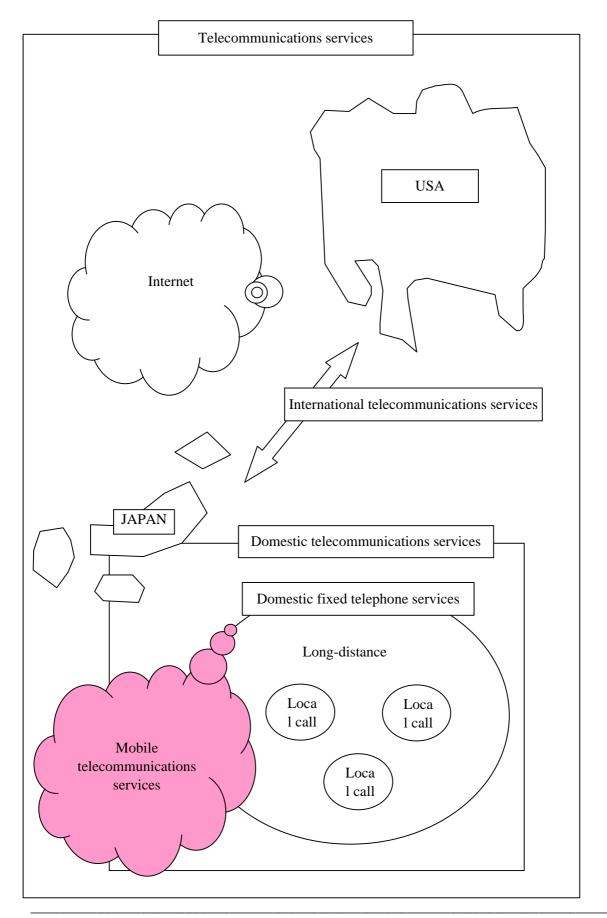
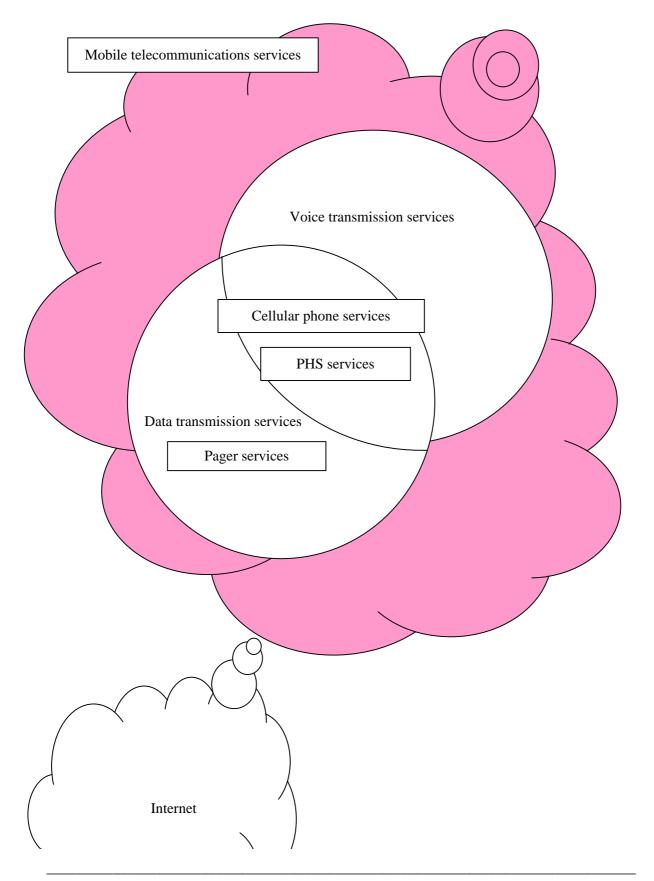
## Overview of telecommunications services in Japan



Page 23

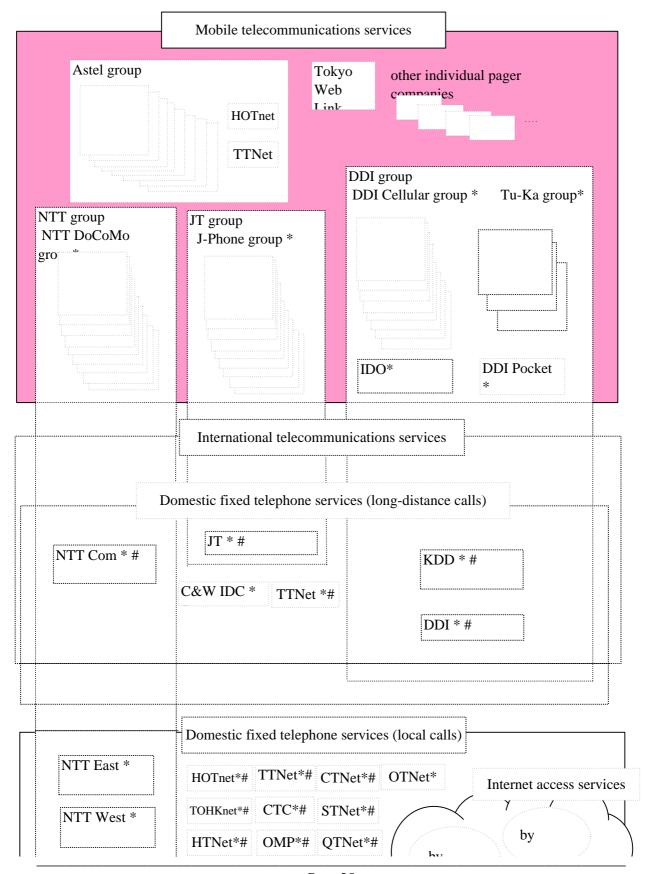
## Overview of mobile telecommunications services in Japan



