Telecommunications Accessibility Guidelines for Older Persons and Persons with Disabilities (Attachments)

May 2004

CIAJ (Communication and Information Network Association of Japan)

<Info-Communication Access Council>

Website: http://www.ciaj.or.jp/access/

This document provides reference information designed to supplement the information set out in the second edition of the Telecommunications Accessibility Guidelines for Older Persons and Persons with Disabilities.

The Attachments document is designed to be read in conjunction with the Guidelines in relation to the processes of product planning, development, design and evaluation.

How to use the tables

The tables in attachments 1 through 4 are designed to assist telecommunications equipment developers in identifying areas where special consideration needs to be applied in the planning, development, design and evaluation stages to the physical and cognitive capacity of users to perform basic operations on typical terminal machines in accordance with instructions.

Shaded cells in the tables indicate areas where the combination of the physical and/or cognitive attributes of the user (on the horizontal axis) and the required operational procedure (on the vertical axis) need to be taken into consideration by product developers.

The Guidelines provide specific examples and other information about initiatives and strategies that can be used in such areas.

Attachment 6 is a sample checklist of considerations in the product planning, development, design and evaluation processes. It lists the features of fixed line telephones as stated in Section 6.2.1 of the Guidelines and the associated considerations.

It is hoped that telecommunications equipment developers will refer to these examples in preparing similar tables for use in the planning, development, design and evaluation of terminal devices.

Contents

1. Disability design considerations for basic fixed-line telephone operations · · · · ·	1
2. Disability design considerations for basic facsimile telephone operations · · · · ·	2
3. Disability design considerations for basic mobile telephone operations · · · · · · ·	4
4. Disability design considerations for basic video telephone operations	9
5. Postings on the Info-Communication Access Council website · · · · · · · · · · · · · · · · · · ·	10
6. Sample accessibility evaluation checklist for fixed line telephones	12
7. Ministry of Posts and Telecommunications Notification No. 515 · · · · · · · · · ·	14
8. About the Info-Communication Access Council	16

1. Disability design considerations for basic fixed-line telephone operations

	Design consideration						Physical and	d mental abiliti	es/disabilities				
		-		Sensory				Physical			Cog	nitive	Allergy
Objective	Operation	Steps	Seeing	Hearing	Touch	Dexterity	Strength	Single hand	Wheelchair	Voice	Intellect/ memory	Cultural/lan- guage differences	Contact
	1. Pick up receiver	Identify receiver											
	1. Fick up receiver	Pick up receiver and hold to ear											
		Confirm dial tone											
	2. Dial number	ldentify keypad											
Make a		Press number keys											
telephone	3. Wait for response	Confirm ringing tone											
call	4.8	Confirm that ringing tone has stopped											
	Begin conversation	Confirm remote party											
		Talk to remote party											
	5. End call	Confirm location of telephone											
	o. Ena dan	Replace receiver in cradle											
	1. Telephone rings	Confirm ring tone											
	2. Pick up receiver	Identify receiver											
Receive a	2. I lok up receiver	Remove receiver from cradle											
telephone	3. Begin conversation	Confirm remote party											
call	o. Degin conversation	Talk to remote party											
	4. End call	Confirm location of telephone											
	T. Ella Gall	Replace receiver in cradle											

2. Disability design considerations for basic facsimile telephone operations (1/2)

Design consideration Physical and mental abilities/disabilities Sensory Physical Cognitive Allergy Objective Operation Steps Cultural/lan-Intellect/ Seeing Hearing Touch Dexterity Strength Single hand Wheelchair Voice guage Contact memory differences Check that original is facing the . Check orientation of original right way up and in the right direction Identify insertion slot 2. Align guides to paper size Identify guides Align guides to paper size Insert original into machine 3. Insert original into machine Check that original is correctly inserted Identify keypad Send a Press number keys 4. Dial recipient's fax number fax Check number keys Confirm that number is entered correctly Identify start button Press start button Check that start button has been Press start button Check that fax transmission is in orogress Confirm transmission report 6. End transmission Remove original 1. Fax machine rings Confirm ring tone Identify receiver 2. Pick up receiver Remove receiver from cradle Identify incoming facsimile Identify start button Press start button Receive 3. Press start button Check that start button has been a fax pressed Identify receiver cradle 4. Replace receiver Replace receiver in cradle Confirm end of reception 5. Confirm successful reception Identify output paper Remove output paper

