Bhd
58. OBNET SDN. BHD.
59. Optical Communication Engineering Sdn. Bhd.
60. Packet One Networks (Malaysia) Sdn. Bhd.
61. Paycomm Network Sdn Bhd
62. PDC Telecommunication Services Sdn. Bhd.
63. Perak Integrated Network Services Sdn Bhd.
64. Perlis Comm Sdn Bhd
65. Pernec Paypoint Sdn. Bhd.
66. Rangkaian Minang (NS) Sdn. Bhd.
67. Realm Energy Sdn Bhd
68. REDtone Marketing Sdn. Bhd.
69. Redtone-CNX Broadband Sdn. Bhd.
70. Sacofa Sdn. Bhd.
71. Sapura Research Sdn. Bhd.
72. Sarawak Information Systems Sdn. Bhd.
73. Scopetel Sdn. Bhd.
74. Sector Solutions Sdn Bhd
75. SEDCO Communications Sdn Bhd
76. Segi Maju Consortium Sdn. Bhd.
77. Setia Haruman Sdn. Bhd.
78. Sistem Komunikasi Gelombang Sdn Bhd
79. Smart Digital Communications Bhd.
80. Star Crest Media Sdn Bhd
81. Stealth Solutions Sdn. Bhd.
82. Technology Park Malaysia Corporation Sdn. Bhd.
83. Telekom Malaysia Bhd
84. Teliti Computers Sdn Bhd
85. Tg Agas Technology Sdn Bhd
86. TIME Sat Sdn. Bhd.
87. Touch Matrix Sdn. Bhd.
88. Touch Mindscape Sdn. Bhd.
89. Tower Fleet Sdn Bhd
90. TT dotCom Sdn. Bhd
91. U Mobile Sdn. Bhd.
92. U Television Sdn. Bhd.
93. V Telecoms Bhd
94. VDSL Network Sdn. Bhd.
95. Wellcom Communications (M) Sdn. Bhd.
96. Wi-Net Telecoms Sdn. Bhd.
97. Xair Communication Sdn Bhd
98. Yiked Bina Sdn Bhd

99. Y-Max Networks Sdn. Bhd.
100. YTL Communications Sdn Bhd

**Pelesen Pemberi Kemudahan Rangkaian, Kelas  
Network Facilities Provider (NFP) Class Licensee**

1. Achi Jaya Communications Sdn Bhd
2. Air Asia Berhad
3. Broadway Digital Media Sdn Bhd
4. Comintel Sdn Bhd
5. Communications & Satellite Sdn Bhd
6. Electcoms Berhad
7. Extreme Broadband Sdn Bhd
8. Hasyon Teknik Sdn Bhd
9. Infolient Sdn Bhd
10. Malaysia Airline System Berhad
11. Netstar Advanced Systems Sdn Bhd
12. Orbcomm Satellite Malaysia Sdn Bhd
13. PersiaSYS Sdn Bhd
14. Protec A&A CMS Sdn Bhd
15. Schlumberger Wellog (M) Sdn Bhd
16. Segi Maju Sdn Bhd
17. Serting Com Sdn Bhd
18. Societe Internationale Telecommunication Aeronautiques (SITA)
19. Stars Associated Sdn Bhd
20. STR Communications Sdn Bhd
21. Syarikat Mengurus Air Banjir & Terowong Sdn Bhd (SMART)
22. System Alliance Technology Sdn Bhd
23. Universiti Telekom Sdn Bhd
24. Widenet Distributor Sdn Bhd
25. Xtend Services Sdn Bhd

**Pelesen Pemberi 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 Media Sdn. Bhd.
5. Asia Telecommunications (M) Sdn. Bhd.
6. Asiaspace Digital Network Sdn Bhd
7. Asiaspace Sdn Bhd
8. Asiaspace Wimax Sdn. Bhd.
9. AtlasONE Sdn. Bhd.
10. Baraka Telecom Sdn Bhd

