INSTRUCTION MANUAL

A preliminary draft copy of the Users Manual follows in four parts (Exhibit 8A through Exhibit 8D):

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Data Communication from FOMA Handsets

You can perform three types of data communication with your FOMA handset and your PC; namely, packet communication, 64K data communication and data transfer PC.

Available Data Communication Types

●Packet communication
Communication charges are based on the volume of exchanged data.
Suitable when you wish to stay connected to the network and exchange data on an as needed basis.
Data can be transmitted with maximum download speed of 384Kbps, maximum upload speed of 64Kbps via network supporting FOMA Packet communication such as "mopera" (DoCoMo's Internet provider service). The M1000 can also be used for data communications overseas by accessing GPRS access points.

- Performing large volumes of data communication may result in high charges.

●64K data communication
Communication charges are based on the duration of time being connected to the network.
Stable 64K bps data transmission can be performed via network supporting FOMA 64K data communication such as "mopera" (DoCoMo's Internet provider service) or synchronized ISDN 64K access points.
The M1000 can also be used overseas by accessing CSD data communication supported access points.

●Data transfer
Data can be transferred free of charge between a PC and FOMA handset. The FOMA handset can be connected directly using the accompanying USB cable or by connecting the desktop holder to a PC using the USB cable. To transfer data, install the Desktop Suite to the PC. →P527

Connecting the FOMA Handset and PC

To connect your FOMA handset to a PC or PDA either of the following methods can be used.

USB Connection

●Connect with the accompanying-USB cable →P414

- Separately sold FOMA USB cables can also be used.

●Connect with USB cable for PC via Desktop holder →P415

Bluetooth Connection

●Connect via Bluetooth →P419

- Device registration is required prior to use. →P382

Cautions

Internet Service Provider Charges

You will be charged by your Internet Service Provider (ISP, hereafter) to connect to the Internet. FOMA Service does not include the ISP fee and it must be paid to the ISP directly. Contact your ISP for further details.

"mopera", is DoCoMo's free Internet provider service that does not require you to register.

Setting up ISP Connection

ISP settings differ between Packet communication and 64K data communication. Select appropriate access points for Packet communication. For 64K data communication, select an access point which supports FOMA 64K data communication or synchronized ISDN 64K.

- Connection to DoPa is not supported
- Connection to PHS64K/32K Data Communication such as PIAFS is not supported.

User Authentication when Accessing the Network

Connection may require authentication (ID and password). Enter the user ID and password in Dial-up Network when prompted. Contact the network administrator or the ISP to obtain the ID and password, and further details.

Prerequisites to Packet Connection and 64K Data Communication

Communication using FOMA handsets requires meeting the following conditions. The service, however, may be unavailable even if required conditions are met due to traffic conditions at base stations or radio wave conditions.

- PC must support USB cables
- For Bluetooth connection, devices such as PC has must comply with Bluetooth Ver1.1 Dial-up Networking Profile standards.
- To be within the FOMA service area
- For Packet communication, the access point must support FOMA Packet communication
- For 64K data communication, the access point (the designated network) must support FOMA 64K data communication or 64K synchronized ISDN.

■Data communication terminologies

APN
Stands for Access Point Name. Identifies the network to log in (ISP or LAN) for Packet communication. DoCoMo's Internet connection service mopera's APN is "mopera.ne.jp".

Bluetooth ON →P382

Bluetooth device registration →P382

cid
Stands for Context Identifier. APN registration number is registered in FOMA made up of digits 1 to 10. Up to ten APN's can be registered.

DNS
Stands for Domain Name System
The system converts an address made up of digits identified by computers to a 'name' such as "mopera.ne.jp" for easier recognition by human.

QoS
Stands for Quality of Service and indicates quality of network service. Data transmission speed can be specified on a FOMA handset.* →P461

*: The actual data speed may vary by depending on network conditions.

W-TCP
TCP parameters that optimize TCP/IP transmission capability during Packet communication over FOMA network. Optimization of TCP parameters is necessary in order to generate the maximum FOMA communication capabilities.

Administrator rights on PC
Full access rights to Windows XP and Windows 2000 systems. All other users do not have rights to install drivers (connection setup files).

Before Using Data Communication

PC System Requirements

PC System requirements for data communication are as follows:

Item	Requirement
PC main unit	• PC-AT compatible machine with a CD-ROM drive • USB Port (Universal Serial Bus Specification Rev1.1/2.0 compliant) • Display Resolutions 800 × 600 dots, High Color(65,536Colors) or higher recommended
OS	• Windows 98, Windows Me, Windows 2000, Windows XP (Japanese Version)
Memory	• Windows 98, Windows Me:32MB or more* • Windows 2000:64MB or more* • Windows XP:128MB or more*
HDD space	• 5MB of available space or more*

*: Required memory and HDD space may depend on PC system specifications.

