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Appendix A: <u>Questionnaire for Residential Customer</u>

I. Sex O N	Male O Female					
2. Age						
3. Occupation	O Student O G	overnment official	O State enterprise			
O Private company of	officer O O	wn Business	O Others			
4. Revenue / month	O less than 10,000	baht O 10	0,001 - 30,000 baht			
	O 30,001 - 50,000	baht O m	ore than 50,001 baht			
5. Educational Level	O Grade 1 - 6	O Grade 7 - 12	O Vocational degree			
	O Bachelor degree	O Master degree	O Others			
6. No. of person in h	ousehold (include inte	rviewee)p	person			
Age younger than 12	2 (# person)	male(# person)	female(# person)			
12 - 18	8 (# person)	male(# person)	female(# person)			
19 - 24	4 (# person)	male(# person)	female(# person)			
25 - 35	5 (# person)	male(# person)	female(# person)			
36 - 60	0 (# person)	male(# person)	female(# person)			
more than 60	(# person)	male(# person)	female(# person)			
7. Type of telecommunication equipment that you use						
O Fixed Line,	Use TT&T service	line, revenue per	line/monthbaht			
Use TOT serviceline, revenue per line/monthbaht						
Payment at TOT office Bank Direct debit						
If not apply for direct debit, why?						
Do you use SPC service Yes No No idea about it						
If usin	ng SPC, Which type o	of them do you use?				
	□ Waiting call	Call conference	Abbreviated Dailing			
	☐ Hot line	\Box Call transfer \Box	Automatic call repetition			
O Fax, if use	TT&T number of	lines \Box TC	OT number of lines			
🔿 Mobile phone,	\Box 800number, I	Do you have promotion	n campaign? O yes O no			

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	\Box 900number, Do you have promotion campaign? O yes O no					
	\Box GSMnumber, Do you have promotion campaign? O yes O no					
	\Box 1800number, Do you have promotion campaign? O yes O no					
÷	Average of monthly paymentbaht/number/month					
	The reason why do you use mobile phone? \Box Long distance is cheaper					
	\Box convenience \Box necessary because \Box Free office mobile phone					
	☐ If promotion campaign is expired, you will O continue to use because					
	O stop using because					
	O Pager, If use □152 □162 □1500 □1144 □1188 □142					
	O Cable T.V. Why do you subscribe cable T.V.?					
	Which company? Expense per month					
	8. Do you have computer at home? \bigcirc No \bigcirc yes, how many ?, which brand ?					
	Do you have modem with computer? \bigcirc No \bigcirc yes, how many?, Speed					
	Which telephone line you connect with modem?					
	O TT&T , how many? O TOT line, how many?					
	Why do you connect with modem?					
	\bigcirc for Internet, \Box KSC \Box LOXINFO \Box other, specific					
	Why do you use Internet? \Box Find information \Box E-mail \Box Telephone by Internet					
	\Box for shopping or other services \Box other					
	O Other, please specific					
	9. In this year, do you plan to increase or decrease the above service or not?					
	O No plan O Yes, by increase (specific) O Yes, by decrease					
	10. How do you make the long distance call?					
	\bigcirc Fixed line \bigcirc mobile phone \bigcirc public phone (by coin)					
	\bigcirc Public phone (card phone) \bigcirc Pin phone 108					
	Average per one call \bigcirc less than 3 min. \bigcirc 3 -10 min. \bigcirc more than 10 min.					
	11. Due to the economic constrained, how does the behavior of telephone usage effect you?					
	Fixed line O use less O use same, no effect O use more					

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mobile phone O use less O use same, no effect O use more
12. If the tariff of fixed line is reduced to be 3, 6, 9, 12 baht/min as same as of mobile,
you would O use fixed line as same as the past O use fixed line more
13. If the deposit of 3,000 baht is cancelled, what do you think about applying the new line?
O Interested to get more line O not interested, because you have it enough
14. If we introduce the pre-paid card and increase the value of card from paying 1,000 baht
to amount of 1,100 baht, you would ${f O}$ buy it, because ${f O}$ Not buy it , because
If buy, Which price do you interest?
□ pay 1,000 baht, get 1,100 baht □ pay 2,000 baht, get 2,250 baht
\Box pay 3,000 baht, get 3,350 baht \Box buy equal to regular monthly fee
\Box buy at price giving most discount \Box others
15. If we offer the special price, what type of the telecommunication equipment are you
interested? OFax OPager OCable TV OComputer Oother (specific)
16. Who is the most use of your fixed line? Ageyears old O male O Female
17. The most duration time of telephone usage
O 7 a.m 6 p.m. O 6 p.m 10 p.m. O 10 p.m 7 a.m.
18. How long do you use telephone per call?
O less than 3 min. O 3 -10 min. O more than 10 min.
19. Do you have phone card? O yes O no O no idea about it
20. Do you have Pin Phone 108? Oyes O no O no idea about it
If we have pin phone which you can pay after using, What do you think?
O interested O not interested
21. Have you ever try to use TT&T Smart Call? Oyes Ono Ono idea about it
If yes, which program do you like most? O Fortune teller O Match Dating
O Lotto O Information on food and beverage O talk with comedies
If we are going to sell TT&T smart call's card, Are you interested? O yes O no
What other program do you would like to have?
Other comments or suggestions on TT&T Smart Call