11. Baycom Sdn. Bhd.
12. Best Multimedia Sdn Bhd
13. Broadband Satellite Solutions Sdn Bhd
14. CallPlus Telecommunications Sdn Bhd
15. Celcom Axiata Berhad
16. Celcom Mobile Sdn. Bhd.
17. Celcom Timur (Sabah) Sdn. Bhd.
18. Celcom Transmission (M) Sdn Bhd
19. Centennial Gateway Sdn. Bhd.
20. Clear-Comm Sdn. Bhd.
21. Cordoda Corporation Sdn. Bhd.
22. Danawa Resources Sdn. Bhd.
23. DiGi Telecommunications Sdn Bhd
24. DTRS Consortium Sdn. Bhd.
25. eB Technologies (M) Sdn. Bhd.
26. Electcoms Wireless Sdn. Bhd.
27. Equant Services Malaysia Sdn. Bhd.
28. Extiva Communications Sdn Bhd
29. Extreme Broadband Sdn Bhd
30. Fiber At Home City Networks Sdn Bhd
31. Fiberail Sdn Bhd
32. Fibrecomm Network (M) Sdn. Bhd.
33. Free Net Business Solutions Sdn Bhd
34. Frior.com Sdn. Bhd.
35. GITN Sdn. Bhd.
36. Global Transit Communications Sdn. Bhd.
37. GTC Global Sdn Bhd
38. HeiTech Padu Berhad
39. Hidaka Construction (M) Sdn Bhd
40. IP Mobility Sdn. Bhd.
41. I-R&D Sdn Bhd
42. ITG Communications Sdn. Bhd.
43. iZZinet Sdn. Bhd.
44. Jalur Lebar Nasional Sdn Bhd
45. Jaring Communications Sdn. Bhd.
46. KKIPC Sdn. Bhd.
47. Macro Lynx Sdn. Bhd.
48. Magxo Sdn. Bhd.
49. Malaysia Airports (Sepang) Sdn. Bhd.
50. Maxis Broadband Sdn Bhd
51. Maxis Broadband Sdn Bhd
52. Maxis International Sdn Bhd
53. Maxis International Sdn Bhd
54. Maxis Mobile Sdn Bhd
55. Maxis Mobile Sdn Bhd
56. Maxis Mobile Sdn. Bhd.
57. Maxis Mobile Services Sdn Bhd
58. Maxis Mobile Services Sdn Bhd
59. Measat Broadcast Network Systems Sdn Bhd
60. MEASAT Satellite Systems Sdn Bhd.
61. Media Digital Distribution Sdn Bhd
62. Mobikom Sdn Bhd
63. MyKRIS Asia Sdn. Bhd.
64. NasionCom Sdn. Bhd.
65. Next Wave Communications Sdn Bhd
66. NTT MSC Sdn. Bhd.
67. Numix Engineering Sdn Bhd
68. OBNET SDN. BHD.
69. Optical Communication Engineering Sdn. Bhd.
70. Packet One Networks (Malaysia) Sdn. Bhd.
71. Pacnet Global (Malaysia) Sdn. Bhd.
72. Pernec Paypoint Sdn Bhd.
73. Reach Bandwidth Services Malaysia Sdn. Bhd.
74. Realm Energy Sdn Bhd
75. Redtone Marketing Sdn. Bhd.
76. Redtone-CNX Broadband Sdn. Bhd.
77. Sacofa Sdn. Bhd.
78. Sapura Research Sdn. Bhd.
79. Sarawak Information Systems Sdn. Bhd.
80. Scopetel Sdn. Bhd.
81. Sector Solutions Sdn Bhd
82. SEDCO Communications Sdn Bhd
83. Segi Maju Consortium Sdn. Bhd.
84. Sistem Komunikasi Gelombang Sdn Bhd
85. Smart Digital Communications Bhd.
86. Star Crest Media Sdn Bhd
87. Technology Park Malaysia Corporation Sdn. Bhd.
88. Telekom Malaysia Bhd
89. Teliti Computers Sdn Bhd
90. Telshine Sdn. Bhd.
91. Tg Agas Technology Sdn Bhd
92. TIME Sat Sdn. Bhd.
93. TM Net Sdn. Bhd.
94. Touch Mindscape Sdn. Bhd.
95. TT dotCom Sdn. Bhd
96. Tune Talk Sdn. Bhd.
97. U Mobile Sdn. Bhd.
98. U Television Sdn. Bhd.
99. V Telecoms Bhd
100. VADS Sdn. Bhd.
101. VDSL Network Sdn. Bhd.

102. 1Wellcom Communications (M) Sdn. Bhd.
103. Wi-Net Telecoms Sdn. Bhd.
104. XOX Com Sdn. Bhd.
105. Y-Max Networks Sdn. Bhd.
106. YTL Communications Sdn Bhd

**Pelesen Pemberi Perkhidmatan Rangkaian, Kelas  
Network Service Provider (NSP) Class Licensee**

1. Achi Jaya Communications Sdn Bhd
2. Air Asia Berhad
3. Boeing Aerospace (Malaysia) Sdn Bhd
4. Broadway Digital Media Sdn Bhd
5. Comintel Sdn Bhd
6. Communications & Satellite Sdn Bhd
7. Electcoms Berhad
8. Extreme Broadband Sdn Bhd
9. Hasyon Teknik Sdn Bhd
10. Infolient Sdn Bhd
11. LNV Solutions Sdn Bhd
12. Netstar Advanced Systems Sdn Bhd
13. Orbcomm Satellite Malaysia Sdn Bhd
14. PersiaSYS Sdn Bhd
15. Protecs A&A CMS Sdn Bhd
16. Schlumberger Wellog (M) Sdn Bhd
17. Segi Maju Sdn Bhd
18. Seriting Com Sdn Bhd
19. Societe Internationale Telecommunication Aeronautiques (SITA)
20. Stars Associated Sdn Bhd
21. STR Communications Sdn Bhd
22. Syarikat Mengurus Air Banjir & Terowong Sdn Bhd (SMART)
23. System Alliance Technology Sdn Bhd
24. Universiti Telekom Sdn Bhd
25. Widenet Distributor Sdn Bhd
26. Xtend Services Sdn Bhd

**Pelesen Pemberi Perkhidmatan Aplikasi, Kelas  
Applications Service Provider (ASP) Class Licensee**

1. 3B Vision International Sdn. Bhd.
2. A & T Mobile Sdn Bhd
3. Ace Serve Anaconda Sdn. Bhd.
4. Ace Touchtone Sdn. Bhd.
5. Achi Jaya Communications Sdn. Bhd.