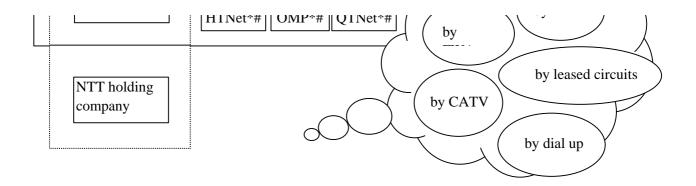
Page 24

## Industry organization

--- As of 31 August 2000 ---



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- (Notes) 1. Asterisks (\*) indicate companies providing Internet access services.
  - 2. Sharps (#) indicate companies providing ISDN.
  - 3. NTT group consists of NTT DoCoMo group, NTT Com (NTT Communications Corporation), NTT EAST (Nippon Telegraph and Telephone East Corporation),

NTT WEST (Nippon Telegraph and Telephone West Corporation),

and other telecommunications services related companies

under the NTT (Nippon Telegraph and Telephone Corporation), which is a holding company.

NTT DoCoMo group consists of NTT DoCoMo, Inc. and its eight regional subsidiaries:

NTT DoCoMo Hokkaido, Inc., NTT DoCoMo Tohoku, Inc., NTT DoCoMo Tokai, Inc.,

NTT DoCoMo Hokuriku, Inc., NTT DoCoMo Kansai, Inc., NTT DoCoMo Chugoku, Inc.,

NTT DoCoMo Shikoku, Inc., and NTT DoCoMo Kyushu, Inc.

- 4. JT group consists of J-Phone group and JT (Japan Telecom Co., Ltd.)
  - J-Phone group consists of nine companies; J-Phone Hokkaido Co., Ltd.,
  - J-Phone Tohoku Co., Ltd., J-Phone Tokyo Co., Ltd., J-Phone Hokuriku Co., Ltd.,
  - J-Phone Tokai Co., Ltd., J-Phone Kansai Co., Ltd., J-Phone Chugoku Co., Ltd.,
  - J-Phone Shikoku Co., Ltd., and J-Phone Kyushu Co., Ltd., divided by the service area.
- 5. DDI group consists of DDI Cellular group, Tu-Ka group, IDO (IDO Corporation), DDI Pocket (DDI Pocket Inc.), KDD (Kokusai Denshin Denwa Co., Ltd.), and DDI (DDI Corporation).
  - DDI Cellular group consists of eight companies; Kansai Cellular Telephone Co.,
  - Kyushu Cellular Telephone Co., Chugoku Cellular Telephone Co., Tohoku Telephone Co.,

Hokkaido Cellular Telephone Co., Hokuriku Cellular Telephone Co., Shikoku Cellular Telephone and Okinawa Cellular Telephone Co., divided by the service area.

- Tu-Ka group consists of three companies; Tu-Ka Phone Tokyo Inc., Tu-Ka Phone Kansai Inc., and Tu-Ka Cellular Tokai Inc., divided by the service area.
- 6. Astel group consists of 10 companies; Hokkaido Telecommunication Network Co., Inc. (HotNet), Astel Tohoku, Tokyo Telecommunication Network Co., Inc. (TTNet), Astel Chubu, Astel Kansai, Astel Hokuriku, Astel Chugoku, Astel Shikoku, Astel Kyushu, and Astel Okinawa, divided by the service area.
- 7. "Tokyo Web Link" stands for Tokyo Web Link Inc.
- 8. "C&W IDC" stands for Cable & Wireless IDC Inc.
- 9. "HOTnet" stands for Hokkaido Telecommunication Network Co., Inc..
- 10. "TOHKnet" stands for Tohoku Intelligent Telecommunication Network Co., Inc.
- 11. "HTNet" stands for Hokuriku Telecommunication Network Co., Inc.
- 12. "TTNet" stands for Tokyo Telecommunication Network Co., Inc.
- 13. "CTC" stand for Chubu Telecommunications Co., Inc.
- 14. "OMP" stands for Osaka Media Port Corporation.
- 15. "CTNet" stands for Chugoku Telecommunication Network Co., Inc.
- 16. "STNet" stands for Shikoku Information and Telecommunication Network Co., Inc.
- 17. "QTNet" stands for Kyushu Telecommunication Network Co., Inc.

- 18. "OTNet" stands for Okinawa Telecommunication Network Co., Inc.
- 19. "FWA" stands for fixed wireless access, which is one of the radio telecommunications systems used for fixed telecommunications services.
- 20. "xDSL" stands for x digital subscriber line, which is a general term for the high-speed transmissio method uses a copper feeder. "Asymmetric digital subscriber line (ADSL),"
  - which is a format of xDSL, is a high-speed data transmission service that has recently started in Jaj
- 21. "CATV" stands for the network used for cable television broadcasting.

## Services provided

	Major types of	(Reference)	
Condition	Voice transmission	Data transmission	Infrastructure used in the network
Mobile	Domestic telephone International telephone	Internet access services E-mail services Mail services between mobile equipment	Wireless telecommunications  PDC cdmaOne PHS  Wired telecommunications  Copper feeder Fiber feeder

## (Reference)

	Major types of	(Reference)		
Condition	Voice transmission	Data transmission	Infrastructure used in the network	
Fixed	Domestic telephone Internet access services International telephone E-mail services		Wireless telecommunications FWA Wired telecommunications Copper feeder Fiber feeder ISDN CATV	
		stic leased circuits	xDSL	
	International leased circuits		Internet	
Connection	Access charges			
	Credit transfer type connection charges			

- (Notes) 1. For details of the infrastructure used in the "network" of mobile telecommunications servi see Appendix 7.
  - 2. "ISDN" stands for Integrated Services Digital Network.

