

## APPENDICES

## **Appendix A**

List of Internet Data Centre Companies in Malaysia

(Source : HSPstreet.com, <http://www.hspstreet.com>)

1. Asia Online, Ltd.
2. AsiaHosting.com (BJ Webvertising)
3. DataOne (Asia) Pte Ltd
4. EMERGE Systems (M) Sdn Bhd
5. Free Net Business Solutions Sdn Bhd
6. HeiTech Padu Berhad
7. High-Tech ASP Sdn Bhd
8. Hileytech Sdn Bhd
9. IPXcess Dotcom Sdn Bhd
10. Jaring
11. Malaysia Online
12. Maxis Communications Berhad
13. Netmyne (Telekom Malaysia)
14. Sabah.Net
15. Silicon Internet
16. Skali
17. TIME dotNet Berhad
18. TMnet Operations, Telekom Malaysia
19. Techbyte (M) Sdn. Bhd.
20. VADS Bhd (CommerceCity )
21. Via Communication Network Sdn Bhd
22. WebServer.com.my
23. Myloca
24. Solsis
25. NTT-MSD

Appendix B

Questionnaire for Internet Data Centres

Screening questions (please circle)		Is your IDC a Commercial IDC?		Yes	No	
		How many customers you have currently?		<3	>2	
				Freq	%	Value for customer
A. Location and Environment						
Geographical location	City					Statistical
	Suburb					
	MSC					
Environment	Lightning protection					Availability
	Natural disaster free					
B. Infrastructure						
Building Layout	Floor space (sq ft)	<5000				Scalability
		5001-10000				
		>10000				
	Organised racking system:	Open rack	Standard			Security
			By demand			
		Locked rack	Standard			
			By demand			
		Private Caging	Standard			
			By demand			
	Structured electrical cabling:	Under floor trunking				Responsiveness
		Overhead Tray				
	Raised Floor					Availability
	Dedicated areas for:	Internet access nodes				Responsiveness
		Server racks				
		Testing and staging				
		Temporary storage				
		Tape room				
Network Operating Centre (NOC)						
Facilities	Separate electrical feeder(s) from the utility provider					Availability
	At least 2 means of electrical distribution in the Data Centre					
	Voltage surge suppresser					
	Harmonics filter(s)					
	UPS availability					
	UPS standby duration (minutes)	1-30 min				
		31-60 min				
		>1 hr				
	UPS blackout alert					
	Genset availability					
	standby duration (hrs)	1-10 hrs				
		>10 hrs				
	automatic changeover					
24-hour CCTV monitoring					Security	
Access Control type	card					

		finger print			Availability		
		iris scan					
		others					
	Security guards	Compound					
		Building					
	CMS (intrusion alert)						
	Heat & smoke detectors						
	Portable fire extinguishers						
	Gas-based fire suppression						
	Remote BOMBA alert						
	Air Conditioning with redundancy						
	Air Conditioning Temperature 18 - 22 degC						
	Humidity 45% - 50%						
	Staff Facilities - Rest area						
	Staff Facilities - Pantry						
Staff Facilities - Personal safety							
C. Services offered by IDC							
co-location					Statistical		
managed services	web hosting						
	ASP						
	Total Solutions						
	Value added - customised						
D. Customer segment market							
Brick & Mortar	Government bodies				Statistical		
	Education						
	Banking						
	SMI						
	NPO						
	Tourism						
	Software House						
	Hardware House						
	MNCs						
	ICT Service Provider						
dotcoms	e-portal						
	ASP						
E. System & Network Infrastructure							
Connectivity	multiple carriers - telco	1 TELCO			Availability		
		> 1 TELCO					
	multiple carriers - ISP	1 ISP				Availability	
		> 1 ISP					
	SLA with telco	SLA					Availability
		UNERSTANDING					
	SLA with ISP	SLA			Availability		
		UNERSTANDING					
	Types of connectivity from telco	Fibre optic				Cost saving	
		ISDN					
		Copper line					
	How many internet lines available for clients	<3 LINES				Availability	
		UNLIMITED					
	Internet connection speed from IDC to Telco	<10Mbps			Cost saving		
		>10Mbps					
System & Network	How often do you monitor /	Daily & more			Security		