2. Disability design considerations for basic facsimile telephone operations (2/2)

	Design consideration						Physical and	d mental abilitie	s/disabilities				
		_		Sensory				Physical			Cog	nitive	Allergy
Objective	Operation	Steps	Seeing	Hearing	Touch	Dexterity	Strength	Single hand	Wheelchair	Voice	Intellect/ memory	Cultural/lan- guage differences	Contact
	Check orientation of original	Check that original is facing the right way up and in the right direction											
	2. Align guides to paper size	Identify insertion slot Identify guides Align guides to paper size											
	3. Insert original into machine	Insert original into machine Check that original is correctly inserted											
Make a copy	4. Insert blank paper	Identify blank paper holder Insert blank paper Check that blank paper is correctly inserted											
	5. Press copy button	Identify copy button Press copy button Check that copy button has been pressed											
	6. End copying process	Confirm end of copying process Identify original Remove original Identify copy Remove copy											
	1. Raise locking lever	Identify locking lever Raise lever											
	2. Open cover	Identify where to hold cover Lift cover up Check that cover is fully open											
	3. Remove old ink cartridge	Identify position of ink cartridge Remove old ink cartridge											
	4. Insert new ink cartridge	Identify insertion position Insert new ink cartridge Check that new ink cartridge is correctly inserted											
Replace the ink cartridge	5. Close cover	Identify where to hold cover Push cover down Check that cover is fully closed											
		Confirm on LCD Identify button Press button Check that button has been pressed											
	6. Check operation of new ink cartridge	Check that button has been pressed Check that 'New' is selected Identify button Press button											
		Check that button has been pressed Check change of screen											

3. Disability design considerations for basic mobile telephone operations (1/5)

	Design consideration						Physical and	d mental abiliti	es/disabilities				
				Sensory				Physical			Cog	Allergy	
Objective	Operation	Steps	Seeing	Hearing	Touch	Dexterity	Strength	Single hand	Wheelchair	Voice	Intellect/ memory	Cultural/lan- guage differences	Contact
	Take out phone	Identify phone											
	Take out phone	Grasp phone and bring to face											
	2. Check that phone is on (press	Check that phone is on											
	and hold power button)	Locate and depress power button											
	3. Check battery level	Check battery level (on-screen icon)											
		(Extend antenna)											
	Check signal strength and area	Check signal strength (on-screen icon)											
	5. Select destination number												
	Enter telephone number directly	Enter telephone number using keypad											
Make a	Search phone book	Select from list											
telephone	Use speed dial	Enter via speed dial											
call	Select from recently dialed numbers history	Select from list											
	6. Confirm destination number	Confirm remote party											
	7. Send	Locate and depress send button											
	8. Talk	Hold phone to ear and talk into microphone											
	9. Adjust volume	Adjust volume during call											
	10. End call	Locate and depress end button											
	11. Check that call has ended	Check that call has ended											
	successfully	successfully Turn on keylock to prevent											
	12. Turn on keylock/flip closed	accidental operation or flip cover closed											
	13. Replace phone	Replace phone in cradle or holder											
	Recognize incoming call	Confirm incoming call/tone											
	2. Take out phone	Identify phone											
	z. Take out priorie	Grasp phone and bring to face											
	3. Confirm caller	Confirm caller from screen display											
	4. Press YES or TALK button	Press YES or TALK button											
Receive a telephone	5. Begin conversation	Hold phone to ear and talk into microphone											
call	6. Adjust volume	Adjust volume during call											
	7. End call	Locate and depress end button											
	8. Confirm that call has ended	Check that call has ended											
	successfully	successfully Turn on keylock to prevent											
	9. Turn on keylock	accidental operation or flip cover closed											
	10. Replace phone	Replace phone in cradle or holder										·	