6. ACN System Solutions Sdn Bhd
7. Advance Able Network Sdn. Bhd.
8. Ahead Mobile Sdn. Bhd.
9. AIMS Data Centre 2 Sdn. Bhd.
10. AIMS Data Centre Sdn. Bhd.
11. Airasia Berhad
12. Airocom Technology Sdn. Bhd.
13. Airtime Management & Programming Sdn. Bhd.
14. Airzed Services Sdn Bhd.
15. Aktif Setegap Sdn Bhd
16. Aliya Technologies Sdn. Bhd.
17. Alpha Star Multimedia Sdn Bhd
18. Alt Media Sdn. Bhd.
19. Antechnic Systems Sdn. Bhd.
20. ARL Homecomm Sdn Bhd
21. Array Technology Sdn. Bhd.
22. Asia Media Sdn. Bhd.
23. Asian Contact Centres Sdn Bhd
24. Aspati Sdn. Bhd.
25. Astronautic Technology (M) Sdn Bhd
26. AT & T Worldwide Network Services (Malaysia) Sdn Bhd.
27. AU Networks Sdn. Bhd.
28. Avenue Telecommunications Sdn. Bhd.
29. Avo Technology Sdn. Bhd.
30. Axis Technologies Solutions (M) Sdn. Bhd.
31. Azea Communications Sdn. Bhd.
32. B&B Urban Ventures Sdn Bhd
33. B.D. Call Sdn. Bhd.
34. Baraka Telecom Sdn Bhd
35. Basic Depth Sdn. Bhd.
36. Bell Network Sdn Bhd
37. Best Debut Sdn. Bhd.
38. Bestlelong.com Sdn. Bhd.
39. Beta Technology Sdn. Bhd.
40. Boeing Aerospace (Malaysia) Sdn. Bhd.
41. Borneo Zenit Sdn Bhd
42. Brilliant Communications Sdn. Bhd.
43. Broadband Service Integrators Sdn Bhd
44. BT Systems (Malaysia) Sdn. Bhd.
45. Callplus Telecommunications Sdn. Bhd.
46. Capable Titan Sdn. Bhd.
47. CCI Central Sdn Bhd
48. Celcom Axiata Berhad
49. Celcom Mobile Sdn. Bhd.
50. Celcom Technology (M) Sdn. Bhd.

51. Celcom Timur (Sabah) Sdn Bhd
52. Cellab (M) SdnBhd
53. Centennial Gateway Sdn. Bhd.
54. Centurise Tech Sdn. Bhd.
55. Century Convergence Sdn Bhd
56. Chatgate Communications Sdn. Bhd.
57. Chuntake Technology Sdn Bhd
58. Clear-Comm Sdn. Bhd.
59. Click Online Sdn Bhd
60. Clicque Technology Sdn. Bhd.
61. Comintel Sdn. Bhd.
62. Community Shapers Sdn. Bhd
63. Commzgate Sdn. Bhd
64. Compurex Corporation (M) Sdn B
65. Compute Galaxy Sdn Bhd
66. Confident Communications Sdn. Bhd.
67. Consensus Network Sdn. Bhd.
68. Cool Mobile Sdn. Bhd.
69. Corporate Telecoms Sdn Bhd
70. Crazy2U Dotcom Sdn. Bhd.
71. CSC Malaysia Sdn Bhd
72. CTOS Data Systems Sdn Bhd
73. DACS Network Solutions Sdn Bhd
74. Dalrus Technology Sdn Bhd
75. Danawa Resources Sdn. Bhd.
76. Dapat Vista (M) Sdn Bhd
77. Datacraft Advanced Network Servcies Sdn Bhd
78. Deshi Digital Sdn. Bhd.
79. Dewarisan Holdings Sdn Bhd
80. Didadee Sdn. Bhd.
81. Digital Five Sdn Bhd
82. Directhere Sdn. Bhd.
83. Dream Chorus Sdn. Bhd.
84. Dubaitech Marketing Sdn. Bhd.
85. DVM Intellisource Sdn. Bhd.
86. D-Xpert Solutions Sdn Bhd
87. eB Technologies (M) Sdn Bhd
88. Edgecomms Sdn. Bhd.
89. EDP Network Sdn Bhd
90. E-Jaaring .com (M) Sdn Bhd
91. Ektech Consulting Sdn Bhd
92. Elanet Sdn. Bhd.
93. Electcoms Sdn. Bhd.
94. Equant Services Malaysia Sdn. Bhd.
95. Ericsson (Malaysia) Sdn. Bhd.
96. E-Room Sdn. Bhd.
97. ERP Twenty One Sdn. Bhd.
98. Esky Multimedia Sdn Bhd
99. EsseCall Sdn. Bhd.
100. ETA Network Systems Sdn. Bhd.
101. Euro Telecom (M) Sdn Bhd
102. Eutama Sdn. Bhd.
103. Everest Mobile Sdn. Bhd.
104. Everest Web Sdn. Bhd.
105. Everworks Solutions (M) Sdn. Bhd.
106. Excel Commerce Solutions Sdn. Bhd
107. Exticom Sdn. Bhd.
108. Extiva Communications Sdn. Bhd.
109. Extreme Broadband Sdn. Bhd.
110. EZNET Sdn. Bhd.
111. Ezymobile International Sdn. Bhd.
112. F1 Communications Sdn Bhd
113. Fibrecomm Network (M) Sdn. Bhd.
114. First Click Sdn. Bhd.
115. Fixed Mobile Sdn Bhd
116. FM Mobility Sdn Bhd
117. Focus Spirit Sdn. Bhd.
118. Focus Telecom Sdn Bhd
119. Forest Interactive Sdn. Bhd.
120. Forte Tech Solutions Sdn. Bhd.
121. Foundermall Dot Com Sdn. Bhd.
122. Foundermall Solutions Sdn Bhd
123. Free Net Business Solutions Sdn Bhd
124. Frenclub Mobile Sdn. Bhd.
125. Frizzhub VOB Sdn. Bhd.
126. FSBM Net Media Sdn Bhd
127. Ftone Sdn. Bhd.
128. Function Ramslink Sdn. Bhd.
129. Gajah Technology (M) Sdn Bhd
130. Gang Mobile Sdn. Bhd.
131. Gateway Option Sdn. Bhd.
132. GC Good Will Food Industries Sdn Bhd
133. Genesis Voiz Systems Sdn. Bhd.
134. Genting Malaysia Berhad
135. Genusis Consultancy Sdn. Bhd.
136. Gen-X Technology Sdn. Bhd.
137. Gerakan Padu Sdn. Bhd.
138. Gigafone (M) Sdn Bhd
139. GITN Sdn. Bhd.
140. Global Forway Sdn. Bhd.
141. Global Maxlink Sdn Bhd
142. Global Surf Sdn. Bhd.
143. Global Tone Sdn Bhd