NOTE

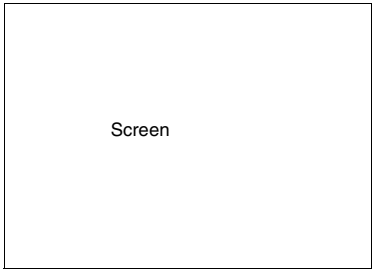
- Data communication may not be enabled subject to system properties. DoCoMo does not guarantee proper operations nor respond to inquiries when used with system requirements that are not mentioned above.

Connecting PC and FOMA Handsets

Setting up connection with a USB cable is described in this section.

The FOMA handset can be connected directly using the accompanying FOMA USB cable or by connecting the desktop holder using the PC USB cable.

To Connect Using the Accompanying FOMA USB Cable



1 Remove the cap covering the external connection interface of the FOMA handset

2 Connect the accompanying USB connector to a USB port on the PC

3 Match the direction of the external connector of the accompanying USB cable with the external connection interface on the FOMA handset and insert the connector straight

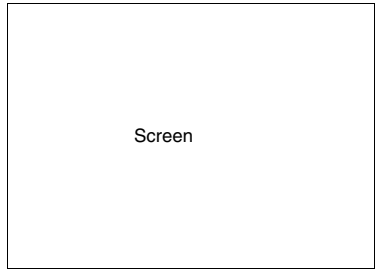
Once the connection is established, the FOMA handset displays "USB cable connected".

NOTE

- Use the accompanying FOMA USB cable or a FOMA USB cable sold separately. Do not use general PC USB cables as the connector interface does not match the shape of FOMA external interface.
- Do not apply force to the connector when inserting. The connectors can only be inserted in the correct direction and at the correct angle. When inserted correctly, the connectors can be inserted smoothly. In case of difficulty in inserting confirm the orientation of the connectors.

■Removing the USB cable

① Pull the USB cable out straight while holding down the release button on the external connector.



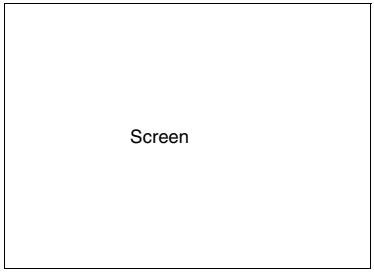
② Pull out the USB cable from PC

Connecting a General PC USB Cable to a Desktop Holder

The desktop holder enables data communication by connecting the FOMA handset to both the PC and the AC adapter.

- Use a general USB cable with connectors that support USB Rev1.1/2.0 Series A compliant.

1 Connect Desktop holder to a PC by using the PC USB cable



2 Attach the FOMA handset to the desktop holder

See P54 on how to attach/remove.

Preparing for Data Communication

Preparations for packet communication/64K data communication by connecting the FOMA handset with the PC is described in this section.

Via USB connection	Via Bluetooth connection*
Install connection setup file (drivers) →P416	Connect the FOMA handset with PC →P419
	Install connection setup file (drivers)*→P416

Set up connection details	
To set up using the FOMA PC setup software →P419	To set up without using the FOMA PC setup software →P436

Connect →P429, P451
Disconnect →P430, P452

*: Connection setup file (drivers) installation is not necessary if a Bluetooth modem other than that of FOMA handsets has already been installed. Go on to set up connection details. See P417 to check for an installed Bluetooth modem.

■About Connection setup file (drivers) and FOMA PC setup software

Connection setup file (drivers) and FOMA PC setup software are included in the FOMA M1000 CD-ROM.

- M1000 setup file is the driver software for Packet communication, 64K data communication or data transfer used for connecting the FOMA handset with the accompanying FOMA USB cable to a PC. M1000 setup file installs necessary drivers to Windows.
- FOMA PC setup software enables easy setup of Packet communication, 64K data communication or Dial up networking.

NOTE

- If "FOMA M1000 USB" is not displayed in "Uninstall M1000 setup file (drivers) "(→P418), the installation has failed. Run uninstallation (→P418) and try installation again.
- Uninstall driver if PC does not recognize the FOMA handset for some reason and install it again.

Installing Connection Setup File (Drivers) for M1000

- Install all drivers in one attempt when installing the M1000 setup file. Installation may be unsuccessful if the accompanying FOMA USB cable is pulled out, or if [Cancel] is clicked during installation. If installation is unsuccessful, use uninstall procedures to delete the M1000 setup file by following uninstall procedures (→P418), and try installing again.
- Log in as a user with administrator rights when installing the M1000 communication set up file to Windows 2000 or Windows XP. Contact the PC manufacturer or Microsoft regarding operations related to administrator rights settings.