3. Disability design considerations for basic mobile telephone operations (2/5)

			Physical and mental abilities/disabilities										
				Sensory				Physical			Cog	nitive	Allergy
Objective	Operation	Steps	Seeing	Hearing	Touch	Dexterity	Strength	Single hand	Wheelchair	Voice	Intellect/ memory	Cultural/lan- guage differences	Contact
	Navigate to new number screen	Confirm telephone number and											
phone	Enter numerals and text	procedure for storing Locate/select/convert/confirm input text Enter using QR code (2-D barcode)											
book	3. Correct any mistakes	Locate and depress the delete/clear key											
	4. Check entered information	Check information such as telephone number and email address											
	5. Store new number	Locate and depress store button											
	Check battery level	Check battery level (on-screen icon)											
	2. Connect recharger	Connect recharger to power point Connect recharger to phone											
	Confirm recharging status	Confirm that phone is recharging											
phone	Confirm that phone is fully recharged	Confirm that phone is fully recharged											
	Remove recharger	Remove phone from recharger cradle											
		or disconnect recharger											
		Go to main menu Select Messages from main menu											
	1. Select Messages	Confirm that Messages is selected											
		Press the Messages button In the event of error, press the Back key											
Receive a	Select Incoming Messages	Select Incoming Messages from main menu Check that Incoming Messages is selected											
message	3. Select Incoming Messages List	Select incoming messages list from Incoming Messages menu Select message to read											
	4. Read message	Select message from list Read message on screen											
	5. Reply to or forward message	Select Reply To or Forward Locate recipient, confirm and press send button											
	6. Store message	Select Store and confirm											
	7. Delete message	Select Delete and confirm											
	8. End	Return to main menu screen											

3. Disability design considerations for basic mobile telephone operations (3/5)

	Design consideration						Physical and	d mental abilitie	s/disabilities				
				Sensory				Physical			Cog	Allergy	
Objective	Operation	Steps	Seeing	Hearing	Touch	Dexterity	Strength	Single hand	Wheelchair	Voice	Intellect/ memory	Cultural/lan- guage differences	Contact
		Go to main menu											
		Select Messages from main menu											
	Select Messages	Confirm that Messages is selected											
		(Press the Messages button) In the event of error, press the Back key											
	Select Send Message	Select Create/Send Message from main menu											
	Š	Confirm that Create/Send Message is selected											
	3. Enter subject	Select/confirm message subject Enter text directly using keypad Convert kanji characters using Convert key											
		Select from templates Check over text and confirm											
Send a message		Select recipient and confirm Enter address directly using keypad Use address from address book											
	4. Enter address	Locate recipient in address book Locate recipient from previously received message											
		Confirm recipient address											
		Select message text field Enter message text directly using keypad											
	5. Enter message text	Convert kanji characters using Convert key											
		Select from templates Check over text and confirm											
	6. Send message	Check over text and confirm Check over message and confirm											
	o. Oena message	Press the Send button											
	7. End	Return to main menu											

3. Disability design considerations for basic mobile telephone operations (4/5)

	Design consideration												
							Physical and	d mental abilition	es/disabilities				
Objective	Operation	Steps		Sensory				Physical			Cog	Allergy	
			Seeing	Hearing	Touch	Dexterity	Strength	Single hand	Wheelchair	Voice	Intellect/ memory	Cultural/lan- guage differences	Contact
	Dragg the many hytten (internet	Identify menu button											
	Press the menu button (internet services button)	Press menu button											
	Services buttorny	Check outcome											
		Identify highlighted item											
	Use the + cursor (or equivalent) to navigate through internet menus	Identify Shift button											
	and services	Press Shift button											
	and solvious	Check outcome											
		Identify Confirm button											
	Press the Confirm button	Press Confirm button											
		Check outcome											
_	Check internet services	Check internet service status icon											
Browse the internet		View content (preset menus as well as history, links, favorites, etc.)											
		Identify highlighted item											
		Identify Shift button											
		Press Shift button											
	Navigate to web page by choosing	Check outcome											
	from list	Identify Confirm button											
		Press Confirm button											
		Check outcome											
		Identify access keys for link items (options) in content											
		Press corresponding number key											
		Check outcome											