144.	Global Transit Communications Sdn. Bhd.	190.	Iwire Technology Sdn Bhd
145.	Globe Telecommunication Sdn Bhd	191.	IX Telecom Sdn Bhd
146.	Golden Digit Resources Sdn. Bhd.	192.	J & C Pacific Sdn. Bhd.
147.	Golden Saga Communications Sdn Bhd	193.	Jalur Lebar Nasional Sdn Bhd
148.	Green Web Sdn. Bhd.	194.	Jaring Communications Sdn. Bhd.
149.	GTC Global Sdn. Bhd.	195.	JNI System Sdn. Bhd.
150.	HAHD Communications Sdn Bhd	196.	Jobmobile Service Centre (M) Sdn. Bhd
151.	Hasyon Teknik Sdn. Bhd.	197.	KB Reload Sdn Bhd
152.	HeiTech Padu Berhad	198.	KDDI Malaysia Sdn. Bhd.
153.	Hidaka Construction (M) Sdn Bhd	199.	KIGB Dot Com
154.	Hing Lee Technology	200.	KKIPC Sdn. Bhd.
155.	Hitz Mobile Sdn. Bhd.	201.	Kosmosvox Communications Sdn Bhd
156.	I Cosmos Sdn Bhd	202.	Kotaemas Edaran Sdn. Bhd.
157.	IBM Malaysia Sdn. Bhd.	203.	Kurnia Insurans (Malaysia) Berhad
158.	IdotTV Sdn. Bhd.	204.	Lavish Team Sdn. Bhd.
159.	Ireka Solutions	205.	Level 1 Communications (M) Sdn. Bhd.
160.	iGlow.com.my Sdn. Bhd.	206.	LNV Solutions (M) Sdn. Bhd.
161.	IGMobile Holdings Sdn. Bhd.	207.	Logitel Sdn Bhd
162.	Ikogo Sdn. Bhd.	208.	Long Tail Sdn. Bhd.
163.	IMA Network (M) Sdn. Bhd.	209.	Lotus West Sdn Bhd
164.	iNavigate Sdn. Bhd.	210.	M3 Technologies (Asia) Berhad
165.	Infofame Sdn. Bhd	211.	Macro Kiosk Berhad
166.	Infolient Sdn. Bhd.	212.	Macro Lynx Sdn. Bhd.
167.	Information Network Services Sdn Bhd	213.	Macro Mobile Services Sdn Bhd
168.	Inobel Sdn. Bhd.	214.	Macrobuzz Interactive Sdn. Bhd.
169.	Inter Continental Enterprise	215.	Magic Telecom Sdn Bhd
170.	Inter Voip Telecom Sdn Bhd	216.	Maju Nusa Sdn Bhd
171.	Inter-Touch (Malaysia) Sdn. Bhd.	217.	Malaysian Allied Mobile Sdn. Bhd.
172.	Inventive Computing Sdn. Bhd.	218.	Maribumi Sdn. Bhd.
173.	I-Office2 Sdn. Bhd.	219.	Matrix Internet & Wireless Sdn. Bhd.
174.	Ionnex Sdn. Bhd.	220.	Matrix Tech Management Sdn. Bhd.
175.	IP Innovation Sdn. Bhd.	221.	Maxis Broadband Sdn. Bhd.
176.	IPC Information Systems (Malaysia) Sdn Bhd	222.	Maxis Mobile Sdn. Bhd.
177.	IPSAT Sdn. Bhd.	223.	Maxis Mobile Services Sdn Bhd
178.	IPTTEL Sdn. Bhd.	234.	MBf Holdings Sdn. Bhd.
179.	iRepublics.com Sdn Bhd	225.	Mblox Sdn Bhd
180.	Iridea (M) Sdn. Bhd.	226.	Mboard Media Sdn. Bhd.
181.	Irmatel Communications Sdn Bhd	227.	MCOM Media Technology Sdn. Bhd.
182.	Isentric Media Sdn. Bhd.	228.	MCOM Messaging Sdn. Bhd.
183.	iSentric Sdn. Bhd.	229.	MDOT Marketing Sdn. Bhd.
184.	Iteach (MSC) Sdn Bhd	230.	Measat Broadcast Network Systems Sdn. Bhd.
185.	ITG Technologies Sdn Bhd	231.	Mediacliq Sdn. Bhd.
186.	ITG Telecommunications Sdn. Bhd.	232.	Mediaconcise Sdn. Bhd.
187.	ITX Marketing Sdn. Bhd.	233.	Mediarling Sdn. Bhd.
188.	iVoix Global Sdn. Bhd.	234.	Mega Two Sdn Bhd
189.	I-Way Network Sdn. Bhd.		