security	analyse the firewall logs?	Weekly				
		Monthly				
		Depends on SLA				
	Do you have an in-house network security team / 3rd party security service?	in house				
		in house and external				
	What other than the firewall that your company is able to detect unauthorised access?	IDS				
		IDS and more or others				
	How often do you perform the system backup?	Daily & more				
		Weekly & more				
		Monthly & or by demand				
How many people know about the administration password?	3 or less					
	More than 3					
Commerce security	How do you guard & validate the authorization of data exchanges?	SSL, VPN, MEPS				
		OTHERS				
Data security	How often do you perform data backup?	Daily & more				
		Weekly & more				
		Monthly & or by demand				
	Do you store at least a copy of latest backup media offsite?	Yes				
	How quick is the response in the event of a disaster?	Within 1 hour				Responsiveness
Within 3 hrs						
storage capacity	How do you ensure scalability?	Have bigger IDC space				Scalability
		Capacity planning				
		Constant monitoring by system; adopt latest technology				
		Use modular and scalable storage solution.				
		Not sure / No comment				
	Do you implement Storage Area Network?	Yes				
		Planning				
F. Data Centre Management & Operation						
Service Management Centre (Call Centre)	Is the call centre staffed 24/7?	CC & NOC				Service support
		ONLY NOC				
	Do you have first level support for all alerts, incidents & problems, first level contacts for customers?	Yes				
	How quick is the average response time to a complaint? (minutes)	within 15 minutes				Responsiveness
		within 30 minutes				
within 60 minutes						
within 2 hours						
Service Monitoring & Maintenance	Do you have dedicated management and monitoring tools for all operational managed services?	Yes				Availability
	What is the frequency of reporting to the customers on the system's performance?	daily or by demand				Service support
		weekly or by demand				
		monthly or by demand				
		ad-hoc				
	Basic Monitoring					Availability
	- Packet loss monitoring	Yes				
		By demand				

	- view log files	Yes			
		By demand			
	- Hard disk usage monitoring	Yes			
		By demand			
	- CPU usage monitoring	Yes			
		By demand			
	- Memory usage monitoring	Yes			
		By demand			
	Proactive monitoring				
	- trends monitoring				
	- automated responses to given conditions				Availability
	- new patches / service packs				
	firewall monitoring for intrusions				
	How often do you conduct meetings with your customers?	daily or by demand			
	weekly or by demand			Service support	
	monthly or by demand				
	ad-hoc				
	other department manage				
What is the ratio of customer/ IDC personnel : target / optimum?	target: 1 to <50 servers				
G. Other questions					
Reasons customer acquire IDC services	Complexity of IT architecture & software				Statistical
	Better use of space				
	Let experts do the job				
	Focus on core competencies				
	Complexity of IT architecture & software				
	Business / Operation risk				
	Specialization				
	Better e-business performance				
	More secured infrastructure				
Healthier cash flow ( factor of amortization, peak initial capital investment)					
How much do you think is the total estimated cost savings in value and in percentage by each of your customer after they engage in your service?	<50% operating cost				
	>50% operating cost				
	no comment				
	What do you think is the greatest selling point of your IDC?	competitive pricing			
	excellent & flexible services				
	great IT infrastructure				
	value for money				

Appendix C

Questionnaire for Internet Data Centre Customers

Screening questions (please circle)		Acquires at least one of the services offered by IDC?	Yes	No
		At least 3 months of experience dealing with IDC?	Yes	No
		Findings		
			Freq	%
A. IDC customers Business Category	Government bodies			
	Education			
	Banking			
	SMI			
	NPO			
	Tourism			
	Software House			
	Hardware House			
	Retail shops			
	Consultancy			
	Others (Brick & Mortal)			
	e-portal			
	ASP			
	Others (dot com)			
B. Reasons to outsource	Cost reduction - get % & value of savings			
	Better use of space			
	Let experts do the job			
	Focus on core competencies			
	Complexity of IT architecture & software			
	Reduced Business / Operation risk			
	Specialization			
	Better e-business performance			
	More secured infrastructure			
	Healthier cash flow ( factor of amortization, peak initial capital investment)	2		
C. Services acquired from IDC	Co-location			
	Web hosting			
	ASP			
	Total Solution			
	Dedicated hosting			
D. Most important criteria looked for in IDC:	Availability	RANK 1		
		RANK 2		
		RANK 3		
		RANK 4		
		RANK 5		
	Security	RANK 1		
		RANK 2		
		RANK 3		
		RANK 4		
		RANK 5		