3. Disability design considerations for basic mobile telephone operations (5/5)

	Design consideration						Physical and	d mental abiliti	es/disabilities				
				Sensory				Physical			Cog	Allergy	
Objective	Operation	Steps	Seeing	Hearing	Touch	Dexterity	Strength	Single hand	Wheelchair	Voice	Intellect/ memory	Cultural/lan- guage differences	Contact
		Select URL direct entry from menu and enable text entry											
		(text input/editing) Identify [http://] as already entered, and check the text entry cursor position											
		(text input/editing) Identify text on operation number keys											
		(text input/editing) Press number keys for text entry											
		(text input/editing) Identify text displayed on screen											
	Navigate to web page by entering	(text input/editing) [Delete Character] Identify character at current cursor position											
	URL directly	(text input/editing) [Delete Character] Identify character delete button											
Browse		(text input/editing) [Delete Character] Press character delete button											
the internet		(text input/editing) [Delete Character] Confirm outcome											
		(once text input is complete) Identify button to end text input											
		Press button to end text input											
		Confirm outcome of text input											
		Identify Connect button											
		Press Connect button											
		Identify display that appears during access or data download											
	Display during access	(depending on device and settings) Identify access completed (sound or display)											
	Web page displayed	Identify new web page											
		Identify button for ending internet											
		session (such as power off key)											
	End internet session	Press button for ending internet											
		session (such as power off key)											
		Confirm outcome from screen or											
		lamps											

4. Disability design considerations for basic video telephone operations

			Physical and mental abilities/disabilities									
Objective	Operation	Steps	Sensory				Physical			Cog	nitive	Allergy
	1. Check camera	Check picture to be sent to remote party										
		Identify keypad										
	Dial destination telephone	Press number keys										
	number	Check that number keys have been pressed										
		Confirm telephone number entered										
Transmit		Identify button										
	Press talk/videophone button	Press button										
	3. Fress talk/videoprione button	Check that button has been pressed										
		Check during cal										
		Identify End button										
	4. End call	Press End button										
		Check that End button has been pressed										
	Incoming call	Confirm incoming call										
	T. Incoming call	Identify type of call (voice or video)										
	2. Check camera	Check picture to be sent to remote party										
		Identify button										
	0. Danes telly/delegations by the	Press button										
Receive	Press talk/videophone button	Check that button has been pressed										
11000110		Check during call										
		Identify End button										
	4. End call	Press End button										
		Check that End button has been										
		pressed										
	5. Auto receive function enabled	Select auto receive for voice/video calls										
		Switch between local and remote control										
	Local/remote camera control	Press the pan and tilt buttons										
		Identify the hands free button										
	2. Switch hands free operation	Press the hands free button										
Operations during call	on/off	Check that the hands free button has been pressed										
Saming Call	Adjust volume during call	Press the volume adjustment button										
	4. Switch to handset	Pick up handset										
	Frame rate required for sign language	Minimum 15 fps										
	Camera can be used to capture scenery other than speaker											

5. Postings on the Info-Communication Access Council website

Where a product is judged to have good accessibility design in the evaluation process, the evaluation findings should be released publicly in order to ensure the product is known to as many users as possible, including but not limited to older persons and persons with disabilities.

Evaluation findings are normally posted on the Info-Communication Access Council website at http://www.ciaj.or.jp/access, and can also be posted on the websites of the product developers and in other forums.

The procedure for posting evaluation findings on the Council's website is given below:

- 1. Text is prepared in the form of a Word document
- 2. Text file is sent together with a request by email to the Secretariat of the Info-Communication Access Council at the address below
- 3. File is processed by the Secretariat
- 4. Provisional server upload (checked by requester)
- 5. Posted on website

Details

- 1. Company name
- 2. Product name
- 3. Photograph of product
- 4. Overview of product
- 5. Description of accessibility features
- 6. Evaluation checklist*
- 7. Address of website for additional information
- 8. Contact details for inquiries (contact name, department, telephone and fax number, email address)
- * The checklist should be compiled from the considerations stated in the Guidelines, based on the sample shown in Section 6, Sample Accessibility Evaluation Checklist for Fixed Line Telephones.