235. Menang Anika Sdn Bhd
236. Merchantrade Asia Sdn. Bhd.
237. Meridian Surveys (M) Sdn. Bhd.
238. Mexcomm Sdn. Bhd
239. Micro Ocean Technologies Sdn Bhd
240. Mikimoto Communications Sdn. Bhd.
241. Mikro Oasis Sdn. Bhd.
242. M-Mode Mobile Sdn. Bhd.
243. MNC Wireless Berhad
244. Mobif Global Sdn. Bhd.
245. Mobile Entertainment (M) Sdn. Bhd
246. Mobile e-Transaction Sdn Bhd
247. Mobile Money International Sdn. Bhd.
248. Mobile Multimedia Sdn. Bhd.
249. Mobile Touchetek Sdn. Bhd.
250. Mobility Gateway Sdn. Bhd.
251. Mobilife.TV Sdn. Bhd.
252. Modern Solution Sdn. Bhd.
253. Moore Nasser Infra Sdn. Bhd.
254. Motion Cards Malaysia Sdn Bhd
255. Move Success Sdn. Bhd.
256. MRCB Technologies Sdn. Bhd.
257. MTE Utara Sdn Bhd
258. MTL E-solutions Sdn. Bhd.
259. MTN Solution Sdn Bhd
260. Mudah.my Sdn Bhd
261. Mura Communications Sdn Bhd
262. Mutual Digital Sdn. Bhd.
263. M-Village Sdn. Bhd.
264. M-Village Solutions Sdn. Bhd.
265. My IT Depot Enterprise
266. My Lucky Mobile Sdn. Bhd.
267. My Penang Fon Sdn Bhd
268. Myit Technology Sdn. Bhd.
269. Mykris Asia Sdn Bhd
270. Mypressto.Com Sdn. Bhd
271. N2N Connect Berhad
272. Nassion Systems (M) Sdn. Bhd.
273. Navitel Sdn. Bhd.
274. Nestwinner Holding Sdn Bhd
275. Netstar Advanced Systems Sdn. Bhd.
276. Next Telecommunications Sdn. Bhd.
277. Nextnation Network Sdn. Bhd.
278. Nexus Solaris Sdn Bhd
279. NGC Systems Sdn. Bhd.
280. Nglobe Sdn. Bhd.
281. Nik Senara Sdn Bhd
282. Nisajaya Communication Sdn Bhd
283. Nplay Sdn. Bhd.
284. NTT MSC Sdn. Bhd.
285. Numstatu Sdn Bhd
286. Octazen Sdn Bhd
287. One M Multi Media
288. Optical Communication Engineering Sdn. Bhd.
289. ORBCOMM Satellite Malaysia Sdn. Bhd.
290. Otelo Telecommunications Sdn. Bhd.
291. P1.Com Sdn. Bhd.
292. Packet One Networks (Malaysia) Sdn. Bhd.
293. Pacnet Global (M) Sdn. Bhd.
294. Pacnet Internet (Malaysia) Sdn. Bhd.
295. Pan Malaysian Pools Sdn. Bhd.
296. Pandone Technology Sdn Bhd
297. Pavo Communications Sdn Bhd
298. Paycomm Network Sdn Bhd
299. Pegasus Premark Sdn Bhd
300. Pernec Paypoint Sdn. Bhd.
301. Persiasys Sdn. Bhd.
302. PG Communications Sdn. Bhd.
303. Planetunes Mobiles Sdn. Bhd.
304. Planworth Communications (M) Sdn. Bhd.
305. Platinum-Z Sdn Bhd
306. Protecs A&A CMS Sdn. Bhd.
307. Puncak Langit Sdn Bhd
308. Pure Access Sdn Bhd
309. Puretech Northern Sdn Bhd
310. Purple Gum Sdn. Bhd.
311. Qasima Technology Sdn. Bhd.
312. Quick Access Technology Sdn. Bhd.
313. Radius-ED Sdn. Bhd.
314. Reach Bandwidth Services Malaysia Sdn. Bhd.
315. Reach Ten Communication Sdn Bhd
316. RealRewards Marketing Sdn Bhd
317. Reapfield Technology Sdn. Bhd.
318. Redtone Marketing Sdn Bhd
319. Redtone Mobile Services Sdn. Bhd
320. Redtone Mytel Sdn. Bhd.
321. Redtone Telecommunications Sdn. Bhd.
322. Redtone-CNx Broadband Sdn. Bhd.
323. Reliva Technology Sdn Bhd
324. Rentak Setia Sdn. Bhd.