	Service Support	RANK 1		
		RANK 2		
		RANK 3		
		RANK 4		
		RANK 5		
	Responsiveness	RANK 1		
		RANK 2		
		RANK 3		
		RANK 4		
		RANK 5		
	Customisability	RANK 1		
		RANK 2		
		RANK 3		
		RANK 4		
		RANK 5		
Satisfaction Level on IDC Services	Availability	Very satisfied		
		Satisfied		
		No comment		
		Not satisfied		
		Very unsatisfied		
	Security	Very satisfied		
		Satisfied		
		No comment		
		Not satisfied		
		Very unsatisfied		
	Service support	Very satisfied		
		Satisfied		
		No comment		
		Not satisfied		
		Very unsatisfied		
	Cost effectiveness	Very satisfied		
		Satisfied		
		No comment		
		Not satisfied		
		Very unsatisfied		
	Responsiveness	Very satisfied		
		Satisfied		
		No comment		
		Not satisfied		
		Very unsatisfied		
	Customisability	Very satisfied		
		Satisfied		
		No comment		
		Not satisfied		
		Very unsatisfied		
	Satisfaction on SLA compliance	Very satisfied		
		Satisfied		
		No comment		
		Not satisfied		
		Very unsatisfied		
	Meet outsourcing objectives	Very satisfied		
		Satisfied		
		No comment		
		Not satisfied		

		Very unsatisfied		
E. Future expectations from IDC:	Remote administration			
	Stronger technical support / IDC personnel			
	Bigger bandwidth			
	More competitive Pricing			
	Higher availability / uptime			
	Better customer support and more responsible			
	No comment / so far so good			
F. Problems dealing with IDC	Lack of commitment in providing services			
	Slow response time and lack of customer support			
	Rely too much on 3rd party vendors - Lack of in house qualified personnel			
	Slow on-line connections			
	Bandwidth problem			
	Low security/ firewall			
	SLA unsatisfaction			
	Low availability			
	No comment / so far so good			
G. Would you recommend others to subscribe to IDC services and why?	Yes, would recommend IDC services			
	No comment			
	Cost effectiveness / cost savings with better cash flow bring to higher business efficiency			
	Good IT infrastructure			
	IDC Specialisation / expertise			
	Good and flexible services			
	Less hassle / problem / risk			
	Focus on Core competencies hence greater business efficiency			

# Appendix D

## Summary of findings for iDCs

			Freq	%	
A. Location and Environment					
Geographical location	City		1	11.11%	
	Suburb		3	33.33%	
	MSC		5	55.56%	
Environment	Lightning protection		9	100.00%	
	Natural disaster free		9	100.00%	
B. Infrastructure					
Building Layout	Floor space (sq ft)	<5000		3	33.33%
		5001-10000		2	22.22%
		>10000		4	44.44%
	Organised racking system:	Open rack	Standard	2	22.22%
			By demand	5	55.56%
		Locked rack	Standard	8	88.89%
			By demand	1	11.11%
		Private Caging	Standard	3	33.33%
			By demand	6	66.67%
	Structured electrical cabling:	Under floor trunking		8	88.89%
		Overhead Tray		1	11.11%
	Raised Floor			8	88.89%
	Dedicated areas for:	Internet access nodes		8	88.89%
		Server racks		9	100.00%
		Testing and staging		9	100.00%
		Temporary storage		6	66.67%
		Tape room		7	77.78%
		Network Operating Centre (NOC)		9	100.00%
Facilities	Separate electrical feeder(s) from the utility provider			6	66.67%
	At least 2 means of electrical distribution in the Data Centre			9	100.00%
	Voltage surge suppresser			8	88.89%
	Harmonics filter(s)			6	66.67%
	UPS availability			9	100.00%
	UPS standby duration (minutes)	1-30 min		6	66.67%
		31-60 min		1	11.11%
		>1 hr		1	11.11%
	UPS blackout alert			9	100.00%
	Genset availability			9	100.00%
	standby duration (hrs)	1-10 hrs		2	22.22%
		>10 hrs		7	77.78%
	automatic changeover			9	100.00%
	24-hour CCTV monitoring			7	77.78%
	Access Control type	card		8	88.89%
		finger print		3	33.33%
		iris scan		0	0%
		others		0	0%

