

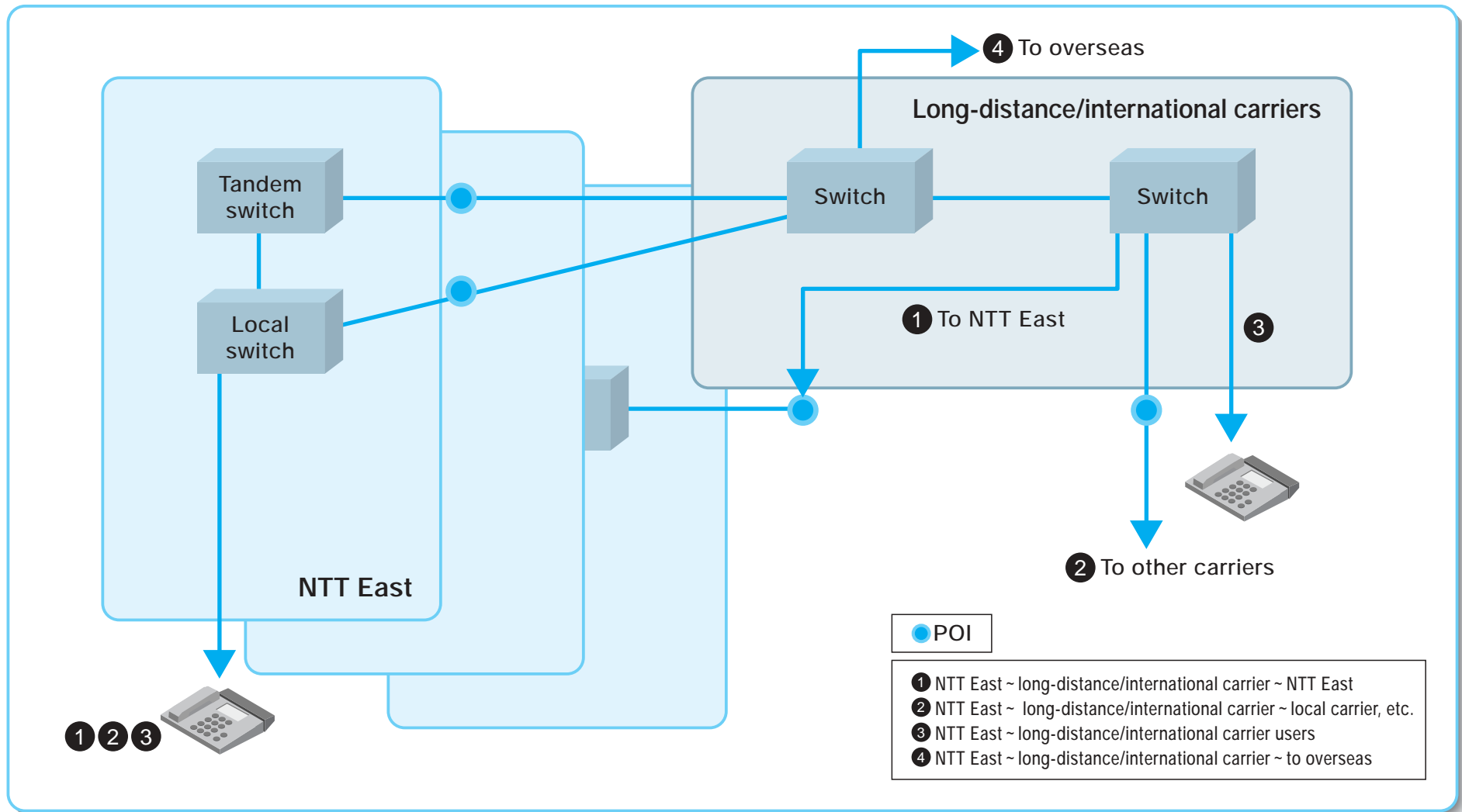
# Chapter 1

---

## Telephone Network Interconnection

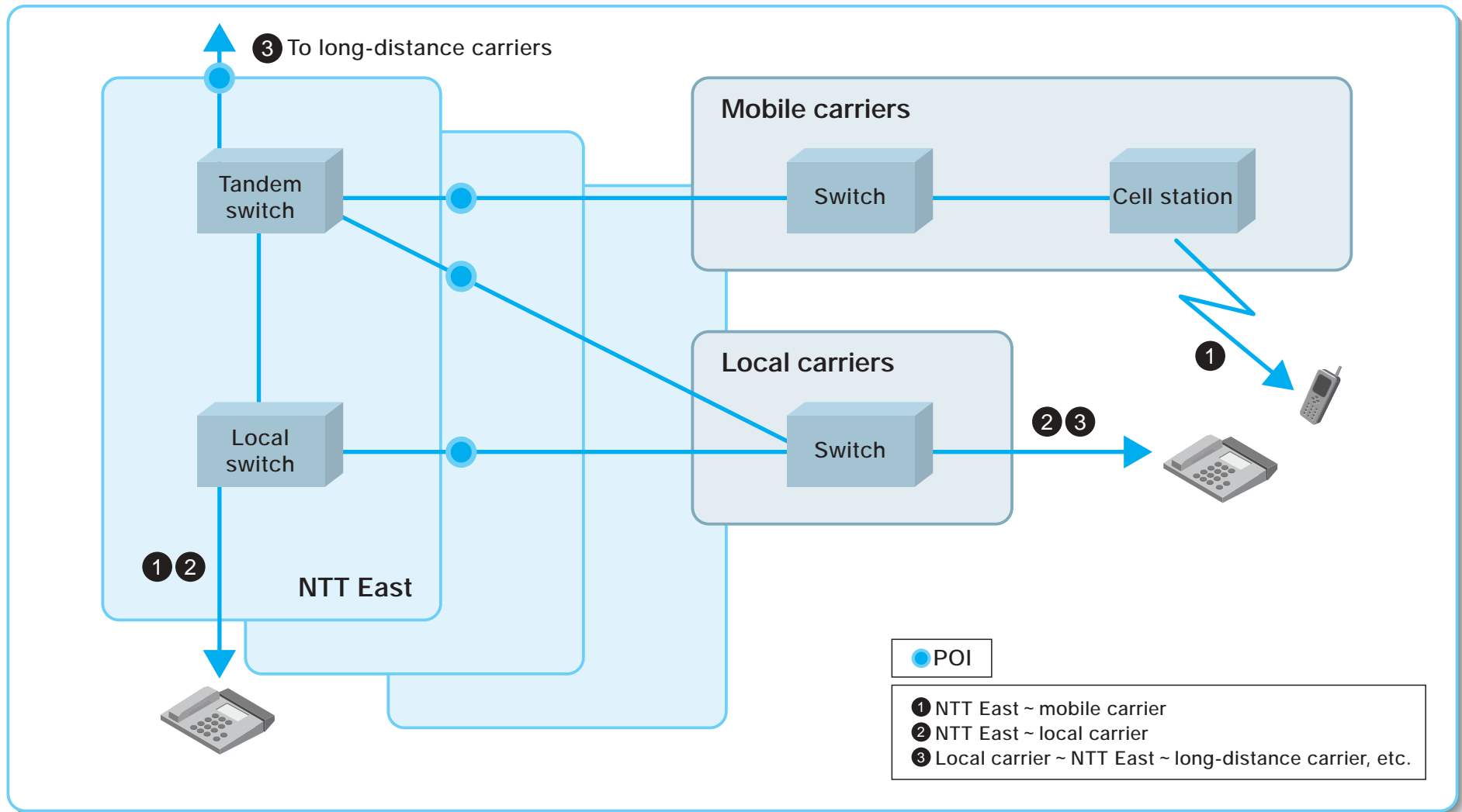
# - 1 Typical Patterns of Interconnection: Example of Interconnection with Long-Distance and International Carriers

The typical pattern of interconnection with long-distance and international carriers is shown below:



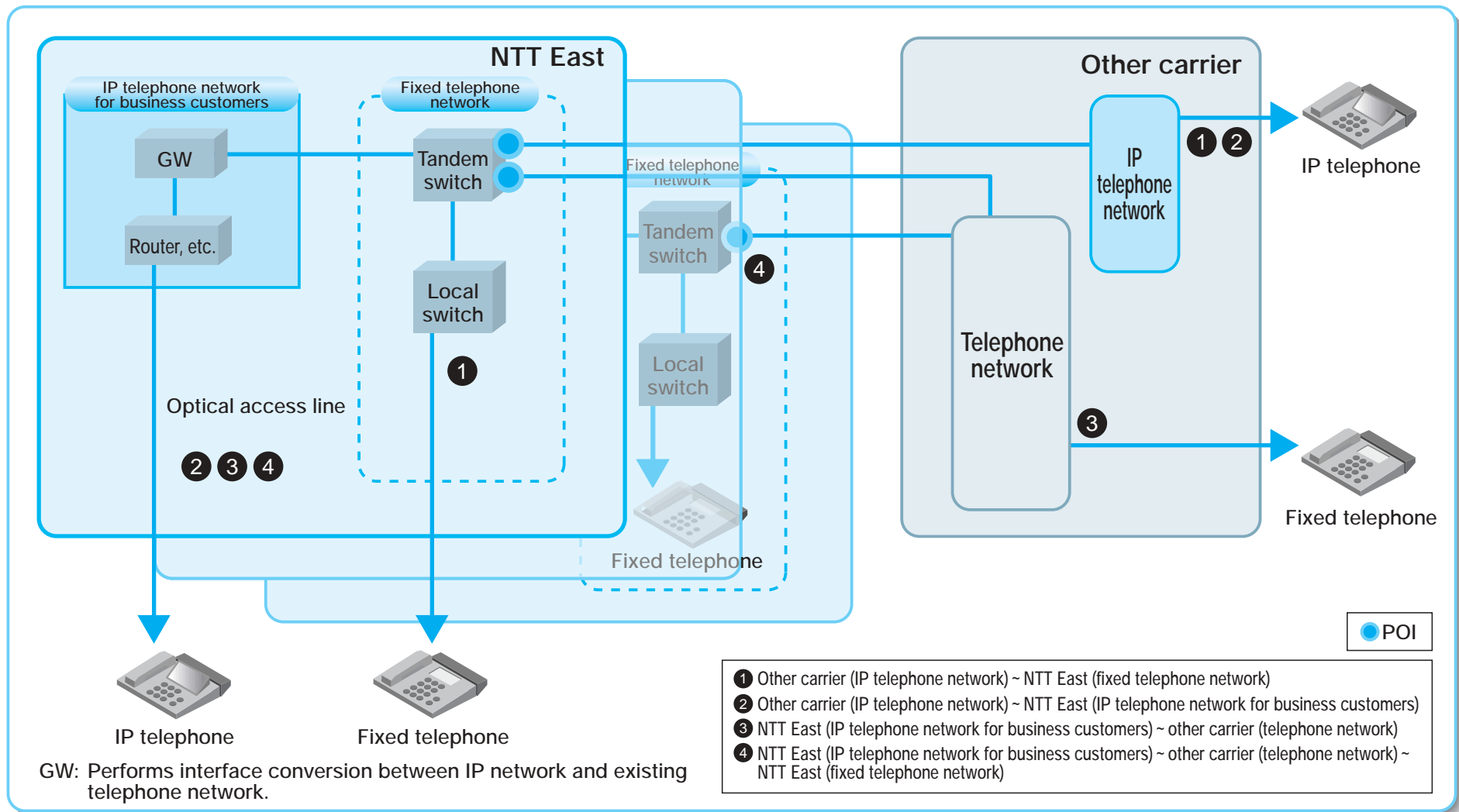
# - 2 Typical Pattern of Interconnection: Example of Interconnection with Mobile and Local Carriers