325. Rhyzrin Sdn. Bhd,  
326. Sacofa Sdn. Bhd.  
327. Sadiatec Sdn. Bhd.  
328. Sapura Synergy (Malaysia) Sdn Bhd  
329. Sarawak Information Systems Sdn Bhd  
330. Savvis Malaysia Sdn Bhd  
331. Schlumberger Wellog (M) Sdn. Bhd.  
332. Sector Solutions Sdn Bhd  
333. Sedania Corporation Sdn. Bhd.  
334. Segi Maju Sdn. Bhd.  
335. Sellreenz Communications Sdn. Bhd.  
336. Serting Com Sdn. Bhd.  
337. Setia Haruman Technology Sdn. Bhd.  
338. Shrad Computing Sdn Bhd  
339. Silver Mountaine Sdn Bhd  
340. Sky Award Sdn Bhd  
341. Skydoor  
342. Skyline Theme Sdn. Bhd.  
343. Smartag Technologies Sdn. Bhd.  
344. SMS Biz Sdn Bhd  
345. SMS91.Com Sdn. Bhd.  
346. SN Mobile Digital Sdn. Bhd.  
347. Soak Technologies Sdn Bhd  
348. Societe Internationale Telecommunications Aeronautiques (SITA)  
349. Speedy Marvel Sdn Bhd  
350. Sphinx Fusion Sdn. Bhd.  
351. Stars Associated Sdn. Bhd.  
352. Starwing Technologies Sdn Bhd  
353. Stirk Lamont (MSC) Sdn Bhd  
354. STR Communication Sdn. Bhd.  
355. STS Telecommunications (M) Sdn Bhd  
356. Sufi Integrated Resources Network Sdn Bhd  
357. Suitelab Technology Sdn. Bhd.  
358. Sunway Digital Wave Sdn Bhd  
359. Super Call Sdn. Bhd.  
360. Superb Trax Systems Sdn Bhd  
361. Superceed (M) Sdn Bhd  
362. Supreme Landmobile & Wireless Corporation Sdn Bhd  
363. Suprima Holdings Sdn. Bhd.  
364. Sybase Software (M) Sdn. Bhd.  
365. Symphonet Sdn. Bhd.  
366. Synergycentric Sdn Bhd  
367. Syntomos Technologies Sdn Bhd  
368. System Alliance Technology Sdn Bhd  
369. Talk Eight Communications Sdn. Bhd.  
370. Techninier Sdn. Bhd.  
371. Telecom Venture Sdn Bhd  
372. Teleinfo Technology & Services Sdn Bhd  
373. Telekom Applied Business Sdn. Bhd.  
374. Telekom Malaysia Berhad  
375. Teletouch Communications Sdn. Bhd.  
376. Teliti Computers Sdn. Bhd.  
377. Telshine Sdn. Bhd.  
378. Telshine Telecommunication Sdn. Bhd.  
379. Temasek Communication Sdn Bhd  
380. T-Force Technology Sdn. Bhd.  
381. Threesixty Technologies Sdn. Bhd.  
382. TIME dotNet Berhad  
383. Tisisit Corporation (M) Sdn Bhd  
384. TM Info-Media Sdn. Bhd.  
385. T-Melmax Sdn Bhd.  
386. TPM IT Sdn. Bhd.  
387. Tranglo Sdn. Bhd.  
388. Tri-Castle Express Sdn Bhd  
389. Trio Mobile Sdn. Bhd.  
390. Triprogram Solutions Sdn Bhd  
391. Trylah Sdn. Bhd  
392. TT dotCom Sdn. Bhd.  
393. Tune Talk Sdn. Bhd.  
394. Two Tale Marketing Sdn. Bhd.  
395. Two-P Technology (M) Sdn. Bhd.  
396. U Link Global Sdn Bhd  
397. U Mobile Sdn. Bhd.  
398. Uberfusion Sdn. Bhd.  
399. Union Vector Alliance Sdn Bhd  
400. Universal Connections Integrator (M) Sdn Bhd  
401. Utem Solutions Sdn Bhd  
402. VADS Bhd.  
403. Vast Meridian Sdn. Bhd.  
404. Vegasari Teknologi Sdn Bhd  
405. Verizon Communications Malaysia Sdn Bhd  
406. Verve Consulting Sdn. Bhd.  
407. Victory Vois Sdn Bhd  
408. Virtual Payment Sdn Bhd  
409. Vision Interactive Broadband Services Sdn Bhd.  
410. VMax Point (M) Sdn Bhd  
411. Voicecom Global Sdn Bhd  
412. Voicestar Communications Sdn. Bhd.  
413. Voiztech Communication Sdn Bhd  
414. Vox Emas Communications Sdn. Bhd.