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		Publication structure and rela	ttionship to t	he CPC		T
CSP	I classifi	cation			(Re:	ference)
//ai	or group					,
viaj	Group		CPC	ISIC	JSIC	Japan's
		h	Ver.1.0	Rev.3	JSIC	I-O Tables
	Sui	bgroup Itam	ver.1.0	Kev.5		1-O Tables
,		Item				
on		ions and broadcasting				
		nications				
	Pos	stal services	6811	6411	461	7311-011
		Letters				
		Postcards				
		Other postal services				
	Do	emestic and international telecommunications services	8411,8420	6420	4711	7312-011,7312-03
		Domestic fixed telephone services			4712	
		International fixed telephone services			472	
		ISDN (Integrated Services Digital Network)				
		Data transmission services				
		Domestic leased circuits				
	3.5	International leased circuits	0.412	6.420	4510	5010.001
	Mo	bbile telecommunications services	8412	6420	4713	7312-021
		Cellular phone services				
		PHS (Personal Handyphone System) services				
		Pager services				
	Ac	cess charges		6420	4719	7312-011,7312-02
		Access charges				
	Broadca	asting				
	Cal	ble broadcasting	8411	6420	813	7321-031
		Cable broadcasting				
	(N	Totes) 1. "CPC Ver.1.0" stands for Central Product Classific	cation (CPC) Ver	sion 1.0.		
		The numbers are the four-digit code numbers of the				
		2. "ISIC Rev.3" stands for International Standard Indus		n of All Ec	onomic A	Activities (ISIC Rev.3
		The numbers are the code numbers of the ISIC Rev 3	<del></del>	. 1 11 .1	G	D.
		3. "JSIC" stands for latest Japan's Standard Industrial C				cs Bureau,
		Management and Coordination Agency, Governmen The numbers are the code numbers of the JSIC.	ıı oı japan, in Oct	ober 1993. 		
		4. "Japan's I-O Tables" stands for 1995 Japan's Input-O	utnut Tahles puhl	ished by th	e Statistic	rs Bureau
		Management and Coordination Agency, Governmen			Statistic	os Durcau,
		The numbers are the row code numbers of basic sec	•		5 I-O Tal	bles.

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## Definition of the publication structure

--Definition of items in mobile telecommunications services--

1. Cellular phone services

Cellular phone services	
Call from	То
Cellular phone	Cellular phone (same company)
	Cellular phone (same group company) 1
	Cellular phone (different company) <sup>2</sup>
	PHS (same company)
	PHS (same group company)
	PHS (different company)
	Domestic fixed telephone
	Domestic fixed telephone by ISDN
	Cellular phone (same company or same group company
Cellular phone in a foreign country by roami	ng in a foreign country by roaming <sup>3</sup>
	Cellular phone (same company) in Japan <sup>3</sup>
	Cellular phone (same group company) in Japan <sup>3</sup>
	Fixed telephone in foreign country <sup>3</sup>
Domestic fixed telephone	Cellular phone
Domestic fixed telephone by ISDN	

(Notes)1,2. Calls to a cellular phone, prepared by the same group company or a different company, are included in the price data surveyed from company the caller is using, although the sales are split between the calling company and the receiving company based on an initial agreement called the "credit transfer type connecting rule" described in Reference 2-(a) of this Appendix.

This is because the calling company collects the charge, including the charge for the networks owned by the receiving company, based on the agreement.

3. Shadowed services are not included in cellular phone services yet.

2. PHS (Personal Handyphone System) services

Call from	То
PHS	PHS (same company)
	PHS (same group company)
	PHS (different company)
	Cellular phone (same company)
	Cellular phone (same group company)
	Cellular phone (different company)
	Domestic fixed telephone
	Domestic fixed telephone by ISDN
Domestic fixed telephone	PHISe 29

1
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3. Pager services

Call from	То
Pager	Pager (same company)
	Pager (same group company)
PHS (same company)	Pager
PHS (same group company)	
PHS (different company)	
Cellular phone (same company)	
Cellular phone (same group company)	
Cellular phone (different company)	
Domestic fixed telephone	
Domestic fixed telephone by ISDN	

## (Reference)

1. Definition of other telecommunications services items in the CSPI

(a) Domestic fixed telephone services

Call from	То
Domestic fixed telephone	Domestic fixed telephone
	Domestic fixed telephone by ISDN
	Cellular phone <sup>4</sup>
	PHS <sup>5</sup>

(Notes)4,5. Shadowed service are not included in domestic fixed telephone services.

Calls to cellular phones are included in cellular phone services.

Calls to PHS are included in PHS services.

(b) ISDN (Integrated Services Digital Network)

Call from	То
Domestic fixed telephone by ISDN	Domestic fixed telephone by ISDN
	Domestic fixed telephone
	Cellular phone <sup>6</sup>
	PHS <sup>7</sup>

(Notes)6,7. Shadowed service are not included in domestic fixed telephone services, because calls to cellular phones are included in cellular phone services, and calls to PHS are included in PHS services.

(c) International fixed telephone services

Call from	То
Domestic fixed telephone	fixed telephone in a foreign country
Domestic fixed telephone by ISDN	
Cellular phone	Page 30

PHS		
Fixed telephone in a foreign country <sup>8,9</sup>	Domestic fixed telephone <sup>8</sup>	
	Domestic fixed telephone by ISDN <sup>9</sup>	

(Note)8,9. Shadowed service————— are not included in international fixed telephone services, because export services are not covered by the CSPI.

They might be included in the foreign countries' statistics as imported services.