	Security guards	Compound	9	100.00%
		Building	5	55.56%
	CMS (intrusion alert)		2	22.22%
	Heat & smoke detectors		9	100.00%
	Portable fire extinguishers		9	100.00%
	Gas-based fire suppression		8	88.89%
	Remote BOMBA alert		0	0%
	Air Conditioning with redundancy		9	100.00%
	Air Conditioning Temperature 18 - 22 degC		9	100.00%
	Humidity 45% - 50%		4	44.44%
	Staff Facilities - Rest area		8	88.89%
	Staff Facilities - Pantry		8	88.89%
	Staff Facilities - Personal safety		9	100.00%
C. Services offered by IDC				
co-location			9	100.00%
managed services	web hosting		8	88.89%
	ASP		5	55.56%
	Total Solutions		8	88.89%
	Value added - customised		8	88.89%
D. Customer segment market				
Brick & Mortar	Government bodies			7%
	Education			5%
	Banking			4%
	SMI			29%
	NPO			10%
	Tourism			8%
	Software House			11%
	Hardware House			4%
	MNCs			9%
	ICT Service Provider			5%
dotcoms	e-portal			7%
	ASP			13%
E. System & Network Infrastructure				
Connectivity	multiple carriers - telco	1 TELCO	5	55.56%
		> 1 TELCO	4	44.44%
	multiple carriers - ISP	1 ISP	2	22.22%
		> 1 ISP	7	77.78%
	SLA with telco	SLA	6	66.67%
		UNERSTANDING	2	22.22%
	SLA with ISP	SLA	5	55.56%
		UNERSTANDING	2	22.22%
	Types of connectivity from telco	Fibre optic	7	77.78%
		ISDN	7	77.78%
		Copper line	2	22.22%
	How many internet lines available for clients	<3 LINES	2	22.22%
		UNLIMITED	7	77.78%
	Internet connection speed from IDC to Telco	<10Mbps	4	44.44%
		>10Mbps	5	55.56%
System & Network security	How often do you monitor / analyse the firewall logs?	Daily & more	4	44.44%
		Weekly	2	22.22%
		Monthly	1	11.11%
		Depends on SLA	1	11.11%