Note: In the event that information on a product on the Council website is no longer relevant (for instance, when the product is no longer sold), the following procedure applies.

- 1. The company contacts the Secretariat by email stating that the information should be deleted;
- 2. The Secretariat confirms that the information is to be deleted;
- 3. The Secretariat deletes the information.

Contact details for submitting files and obtaining information on procedures and methods are given below.

Secretariat of the Info-Communication Access Council (Communications and Information Networks Association of Japan CIAJ)

Mr. Shimizu

Mail: shimizuh@ciaj.or.jp

Tel: 03-3231-8768 Fax: 03-3231-3110

Ms. Ogata

Mail: <u>ogata@ciaj.or.jp</u> Tel: 03-3231-8770

Fax: 03-3231-3110

6. Sample accessibility evaluation checklist for fixed line telephones (1/2)

Function	Considerations	Incorporated Y/N	Remarks
	Packaging should be easy to open, of suitable size and shape, and made from appropriate materials.		
Packaging	Product should be easy to remove from the packaging or bag.		
	Packaging and binding tape used for transportation should be easy to locate and remove.		
Overall form	No risk of injury from handling.		
Materials	Materials with known allergic risks should be avoided.		
	Product should be easy to assemble and install following a logical procedure.		
	Product should be designed for simple installation (such as simple cable connections).		
	Normal operation of the product should not cause it to move or fall from its installed position.		
Installation and setup	Power cord and cables should be easy to connect and should not come loose during normal use.		
in Stallation and Setup	Accessories such as batteries should be easy to install; the product design should in itself prevent incorrect		
	installation.		
	Automatically connects to telephone line.		
	Simple procedure for entering details such as time, telephone number and station name.		
	Display and key layout design should be designed on the basis of user thought processes and operation		
	procedures.		
	Appropriate row length and information content on display.		
Layout of operation	Display and keys should be adequately spaced to enable easy operation.		
keys	The direction in which switches and buttons are used should be intuitively aligned with the operation of the		
•	equipment.		
	Operation keys should be grouped in functional groups by shape, location or color to facilitate visual and		
	tactile identification.		
	Information should be displayed in simple language; operation procedures should be tailored to the thought		
	processes of the user.		
0	Operation procedures should be consistent and based on user thought processes.		
Operation procedure	Product should be designed to support low-speed data entry.		
	Product should provide visual and auditory warning before automatically changing modes when the input time		
	limit expires.		
	Key shape designed to facilitate visual as well as tactile identification.		Shape specifications
	Keys can be readily distinguished from other keys and buttons either visually or by touch.		Identifier lug on 5 key: Position, diameter, height, etc.
	Keys provide tactile response when depressed.		Click
	Key input can be confirmed both visually and by auditory response.		Beep or synthesized voice alert
l/auma d	Key size, shape and layout is designed to prevent accidental operation of adjacent keys.		Shape, size, spacing, etc.
Keypad	Product can be set to prevent double key mistakes.		
	Product can be set to prevent key repeat mistakes.		
	Numbers (and other information) on keys are printed in easily distinguishable, large, high-contrast type.		Font, character height, brightness difference
	Keys can be operated using self-help aids such as artificial limbs and mouse sticks as well as hands and		Concave button
	Touch panel software keys can be operated without looking at the product.		Guides or other alternative methods
	Shape designed to facilitate both visual and tactile identification.		
	Keys and buttons provide tactile response when depressed.		
	Visual and auditory response when depressed.		
Other keyn and	Size, shape and layout designed to prevent accidental operation of adjacent keys/buttons.		
Other keys and	Product can be set to prevent double key mistakes.		
buttons	Product can be set to prevent key repeat mistakes.		
	Numbers (and other information) on keys are printed in easily distinguishable, large, high-contrast type.		Font, character height, brightness difference
	Keys can be operated using self-help aids such as artificial limbs and mouse sticks as well as hands and		
	Touch panel software keys can be operated without looking at the product.		
	Easy-to-hold, non-slip design with good weight balance.		Serrated surface; non-stick materials
Handset	Handset orientation and position is readily identifiable.		·
	Features to enable use of product without holding handset.		Speakerphone feature; earphone and microphone terminals