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22. What radio program do you usually listen? Frequency Time				
Have you ever call to the radio program? O Often $ {f O}$ sometimes $ {f O}$ never				
23. Which television program do you like most? (No. $1 = Very much$, No. $5 = Less$)				
dramaNewsGame showMusicFeature				
Have you ever call to live TV program? Often Osometimes O never				
If yes, which program Date and time when you usually watching TV				
24. Name your newspaper that you would normally read. (can select more than 1 item)				
O Thairat O Daily News O Kao Sot O Mati Chon O Ban-Muang				
O Neal-Na O Poo-Jad-Kan O Khung-tap Turakit O Than-sade-ta-kit				
25. If the monthly fee increases from 100 baht/month to 120 baht/month, you would				
O Acceptable O Unacceptable				
26. Air time charging should be correlated with:				
Within same province O no. of call O time of call				
Different province O distance and no. of call O distance and time				
27. Ranking the criteria that you concern when you want to select the telecommunication				

service provider.

......Quality of networkPriceAfter-sales servicesValue-added service

28. Please feel free to comment the rest:

	TT&T		<u>TOT</u>		
	Satisfy	Unsatisfied	Satisfy	Unsatisfied	Suggestion
Ease of line Request					
Instrallaiton quickness					
System Quality					
- Easy to connect					
- Voice clearness					
Fault Clearance Quality					
- Maintenace Quickness					
- Quality after repairing					
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	TT	<u>&T</u>	TOT		
	Satisfy	Unsatisfied	Satisfy	Unsatisfied	Suggestion
Payment collection					
- Correct Payment					<i>π</i>
- Receive on hand Bill Payment					
- Payment location (Nearby)					
- Quickness of Payment System					••••••
Message Receipt					•••••
Customer service Quality					
- Politesse					•••••
- Enthusiasm					
- Solution Providing					•••••
Office Image					

29. Please feel free to comment the rest:

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	Agree	Not sure	Not agree
TT&T is one of the company that is			
Good Fame			
Good Reliability			
Good Security			
High Technology			

Appendix B: Questionnaire for Business Customer

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1. Company Name
2. Name of interviewee
3. Type of Business No. of your employee
4. How many branch do you have? Location of head office
5. Fixed Line, Use TT&T service line, revenue per line/monthbaht
Use TOT serviceline, revenue per line/monthbaht
Payment at TOT office Bank Direct debit
If not apply for direct debit, why?
 Do you use SPC service Yes No No idea about it
If you are using SPC, Which type?
□ Waiting call □ Call conference □ Abbreviated Dailing
☐ Hot line ☐ Call transfer ☐ Automatic call repetition
6. Fax, if use
7. Mobile phone, system \Box 800number, Do you have promotion campaign? Oyes Ono
900number, Do you have promotion campaign? Oyes Ono
\Box GSMnumber, Do you have promotion campaign? Oyes Ono
\Box 1800 number, Do you have promotion campaign? Oyes Ono
Average of monthly paymentbaht/number/month
Purpose of using mobile
8. Do you have PABX in your business? O No O yes, brand name
If you use PABX, no. of external line, no. of internal Line
If you have both TT&T and TOT lines, how do you prioritize your incoming call and
outgoing call?
Does your company use the line reverse? \bigcirc Use \bigcirc Not use \bigcirc Don't know
Does your company use hunting group? \bigcirc Use \bigcirc Not use \bigcirc Don't know

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9. Please feel free to comment the rest:

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	<u>TT&T</u>	-	1 <u>1</u>	<u>TOT</u>	
	Satisfy	Unsatisfied	Satisfy	Unsatisfied	Suggestion
Ease of line Request					•••••
Instrallaiton quickness					•••••
System Quality					
- Easy to connect					•••••
- Voice clearness					•••••
Fault Clearance Quality					
- Maintenace Quickness					
- Quality after repairing					
Payment collection					
- Correct Payment					•••••
- Receive on hand Bill Paymen	it 🗖				•••••
- Payment location (Nearby)					
- Quickness of Payment System	n 🗖				
Message Receipt					
Customer service Quality					
- Politesse					•••••
- Enthusiasm]			•••••
- Solution Providing		ב			•••••
Office Image		כ			•••••
29. Please feel free to comm	ent the r	est:	l	I	
		Agree	<u>Not su</u>	re Not a	gree
TT&T is one of the company the	at is				
Good Fame					
Good Reliability					
Good Security					
High Technology					
11. How do you make the lo	ng distai	nce call?			
O Fixed line	Omo	bile phone		O Others	