	Do you have an in-house network security team / 3rd party security service?	in house	7	77.78%
		in house and external	2	22.22%
	What other than the firewall that your company is able to detect unauthorised access?	IDS	6	66.67%
		IDS and more or others	2	22.22%
	How often do you perform the system backup?	Daily & more	6	66.67%
		Weekly & more	1	11.11%
		Monthly & or by demand	2	22.22%
	How many people know about the administration password?	3 or less	8	88.89%
More than 3		1	11.11%	
Commerce security	How do you guard & validate the authorization of data exchanges?	SSL, VPN, MEPS	3	33.33%
		OTHERS	3	33.33%
Data security	How often do you perform data backup?	Daily & more	4	44.44%
		Weekly & more	0	0.00%
		Monthly & or by demand	3	33.33%
	Do you store at least a copy of latest backup media offsite?	Yes	8	88.89%
	How quick is the response in the event of a disaster?	Within 1 hour	6	66.67%
Within 3 hrs		3	33.33%	
storage capacity	How do you ensure scalability?	Have bigger IDC space	1	11.11%
		Capacity planning	4	44.44%
		Constant monitoring by system; adopt latest technology	1	11.11%
		Use modular and scalable storage solution.	1	11.11%
		Not sure / No comment	2	22.22%
	Do you implement Storage Area Network?	Yes	3	33.33%
		Planning	2	22.22%
F. Data Centre Management & Operation				
Service Management Centre (Call Centre)	Is the call centre staffed 24/7?	CC & NOC	6	66.67%
		ONLY NOC	3	33.33%
	Do you have first level support for all alerts, incidents & problems, first level contacts for customers?	Yes	9	100.00%
	How quick is the average response time to a complaint? (minutes).	within 15 minutes	5	55.56%
		within 30 minutes	2	22.22%
		within 60 minutes	1	11.11%
		within 2 hours	1	11.11%
Service Monitoring & Maintenance	Do you have dedicated management and monitoring tools for all operational managed services?	Yes	7	77.78%
	What is the frequency of reporting to the customers on the system's performance?	daily or by demand	1	11.11%
		weekly or by demand	0	0.00%
		monthly or by demand	3	33.33%
		ad-hoc	5	55.56%
	Basic Monitoring			
	- Packet loss monitoring	Yes	8	88.89%
		By demand	0	0.00%
	- view log files	Yes	8	88.89%
		By demand	0	0.00%
- Hard disk usage monitoring	Yes	5	55.56%	



		By demand	2	22.22%
	- CPU usage monitoring	Yes	5	55.56%
		By demand	2	22.22%
	- Memory usage monitoring	Yes	5	55.56%
		By demand	2	22.22%
	Proactive monitoring			
	- trends monitoring		9	100.00%
	- automated responses to given conditions		9	100.00%
	- new patches / service packs firewall monitoring for intrusions		8	88.89%
	How often do you conduct meetings with your customers?	daily or by demand	0	0.00%
		weekly or by demand	3	33.33%
		monthly or by demand	4	44.44%
		ad-hoc	1	11.11%
		other department manage	1	11.11%
	What is the ratio of customer/ IDC personnel : target / optimum?	target: 1 to <50 servers	5	55.56%
G. Other questions				
Reasons customer acquire IDC services	Complexity of IT architecture & software		8	89%
	Better use of space		1	11%
	Let experts do the job		4	44%
	Focus on core competencies		6	67%
	Complexity of IT architecture & software		6	67%
	Business / Operation risk		4	44%
	Specialization		2	22%
	Better e-business performance		3	33%
	More secured infrastructure		7	78%
	Healthier cash flow ( factor of amortization, peak initial capital investment)		3	33%
How much do you think is the total estimated cost savings in value and in percentage by each of your customer after they engage in your service?	<50% operating cost		6	66.67%
	>50% operating cost		1	11.11%
	no comment		2	22.22%
What do you think is the greatest selling point of your IDC?	competitive pricing		3	33.33%
	excellent & flexible services		5	55.56%
	great IT infrastructure		1	11.11%
	value for money		3	33.33%

Appendix E

Detailed response of IDCs

A. Location and Environment		IDC #1	IDC #2	IDC #3	IDC #4	IDC #5	IDC #6	IDC #7	IDC #8	IDC #9
Geographical location	City							X		
	Suburb	X			X	X				
	MSC		X	X			X		X	X
	Lightning protection	X	X	X	X	X	X	X	X	X
Environment	Natural disaster free	X	X	X	X	X	X	X	X	X
B. Infrastructure										
Building Layout	Floor space (sq ft)	4,200			2,600	1,000				
		<5000								
		5001-10000							10,000	10,000
	Organised racking system:	>10000	30,000	20,000			16,000	17,500		
		Open rack	X						X	
		Standard		X	X	X	X			X
		By demand		X	X	X	X		X	X
		Locked rack	X		X	X	X	X		X
		Standard								
	Private Caging	By demand	X					X	X	
		Standard								
		By demand								
	Structured electrical cabling:	Under floor trunking	X	X	X	X	X			X
		Overhead Tray		X	X	X	X	X	X	X
Raised Floor	Dedicated areas for:		X							
		Internet access nodes	concrete	X	X	X	X	X	X	X
		Server racks	X	X	X	X	X	X	X	X
		Testing and staging	X	X	X	X	X	X	X	X
		Temporary storage	X	X	X	X	X	X	X	X
		Tape room	X	X	X	X	X	X	X	X