6. Sample accessibility evaluation checklist for fixed line telephones (2/2)

Function	Considerations	Incorporated Y/N	Remarks
	Volume adjustment.		In dB increments up to maximum of dB
	Auto reset for volume adjustment.		·
	Volume can be adjusted during a call.		
	Visual confirmation of current volume.		Volume level indicated by display icon
Receiver tones	Other forms of adjustment to suit auditory capacity of user.		Sound quality adjustment, bone conduction, voice speed conversion
	Does not generate noise in hearing aid or artificial ear.		
	Compatible with hearing aid induction coil (T-mode) systems.		
	Side tone provided.		
	Equipped with external output terminal (earphone jack).		
	Incoming ring volume adjustment.	1	Maximum dBspl
Incoming call ring	Visual confirmation of incoming call.		Lights flash while ringing
	Easy to see characters.	1	Character height and contrast
	Text size enlargeable.		Maximum character height
	Displayed information is color-independent.		
Display	Reflection-resistant display.		
	Brightness and contrast adjustment.		
	Displayed information does not disappear too quickly.		Example: display speed, time, history feature
	Easy to see in low-light conditions.		Backlight feature
	Easy to distinguish characters and symbols at actual viewing distance in ambient light conditions.	1	For fixed telephones?
Printed information	Size, shape and contrast designed to make characters and symbols easy to read.		Examples of smallest and largest characters? Gothic font, character height, brightness difference
	Displayed information is independent-independent.		
	Information is displayed in close proximity to the feature it describes.		
Terminology, icons and symbols	Terminology, icons and symbols are easy to understand.		
	Volume and frequency designed to be easily distinguishable in noisy environment.		Conforms to JIS S0014:2003
Alert tones	Volume adjustment.		
	Mute feature provided.		
	Appropriate volume and voice quality.		
	Voice speaks slowly; pauses provided.		
Voice guidance	Volume and speed adjustment.		
•	Clearly spoken.		
system	Plain, everyday speech; procedure designed on the basis of user thought processes.		
	Voice guidance information is also displayed for visual confirmation.		
	Mute feature provided.		
Operation	Visual confirmation of line status to complement tones.		
confirmation	Where calling number display feature is provided, caller details can also be spoken.		Voice read out via voice synthesis
Support services	Instruction manual is easy to understand.		
Support services	Instruction manual also provided in electronic version.		For instance, PDF file can be downloaded from website

7. Ministry of Posts and Telecommunications Notification No. 515

Guidelines for improving accessibility to telecommunications services for older persons and persons with disabilities are described below.

October 30, 1998

Seika Noda, Minister for Posts and Telecommunications

Guidelines on Accessibility to Telecommunications Services for Older Persons and Persons with Disabilities

1. Objectives

These Guidelines set out indicators of features and other aspects of telecommunications equipment designed to improve accessibility to telecommunications services for older persons and persons with disabilities, thereby promoting equality of access to information for all.

2. Definitions

- 1. In these Guidelines, "telecommunications equipment" refers to any machine, device, line or other electrical equipment used for telecommunications purposes.
- 2. In these Guidelines, "accessibility" refers to initiatives designed to enable older persons and persons with disabilities to utilize telecommunications services with ease.

3. Required accessibility features

1. Functionality to enable input regardless of disability

Where possible, the following functionality should be incorporated into telecommunications equipment to allow older persons and persons with disabilities to perform the necessary input operations.