【仕様未定につき、記載省略します。】

Checking Connection Setup Files (Drivers)

Checking whether the M1000 setup file is installed properly.

1 Launch the “コントロールパネル” (Control Panel) in Windows

■Windows XP

Click “スタート” (Start) ▶ “コントロールパネル” (Control Panel)

■Windows 2000, Windows Me or Windows 98

Click “スタート” (Start) ▶ “設定” (Settings) ▶ “コントロールパネル” (Control Panel)

2 Launch the “システム” (Systems) in “コントロールパネル” (Control Panel)

■Windows XP

Click “システム” (Systems) in “パフォーマンスとメンテナンス” (Performance and Maintenance)

■Windows Me

Click “すべてのコントロールパネルのオプションを表示する” (Show all options in Control Panel) if “システム” (Systems) icon is not displayed in the “コントロールパネル” (Control Panel).

3 Launch the Device Manager

■Windows XP or Windows 2000

Click “ハードウェア” (Hardware) tab then click “デバイスマネージャ” (Device Manager).

■Windows Me or Windows 98

Click “デバイスマネージャ ” (Device Manager) tab

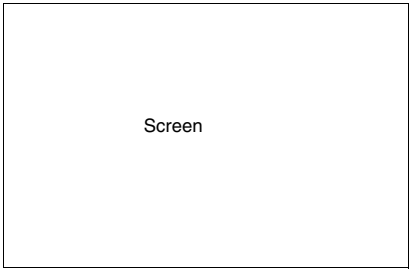
4 Check installed driver names by clicking each device

Check whether all drivers are listed under “ポート（COMとLPT)” (Port(COM and LPT), “ユニバーサルシリアルバス”(USB) “コントローラ” (USB Controller) and “モデム” (Modem).

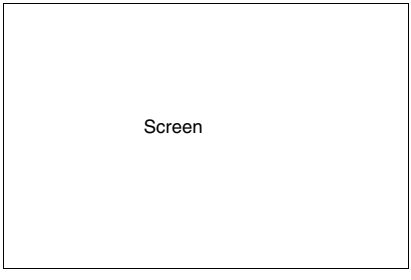
Go to "Using FOMA PC Setup Software" (→P419) if all driver names are found.

Connecting with USB

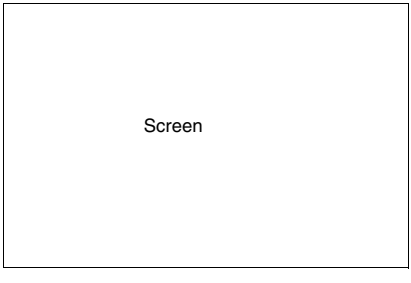
(Windows XP)



(Windows 2000)



(Windows Me, Windows 98)

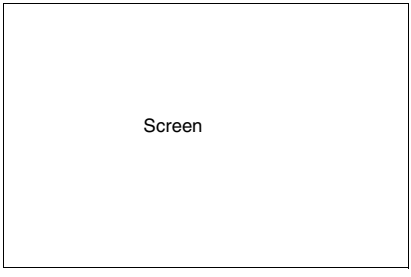


Device name	Driver name
Port (COM/LPT)	• FOMA M1000 Command Port • FOMA M1000 OBEX Port
Modem	• FOMA M1000
Universal Serial Bus (USB) Controller or USB (Universal Serial Bus) Controller	• FOMA M1000 • FOMA M1000 Command* • FOMA M1000 Modem* • FOMA M1000 OBEX*

*: only for Windows Me/98

Connecting with Bluetooth

(Windows XP)



Device name	Driver name
Modem	To be decided

NOTE

- Upon verifying above, if the list of driver names is incomplete, delete the M1000 setup file by following uninstall procedures, and try installing again.

Uninstalling M1000 Connection Setup Files (Drivers)

Follow the procedures below when uninstalling of drivers is necessary. The uninstall instructions below are for Windows XP.

Connecting with USB

【仕様未定につき、記載省略します。】

Connecting with Bluetooth

【仕様未定につき、記載省略します。】

Preparing for Bluetooth Connection

【仕様未定につき、記載省略します。】

FOMA PC Setup Software

Packet communication or 64K data communication from FOMA handset to PC requires various settings. FOMA PC setup software enables easy configuration simple operations.