(d) Access charges

Access charges			
Call from	То		
Cellular phone <sup>10</sup>	PHS (same group company) 10		
	PHS (different company) 10		
	Domestic fixed telephone <sup>10</sup>		
	Domestic fixed telephone by ISDN <sup>10</sup>		
PHS <sup>11</sup>	PHS (same group company) 11		
	PHS (different company) 11		
	Cellular phone (same group company) 11		
	Cellular phone (different company) 11		
	Domestic fixed telephone <sup>11</sup>		
	Domestic fixed telephone by ISDN <sup>11</sup>		
Domestic fixed telephone <sup>12</sup>	Domestic fixed telephone (same group company) 12		
	Domestic fixed telephone (different company) <sup>12</sup>		
	Cellular phone <sup>13</sup>		
	PHS <sup>13</sup>		
Domestic fixed telephone by ISDN <sup>14</sup>	Cellular phone <sup>14</sup>		
	PHS <sup>14</sup>		
Domestic fixed telephone <sup>15</sup>	Fixed telephone in a foreign country <sup>15</sup>		
Domestic fixed telephone by ISDN <sup>15</sup>			
Cellular phone <sup>15</sup>			
PHS <sup>15</sup>			
Fixed telephone in a foreign country <sup>16,17</sup>	Domestic fixed telephone <sup>16</sup>		
	Domestic fixed telephone by ISDN <sup>17</sup>		

## (Notes)10. Access charges are paid by cellular phone companies

to PHS services companies or domestic fixed telephone services companies.

- 11. Access charges are paid by PHS services companies to PHS services companies, cellular phone services companies, or domestic fixed telephone services companies.
- 12. Access charges are paid by domestic fixed telephone services companies (same group company or different company), which provide long-distance call services, to domestic fixed telephone services companies, which provide local call services.
- 13. Access charges are paid by cellular phone or PHS services companies to domestic fixed telephone services companies.
- 14. Access charges are paid by cellular phone or PHS services companies to domestic fixed telephone services companies, which provide the services by ISDN.
- 15. Access charges are paid by international fixed telephone services companies to domestic fixed telephone services companies, cellular phone services companies, or PHS services companies

because export services are not covered by the CSPI. They might be included in the foreign countries' statistics as imported services.

- 2. Other connecting related services not included in the CSPI
- (a) Credit transfer type connection charges

Call from	То
Cellular phone <sup>18</sup>	Cellular phone (same group company) <sup>18</sup>
	Cellular phone (different company) 18

(Notes)18. There is a point of interface between calling company and receiving company, which is the end of network for each company. Both companies have an agreement to connect their networks for the customers and to charge to the customers.

That is the "credit transfer type connection rule."

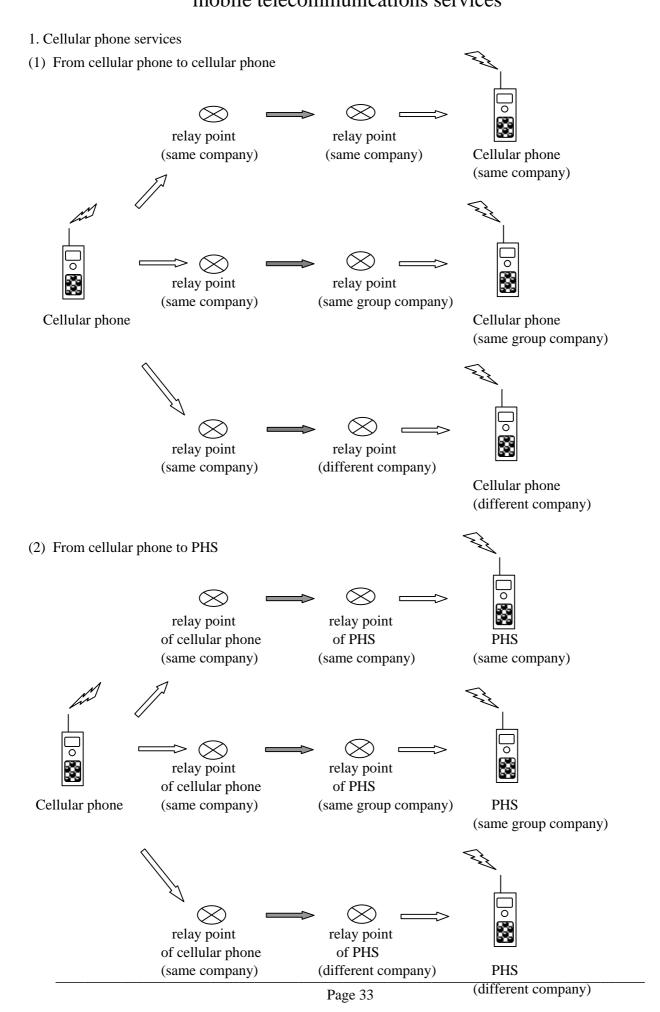
Calling company collects bills from customers, including bill for receiving company.

Collected bills are paid by calling companies to receiving companies later.

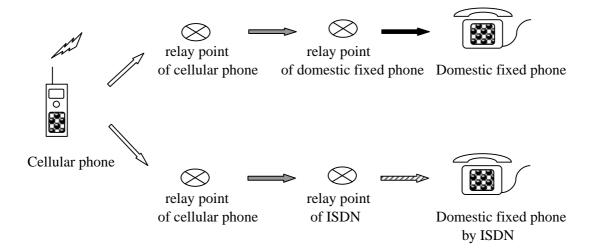
The difference between the "charges based on the credit transfer type of connection rule" and the "access charges" is the counting method to the annual report, such as balance sheet,

profit and loss statement. The function to connect networks between two companies is the same.