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| 415. Vyke Asia Sdn. Bhd.                               | 17. Measat Radio Communications Sdn Bhd (MY), (HITz) & (Light & Easy)  |
| 416. Web ASP Sdn. Bhd.                                 | 18. Metropolitan TV Sdn Bhd (Metro Vision)   |
| 417. Wellcom Communications (M) Sdn Bhd                | 19. MOL Media Sdn. Bhd.  |
| 418. West Infinity (M) Sdn. Bhd.                       | 20. Natseven TV Sdn Bhd (NTV7)   |
| 419. WI Network Sdn. Bhd.                              | 21. Network Guidance Sdn Bhd (FINE Network)  |
| 420. Widelink Asia Sdn Bhd                             | 22. Onefm Radio Sdn Bhd  |
| 421. Widenet Distributor Sdn. Bhd.                     | 23. Perfect Excellence Waves Sdn. Bhd.   |
| 422. Wi-Net Technology Sdn Bhd                         | 24. Perfect Excellence Waves Sdn. Bhd.   |
| 423. Wokbyte Sdn. Bhd.                                 | 25. Pertubuhan Berita Nasional Malaysia (Bernama)  |
| 424. World Marketplace Sdn Bhd                         | 26. Radio Lebuhraya Sdn Bhd (THR)  |
| 425. Xintel Sdn. Bhd.                                  | 27. Rimakmur Sdn Bhd   |
| 426. Xota Communications Sdn. Bhd.                     | 28. Rimakmur Sdn Bhd   |
| 427. XOX Com Sdn. Bhd.                                 | 29. Sistem Televisyen Malaysia Bhd (TV3)   |
| 428. Xpedite Systems Incorporated (Malaysia) Sdn. Bhd. | 30. Soak Broadcasting Sdn Bhd  |
| 429. XTC Solutions (M) Sdn. Bhd                        | 31. STAR Rfm Sdn. Bhd. (RfM) & (Redi.FM)   |
| 430. Xtend Services Sdn Bhd                            | 32. Suara Johor Sdn Bhd (Best 104)   |
| 431. Yesnet Telecommunication Sdn. Bhd.                | 33. Synchrosound Studios Sdn Bhd (HotFM)   |
| 432. Yomobile Sdn. Bhd.                                | 34. TM Net Sdn. Bhd.   |
| 433. YTL Communications Sdn Bhd                        | 35. U-Television Sdn. Bhd.   |
| 434. Zay Mobile Sdn Bhd                                | 36. U-Television Sdn. Bhd. (formerly known as U Telecom Media Holdings Sdn.Bhd. / also MiTV Corporation Sdn. Bhd.) |
| 435. Zeus3 Sdn. Bhd.                                   |  |
| 436. Zoom Mobile Solutions Sdn Bhd                     |  |

**Pelesen Pemberi Perkhidmatan Aplikasi Kandungan, Individu**

*Content Applications Service Provider (CASP) Individual Licensee*

1. Al Hijrah Media Corporation
2. Asia Media Sdn. Bhd.
3. Asiaspace Digital Network Sdn Bhd
4. BFM Media Sdn. Bhd.
5. CH-9 Media Sdn Bhd
6. DE Multimedia Sdn Bhd
7. Fine Network TV Sdn Bhd
8. Greenline Communication Sdn Bhd
9. Husa Network Sdn. Bhd.
10. Husa Network Sdn. Bhd. (Manis FM)
11. Institut Kefahaman Islam Malaysia (Radio IKIM)
12. ISY Holdings Sdn. Bhd.
13. Kristal Harta Sdn Bhd (Cats Radio)
14. Maestra Broadcast Sdn Bhd (MIX FM) & (ERA)
15. Malaysia Airports (Sepang) Sdn Bhd (Radio KLIA)
16. Measat Broadcast Network Systems Sdn Bhd

**Pelesen Pemberi Perkhidmatan Aplikasi Kandungan, Kelas**

*Content Applications Service Provider (CASP) Class Licensee*

1. 3rd Dimension Sdn Bhd (Hero Supermarket only)
2. Alam Venture Sdn Bhd (Hyatt Regency Kuantan Resort)
3. Asia Media Sdn Bhd (In Rapid KL buses, Handal Indah Buses between Johor Bahru and Causeway and Transnasional group buses such as Plusliner, Triton and Transnasional.)
4. Berjaya Georgetown Hotel (Penang) Sdn Bhd (Berjaya Georgetown Hotel)
5. Berjaya Langkawi Beach Resort Sdn Bhd (Berjaya Langkawi Beach & Spa Resort)
6. Bukit Jambul Hotel Development Sdn Bhd (Equatorial Hotel Penang)
7. Copthorne Orchid Penang Sdn Bhd (Copthorne Orchid Hotel Penang)
8. Digistar Rauland MSC Sdn Bhd (Ward in Hospital)
9. First World Hotels & Resorts Sdn Bhd (First World Hotel, Genting Highlands Resort)
10. Genting Golf Course Bhd (Awana Genting Highlands Golf & Country Resort)