- Packet communication or 64K data communication can be set up without using FOMA PC setup software. →P436
- See P414 for connection between FOMA handsets and PC

Simple settings

Follow the guidance to set up "Create FOMA data communication Dial-up Network" while configuring "W-TCP settings" etc. automatically.

W-TCP settings

The communication settings in PC are optimized before using "FOMA Packet communication".

Optimizing W-TCP settings is required in order to maximize connection performance.

Setting up Access Point Names (APN)

Access Point Names for Packet communication need to be setup.

Unlike 64K data communication, FOMA Packet communication does not require use of a telephone number. Register Access Point Names in FOMA handset and connect to the network by designating its registered number (cid) in the access telephone number field.

"mopera" is pre-registered as mopera.ne.jp, the first in the cid list by default. Set up APNs to connect to other ISP's or LAN's.

NOTE

- If W-TCP setup software or FOMA data communication setup software not included in the bundled FOMA M1000 CD-ROM have already been installed, uninstall them prior to installing the FOMA PC setup software.

Procedures from Installation of FOMA PC Setup Software to Internet Connection

Step1: Install software

FOMA PC setup software is installed

- Uninstall "old W-TCP setup software", "old APN setup software" or older versions of "FOMA PC setup software" before installing "FOMA PC setup software".
  "FOMA PC setup software" cannot be installed if "old W-TCP setup software" or "old APN setup Software" is installed.

Step2: Prepare before setting up

Preparations are conducted prior to setting up

- Check that FOMA handset is connected to the PC and is acknowledged by the PC.
- See P414 for connecting FOMA handset with PC.
- If FOMA handset is not properly acknowledged by PC, various setup and data communication cannot be done. If the FOMA handset is not acknowledged then see P416 to install the connection setup file.

Step3: Perform various settings

Setup is done according to the desired type of data communication

- Configuring simple settings
  - Packet communication setting using "mopera" →P423
  - Packet communication setting using other Internet Service Providers →P424
  - 64K data communication setting using "mopera" →P427
  - 64K data communication using other Internet Service Providers →P428
  - See P436 onwards for all other settings.

Setup 4: Connect

Connection to the Internet is made

- See P429 for connection procedures.

Before Installing

Check the system requirements.

- Use the FOMA PC setup software under the following system requirements.

Item	Requirement
PC main body	• PC-AT Compatible
OS	• Windows 98, Windows Me, Windows 2000, Windows XP (Japanese Version)
Memory	• Windows 98 or Windows Me: 32MB or more* • Windows 2000: 64MB or more* • Windows XP: 128MB or more*
HDD Space	5MB or more*

*: Required memory and HDD space may vary depending on the system configuration of the PC.

Installing FOMA PC Setup Software

- Log in with the user account with Administrator rights to install ("FOMA PC setup software") on Windows XP or Windows 2000. Contact the PC manufacturer or Microsoft regarding administrator rights setting.
- Check that no resident program or application is in use before installation. If any program is in use, click [キャンセル] (Cancel) to end the program and start installation again.

1 【仕様未定につき、記載省略します。】

2 【仕様未定につき、記載省略します。】

If displayed screens show that old "*W-TCP* 設定ソフト" (W-TCP Setup Software) or old "*APN* 設定ソフト" (APN Setup Software) are installed, refer to P421.

3 Click [はい] (Yes/agree) to agree to the End User License Agreement after reading

Installation will be canceled if [いいえ] (No/disagree)is clicked.

4 Click [次へ] (Next)

Select whether "W-TCP Setup Software" stays in Task tray or not after setting up. Selecting the checkbox (Remain in Task tray) is recommended for the program to set/release the optimization of "W-TCP communication".
Select "タスクトレイに常駐する" (Remain in Task tray) $$ and continue the installation unless you have any particular problem. Settings can be changed by clicking on "メニュー" (Menu) in FOMA PC setup software and selecting "*W-TCP* 設定をタスクトレイに常駐させる" (Set W-TCP Software in task tray) even if "タスクトレイに常駐する" (Stay in task tray) has been deselected.

* You are unable to select if "タスクトレイに常駐する" (Remain in task tray) has been selected.

Displays icon in the task tray on the bottom right (normally) of the PC screen.

5 Verify the installation folder and click [次へ](Next)

Click [参照] (Browse) to make changes, specify desired installation folder, and click [次へ] (Next).
If HDD lacks space, you can install to a different driver. Otherwise, proceed accordingly.

6 Verify the folder name and click [次へ] (Next)

Name the new folder and click [次へ] (Next) if necessary.