Facilities	Network Operating Centre (NOC)											
Separate electrical feeder(s) from the utility provider	X	X										
At least 2 means of electrical distribution in the Data Centre	X											
Voltage surge suppressor	X	X										
Harmonics filter(s)	X	X										
UPS availability	1X100	2x100	3X60	2X60	200	2X800	4X650	2x400	not sure			
UPS standby duration (minutes)	1-30 min	30		20	25	30	30	30				
	31-60 min		45									
	>1 hr	180										
UPS blackout alert	X	X	X	X	X	X	X	X				
Genset availability	2	1	3	1	1	2	3	2				
standby duration (hrs)	7			6								
	>10 hrs	48	>10 each		24 hrs for a week	72	24 hrs for a week	16 hrs each				
automatic changeover	X	X	X	X	X	X	X	X				
24-hour CCTV monitoring	plan	X	X	X	plan	X	X	X				
Access Control type	X	X	X	X	X	X	X	X				
card												
finger print			X			X		X				
iris scan												
others												
Security guards	X	X	X	X	X	X	X	X				
Compound												
Building												
CMS (intrusion alert)												
Heat & smoke detectors	X	X	X	X	X	X	X	X				
Portable fire extinguishers	X	X	X	X	X	X	X	X				

	Gas-based fire suppression		FM 200	X	X	X	FM 200		X	X	X
	Remote BOMBA alert			X	X	X	X				
	Air Conditioning with redundancy		3	4	2	3	PCU 6+6 per floor	16	8		3
	Air Conditioning Temperature 18 - 22 degC		19 degC	21degC	21degC	22 degC	19 degC	20degC	21degC	22 degC	
	Humidity 45% - 50%		not sure	45%	45%	50%	50%	not sure	not sure	not sure	
C. Services offered by IDC	Staff Facilities - Rest area		X	X		X	X	X	X	X	
	Staff Facilities - Pantry		X	X		X	X	X	X	X	
	Staff Facilities - Personal safety		X	X		X	X	X	X	X	
	co-location		X	X	X	X	X	X	X	X	
	managed services		X	X	X	X	X	X	X	X	
D. Customer segment market	ASP		X	X	X	X	X				
	Total Solutions		X	X	X	X	X				
	Value added - customised		X	X	X	X	X				
	Government bodies		10%	20%	5%			3%	20%		0%
	Education		5%	10%	5%			3%			20%
Brick & Mortar	Banking		5%	5%	5%	10%		3%	5%		0%
	SMI		5%	10%	40%	50%		25%	50%		10%
	NPO		5%	5%	0%	50%		3%	5%		10%
	Tourism		5%	5%	10%			3%			40%
	Software House		5%	10%	15%	36%		10%	15%		0%
dolcoms	Hardware House		5%	5%	10%			3%			10%
	MNCs		40%								0%
	ICT Service Provider			10%							0%
	e-portal		5%	10%		2%		25%	5%		10%

E. System & Network Infrastructure		ASP												
Connectivity	multiple carriers - telco	multiple carriers - ISP	1 TELCO											
			> 1 TELCO											
			1 ISP											
			> 1 ISP											
			SLA											
			UNERSTANDING											
			SLA											
			UNERSTANDING											
			Types of connectivity											
			Fibre optic											
			ISDN											
			Copper line											
			<3 LINES											
			UNLIMITED											
System & Network security	Internet connection speed from IDC to Telco	<10Mbps >10Mbps	45Mbps											
			Telco											
			Daily & more											
			Weekly											
			Monthly											
			Depends on SLA											
			In house											
			In house and external											
			IDS											
			IDS and more or others											



[illegible]

[illegible]



[illegible]