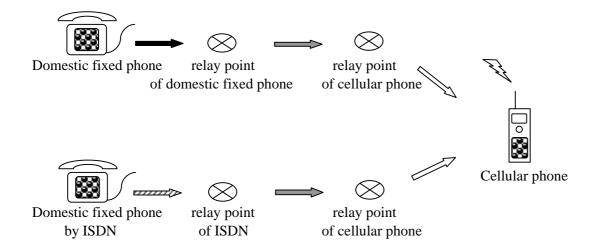
# Infrastructure used in the "network" of (Appendix 7) mobile telecommunications services



## (3) From cellular phone to domestic fixed phone

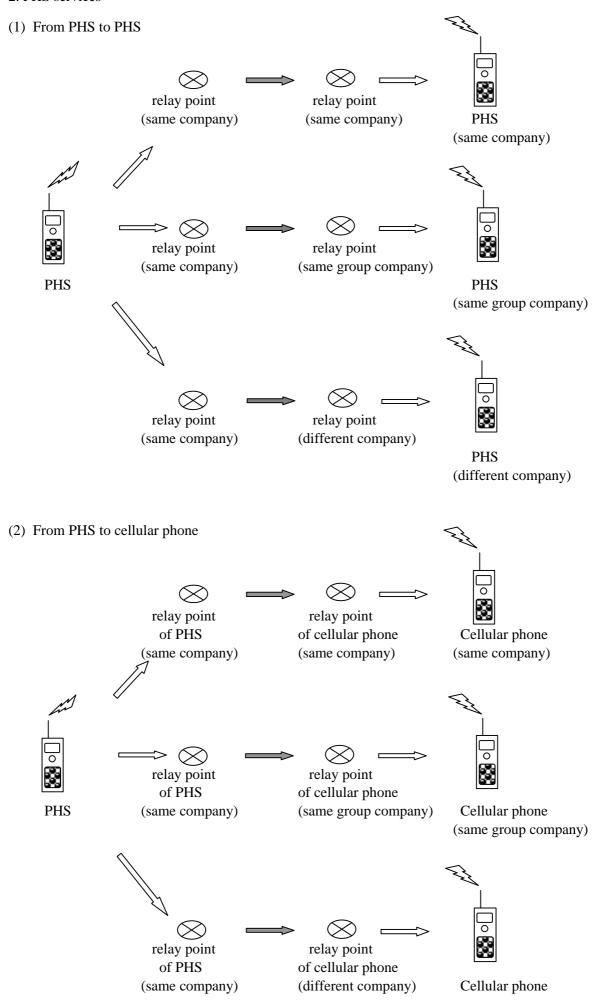


## (4) From domestic fixed phone to cellular phone



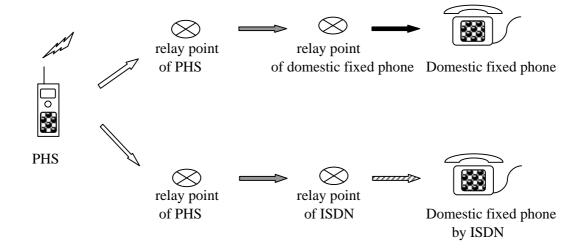
(Notes) 1. Arrows indicate wireless telecommunications.
 2. Arrows indicate wireless or wired telecommunications.
 3. Arrows indicate wired telecommunications.
 4. Arrows indicate wired telecommunications by ISDN.

## 2. PHS services

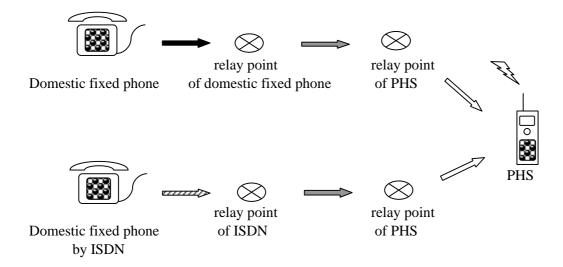


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## (3) From PHS to domestic fixed phone



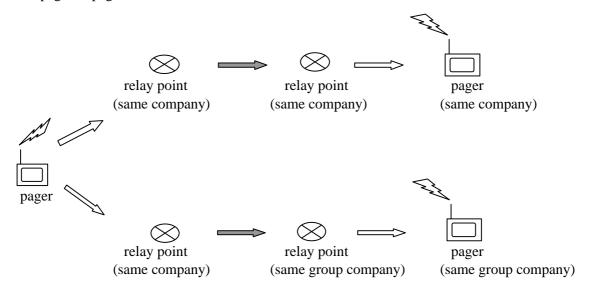
## (4) From domestic fixed phone to PHS



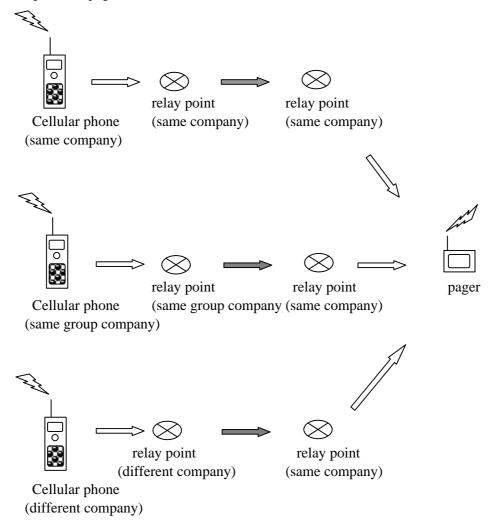
(Notes) 1. Arrows indicate wireless telecommunications.
 2. Arrows indicate wireless or wired telecommunications.
 3. Arrows indicate wired telecommunications.
 4. Arrows indicate wired telecommunications by ISDN.