The typical pattern of interconnection with mobile and local carriers is shown below:



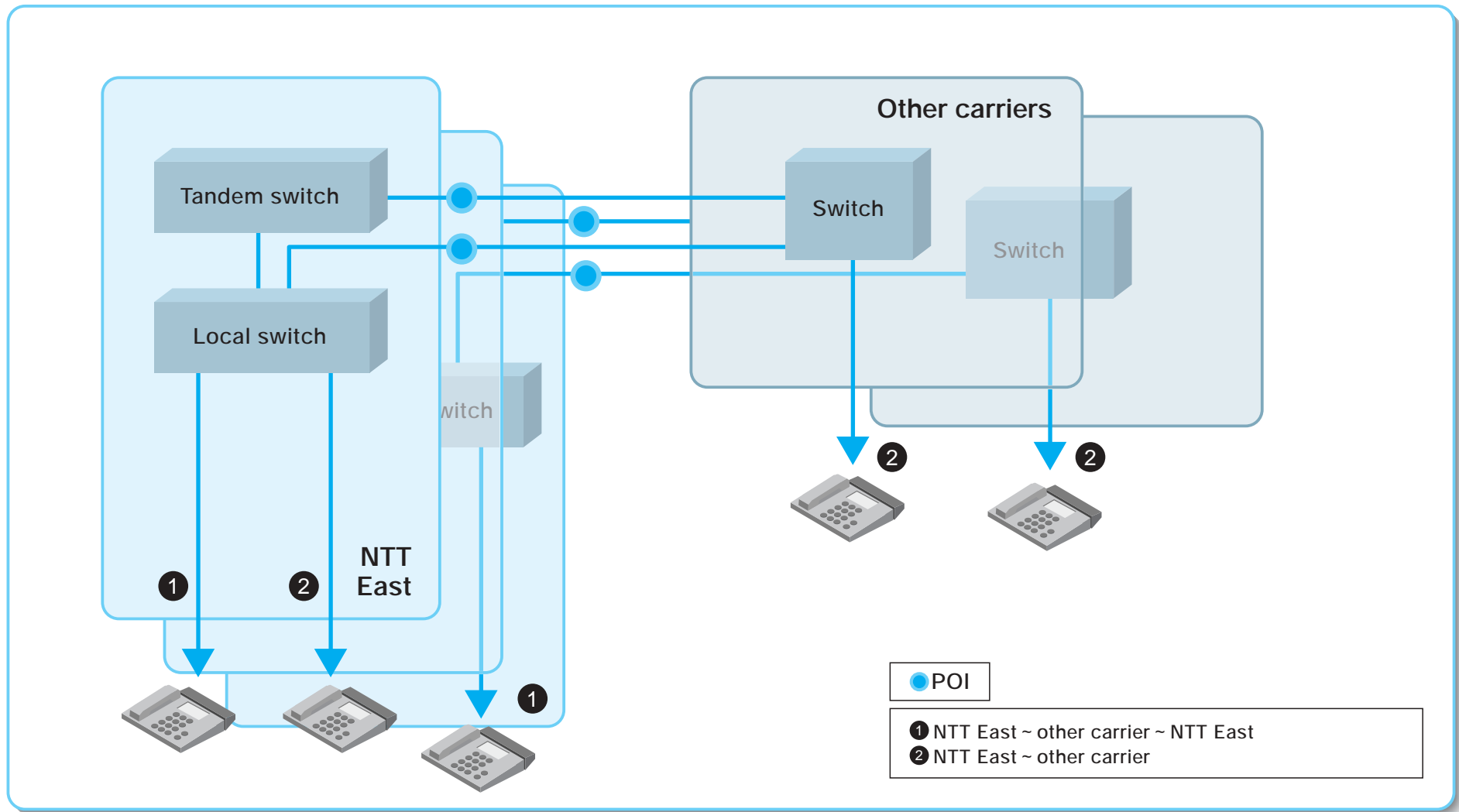
# - 3 Typical Pattern of Interconnection: Interconnection with IP Telephony Carriers

The pattern of interconnection to IP telephony carriers and IP telephony for our business customers is shown below.



# - 4 Typical Pattern of Interconnection: Example of Interconnection by Use of Multiple Standard Points of Interconnection

The use of multiple standard points of interconnection makes it possible to provide a variety of services.



## - 5 Major Functions That Become Available by Telephone Network Interconnection

We will provide the following major functions, etc., based on the requests by other carriers.

Major Function	Outline of Function
Transmission line allocation function for local switch and leased circuit node equipment interconnection (DSM-I)	Function to carry out discretionary route setting on the basis of 1.5-Mbps units in multiple multiplexed input and output transmission signals.
Transmission-line interconnection usage functions (TCM local switch interconnection)	Function to carry out multiplex conversion of interfaces (52 Mbps/156 Mbps) in local switch interconnection.
Tandem switch alternate route interconnection function for overflow calls in local switch interconnection	Function to automatically shift to tandem switch alternate routes for overflow calls, which cannot be transmitted due to failures, etc., at the time of local switch interconnection.
Synchronization signal supply function	Function to supply clock signals generated by our clock generation equipment to synchronize telecommunications facilities.
Local switch menu usage function	Function to make it possible to provide optional added services by using our local switch from the service control point (SCP) of other carriers.
Carrier pre-subscription function	Function to enable telephone users to use the carrier they have selected by pre-registration without dialing the carrier identification code. For details, please refer to the “ -1 Provision of Carrier Pre-Subscription Function” in this Chapter.
Number portability	Function to enable users to change the telecommunications carrier from which service is received, to another telecommunications carrier without changing the telecommunications number that is assigned to the user. For details, please refer to the “ -1 Provision of Number Portability” in this Chapter

# - 6 Entry Examples of Various Application Forms Concerning Telephone Network Interconnection

Form 1

## Guidance and Entry Examples

To: NTT East

No.  
Date:

From:  
Company:  
Name:  
SEAL

## PRELIMINARY SURVEY APPLICATION

We hereby submit the following Preliminary Survey Application for the purpose of establishing/changing interconnection with the NTT East networks.

Outline of interconnection to be established/changed	
Specific contents for negotiation	
Requested start timing for new/changed interconnection	YY/MM/DD
Contact details (name and telephone number)	(Name) _____ _____ Section _____ Department _____ Company Tel _____ Fax

Note : The "Articles of Agreement" in this application means the "Articles of Agreement Concerning Interconnection to Designated Telecommunications Facilities."

## Guidance and Entry Examples

### Specific Contents for Negotiation (1/2)

Please complete by specifying the interconnection points with designated telecommunications facilities.

Please specify interconnection points from among those specified in Paragraph 1, Article 5 of the Articles of Agreement.

<b>1. Points of Interconnection</b>		
Points of interconnection specified in the Articles of Agreement	Example 1) (3), Paragraph 1, Article 5 of the Articles of Agreement (Transmission Equipment for Local Switch) Example 2) (1) (Subscriber Line End) and (4) (Transmission Equipment for Tandem Switch), Paragraph 1, Article 5 of the Articles of Agreement Example 3) Same as current status	
Points of interconnection other than those specified in the Articles of Agreement	Example) As specified in Attachment 1 (Technical Conditions for Cases in Which the Articles of Agreement Are Not Applied).	
<b>2. Demarcation point for telecommunications facilities</b>		
(1) Requested POI installation site	Example 1) Within NTT East's _____ Building Example 2) Within our _____ Building (address) Example 3) In our manhole to be installed between our company and NTT East	
<b>3. Area subject to interconnection</b>		
(1) Service area of applicant carrier subject to interconnection	Example 1) Scope in which our company obtained approval from Minister of Public Management, Home Affairs, Posts and Telecommunications	
(2) Area subject to interconnection per POI	POI: Our network interconnection area: Example 1) Our _____ service area Example 2) Our Kanto sales area Example 1) Tohoku area Example 2) Nationwide NTT East's network interconnection area: Example 2) Nationwide	
	POI: Our network interconnection area: Example 1) Our service area Example 2) Our Kanto sales area NTT East's network interconnection area: Example 1) Hokkaido area	
<b>4. Technical conditions for interconnection (physical, electrical and logical conditions)</b>		
Addition of new technical conditions	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Interconnection based on the technical conditions specified in the Articles of Agreement.	Chapter XI (Technical Conditions) in the Articles of Agreement As specified in Pattern _____, Section _____, Chapter 2 (Technical Conditions by Pattern), Collection of Technical Conditions. However, Paragraph _____ is applied for Article _____ (Connection Method).	
Signaling network configuration	<input checked="" type="radio"/> Associated network <input type="radio"/> Quasi-associated network	
Signaling speed	<input checked="" type="radio"/> 4.8kb/s <input type="radio"/> 48kb/s	
Circuit reservation	Priority originating-user reservation	<input checked="" type="radio"/> Yes <input type="radio"/> No
	Bi-directional reservation	<input checked="" type="radio"/> Yes <input type="radio"/> No
Interconnection based on technical conditions other than those specified in the Articles of Agreement	As specified in Attachment 1 (Technical Conditions for Cases in Which the Articles of Agreement Are Not Applied).	

Please complete in case of new interconnection with NTT East's network.

Please describe area subject to interconnection per POI with respect to your network and NTT East's network.

Please specify technical conditions specified in the Articles of Agreement.

Please circle an entry for each.

Please complete in case of requesting interconnection based on technical conditions other than those specified in the Articles of Agreement.