11. Genting Malaysia Berhad (Genting Hotel, Resort Hotel, Theme park Hotel, Highland Hotel)
12. Gloharta (M) Sdn Bhd (Le Meridien Kota Kinabalu)
13. Kenanga Utuh Sdn Bhd (De Rhu Beach Resort)
14. Komtar Hotel Sdn Bhd (Traders Hotel Penang)
15. Kuala Lumpur Convention Centre Sdn Bhd (Traders Hotel Kuala Lumpur)
16. Langkawi Island Resort Sdn Bhd (The Westin Langkawi Resort & Spa)
17. Mamlaka Langkawi Sdn Bhd (Four Seasons Resort Langkawi)
18. Metroplex Holdings Sdn Bhd (The Legend Hotel Kuala Lumpur)
19. One World Hotel Sdn Bhd (One World Hotel)
20. Pantai Dalit Beach Resort Sdn Bhd (Shangri-La's Rasa Ria Resort)
21. Papago Sdn Bhd (Awana Porto Malai Resort Langkawi)
22. President Hotel Sdn Bhd (ParkRoyal Kuala Lumpur, Pyramid Tower Hotel)
23. Sunway Hotel (Penang) Sdn Bhd (Sunway Hotel Georgetown)
24. Sunway Hotel (Seberang Jaya) Sdn Bhd (Sunway Hotel Seberang Jaya)
25. Sunway Resort Hotel Sdn Bhd (Sunway Resort Hotel & Spa)
26. Tanjong Aru Hotel Sdn Bhd (Tanjong Aru Resorts & Spa)
27. THR Hotel (Johor) Sdn Bhd (Mutiara Johor Bahru)
28. THR Hotel (Sarawak) Sdn Bhd (Batang Ai Longhouse Resort Managed by Hilton)
29. THR Hotel (Sarawak) Sdn Bhd (Hilton Kuching)
30. Widuri Pelangi Sdn Bhd (Awana Kijal Golf, Beach & Spa Resort)

	<b>UNTUK STATISTIK-STATISTIK LAIN FOR MORE STATISTICS</b>
<b>LAMAN WEB WEBSITE</b>	<p>Laman web SKMM mengandungi sedutan statistik-statistik yang berkaitan dengan industri komunikasi &amp; multimedia dan pos &amp; kurier. Statistik-statistik ini dikemaskinikan pada setiap suku/setengah tahun. Laman web SKMM adalah di <a href="http://www.skmm.gov.my">www.skmm.gov.my</a></p> <p><i>The MCMC website contains extracts of statistics pertaining to the communications &amp; multimedia and postal &amp; courier industry. This is updated quarter/half yearly. The MCMC website is at <a href="http://www.skmm.gov.my">www.skmm.gov.my</a></i></p>
<b>BULETIN STATISTIK STATISTICAL BULLETIN</b>	<p>SKMM menerbitkan penerbitan berikut :</p> <ol style="list-style-type: none"> <li>1. Komunikasi &amp; Multimedia: Fakta &amp; Angka Terpilih (ISSN:1675-6223), buletin suku tahunan bagi industri komunikasi &amp; multimedia.</li> <li>2. Perkhidmatan Pos &amp; Kurier: Fakta &amp; Angka Terpilih (ISSN: 1823-9919), buletin separa tahunan bagi industri pos &amp; kurier.</li> </ol> <p>Sila hubungi SKMM untuk maklumat lanjut.</p> <p><i>MCMC publishes the following publications :</i></p> <ol style="list-style-type: none"> <li>1. <i>Communications &amp; Multimedia: Selected Facts &amp; Figures (ISSN:1675-6223), a quarterly bulletin of the communications &amp; multimedia industry.</i></li> <li>2. <i>Postal &amp; Courier Services: Selected Facts &amp; Figures (ISSN: 1823-9919) a half yearly bulletin of the postal &amp; courier industry.</i></li> </ol> <p><i>Contact the MCMC for more details.</i></p>
<b>STATISTICAL BRIEF</b>	<p>Statistical Brief, adalah penerbitan bertujuan untuk menyebarkan penemuan-penemuan kajian yang dilaksanakan oleh SKMM. Sila hubungi SKMM untuk maklumat lanjut.</p> <p><i>The Statistical Briefs disseminates findings of surveys conducted by MCMC. Contact MCMC for more details.</i></p>
	<b>Jabatan Statistik &amp; Sumber Ilmu The Statistics &amp; Knowledge Resource Department</b>
<b>PENGARAH DIRECTOR</b>	Koay Hock Eng
<b>PERANGKAWAN STATISTICIAN</b>	Azilawati Bt.Masri
	<b>Hubungi Contact</b>
	<p>Sila hubungi Jabatan Statistik dan Sumber Ilmu sekiranya anda mempunyai pertanyaan yang berkaitan dengan statistik-statistik yang disiarkan di dalam buletin ini pada alamat berikut:</p> <p><i>Please contact the Statistics &amp; Knowledge Resource Department if you have any queries regarding the statistics published in this bulletin through the following email address:</i></p> <p><a href="mailto:statistics@skmm.gov.my">statistics@skmm.gov.my</a></p>



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