## 3. Pager services

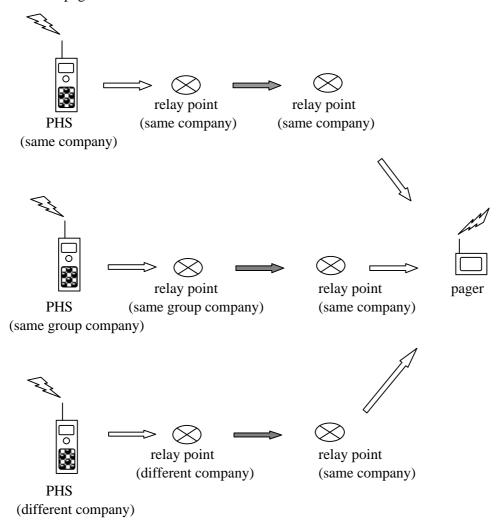
## (1) From pager to pager



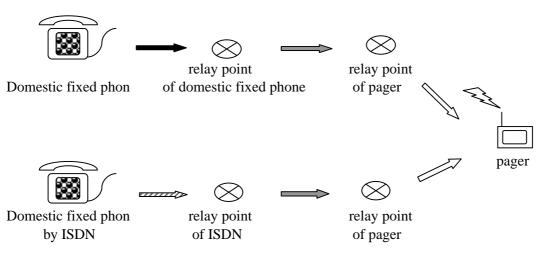
## (2) From cellular phone to pager



## (3) From PHS to pager



## (4) From domestic fixed phone to pager



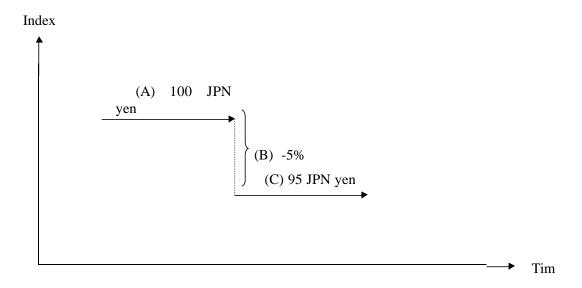
(Notes) 1. Arrows indicate wireless telecommunications.

2. Arrows indicate wireless or wired telecommunications.

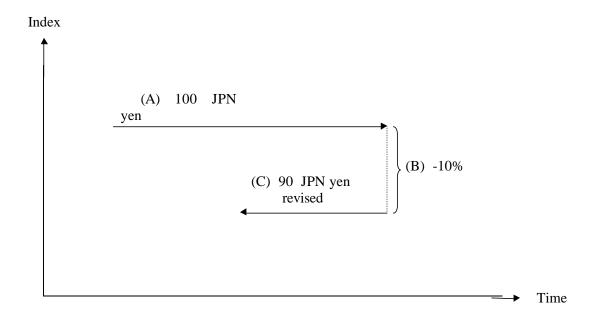
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- 3. Arrows indicate wired telecommunications.
- 4. Arrows indicate wired telecommunications by ISDN.

Example 1: A scheme for reflecting discounts "on a real time basis"



Example 2: A scheme for reflecting discounts "on a retroactive basis"



.....

## Example of price data including discounts

(Cellular phone services)

(Cellular phone services)  Basic fare Per call charges							
Year/month	Regular price	Basic fare Discount rate	Price data for the CSPI	Regular price	Changes in regular price	Discount rate	Price data for the CSPI
	units: JPN yen	units: %	units: JPN yen	units: 1995/1=1,000.00 JPN yen	units: %	units: %	units: JPN yen
1995.01	7,000.00	0.0	7,000.00	1,000.00		0.0	1,000.00
1995.02	7,000.00	0.0	7,000.00	1,000.00		0.0	1,000.00
1995.03 1995.04	7,000.00 7,000.00	0.0	7,000.00 7,000.00	1,000.00 1,000.00		0.0	1,000.00 1,000.00
1995.05	7,000.00	0.0	7,000.00	1,000.00		0.0	1,000.00
1995.06	6,800.00	0.0	6,800.00	1,000.00		0.0	1,000.00
1995.07	6,800.00	0.0	6,800.00	1,000.00		0.0	1,000.00
1995.08	6,800.00	0.0	6,800.00	850.00	-15.0	0.0	850.00
1995.09 1995.10	6,800.00 6,800.00	-3.0 -3.0	6,596.00 6,596.00	850.00 850.00		0.0	850.00 850.00
1995.10	6,800.00	-3.0	6,596.00	850.00 850.00		0.0	850.00 850.00
1995.12	6,800.00	-3.0	6,596.00	850.00		0.0	850.00
1996.01	6,000.00	-3.0	5,820.00	850.00		0.0	850.00
1996.02	6,000.00	-3.0	5,820.00	850.00		-0.1	849.15
1996.03	6,000.00	-3.0	5,820.00	850.00		-0.1	849.15
1996.04 1996.05	6,000.00 6,000.00	-3.0 -3.0	5,820.00 5,820.00	850.00 850.00		-0.1 -0.1	849.15 849.15
1996.06	6,000.00	-3.0	5,820.00	782.00	-8.0	-0.1	781.22
1996.07	6,000.00	-3.0	5,820.00	782.00		-0.1	781.22
1996.08	6,000.00	-5.0	5,700.00	782.00		-0.1	781.22
1996.09	6,000.00	-5.0	5,700.00	782.00		-0.1	781.22
1996.10	6,000.00	-5.0	5,700.00	703.80	-10.0	-0.1	703.10
1996.11 1996.12	6,000.00 5,500.00	-5.0 -5.1	5,700.00 5,219.50	703.80 703.80		-0.1 -0.1	703.10 703.10
1997.01	5,500.00	-5.1	5,219.50	703.80		-0.1	703.10
1997.02	5,500.00	-5.1	5,219.50	612.31	-13.0	-0.3	610.47
1997.03	5,500.00	-5.1	5,219.50	612.31		-0.3	610.47
1997.04	5,500.00	-5.1	5,219.50	612.31		-0.3	610.47
1997.05	5,500.00	-5.1	5,219.50	612.31		-0.3	610.47
1997.06 1997.07	5,500.00 5,500.00	-5.1 -5.1	5,219.50 5,219.50	612.31 612.31		-0.3 -0.3	610.47 610.47
1997.08	5,500.00	-5.1	5,219.50	612.31		-0.3	610.47
1997.09	4,800.00	-5.1	4,555.20	612.31		-0.3	610.47
1997.10	4,800.00	-5.1	4,555.20	612.31		-0.3	610.47
1997.11	4,800.00	-5.1	4,555.20	612.31		-0.3	610.47
1997.12 1998.01	4,800.00 4,800.00	-5.1 -5.1	4,555.20 4,555.20	612.31 612.31		-0.3 -0.3	610.47 610.47
1998.01	4,800.00	-5.1 -5.1	4,555.20	520.46	-15.0	-0.5	517.86
1998.03	4,800.00	-5.5	4,536.00	520.46		-0.5	517.86
1998.04	4,800.00	-5.5	4,536.00	520.46		-0.5	517.86
1998.05	4,800.00	-5.5	4,536.00	520.46		-0.5	517.86
1998.06	4,800.00		4,536.00	520.46		-0.5	517.86
1998.07 1998.08	4,800.00 4,800.00	-5.5 -5.5	4,536.00 4,536.00	520.46 520.46		-0.5 -0.5	517.86 517.86
1998.09	4,800.00	-5.5	4,536.00	520.46		-0.5	517.86
1998.10	4,800.00	-5.5	4,536.00	520.46		-0.5	517.86
1998.11	4,800.00	-5.5	4,536.00	520.46		-0.5	517.86
1998.12	4,800.00	-5.5	4,536.00	520.46		-0.5	517.86
1999.01 1999.02	4,800.00	-5.5 5.5	4,536.00	520.46		-0.5	517.86
1999.02	4,800.00 4,800.00	-5.5 -5.5	4,536.00 4,536.00	520.46 520.46		-2.0 -2.0	510.05 510.05
1999.03	4,800.00	-5.5	4,536.00	520.46		-2.0	510.05
1999.05	4,800.00	-5.5	4,536.00	520.46		-2.0	510.05
1999.06	4,800.00	-5.5	4,536.00	520.46		-2.0	510.05
1999.07	4,800.00	-5.8	4,521.60	520.46		-2.0	510.05
1999.08	4,800.00 4,800.00	-5.8	4,521.60 4,521.60	520.46		-2.0	510.05
1999.09 1999.10	4,800.00	-5.8 -5.8	4,521.60	520.46 520.46		-2.0 -2.0	510.05 510.05
1999.11	4,800.00	-5.8	4,521.60	520.46		-2.0	510.05
1999.12	4,800.00	-5.8	4,521.60	520.46		-2.0	510.05
2000.01	4,800.00	-5.8	4,521.60	520.46		-2.0	510.05
2000.02	4,800.00	-5.8	4,521.60	520.46		-4.0	499.64
2000.03	4,800.00	-5.8	4,521.60	520.46		-4.0	499.64
2000.04 2000.05	4,800.00 4,800.00	-5.8 -5.8	4,521.60 4,521.60	520.46 520.46		-4.0 -4.0	499.64 499.64
2000.03	4,800.00	-5.8	4,521.60	520.46		-4.0	499.64
2000.07	4,800.00	-5.8	4,521.60	520.46		-4.0	499.64
2000.08	4,800.00	-5.8	4,521.60	520.46		-4.0	499.64