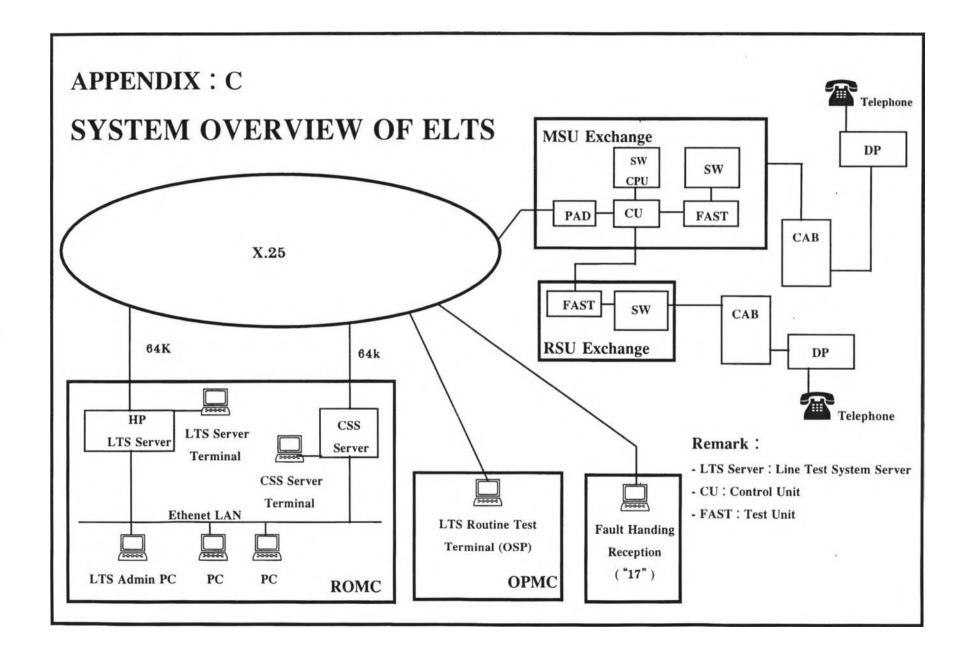
Average per one call \bigcirc less than 3 min. \bigcirc 3 -10 min. \bigcirc more than 10 min.					
12. If the tariff of fixed line is reduced to 3, 6, 9, 12 baht/min as same as mobile tariff,					
you would Ouse fixed line as same as the past Ouse fixed line more than the past					
13. Due to the economic slump, how does the behavior of your company's telephone					
usage? Fixed line O use less O no effect O use more					
Mobile phone O use less O no effect O use more					
14. Air time should be correlated with:					
Within same province O no. of call O time of call					
Different province O distance and no. of call O distance and time					
15. If the monthly fee increases from 100 baht/month to 200 baht/month, you would					
O Acceptable because O Unacceptable because					
16. If the deposit of 3,000 baht is cancelled, what do you think about applying the new					
line? O Interested to get more line O not interested, because you have it enough					
17. If we introduce the pre-paid card and increase the value of card from paying 1,000 baht					
to amount of 1,100 baht, you would OBuy it, because ONot buy it, because					
If buy, Which price do you interest?					
\Box pay 1,000 baht, get 1,100 baht \Box pay 2,000 baht, get 2,250 baht					
\Box pay 3,000 baht, get 3,350 baht \Box buy equal to regular monthly fee					
□ buy at price giving most discount □ others					
18. If we offer the special price, what type of the telecommunication equipment are you					
interested? OFax OPager OCable TV OComputer Oother (specific)					
19. Ranking the criteria that you concern when you want to select the telecommunication					
service provider.					
Quality of networkPriceAfter-sales servicesValue-added service					
20. Does your company have computer department?					
\bigcirc Yes (no. of employeepersons) \bigcirc No					
If not, How do you maintain your computer system?					
21. Does your company use LAN? O Yes O No					

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If yes, Which service provider? What type? $old O$ Corporate $old O$ individu					
, , , , , , , , , , , , , , , , , , ,	ıal				
Purpose of use					
If no, do you plan to use the Internet in this year? OYes ONo	÷				
23. Does your company has the Intranet? O No O Yes, use for	••••				
If no, How do you plan to use the Intranet in this year?	•				
24. Does your company has mobile radio or trunk radio? O No O Yes, for	•••••				
How many?set Which service provider?					
25. Telecommunication equipments.					
O Fax					
O On-line by Modem					
\bigcirc Satellite, which provider? \Box Acumen \Box Compunet \Box Samart					
Siam Sat Worldsat Usat					
How do you plan to increase or decrease satellite usage in the near future?					
O Leased Circuit Provider No. of links Speed route					
П тот					
□ CAT					
□ TT&T					
DataNet					
How do you plan to increase or decrease satellite usage in the near future?					
26. Does your company has Point of Sales or On-line Counter Service? OYes	No				
27. Do you have Cable TV in your business?					
O Yes O No, Type? O Cable O Wireless O Satellite					
	to				
28. What kind of telecommunication that your company has been used and already quit					
28. What kind of telecommunication that your company has been used and already quit use? Why?					

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BIOGRAPHY



Nuntaporn Kaewvichian was born on February 10, 1971 in Bangkok, Thailand. She obtained the Bachelor's Degree in Electrical Engineering from Chulalongkorn University in 1992 academic year. She started working at Thai Telephone and Telecommunication Company (TT&T). In 1996, she continued her graduate study in Engineering Management at the Regional Centre for Manufacturing Systems Engineering at the same university.

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