# - 6 Entry Examples of Various Application Forms Concerning Telephone Network Interconnection

## Guidance and Entry Examples

### Specific Contents for Negotiation (2/2)

5. Construction of telecommunications facilities		Please specify the facility capacity for each POI (number of lines, traffic, number of peak hour calls, number of peak day calls, etc.).
(1) Capacity of switching and transmission facilities per POI (2) Applicant carrier facilities to be collocated within NTT East buildings (if any)	Example) POI: "XXX" Fiscal S Fiscal S+1 Fiscal S+2	Please complete only when POI installation site is located within NTT East building under (1) Requested POI installation site in 2 Demarcation point for telecommunications facilities.
• Type, quantity, dimensions of facilities to be installed • Electric power requirements • Other installation conditions    • Other	Example 1) While the equipment to be used is the same as that presently used, the additional installation of two units of "XX" equipment is requested. The dimensions of this equipment are: H ____ x W ____ x D ____ (m) Example 2) The installation of one unit of "XX" with NTT East specifications is requested.	
6. Patterns of interconnection		
Patterns of interconnection specified in the Articles of Agreement	Articles of Agreement	Chapter VII (Patterns of Interconnection) Attached Table 2-2, No. ____ - No. ____
Patterns of interconnection other than those specified in the Articles of Agreement	Articles of Optional Agreement	Chapter VI (Patterns of Interconnection) Attached Table 2-2, No. ____ - No. ____
7. Functions subject to network modification charges		
Functions requested by applicant carrier from among those subject to network modification charges	No. ____ in 1.2.1.1 (Functions Subject to Network Modification Charges), 1.2 (Network Modification Charges), Table 1 (Interconnection Charges), Articles of Agreement.	
Outline of functions requested by applicant carrier other than those subject to network modification charge	Example) Functions to interconnect our company's telecommunications facilities and those of "XX" Carrier through NTT East telecommunications facilities.	
8. Matters requiring operational cooperation		
(1) Matters for which NTT East cooperation is requested (matters other than those stipulated in the Articles of Agreement in case the Articles of Agreement are applied)	Please outline the requested function in case of requesting the use of a function not included in the Articles of Agreement.	Please select functions from those specified in 1.2 (Network Modification Charges), Table 1 (Interconnection Charges), Articles of Agreement.
9. Carrier identification code and type of code		
Carrier identification code	(            )	(            )
Domestic basic and domestic value-added service; shared use		
Domestic value-added and international value-added service; shared use		
Domestic basic and international basic service; shared use		
International basic service; exclusive use		
Please enter a check mark in any of the four rows for each carrier identification code. Please check the first row in the case of "domestic basic service; exclusive use," and check the second row in the case of "domestic value-added service; exclusive use" or "international value-added service; exclusive use."		
10. Carrier pre-subscription function		
Usage of carrier pre-subscription function: Yes or No		
Call category	Local calls	Intra-prefecture toll calls
Carrier pre-subscription number		
Service area		
11. Other		
	Example 1) Please provide synchronization signal. Example 2) In submitting this Preliminary Survey Application, the relevant consent has been secured from "XX" Company. Example 3) Please list our company's subscriber numbers in the NTT East telephone directory.	

## Attachment 1

## Guidance and Entry Examples

### Technical Conditions for Cases in Which the Articles of Agreement Are Not Applied

[Note]  
Please use this form in case any section includes any technical condition that is NOT covered by the Articles of Agreement and/or the Collection of Technical Conditions.

Technical Conditions	Specific Contents
(1) Point of interconnection Please select the appropriate item.	a. Subscriber line end (C) Local switch transmission equipment e. Leased-line node transmission equipment g. No change in present interconnection point h. Other [ ]
(2) Types of function-using terminals Please select the appropriate item.	b. Subscriber line transmission equipment d. Tandem switch transmission equipment f. Signaling tandem switch transmission equipment • Applicant carrier network side ( Example 1) Subscriber telephones and ISDN terminals ) • NTT-East network side (A) Subscriber telephone (B) General public telephone (C) ISDN terminal (D) ISDN public telephone e. Other (            ) • No change in present function-using terminals
(3) Transmission equipment interface	[ Example 1) 52-Mb/s or 156-Mb/s digital interface by interoffice line interconnection using SDH interface ]
(4) Signaling system	(a) No. 7 common-channel signaling system in conformity with TTC standards    b. I-interface c. Interface between PHS public cell station and digital network d. No change in present signaling system e. Other [ ]
(5) Signaling network configuration	a. Associated network    (b) Quasi-associated network
(6) Signaling speed	a. 4.8kb/s    (b) 48kb/s    c. No change in present signaling speed d. Other [ ]
(7) Numbering system Please select the appropriate item.	(a) 0 + ABCDE + FGHIJ [ 0: toll prefix; ABCDE: area code + local exchange number; FGHIJ: subscriber number ] b. 00XY + 0 + ABCDE + FGHIJ [ 00XY: carrier identification code; 0: toll prefix; ABCDE: area code + local exchange number; FGHIJ: subscriber number ] c. 00XY + x - x + ( 1 - n ) [ 00XY: carrier identification code; x - x: service code ] d. 00XY + x - x [ 00XY: carrier identification code; x - x: international number, etc. ] e. 0A0 + CD + EFGHIJ [ 0A0: service identification code; CD: carrier identification code; EFGHIJ: subscriber number ] f. No change in present numbering plan. g. Other (            )
(8) Interconnection with NTT-East services	[ Example 1) Request interconnection with the Free-Dial access function Example 2) Request interconnection with the police and fire-fighting service access functions ]
(9) Billing Charging conditions Please specify the charging conditions.	[ Example 1) Charging for ANM (charging indicator set as charging) Example 2) Same as present conditions ]



# - 6 Entry Examples of Various Application Forms Concerning Telephone Network Interconnection

## Guidance and Entry Examples

Technical Conditions	Specific Contents
Charging-start/stop timing  <div style="border: 1px solid #00AEEF; border-radius: 10px; background-color: #ADD8E6; padding: 2px; width: fit-content; margin-left: 20px;">Please select the appropriate item.</div>	Charging-start timing: ② Upon receipt of ANM (charging indicator set at charging) b. No change in present charging-start timing c. Other [ ]  Charging-stop timing: ② Upon receipt of REL b. No change in present charging-stop timing c. Other [ ]
Calls not subject to charging  <div style="border: 1px solid #00AEEF; border-radius: 10px; background-color: #ADD8E6; padding: 2px; width: fit-content; margin-left: 20px;">Please specify the statement description and settlement methods.</div>	② Unsuccessful calls    b. Test calls c. Calls encountering facility faults, etc., that affect charging d. No change in present subject calls e. Other [ ]
(10) Settlement between carriers (Statement description and settlement method)	<div style="border: 1px solid #00AEEF; border-radius: 10px; background-color: #ADD8E6; padding: 2px; width: fit-content; margin-left: 20px;">Example) Statement description: the total billing amount including said access charges Settlement method: monthly bank transfers per account and date designated by NTT East statement</div>
(11) Test methods  <div style="border: 1px solid #00AEEF; border-radius: 10px; background-color: #ADD8E6; padding: 2px; width: fit-content; margin-left: 20px;">Please select the appropriate item.</div>	a. Manual interconnection test: Confirming good/bad connection by providing automatic answering trunk function to IGS and NCC-GS and manually conducting connection testing from both ends. b. Circuit activation access test: Upon line activation, confirming the name of the line, line number and good/bad calls between originating-switch outgoing side and terminating-switch incoming side c. Manual signaling route test: Confirming normal signaling link d. Circuit matching test: Matching circuit status to eliminate inconsistencies ② No change in present test methods f. Other [ ]
(12) Congestion control functions  <div style="border: 1px solid #00AEEF; border-radius: 10px; background-color: #ADD8E6; padding: 2px; width: fit-content; margin-left: 20px;">Please specify the method of securing essential communications.</div>	② In conformity with Article 56 of the Articles of Agreement (Restrictions on Interconnection Messages) b. No change in present control methods c. Other [ ]
(13) Securing essential communications	<div style="border: 1px solid #00AEEF; border-radius: 10px; background-color: #ADD8E6; padding: 2px; width: fit-content; margin-left: 20px;">Example 1) Implementing priority calling party reservation circuit control in order to secure essential communications</div>
(14) Other  <div style="border: 1px solid #00AEEF; border-radius: 10px; background-color: #ADD8E6; padding: 2px; width: fit-content; margin-left: 20px;">Please specify any other matters to be considered in negotiations concerning technical conditions.</div>	<div style="border: 1px solid #00AEEF; border-radius: 10px; background-color: #ADD8E6; padding: 2px; width: fit-content; margin-left: 20px;">Example 1) Additionally using "1111110" in "b) Number type indicator, 3.8 Calling party number" in item (2) c., Paragraph 1, Article 18 of the Collection of Technical Conditions</div>

## Attachment 1

## Guidance and Entry Examples

### Patterns of Interconnection

	Column 1		
	Originating Carrier	Transit Carrier	Terminating Carrier
1	Our company		NTT East
2	NTT East		Our company
3	Our company	NTT East	Local carrier
4			

	Column 2	Column 3	Column 4
	Carrier Setting User Charges	Carrier Billing User Charges	Carrier Paying Usage-Sensitive Access Charges
1	Our company	Our company	Our company
2	NTT East	NTT East	—
3	Our company	Our company	Our company
4			

# - 6 Entry Examples of Various Application Forms Concerning Telephone Network Interconnection

**Form 8**

**Guidance and Entry Examples**

To: NTT East

No.  
Date:

From:                      Company:  
Name:                                      SEAL

## POI SURVEY APPLICATION

We hereby request that a POI survey be undertaken as follows.