(Note) The "changes in regular price" for per call charges in this example shows the "average revision rate of price table," which is described in the main text column VIII.

## SAMPLE WORKSHEET WIRELESS TELECOMMUNICATIONS (EXCEPT PAGING ) WORKSHEET

## PART I: AVERAGE UNIT PER ACCESS LINE

List all types of charges assessed by company for the selected area in column 1. Enter the total number of units for each type of charge in column 2. Enter the total number of access lines in column 3. Divide column 2 by column 3 and enter in column 4. The reporter may be reluctant to provide data for the columns 2 and 3. If the reporter will calculate the percentages, it is only necessary to fill out columns 1 and 4.

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4 (COLUMN 2/COLUMN 3)
TYPE OF CHARGE	TOTAL UNITS: BILLED AND FREE	TOTAL NUMBER OF ACCESS LINES	AVERAGE NUMBER PER ACCESS LINE
ACCESS LINE			1.0000* *BY DEFINITION
USAGE CHARGE BASED ON	TIME		22 222 232 233
Peak minutes Off-peak minutes Roaming minutes Landline minutes Other charges	32,400,000 26,600,000 _2,000,000		<u>162</u>
USAGE CHARGES OTHER TH	AN TIME		
Landline, per call	400,000	200,000	<u>2</u>
Other charges, _Daily rate	200,000	200,000	<u>1</u>
FEATURES/OPTIONS AND F	EATURE PACKAGES		
Custom calling package	130,000	200,000	0.65
Call waiting	40,000	200,000	0.20
Call forwarding	20,000	200,000	0.10
3-way conference	10,000	200,000	0.05
No answer transfer	20,000	200,000	0.10
Voice messaging	40,000	200,000	0.20

## WIRELESS TELECOMMUNICATIONS (EXCEPT PAGING) WORKSHEET

## PART II: AVERAGE REVENUE PER UNIT

Copy all the charges in Part I, column I to Part II, column I. Obtain the net billed revenues for each type of charge and divide by the total quantity used of each charge.  $\mathbf{OR}$ 

The reporter may be reluctant to provide data for columns 2 and 3. If the reporter will calculate the average revenue, it is only necessary to fill columns 1 and 4.