Screen

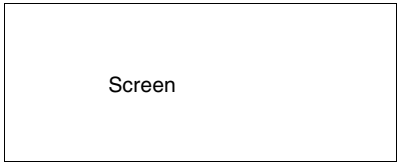
7 Click [完了] (Done)

"FOMA PC setup software" operation screen is launched when setup is complete. Proceed to each setup.

Precautions during Installation of FOMA PC Setup Software

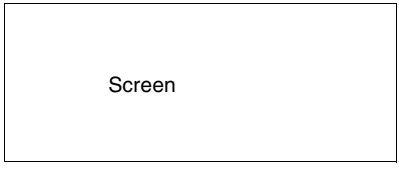
■If "old W-TCP setup software" is installed

The following message is displayed.



Delete "旧W-TCP 設定ソフト" (Older version of W-TCP Setup Software) from *AddlDelete Programs* in the Control Panel

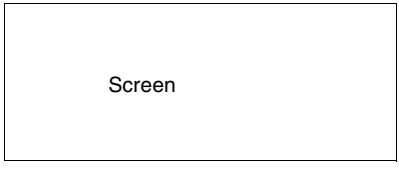
■If "Older version of Access Point Name Setup Software" is installed, the following message is displayed.



Click [はい] (Yes) to automatically uninstall the old software followed by the installation of FOMA PC setup software.

■If old versions of "FOMA PC setup software" is installed

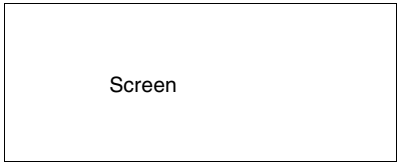
The following message is displayed.



Click [はい] (Yes) to automatically uninstall the old software followed by the installation of FOMA PC setup software.

■If "FOMA PC setup software" is already installed

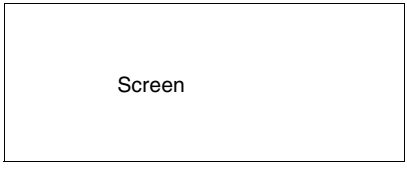
The Following message is displayed.



Click [はい] (Yes) to automatically uninstall the previously installed software followed by the installation of FOMA PC setup software.

■When [キャンセル] (Cancel) is clicked during installation

When [キャンセル] (Cancel) or [いいえ] (No) is clicked during installation, and when selected to not proceed further, the following screen is displayed.



Click [継続] (Continue) to proceed with the installation, and [中止] (Cancel) to terminate.

Setting up Data Communication

Settings for Packet communication or 64K data communication is made.

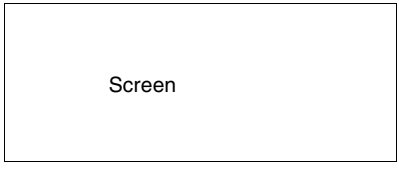
- Check that FOMA handset is properly connected to PC before setting up. →P414

Launch FOMA PC Setup Software

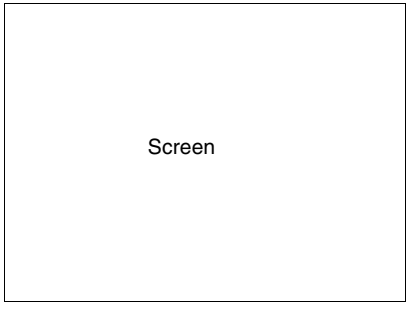
1 Click "スタート" (Start) ▶ "プログラム" (Programs) ▶ "*FOMA PC* 設定ソフト" (FOMA PC Setup Software) ▶ *FOMA PC* 設定ソフト (FOMA PC FOMA PC setup software)

Windows XP

Click "スタート" (Start) ▶ "すべてのプログラム" (All Programs) ▶ "*FOMA PC*設定ソフト" (FOMA PC setup software) ▶ "*FOMA PC*設定ソフト" (FOMA PC setup software)



FOMA PC setup software is launched and the operation screen is displayed.



Packet data communication using "mopera" →P423
Packet data communication using other Internet Service Providers →P424
64K data communication setting using "mopera" →P427
64K data communication using other Internet Service Providers →P428

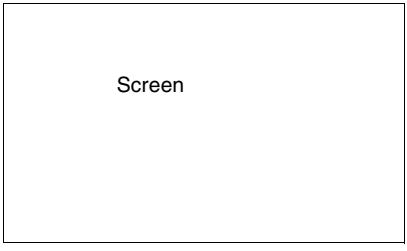
Simple Setting "Packet Data Communication with mopera"

High speed packet data communication with maximum speed of 384kbps via DoCoMo's ISP service called "mopera" is set up.