**1. Survey request contents**

Target building	Survey contents	Requested interconnection start timing	Remarks
*XX* Building	As indicated in the attachment	YY/MM/DD	

**2. Survey costs**

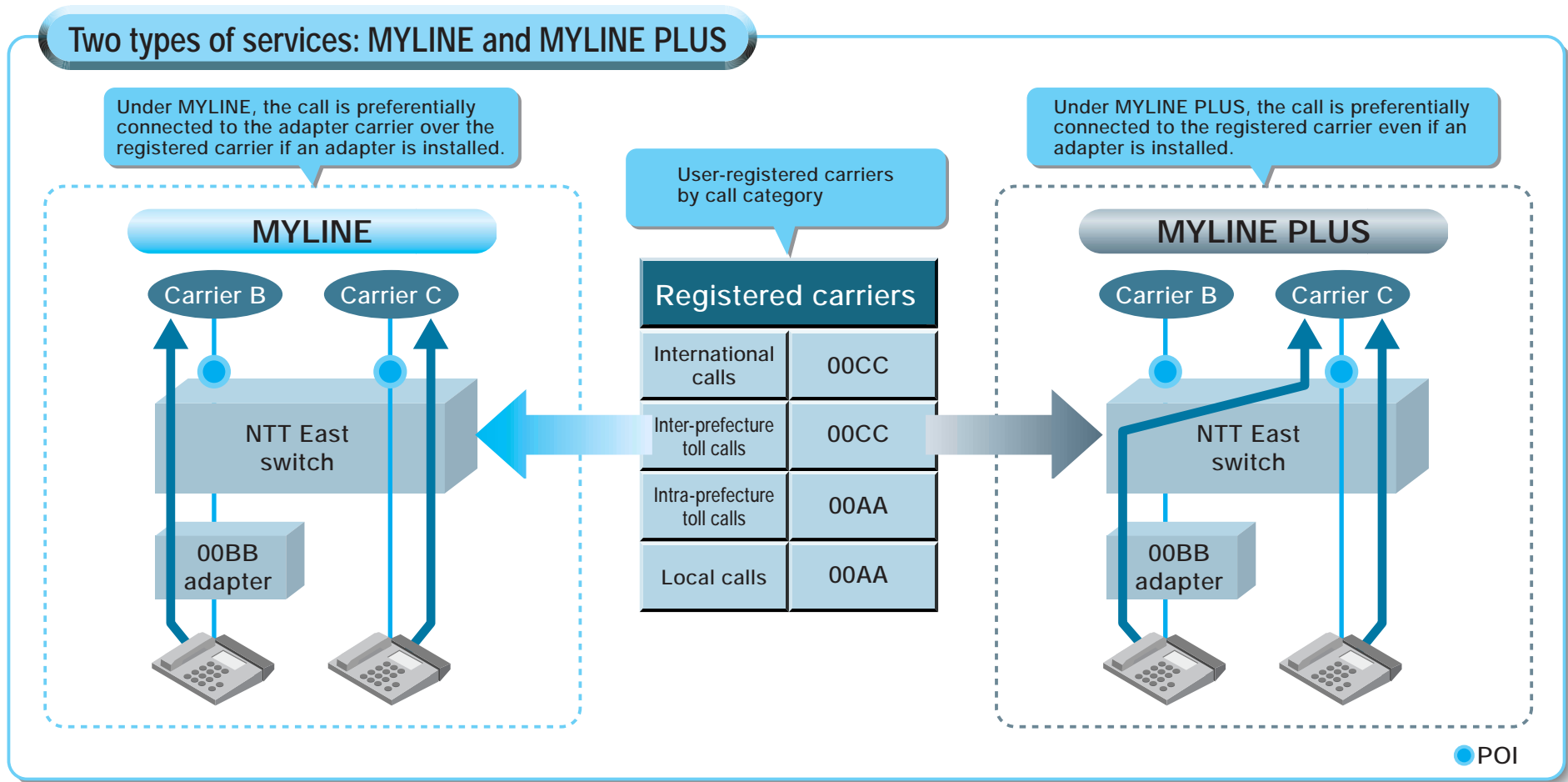
We will pay the costs required for the survey in accordance with a separate contract to be concluded between us.

**Guidance and Entry Examples**

Area name (building name)	*XX* Building <span style="font-size: small;">Please specify the name of the NTT East building subject to the survey.</span>	
Planned service start timing	Leased line service	YY/MM/DD <span style="font-size: small;">Please complete in case of leased-line service.</span>
	Telephone service	YY/MM/DD <span style="font-size: small;">Please complete in case of telephone service.</span>
Transmission section	NTT East	*XX* Building (name of transmission LE)
	NCC	*YY* Building (name of transmission LE)
Transmission system		Example 1) F-600M system Example 2) SDH 156 Mb/s
Number of transmission systems	At time of service start	Example) 1+1 SYS (present use + backup)
	At end of planned installation	
Interconnection speed		Example) STM0/STM1
Antenna type, quantity		
Facility outline	External dimensions	H_____ x W_____ x D_____ (m) <span style="font-size: small;">Please specify the dimensions of each equipment unit to be installed within the NTT East building.</span>
	Total weight	_____ kg/m <sup>2</sup> <span style="font-size: small;">Please specify the weight per unit area.</span>
Please specify the heat generation volume of each equipment unit.	Heat generation volume	Example 1) About "000" kcal/h Example 2) About "000" W
	Required capacity	Example) - 48V ± 4.8V <span style="font-size: small;">Please specify the voltage standards for each equipment unit.</span>
Please specify whether the equipment complies with VCCI standards.	Voltage standards	Example) Within DC ± 5V
	Electromagnetic induction	VCCI compliance <input checked="" type="radio"/> Yes <input type="radio"/> No
Air-conditioning outline	Temperature conditions	Example) 25 ± 15
	Humidity conditions	Example) 65 ± 20%
Power facility outline	Power source	Example) DC-48V
	Supply conditions	Example) UPS needed <span style="font-size: small;">Please specify any conditions for power reception.</span>
	Type of grounding	Example 1) Communications (+grounding) Example 2) Type arrester grounding
Line/underground facilities	Number of routes	
	Example) One route <span style="font-size: small;">Please specify the number of cable lead-in routes to the NTT East building.</span>	
	Number of conduits	
	Example) One conduit	
	Number of cables	
Example) One cable <span style="font-size: small;">Please specify the number of cable lead-in conduits to the NTT East building.</span>		
Number of cable cores		
Example) 20 cable cores		
Type of cable core		
Example) SM (Single Mode) <span style="font-size: small;">Please specify the number of cable lead-in cores to the NTT East building.</span>		
Other	Please specify the number of cable lead-ins to the NTT East building.	
	Please specify the type of cable core	

# - 1 Provision of Carrier Pre-Subscription Functions

Carrier pre-subscription functions make it possible for callers to use the selected telecommunications carriers without dialing the carrier identification code by registering the selected telecommunications carriers in advance at the NTT East local switch. Specifically, these functions involve a carrier selection service (MYLINE) and a carrier designation service (MYLINE PLUS), both of which services were started in May 2001. In addition, a carrier name notification function was added in May 2002.



## - 2 Providing Carrier Pre-Subscription Service

### Participation in the Carriers Association of Dialing Parity (MYLINE Carriers Association)

In order to contribute to the smooth introduction of carrier pre-subscription service to secure fair competition, to implement P/R activities for carrier pre-subscription service, to provide voluntary responses to claims made by users, and to discuss the problems raised by carriers concerning fair competition, etc., a Carriers Association of Dialing Parity (hereinafter referred to as the "MYLINE Carriers Association") has been established.

In establishing your participation in the MYLINE Carriers Association, please indicate the names of personnel designated as the committee member, expert committee member, member of the WG and SWG as shown in the "FAX Sheet" Exhibit and send it to NTT East.

### Submitting registration information to the MYLINE Center

Applications from users for carrier pre-subscription service are accepted at the MYLINE Center. Carriers wishing to register as carriers using pre-subscription service are requested to submit an "Application for MYLINE Center Carrier Registration" at least two months prior to the start of carrier pre-subscription service.

In addition, please submit "area code information" with respect to the start timing of carrier pre-subscription service for area code information at least two months prior to the start of carrier pre-subscription service.

In this connection, the Reception WG Secretariat of the Carriers Association of Dialing Parity will separately provide detailed explanations with respect to entry procedures.

#### Points to Consider

With respect to providing carrier pre-subscription service, please follow all procedures determined by the Preparatory Committee for the Introduction of Carrier Pre-Subscription Service and the Carriers Association of Dialing Parity.

By the time the service is started, please obtain the consent of the relevant local carrier(s). If such consent is not obtained in time, we may be forced to postpone the start of service.

#### Major costs in providing carrier pre-subscription service

- In order to register the 00XY number, expenses for translator-related work are required. In this connection, there is no cost exclusively required for the carrier pre-subscription service. (However, the costs of constructing the environment needed to connect to the reception system are to be borne by the carrier.)
- [Access Charges] Per-connection expenses for carrier pre-subscription functions (please refer to 2-2 (3) of the Articles of Agreement) are required. (Such costs will be billed together with the ordinary access charge (AC).)
- [Expenses for Procedures] Changing the category and number of the carrier pre-subscription service for any call category is subject to the expenses for procedures for carrier pre-subscription service acceptance (please refer to 2-1 (14) of the Articles of Agreement). (Such costs will be billed by the MYLINE Center. We will separately bill the user for the MYLINE registration fee.)

# (Reference) Application Form for Participation in the MYLINE Carriers Association

Attachment

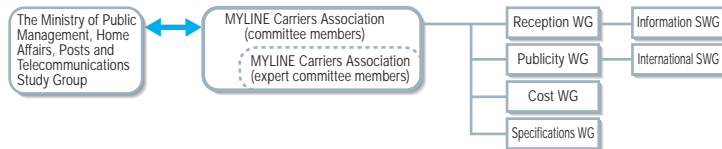
Secretariat  
MYLINE Carriers Association

## Application for Participation in the MYLINE Carriers Association

### 1. Operational Structure of the MYLINE Carriers Association

#### (1) Organizational structure of the MYLINE Carriers Association

- The basic structure is as shown below, and studies are being carried out in each WG under the framework determined by the Study Group.
- Any problems arising in the MYLINE Carriers Association with respect to the rules for the entire system that cannot be resolved among the related carriers will be presented to the Study Group.



	Discussion Contents	Member	Secretariat	Meeting Cycle
MYLINE Carriers Association	Committee members	Carriers using carrier pre-subscription service (carriers that have a carrier identification code) and which wish to participate in the MYLINE Carriers Association	Telecommunications Carriers Association	Whenever necessary
	Expert committee members			Whenever necessary
Reception WG	<ul style="list-style-type: none"> <li>Preparing reception processing flow</li> <li>Establishing Reception Center</li> <li>Responding to inquiries and complaints from users</li> </ul>	Carriers participating in carrier pre-subscription service* and carriers that wish to participate in WGs  * Carriers that have already applied to NTT regional companies for carrier pre-subscription service interconnection.	NTT regional company (East)	Whenever necessary
Information SWG	<ul style="list-style-type: none"> <li>Establishing procedural rules for data exchanges between the Reception Center and carriers.</li> </ul>		NTT regional company (East)	
Publicity WG	<ul style="list-style-type: none"> <li>Implementing publicity activities for all users</li> <li>Preparing and maintaining P/R schedule</li> <li>Resolving problems concerning sales activities</li> </ul>		NTT regional company (East)	
International SWG	<ul style="list-style-type: none"> <li>Publicizing new procedures for international calls, and studying P/R measures targeted at non-Japanese residents in Japan concerning carrier pre-subscription service</li> </ul>		KDDI	
Cost WG	<ul style="list-style-type: none"> <li>Clarifying the methods of allocating the costs</li> </ul>		NTT regional company (East)	
Specifications WG	<ul style="list-style-type: none"> <li>Resolving problems concerning specifications to be encountered in the future</li> </ul>	NTT regional company (East)		

However, WGs and/or SWGs may be added or abolished as determined by committee members (expert committee members) or each WG.