## Appendix F

### Summary findings for IDC customers

		Findings	
		Freq	%
A. IDC customers Business Category	Government bodies	0	0%
	Education	0	0%
	Banking	1	4%
	SMI	3	13%
	NPO	1	4%
	Tourism	0	0%
	Software House	1	4%
	Hardware House	0	0%
	Retail shops	0	0%
	Consultancy	1	4%
	Others (Brick & Mortar)	4	17%
	e-portal	7	30%
	ASP	3	13%
	Others (dot com)	2	9%
B. Reasons to outsource	Cost reduction - get % & value of savings	17	74%
	Better use of space	9	39%
	Let experts do the job	17	74%
	Focus on core competencies	20	87%
	Complexity of IT architecture & software	10	43%
	Reduced Business / Operation risk	15	65%
	Specialization	15	65%
	Better e-business performance	11	48%
	More secured infrastructure	18	78%
	Healthier cash flow ( factor of amortization, peak initial capital investment)	8	35%
C. Services acquired from IDC	Co-location	13	57%
	Web hosting	6	26%
	ASP	3	13%
	Total Solution	5	22%
	Dedicated hosting	1	4%
D. Most important criteria looked for in IDC:	Availability	RANK 1	100%
		RANK 2	0%
		RANK 3	0%
		RANK 4	0%
		RANK 5	0%
	Security	RANK 1	0%
		RANK 2	91%
		RANK 3	4%
		RANK 4	4%
		RANK 5	0%
	Service Support	RANK 1	0.00%
		RANK 2	9%
		RANK 3	30%

	Technical support - IDC services	RANK 4	52%
		RANK 5	9%
	Responsiveness	RANK 1	0%
		RANK 2	0%
		RANK 3	65%
		RANK 4	30%
		RANK 5	4%
	Customisability	RANK 1	0%
		RANK 2	0%
		RANK 3	0%
		RANK 4	13%
		RANK 5	87%
Satisfaction Level on IDC Services	Availability	Very satisfied	17%
		Satisfied	61%
		No comment	4%
		Not satisfied	13%
		Very unsatisfied	4%
	Security	Very satisfied	17%
		Satisfied	57%
		No comment	13%
		Not satisfied	13%
		Very unsatisfied	0%
	Service support	Very satisfied	13%
		Satisfied	52%
		No comment	22%
		Not satisfied	13%
		Very unsatisfied	0%
	Cost effectiveness	Very satisfied	9%
		Satisfied	57%
		No comment	35%
		Not satisfied	0%
		Very unsatisfied	0%
	Responsiveness	Very satisfied	13%
		Satisfied	52%
		No comment	22%
		Not satisfied	13%
		Very unsatisfied	0%
	Customisability	Very satisfied	0%
		Satisfied	39%
		No comment	57%
		Not satisfied	4%
		Very unsatisfied	0%
	Satisfaction on SLA compliance	Very satisfied	0%
		Satisfied	30%
		No comment	48%
		Not satisfied	13%
		Very unsatisfied	9%
	Meet outsourcing objectives	Very satisfied	0%
		Satisfied	100%
		No comment	0%
		Not satisfied	0%
		Very unsatisfied	0%
E. Future expectations from	Remote administration		22%

IDC:	Stronger technical support / IDC personnel			9%
	Bigger bandwidth			17%
	More competitive Pricing			4%
	Higher availability / uptime			13%
	Better customer support and more responsible			22%
	No comment / so far so good			39%
F. Problems dealing with IDC	Lack of commitment in providing services			4%
	Slow response time and lack of customer support			26%
	Rely too much on 3rd party vendors - Lack of in house qualified personnel			9%
	Slow on-line connections Bandwidth problem			13%
	Low security/ firewall			4%
	SLA unsatisfaction			4%
	Low availability			4%
	No comment / so far so good			43%
G. Would you recommend others to subscribe to IDC services and why?	Yes, would recommend IDC services			96%
	No comment			4%
	Cost effectiveness / cost savings with better cash flow bring to higher business efficiency			55%
	Good IT infrastructure			23%
	IDC Specialisation / expertise			14%
	Good and flexible services			18%
	Less hassle / problem / risk			23%
	Focus on Core competencies hence greater business efficiency			14%