- High speed packet data communication : Maximum downlink speed 384kbps, Maximum uplink speed 64kbps (excluding some models). The charge is based on the volume of exchanged data. You do not need not to worry about the duration of connecting time. This service is based on a best-effort connection where transmission speed is affected by network traffic and communication infrastructure.
- Be cautioned that large volume data exchanges such as browsing web sites with images and downloading large files using Packet communication may result in high charges.

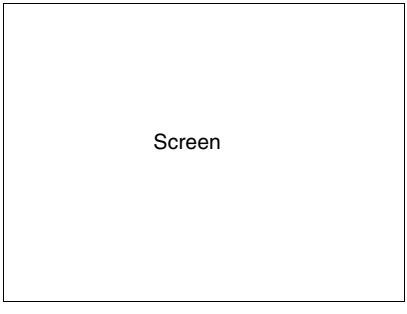
1 Click [かんたん設定] (Simple Settings)

2 Select "パケット通信" (Packet communication) then Click [次へ] (Next)



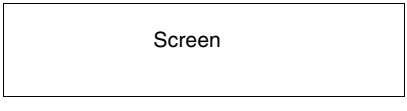
3 Select "*mopera* 接続" (mopera connection) then Click [次へ] (Next)

See P424 if you wish to use other ISP than "mopera".



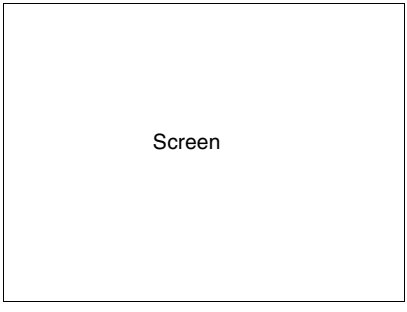
4 Click [OK]

Please wait while the FOMA handset connected to the PC obtains APN setup.



5 Enter the connection name then Click [次へ] (Next)

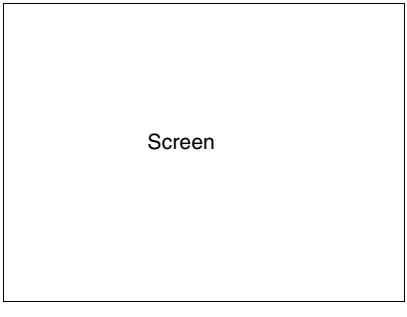
Specify the desired connection name.
Enter a recognizable name in “接続名” (Connection Name) field.
This field is case sensitive. Enter name accurately.
Invalid characters: ¥ / : * ? ! | " (single byte only) cannot be accepted.



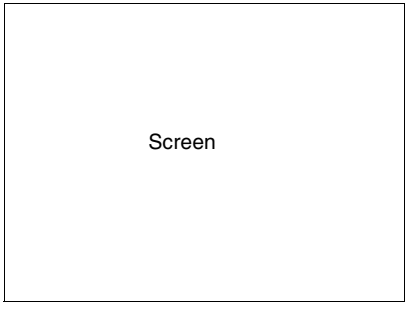
6 Input username/password then click [次へ] (Next)

When “*mopera*接続” (mopera connection) is selected, username/password are entry can be omitted.

(Windows XP, Windows 2000)



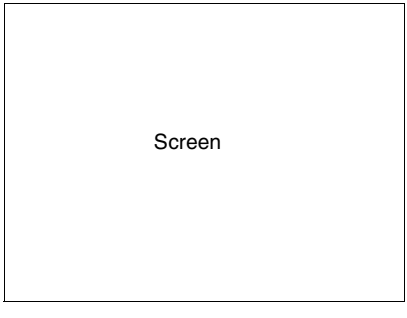
(Windows Me, Windows 98)



Select user when using Windows XP or Windows 2000.
Enter the username and password provided by the ISP. Enter accurately. The fields are case sensitive.

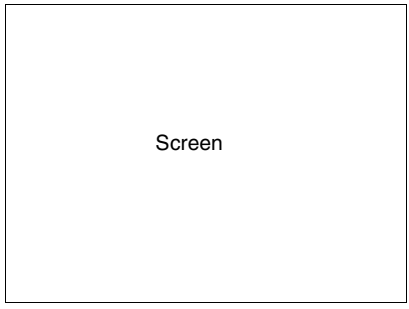
7 Check “最適化を行う” (Optimize) then click [次へ] (Next)

"W-TCP Settings" necessary for Packet communication is optimized. This message will not be displayed if it is already optimized.
Reboot PC to validate the change.



8 Confirm settings and Click [完了] (Done)

A list of all setting information is displayed. Check that all settings are properly configured.
A shortcut is created automatically if “デスクトップにダイヤルアップのショートカットを作成する” (Create Dial-up Networking shortcut on desktop) is selected.
Click [戻る] (Back) to modify setting information.