#### (2) MYLINE Carriers Association observers

MYLINE Carriers Association observers shall include carriers that have obtained a carrier identification code but which do not want to participate in the MYLINE Carriers Association as committee members, representative carriers from among mobile, PHS, CATV, and carriers, and officials from the Ministry of Public Management, Home Affairs, Posts and Telecommunications.

### 2. New Common Carrier Participation in the MYLINE Carriers Association

Carriers that newly start carrier pre-subscription service and that wish to participate in the MYLINE Carriers Association are required to list the personnel for committee member, expert committee member, and member of each WG and SWG on the attached FAX Sheet and send it to the Secretariat of the MYLINE Carriers Association after applying to the relevant NTT regional company for carrier pre-subscription service interconnection.

In this connection, the names of members to be reported are as follows.

- MYLINE Carriers Association members to serve as a committee member, and an expert committee member
- WG members to serve on the Reception WG, Publicity WG, Cost WG and Specifications WG
- SWG members to serve on the Information SWG and International SWG

FAX Sheet

Date: YY/MM/DD

Due Date: MM/DD

To: Secretariat of the MYLINE Carriers Association,  
Telecommunications Carriers Association  
FAX: 03-3502-0992

From:

Company Name: \_\_\_\_\_

Contact Person: \_\_\_\_\_

TEL: \_\_\_\_\_

Participation in the WGs and SWGs: \_\_\_\_\_

Company name: \_\_\_\_\_

Division name: \_\_\_\_\_

Name: \_\_\_\_\_

TEL: \_\_\_\_\_

FAX: \_\_\_\_\_

Email: \_\_\_\_\_

# (Reference) Application Form for Participation in the MYLINE Carriers Association

To: NTT East  
NTT West

Date: YY/MM/DD

## MYLINE Center Carrier Registration Application

"XX" Company

We hereby apply for carrier registration in the MYLINE Center. The registration information is as follows.

Item	Description Column Notes	Description Column	Registration Category	Setting Value Update Date	
Table Setting Information	Carrier Identification Code	Local calls	Within 7 half-sized characters	New	
		Intra-prefecture toll calls	Within 7 half-sized characters	New	
		Long-distance calls	Within 7 half-sized characters	New	
		International calls	Within 7 half-sized characters	New	
	Label type used for CMT	Label type	Enter "JIS" or "IBM"	New	
	Carrier abbreviated name	Abbreviated name 1	Within 15 full-sized characters	New	
		Abbreviated name 2	Within 15 full-sized characters	New	
		Abbreviated name 3	Within 15 full-sized characters	New	
		Abbreviated name 4	Within 15 full-sized characters	New	
		Abbreviated name 5	Within 15 full-sized characters	New	
Abbreviated name 6		Within 15 full-sized characters	New		
Abbreviated name 7		Within 15 full-sized characters	New		
Abbreviated name 8		Within 15 full-sized characters	New		
Abbreviated name 9		Within 15 full-sized characters	New		
Abbreviated name 10		Within 15 full-sized characters	New		
Abbreviated name 11		Within 15 full-sized characters	New		
Abbreviated name 12		Within 15 full-sized characters	New		
Abbreviated name 13		Within 15 full-sized characters	New		
Abbreviated name 14		Within 15 full-sized characters	New		
Abbreviated name 15		Within 15 full-sized characters	New		
Abbreviated name 16		Within 15 full-sized characters	New		
Abbreviated name 17		Within 15 full-sized characters	New		
Abbreviated name 18		Within 15 full-sized characters	New		
Abbreviated name 19		Within 15 full-sized characters	New		
Abbreviated name 20		Within 15 full-sized characters	New		
Abbreviated name 21		Within 15 full-sized characters	New		
Abbreviated name 22		Within 15 full-sized characters	New		
Abbreviated name 23		Within 15 full-sized characters			
Abbreviated name 24		Within 15 full-sized characters			
Abbreviated name 25		Within 15 full-sized characters			
Abbreviated name 26		Within 15 full-sized characters			
Abbreviated name 27		Within 15 full-sized characters			
Abbreviated name 28		Within 15 full-sized characters			
Abbreviated name 29		Within 15 full-sized characters			
Abbreviated name 30		Within 15 full-sized characters			
Caller telephone number for dial-up connection	Reason	Enter within the cell	New		
User ID for RADIUS authentication	User ID	Refer to the following	New		
User ID for FTP server authentication	User ID	Refer to the following	New		
User ID for Web server authentication	User ID	Refer to the following	New		
Global IP address at the time of WEB referral	Reason	Enter within the cell	New		

Note

- 1 Please limit Description column entries as specified under Description Column Notes.
- 2 Please enter "New," "Change" or "Deletion" in Registration Category column.
- 3 Please use the format YYYYMMDD in entering for the "Setting Value Update Date" (Example: January 10, 2001 20010110).
- 4 As user ID passwords for RADIUS authentication, FTP server authentication and WEB server authentication are provided directly to the person responsible for network information liaison, advance registration is essential. The password for FTP server authentication is issued every month, and passwords for RADIUS authentication and WEB server authentication are issued every year by the MYLINE Center.
- 5 User ID issuing standards ( - essential items)
  - Must consist of half-sized alphanumeric characters.
  - Two or more alphabetic characters are included.
  - Must consist of at least six but fewer than eight characters.
  - The selected IDs must be combinations that are difficult to guess by unauthorized person (this particularly applies to those for FTP server authentication).
  - The same ID may be used for RADIUS authentication, FTP server authentication and WEB server authentication.
- 6 Please specify the reason for any requested change in user IDs. Change requests without a stated reason may not be accepted.
- 7 The global IP address at the time of WEB referrals is used for WEB server access control, and access is permitted from the applicable IP address. In general, please enter a global IP address such as that of a proxy server, etc. In case of two or more proxy servers, please separate each address by a semi-colon (Example: 10.0.0.1;1).
- 8 Please submit this form at least one month prior to registration and any change request.

Date: YY/MM/DD

To NTT East

"XX" Company

### Area code information

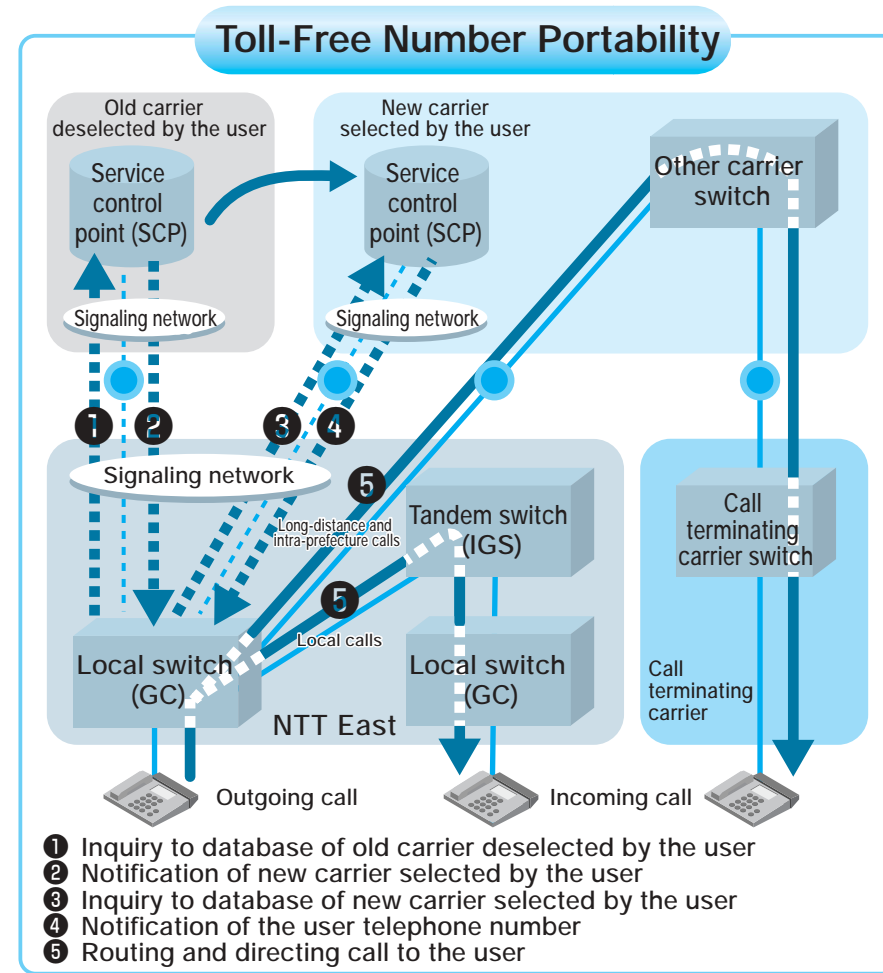
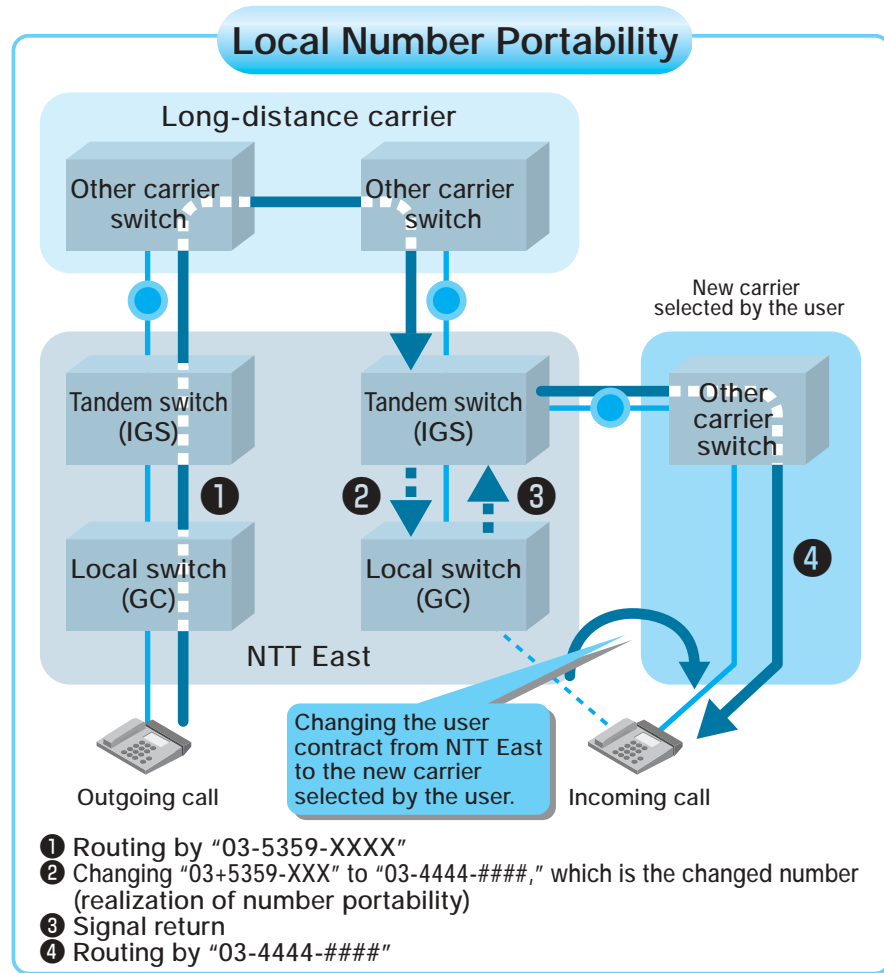
"OO"ZA

Area Code	Area	Start Timing YY/MM/DD

# - 1 Provision of Number Portability

Number portability makes it possible for users to change telecommunications carriers from which service is received without any change in the telephone number, etc., which has been assigned to the user.