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4 (COLUMN 2/COLUMN 3)
TYPE OF CHARGE	TOTAL NET:	TOTAL UNITS:	AVERAGE REVENUE
	BILLED REVENUE	BILLED AND FREE	PER UNIT
ACCESS LINE	_5,350,600	200,000	26.7530
		<u></u>	
USAGE CHARGE BASED ON	TIME		
Peak minutes	_8,388,360	32,400,000	0.2589
Off-peak minutes	<u>2,191,840</u>	26,600,000	0.0824
Roaming minutes	<u>1,944,400</u>	<u>2,000,000</u>	0.9722
Landline minutes			
Other charges			
USAGE CHARGES OTHER TH	HAN TIME		
Landline, per call	60,000	400,000	0.1500
Other charges,			
_Daily rate	300,000	200,000	1.5000
FEATURES/OPTIONS AND I	FEATURE PACKAGES		
Custom call package	449,800	130,000	3.4600
Call waiting	194,000	40,000	4.8500
Call forwarding	103,000	20,000	5.1500
_			
3-way conference	<u>57,500</u>	10,000	5.7500
No answer transfer_	85,000	20,000	4.2500
Voice messaging	192,000	40,000	4.8000

## WIRELESS TELECOMMUNICATIONS (EXCEPT PAGING) WORKSHEET

## PART III: COMPUTE AVERAGE REVENUE BILL

Copy all the types of charges in Part I, column 1 to Part III, column 1. Copy average number per access line from part I, column 4 to Column 2. Copy average revenue per unit from part II, column 4. Multiply column 2 by column 3 and enter in column 4. Sum column 4 to base period total or "price".

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4 (COLUMN 2 X COLUMN 3)
TYPE OF CHARGE	AVERAGE NUMBER PER ACCESS LINE (Part I, Col 4)	AVERAGE REVENUE: PER UNIT (Part II, Col 4)	WEIGHTED REVENUE
ACCESS LINE	1.000	26.7530	26.7530
USAGE CHARGE BASED ON T	IME		
Peak minutes Off-peak minutes Roaming minutes Landline minutes Other charges	<u>162</u> <u>133</u> <u>10</u>	0.2589 0.0824 0.9722	41.9418 10.9592 9.7220
USAGE CHARGES OTHER THA	N TIME		
Landline, per call Other charges, _Daily rate	2 1	0.1500 1.5000	
	<del>-</del>		
FEATURES/OPTIONS AND FE	ATURE PACKAGES		
Custom calling_package	<u>0.65</u>	<u>3.4600</u>	2.2490
Call waiting	0.20	4.8500	0.9700
Call forwarding	0.10	5.1500	0.5150
3-way conference	0.05	5.7500	0.2875
No answer transfer_	0.10	4.2500	0.4250
Voice messaging	0.20	4.8000	0.9600
BASE PERIOD TOTAL			<u>97.0686</u>

#### PAGING WORKSHEET

#### INSTRUCTION FOR WORKSHEET LISTED ON FOLLOWING PAGES

#### PART I: AVERAGE UNITS PER SUBSCRIPTION

- -List all types of charges assessed by company for the selected service type in column 1.
- -Enter the total number of units for each type of charge in column 2.
- -Enter the number of subscriptions in column 3.
- -Divide column 2 by column 3 and enter in column 4.(see sample)

#### OR

The reporter may be reluctant to provide billed units or/and the number of subscriptions. If the reporter calculates the percentages, it is only necessary to fill out columns 1 and 4.

#### PART II: AVERAGE REVENUE PER UNIT

- -List all types of charges assessed by the company for the selected service type in column 1.
- -Enter the total net billed revenue in column 2
- -Enter the total number of units, billed and free, in column 3.
- -Divide column 2 by column 3 and enter in column 4.

#### OR

The reporter may be reluctant to provide units and subscriptions. If the reporter will calculate the average revenue, it is only necessary to fill out columns 1 and 4.

### PART III: COMPUTATION OF THE AVERAGE REVENUE BILL

- -List all types of charges assessed by the company for the service type in column 1.
- -Enter the average per subscription from Part I, column 4, in column 2.
- -Enter the average revenue per unit from Part II, column 4, in column 3,
- -Multiply column 2 by column 3 and enter in column 4
- -Sum Part III BASE PERIOD TOTAL or "price".

## SAMPLE WORKSHEET PAGING WORKSHEET

PARTI COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4 (COLUMN 2/COLUMN 3)
TYPE OF CHARGE	TOTAL UNITS: BILLED AND FREE	TOTAL NUMBER OF SUBSCRIPTIONS	WEIGHT AVE.#/SUBSCRIPTION
SUBSCRIPTIONS			1.0000*
PAGES + OVERPAGES	_6,125,000		*BY DEFINITION175
FEATURES/OPTIONS AND	FEATURE PACKAGES		
Custom greeting	5,000	35,000	0.1429
Voice mail	25,000	35,000	0.7143
Message retrieval	30,000	35,000	0.8571
			_
PART II: COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4 (COLUMN 2/COLUMN 3)
TYPE OF CHARGE	TOTAL NET BILLED REVENUE	TOTAL UNITS: BILLED AND FREE	WEIGHTED AVERAGE REVENUE
SUBSCRIPTIONS	551,250	35,000	15.7500
PAGES + OVERPAGES	131,250	6,125,000	0.0214
FEATURES/OPTIONS AND	FEATURE PACKAGES		
Custom greeting	131,250	35,000	3.7500
Voice mail	288,750	35,000	8.2500
Message retrieval	<u>87,500</u>	35,000	2.5000

## SAMPLE WORKSHEET PAGING WORKSHEET

## **PART III:**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4 (COLUMN 2 X COLUMN 3)
TYPE OF CHARGE	WEIGHT: AVG # PER SUBSCRIPTION	AVERAGE REVENUE: PER UNIT	TOTALS
SUBSCRIPTIONS	1.000	15.7500	15.7500
PAGES + OVERPAGES	175.000	0.0214	3.7450
FEATURES/OPTIONS AND F	EATURE PACKAGES		
Custom greeting	0.1429	3.7500	0.5359
Voice mail	0.7143	8.2500	5.8930
Message retrieval	0.8751	2.5000	2.1428
BASE PERIOD TOTAL			28.0667