9 Click [OK]

Reboot PC to validate the changes. Click [はい] (Yes) if prompted by reboot selection screen.
Execute the connection →P429

Simple Setting "Packet Data Communication Setting Using Other ISP's"

High speed packet data communication with maximum speed of 384kbps is set up.

- High speed packet data communication : Maximum downlink speed 384kbps, Maximum uplink speed 64kbps (excluding some models). The charge is based on the volume of exchanged data. You do not need not to worry about the duration of connecting time. This service is based on a best-effort connection where transmission speed is affected by network traffic and communication infrastructure.
- Be cautioned that large volume data exchanges such as browsing web sites with images and downloading large files using Packet communication may result in high charges.

1 Click [かんたん設定] (Simple setting)

2 Select "パケット通信" (Packet communication) then Click [次へ] (Next).

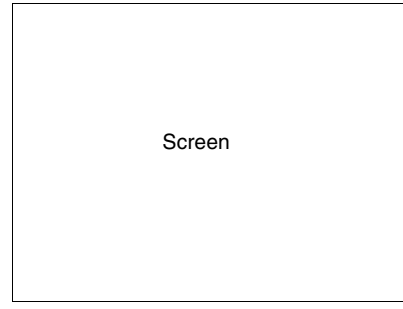
3 Select "その他" (Others) then Click [次へ] (Next)

4 Click [OK]

Please wait while the FOMA handset connected to the PC obtains APN setup.

5 Set up Packet communication

After acquiring handset settings, "パケット通信設定" (Packet communication settings) screen is displayed.
Specify a name in the APN input field
The field is case sensitive. Enter accurately.
Invalid characters: ¥ / : * ? !<> | " (single byte only) cannot be accepted
If "発信者番号通知を行う" (display ID number) is selected, Phone number. will be notified to the receiver while making a call.
mopera.ne.jp is set by default in the "接続先(*APN*)の選択" (Select APN) field.



6 Set up APN

mopera.ne.jp is pre-registered by default as the first cid.
Click [追加] (Add) to display "接続先(APN)の追加" (Add APN) to specify the desired APN in the field. The APN must support FOMA Packet communication. Click [OK].
You are reverted to the "接続先(*APN*)設定" (set up APN) screen.
Only single byte alphanumerical characters, (-) dash, and (.) full stop, can be entered in the APN field.
Up to 10 cid can be registered.

- Select "*PDP-PPP*方式" (PDP-PPP connection) or "*PDP-IP*方式" (PDP-IP connection) from "ダイヤルアップ種別" (Dial-up Networking types) if field "ダイヤルアップの表示" (Display Dial-up Networking) is set to "全表示" (Display all) →P435

7 Configure Advanced Settings (TCP/IP)

Click [詳細情報の設定] (Advanced settings) in “パケット通信設定” (Packet communication settings) to display “*IP*アドレス” (IP Address) and “ネームサーバー” (Name Server) setting screen. Input necessary information related to ISP and LAN Dial-up Networking where required.

8 Select APN then click [OK]

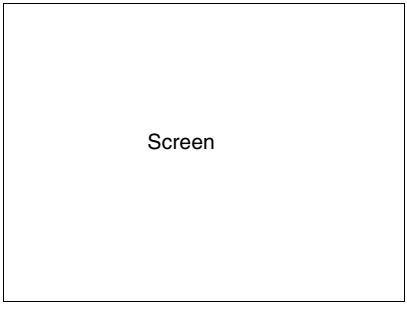
Back to Step 5.
The APN list set in Step 6 is displayed in the “接続先(*APN*)の選択” (Select APN) dialog.

9 Verify connection with designation (APN) in “接続先(*APN*)の選択” (Select APN) menu then click [次へ] (Next)

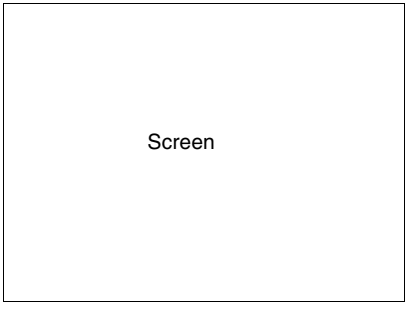
10 Set username and password then click [次へ] (Next)

In Windows XP or Windows 2000, select user.