There are two types of number portability: "local number portability," which applies to numbers used for general subscriber telephone or ISDN service, and "toll free number portability," which applies to numbers used for toll-free service (numbers starting with 0120 or 0800). These services were started in March 2001.



# - 2 Entry Examples of Number Portability Usage Application Forms

To: NTT East

No. \_\_\_\_\_  
Date: \_\_\_\_\_

From: \_\_\_\_\_ Company: \_\_\_\_\_  
Name: \_\_\_\_\_ SEAL

## PRELIMINARY SURVEY APPLICATION

We hereby submit the following Preliminary Survey Application for the purpose of establishing/changing interconnection with the NTT East networks.

Outline of interconnection to be established/changed	Realization of number portability for general subscriber telephones and ISDN service
Specific contents for negotiation	As specified in Attachment
Requested start timing for new/changed interconnection	YY/MM
Contact details (name and telephone number)	(Name) (Title) OOOOO Department OOOOO Company  TEL: FAX: EMAIL:

Attachment

## Specific Contents for Negotiation

1. Points of Interconnection				
Points of interconnection specified in the Articles of Agreement				
Points of interconnection other than those specified in the Articles of Agreement				
2. Demarcation point for telecommunications facilities				
(1) Requested POI installation site				
3. Area subject to interconnection				
(1) Service area of applicant carrier subject to interconnection	Scope approval our company has obtained from the Minister of Public Management, Home Affairs, Posts and Telecommunications			
(2) Area subject to interconnection per POI	Our network interconnection area: NTT East's network interconnection area:			
4. Technical conditions for interconnection (physical, electrical and logical conditions)				
Addition of new technical conditions	Yes	No		
Interconnection based on the technical conditions specified in the Articles of Agreement.	Signaling network configuration	Associated network	Quasi-associated network	
	Signaling speed	4.8kb/s	48kb/s	
	Circuit reservation	Priority originating-user reservation	Yes	No
		Bi-directional reservation	Yes	No
Interconnection based on technical conditions other than those specified in the Articles of Agreement				
5. Construction of telecommunications facilities				
(1) Capacity of switching and transmission facilities per POI	(1)	<div style="border: 1px solid #00AEEF; padding: 5px; background-color: #e6f2ff;">                     Projections of traffic volume, etc., concerning number portability for general subscriber telephones and ISDN service. (Using a separate sheet is also acceptable.)                 </div>		
(2) Applicant carrier facilities to be collocated within NTT-East buildings (if any)	(2)			
<ul style="list-style-type: none"> <li>• Type, quantity, dimensions of facilities to be installed</li> <li>• Electric power requirements</li> <li>• Other installation conditions</li> <li>• Other</li> </ul>				

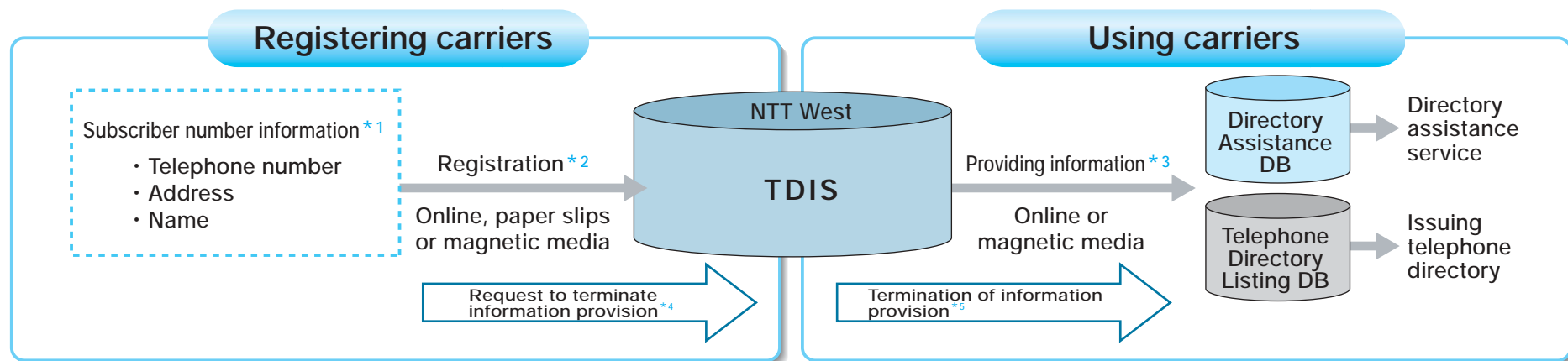


# - 2 Entry Examples of Number Portability Usage Application Forms

<b>6. Patterns of interconnection</b>			
Patterns of interconnection specified in the Articles of Agreement	Articles of Agreement	Based on Item c of (3) in the table of "1 Application," Patterns of Interconnection, Attached Table 2	
Articles of Optional Agreement			
Patterns of interconnection other than those specified in the Articles of Agreement			
<b>7. Functions subject to network modification charges</b>			
Functions requested by applicant carrier from among those subject to network modification charges			
Outline of functions requested by applicant carrier other than those subject to network modification charges			
<b>8. Matters requiring operational cooperation</b>			
(1) Matters for which NTT-East cooperation is requested			
<b>9. Carrier identification code and type of code</b>			
Carrier identification code	( 00X1Y1 )	( 00X2Y2 )	(            )
Domestic basic and domestic value-added service: shared use			
Domestic value-added and international value-added service: shared use			
Domestic basic and international basic service: shared use			
International basic service: exclusive use			
Please enter a check mark in any of the four rows for each carrier identification code. Please check the first row in the case of "domestic basic service," and check the second row in the case of "domestic value-added service; exclusive use" or "international value-added service; exclusive use."			
<b>10. Carrier pre-subscription function</b>			
Usage of carrier pre-subscription function: Yes or No			
Call category	Local calls	Intra-prefecture toll calls	Inter-prefecture toll calls
Carrier pre-subscription number			
Service area			
<b>11. Other</b>			
<p>In the case that your company's new area code is added in our service area as well, the new area code will be subject to number portability for general subscriber telephones and ISDN service.</p> <ul style="list-style-type: none"> <li>• Number portability for general subscriber telephones and ISDN service is predicated on the "Study Group Report on the Methods to Realize Number Portability (May 1998)" and the "Report of the 'Study Group on Number Portability Cost Bearing Methodologies' (March 1999)," and is based on the "Number Portability Specifications for General Subscriber Telephones and ISDN Service," the "Specifications for General Subscriber Telephone and ISDN Number Portability Work," and the results of the joint carrier discussions on number portability for general subscriber telephones and ISDN service, which have carried out since September 1999.</li> <li>• The changed number with respect to general subscriber telephones and ISDN service (routing number) is to be one that includes our company's area code for which translator work has been completed by your company.</li> <li>• In realizing the number portability for general subscriber telephones and ISDN service, we have obtained consent from the carrier setting user charges specified in the Patterns of Interconnection in Attached Sheet No. ____.</li> <li>• With respect to the originating ID at the time of calls originated by our user of number portability for general subscriber telephones and ISDN service, we will set up table numbers.</li> </ul>			

# (Reference) Provision of Directory Information Database (TDIS)

Carriers registered under the directory information database (TDIS) consist of carriers including NTT East and NTT West that have their own subscriber base, and mobile carriers. The registered number information (telephone number, address and name) is being used by telephone directory service companies and telephone directory issuing companies.



## Explanation

- \*1 In accordance with the laws and ordinances such as the "Guidelines Concerning the Protection of Personal Data in the Telecommunications Business (No. 570, Notification of the Ministry of Posts and Telecommunications, 1998;" hereinafter referred to as the "Personal Data Protection Guidelines, Etc."), the subscriber number information shall be limited to that separately specified by NTT East within the range necessary to implement telephone directory listings or directory assistance service.
- \*2 Except the following cases, we will register subscriber number information.
- (1) In the event that the relevant contracting carrier fails or may likely fail to pay access charges stipulated in (4), 1.1.2.8 (Directory Assistance Function, Etc.), 1.1 (Access Charges), Table 1 in the Tables of Charges, or the expenses for procedures stipulated in Article 68 (Obligation to Pay Expenses for Procedures) of the Articles of Agreement.
  - (2) In the event that the contracting carrier fails or may likely fail to observe the following provisions in handling the subscriber number information to be registered.
    - a The contracting carrier shall make it possible for its subscriber to select whether or not to list such information in the telephone directory or provide same under directory assistance service. (In this case, the carrier may allow the subscriber to select whether to provide such information not by directory assistance service.)
    - b In the event the subscriber selects not to list such information in the telephone directory or to provide same under directory assistance service, the contracting carrier shall not request the registration of such information in our Directory Information Database.
    - c In the event the subscriber selects to provide such information under directory assistance service only, the contracting carrier shall request the registration of such information in our Directory Information Database only by limiting its purpose to directory assistance service.