- (1) Input method not solely reliant on visual confirmation
- (2) Input method does not require the user to distinguish between colors
- (3) Input method not solely reliant on auditory confirmation
- (4) Input method suitable for users with limited mobility
- (5) Input method compatible with the use of artificial limbs
- (6) Input method not subject to time limits
- (7) Input method does not require the user to speak
- 2. Functionality to enable utilization of output results regardless of disability

Where possible, the following functionality related to the output and display of information necessary for operation should be incorporated into telecommunications equipment to facilitate utilization by persons with limited visual and/or auditory capacity.

- (1) Visual data can be utilized without need for visual confirmation
- (2) Video images can be stopped if necessary
- (3) Auditory data can be utilized without need for visual confirmation
- 3 Functionality to facilitate use of telecommunications equipment regardless of disability
 - (1) Input keys and buttons used for input/output operations are located in readily identifiable positions
 - (2) Basic communication settings can be entered in a single operation.
 - (3) During operation, the user has the option to revert to a default or optional status at any time.
 - (4) The process of connecting with the network and remote party can be represented on the display if required.
 - (5) Connection to at least one designated destination can be achieved via a single operation.
 - (6) Contact details such as telephone number or email address, once entered, remain available for subsequent reuse or storage in memory.
 - (7) A customizable user interface is provided.
 - (8) The user is able to select from several different input and output methods.

4. Connectivity with aids

Where the telecommunications equipment cannot be provided with the functionality described in 3 above, it should be designed to support connection to or usage in conjunction with common communication aids used by older persons and persons with disabilities.

5. Other considerations

1. Design, development and evaluation

Accessibility and connectivity should be evaluated at the design and development stages of telecommunications equipment, and the results of such evaluation should be incorporated into the design and development processes as efficiently as possible.

2. Specifications information and user manual

As far as possible, specifications information and user manuals for telecommunications equipment should be released into the public domain and made available in accessible form (such as on a website).

3. Maintaining accessibility and connectivity

Telecommunications equipment should continue provide the accessibility and connectivity functionality described in these Guidelines after updating.

8. About the Info-Communication Access Council

Info-Communication Access Council

Chairman Tadao Saito, Emeritus Professor of Tokyo University

Acting Chairman Yoshio Hayashi, Emeritus Professor of Keio University

Representative of Suppliers Subcommittee Representative of Users Subcommittee

· Release of voluntary industry standards

(inaugurated November 19, 1998)



Suppliers Subcommittee

Chairman Kenzo Ito
Professor, Software
Informatics Department,
Iwate Prefectural University

· Member groups

Telecommunications Carriers Association (TCA) Telecom Service Association (Telesa)

Association of Radio Industries and Businesses (ARIB) Communications and Information Network Association of Japan (CIAJ)

 Investigating means of achieving the accessibility standards outlined in the Guidelines



Users Subcommittee

- Chairman Takemasa Matsuo Managing Director, Japanese Council of Social Welfare
- · Member groups

Japanese Federation of the Deaf All Japan Association of Hard of Hearing People

Japan Federation of Disability Groups (Nissenren)

Japan Federation of the Blind
Japanese Society for Rehabilitation
of Persons with Disabilities
Japan Council on Disability (JD)
Koto Senior Network Club

·Coordinating proposals from member groups

(inaugurated November 19, 1998)



Internet Accessibility Subcommittee

- ·Chairman Yoshio Hayashi, Emeritus Professor of Keio University
- · Member groups

Internet accessibility academics and consultants

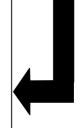
Academics from the Suppliers and Users Subcommittees

Developing internet (content) accessibility initiatives (inaugurated September 4, 2000)



- Chairman Yoshio Hayashi, Emeritus Professor of Keio University
- Member groups Nominated representatives from other subcommittees
- ·Investigating and coordinating proposals from all subcommittees; reporting to the Supplier and User Subcommittees

(inaugurated November 19, 1998)



Secretariat (Communications and Information Network Association of Japan)

Ministry of Internal Affairs and Communications, Ministry of Health, Labour and Welfare,
Ministry of Economy, Trade and Industry (observer status)