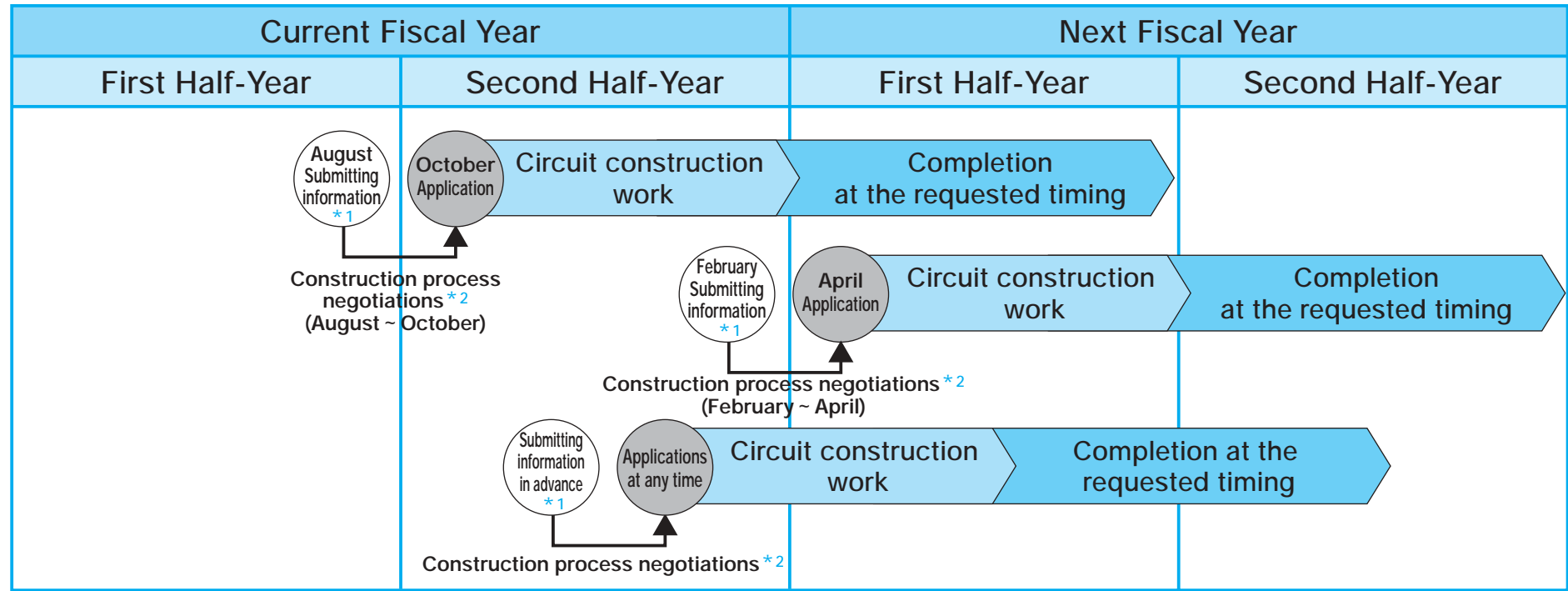
- d In the event the subscriber asks the contracting carrier to register such information, the carrier shall request the registration of such information in our Directory Information Database without delay.
- e In addition, the contracting carrier shall observe the Personal Data Protection Guidelines, Etc.
- \*3 Except the following cases, we will provide subscriber number information stored in our Directory Information Database.
- (1) In the event that the contracting carrier (including carriers using subscriber number information stored in the Directory Information Database under contracts other than the agreement) fails or may likely fail to pay access charge stipulated in (5), 1.1.2.8 (Directory Assistance Function, Etc.), 1.1 (Access Charges), Table 1 in the Tables of Charges.
  - (2) In the event that the contracting carrier fails or may likely fail to observe the following provisions in handling the subscriber number information to be provided.
    - a In the event that the contracting carrier is provided with subscriber number information, it shall modify its database without delay.
    - b The contracting carrier shall not wrongfully impair the rights or interests of any subscribers of the registering carriers.
    - c The contracting carrier shall use the number information registered in the Directory Information Database only for the purposes of compiling lists in the telephone directory or of providing directory assistance service carried out by itself.
    - d In the event that the subscriber number information is registered in our Directory Information Database only for the purpose of providing directory assistance service, the contracting carrier shall use said number information only for the purpose of providing directory assistance service.
    - e In addition, the contracting carrier shall observe the Personal Data Protection Guidelines, Etc.
- \*4 Any carrier registering information may request the termination of the provision of its subscriber number information to a using carrier by submitting documentation proving that the carrier using the Directory Information Database is violating the Personal Data Protection Guidelines, Etc. However, in the event that said using carrier lodges a complaint or takes other action concerning the termination of the provision of number information, the carrier registering such information shall respond to such complaints on its own responsibility, unless such causes are attributable to our company.
- \*5 In the event that a carrier registering information requests the termination of the provision of number information, we will notify the carrier using such information to that effect and shall stop providing number information on subscribers of the carrier registering such information, unless it is considered that the request has no foundation.

# - 1 Application Procedures, Etc, for the Construction of Interconnection Circuits

With respect to application procedures for interconnection circuits, we will respond to other carriers on the basis of a semi-annual regular application cycle in July and January of every year.

Articles 23 ~ 28 and Article 50 of the Articles of Agreement

## Schedule for Application Procedures



### Explanation

\*1 Prior to making an application for construction, please submit information concerning the requested number of circuits, the actual and estimated traffic, the accommodation status of transmission equipment, etc.

\*2 We will discuss the number of circuits and the implementation period for the circuit construction work.

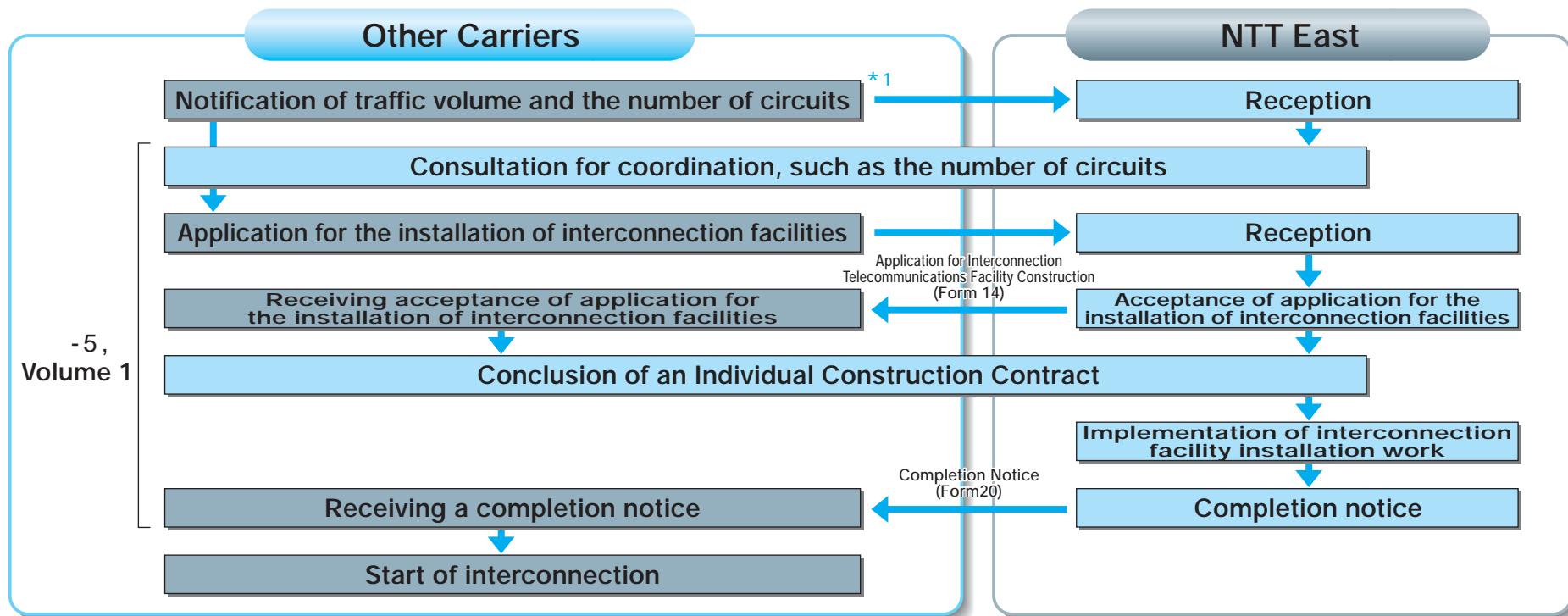
Applications at any time will be accepted only under the following conditions as specified in the Articles of Agreement.

“A contracting carrier may make an application at any time only when there is fear that call loss (meaning the interruption of communications through the relevant transmission equipment, etc., or transmission lines due to the occurrence of calls that exceed the line capacity of the transmission equipment, etc., or transmission lines) may continuously occur due to rapid increases in the traffic of the contracting carrier.”

With respect to the “function to use transmission equipment for local switch interconnection” and the “function to exclusively use local switch circuit-related parts” under the category of subscriber switching functions, the “function to exclusively use tandem switch circuit-related parts” under the category of tandem switching functions and the “function to use transmission equipment for tandem switch interconnection” under the category of interoffice transmission functions, the relevant expenses specified in the Articles of Agreement Concerning Interconnection are to be individually borne in accordance with the number of circuits applied by a contracting carrier.

# - 2 Application Procedures for the Construction of Interconnection Circuits

NTT East will start interconnection in accordance with the following procedures in response to an application for construction (submitted under the semi-annual regular application cycle and/or submitted at any time) after receiving notification of the traffic volume and the number of circuits.



**Explanation**

- \*1 Materials to be submitted by other carriers
- Actual and estimated traffic volume and the estimated number of circuits per POI and per switch
- Actual traffic
- First half-year: Actual traffic in May, June and July
- Second half-year: Actual traffic in November, December and January
- At any time: Actual traffic in the past three months
- Estimated traffic volume and the estimated number of circuits
- First half-year: As of the end of September and March in the next fiscal year
- Second half-year: As of the end of March in the next fiscal year and as of the

- end of September in the fiscal year following the next fiscal year
- At any time: As of the end of the fiscal half-year that includes the requested usage start month for interconnection facilities; as of the end of the next fiscal half-year; and as of the end of the fiscal half-year following the next fiscal half-year
- Information concerning the accommodation status of transmission equipment, etc.
- Other matters for which cooperation is requested by NTT East
- Number of circuits for which an application is made
- Actual and estimated traffic volume and the estimated number of circuits per MA and per local exchange number

# Attachment

---

## Facility Introduction Plan Presentation Manual (Excerpts)

# Outline of Facility Introduction Plan Presentation Manual

NTT East is promoting various measures aimed at offering a wide variety of services, improving the efficiency of network operations and cost reductions. In view of the potential impact that these measures may have on other carriers, it is necessary to notify other carriers of these plans at an early stage. Accordingly, the *NTT Facility Introduction Plan Presentation Manual* was published in November 1998 through consultation with other carriers that have established interconnection with NTT East facilities regarding the appropriate methods to present facility introduction plans accompanying our network restructuring, etc., for the purposes of facilitating a smooth local-switch interconnection with other carriers and promoting efficient facility construction among all telecommunications carriers.

This section introduces excerpts from this manual covering the basic concepts and the information presented, etc.

- Basic Concepts ..... 27
- Presenting Information ..... 28
- Outline of Information Presented ..... 29
- Presentation Schedule ..... 30
- Information Necessary in Formulating Facility Construction Plans ..... 31
- Information Necessary for Routing ..... 32
- Plan Modification and Notification Procedures ..... 33

# Basic Concepts

## Basic Concepts

Information concerning NTT East's facility introduction plans will be provided on a voluntary basis for the purpose of facilitating the efficient development of facilities by telecommunications carriers. As the basic concepts behind providing this information relate to the potential impact that the introduction of facilities accompanying network restructuring may have on other carriers in terms of existing networks, business plans and other factors, the scope of the target information to be presented focuses on facility introduction plans accompanying changes involving the point of interface (POI) between other carriers and NTT East.

It is our belief that these concepts concerning the presentation of such information will be reciprocated in case other carriers carry out any renovations, etc., of their network facilities.

Please note that any information presented may be subject to change in response to environmental factors both inside and outside our company. In case of any changes on our side, we will provide notifications as quickly as possible and flexibly respond to plan modifications by other carriers accompanying such changes.

## Carriers and Areas Subject to Information Presentation

### Carriers Subject to Information Presentation

- Carriers that have already established interconnection at switches [\(Note 1\)](#)
- Carriers planning to establish interconnection at switches [\(Note 2\)](#)

### Areas Subject to Information Presentation

Coverage areas are areas subject to interconnection on a "prefectural unit"[\(Note 3\)](#) basis. In the event information for other areas is necessary as a result of the expansion of areas subject to interconnection, information that is deemed necessary at each step in the interconnection consultation process will be presented successively in the same way as carriers planning to establish interconnection at local switches.

**Notes** 1. Interconnection at switches means (1) local switch interconnection, (2) tandem switch interconnection and (3) signaling tandem switch interconnection.

2. Information that is deemed necessary at each step in the interconnection consultation process will be presented successively.

3. In some regions, subject areas are to be classified in accordance with our branch area classification.

# Presenting Information

## Confidentiality Obligations

Because information provided to other carriers constitutes part of our business management information, the information provided shall be kept secret and shall not be used for other than the intended purposes.

## Cost Bearing for Plan Changes

Unlike the situation in which carriers requesting interconnection submit individual applications requesting the construction of our network facilities, this presentation of information is implemented on a voluntary basis with the aim of improving efficiency in facility construction by other carriers.

In the event any changes in our plans for which we have presented information require changes in the construction applications of other carriers, NTT East will meet the requirements of such changes in principle. With respect to any changes in the plans of other carriers that are not attributable to changes in our plans, we will make every attempt to respond positively by discussing each case individually. However, we must ask the interconnecting carrier to bear the necessary expenses for emergency measures, etc.

With respect to construction expenses incurred by other carriers for plan changes due to changes in our plan within S\* - 6 months, we will discuss the handling of such expenses based on the provisions of Article 88 (Exemptions) of the Articles of Agreement.

\* "S" indicates service start timing.



# Outline of Information Presented

Information concerning the Facility Introduction Plan Accompanying Changes of the Point of Interface (POI) Between Other Carriers and NTT East [\(Note\)](#) that will be provided by NTT East consists of Information Necessary in Formulating Facility Construction Plans and Information Necessary for Routing.

[\(Note\)](#) A change of the NTT East point of interface means that the unit subject to interconnection is changed.

## **(1) Information Necessary in Formulating Facility Construction Plans**

Information necessary for other carriers to formulate facility construction plans

Annual information (First half of fiscal year X: July of fiscal year X - 1, second half of fiscal year X: January of fiscal year X - 1)

Information at time of any change

## **(2) Information Necessary for Routing**

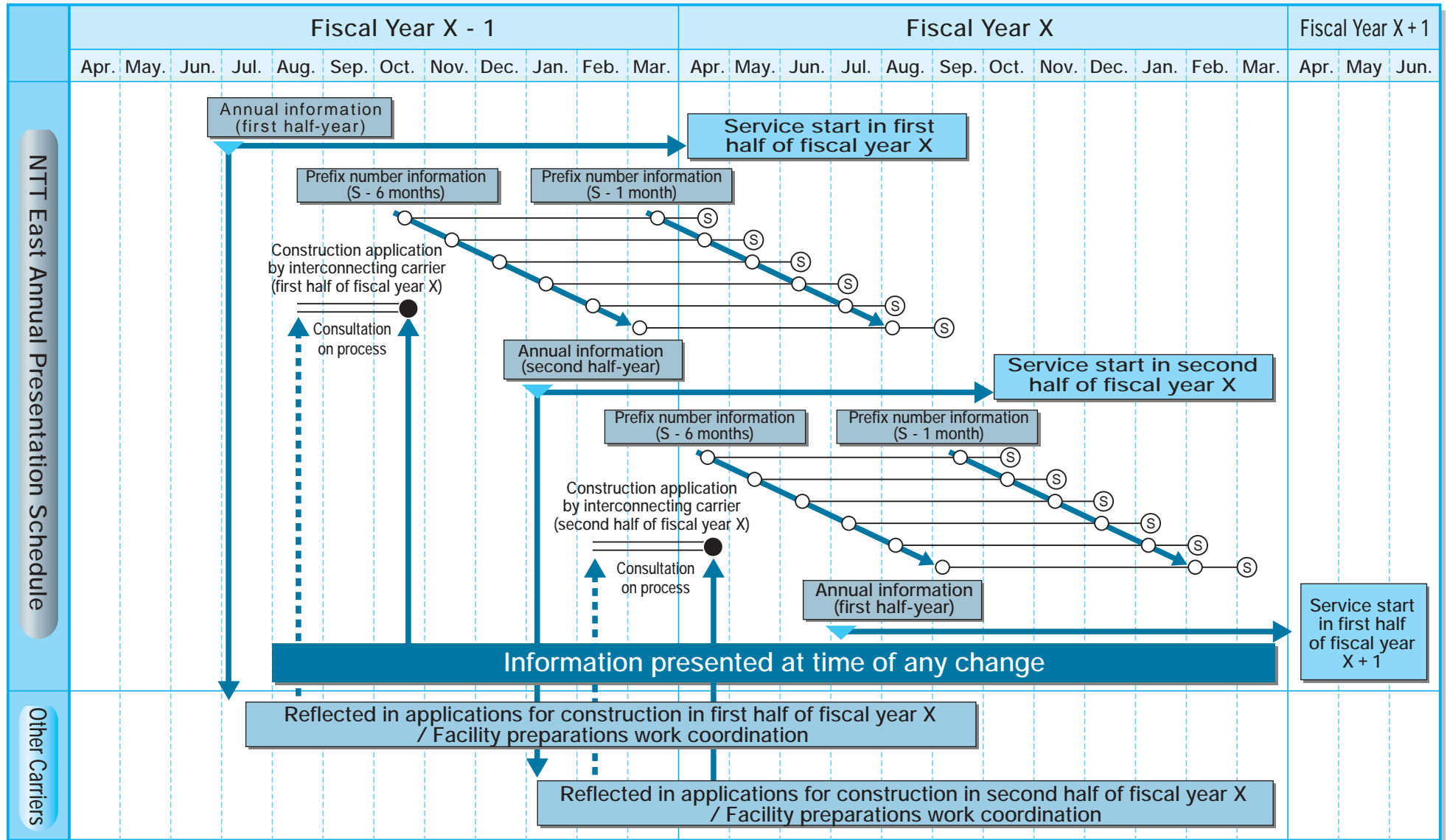
Information needed by other carriers for routing purposes such as translator deployment, etc.

Prefix number information (S - 6 months)

Prefix number information (S - 1 month)

Please see "V. Presentation Schedule" for details.

# Presentation Schedule



## Information Necessary in Formulating Facility Construction Plans (Annual Information and Information at Time of Any Change)

We present the information (annual information) necessary for other carriers in formulating facility construction plans in July of fiscal year X - 1 and January of fiscal year X - 1.

Annual information (first half of fiscal year X) : Provided in July of fiscal year X - 1

Annual information (second half of fiscal year X) : Provided in January of fiscal year X - 1

Information at time of any change (the modified version of annual information)

### Information Necessary in Formulating Facility Construction Plans (Example : Local-Switch Interconnection)

#### Basic Information

- (1) Branch name
- (2) Prefecture name
- (3) MA name
- (4) Building name
- (5) Type of switch
- (6) Unit name

#### Facility information

- (7) Number of planned terminals <sup>(Note 1)</sup>  
(INS64, INS1500, subscriber telephone)
- (8) Planned service start month
- (9) New accommodation information <sup>(Note 2)</sup>
- (10) DPC number
- (11) Prefix numbers accommodated (new/additional)
- (12) Prefix numbers accommodated (shifted prefix numbers)
- (13) Old unit information <sup>(Note 3)</sup>

#### Notes:

1. The number of planned terminals refers to the number for S+12 months.
2. Information concerning switch to which the target switch is connected
3. Information concerning the old switch in which prefix numbers that were shifted to the target switch were accommodated

# Information Necessary for Routing (Prefix Number Information)

We present the information (prefix number information) needed by other carriers for routing purposes such as the deployment of translators at S - 6 months and at S - 1 month.

In the prefix number information at S - 6 months, the "service start month (early/middle/late)" will be provided under the category of "cut-over date and time," and new numbering assignments will be provided under the category of "prefix numbers accommodated."

In the prefix number information at S - 1 month, the "service start date and time" will be provided under the category of "cut-over date and time."

## Information Necessary for Routing (Prefix Number Information)

Telephone network MA name

Type of shift

Status after shift

Building name and unit name

Cut-over date and time

- Prefix numbers accommodated
- DPC number

- Switch type
- Building name
- Unit name

Status before shift

Remarks

- Prefix numbers accommodated
- DPC number

# Plan Modification and Notification Procedures

As our plans to introduce facilities in GC units largely depend on demand trends, it is difficult to determine firm plans at an early stage. Accordingly, there may be cases in which modifications are required after the presentation of certain information. As such changes may have an impact on the facility plans of other carriers, we will provide notifications each time this occurs by means of "Information at Time of Any Change."

## Changes to Facility Construction Information (Annual Information first half-year and second half-year)

**Notification Method** In case of changes after the presentation of information, we will provide notifications by means of "Information at Time of Any Change" as quickly as possible each time a change is decided.

**Target Information** All annual information

## Change to Routing Information (Prefix Number Information)

**Notification Method** In case of changes after the presentation of information, we will announce such changes by including them in the next prefix number information presentation.

**Target Information** Basically, changes concerning the numbering system and those with little impact upon facility construction plans.