(Windows XP, Windows 2000)



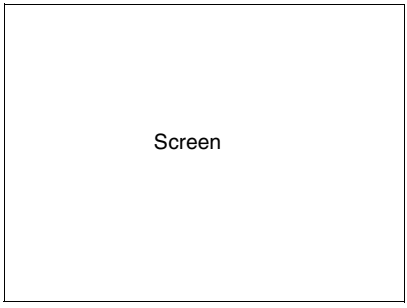
(Windows Me, Windows 98)



username and password provided by ISP must be entered correctly. Note that fields are case sensitive.

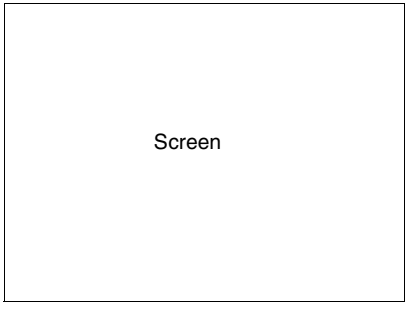
11 Select “最適化を行う” (Optimize) then click [次へ] (Next)

“*W-TCP*設定” (W-TCP setting) necessary for Packet communication is optimized. This screen is not displayed if already optimized. (Proceed to step12)



12 Verify setting information then click [完了] (Done)

All configured settings are listed. Verify that there are no errors in the setup information. A shortcut on desktop will be created automatically if “デスクトップにダイヤルアップのショートカットを作成する” (Create Dial-up Networking shortcut on desktop) is selected.
Click [戻る] (Back) to change settings



13 Click [OK]

Reboot PC to validate changes. Click [はい] (Yes) if prompted by the reboot selection screen.
Execute the connection →P429

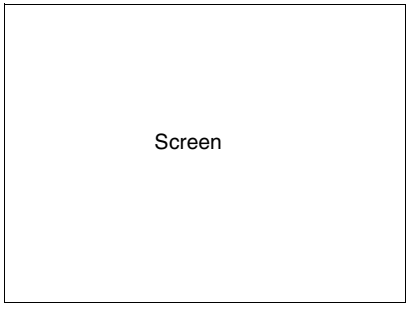
Simple Settings "64K Data Communication Setting Using mopera"

64Kbps data communication is set up.
DoCoMo's ISP "mopera" is used.

- Charges are based on the duration of connecting time

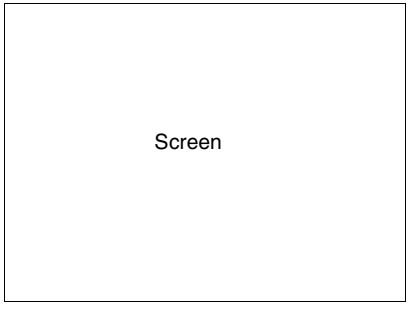
1 Click [かんたん設定] (Simple setting)

2 Select "*64K*データ通信" (64K data communication) then click [次へ] (Next).



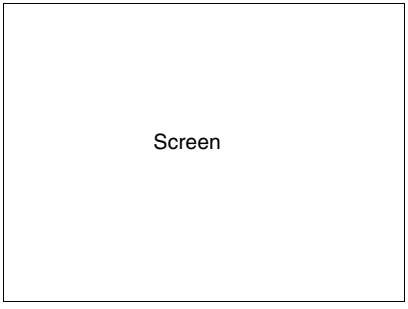
3 Select "*mopera* 接続" (mopera connection) then click [次へ] (Next)

See P428 to use ISP connection other than "mopera"



4 Enter APN and select modem then click [次へ] (Next)

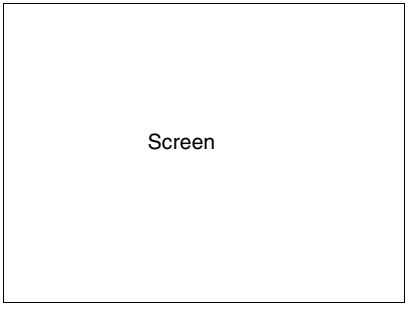
"*64K*データ通信設定" (64K Data communication) dialog is displayed.
Specify a name as you wish in "接続名" (Connection) field.
This field is case sensitive. Enter name accurately.
Invalid characters: ¥ / : * ? ! < > l " (single byte only) are not accepted.
Select "FOMA M1000" for modem name.



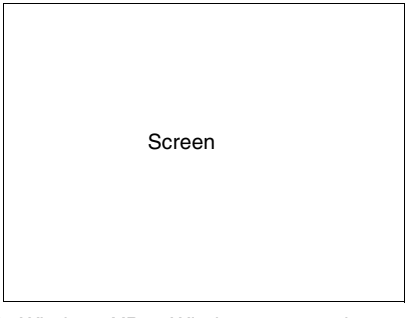
5 Set username and password then click [次へ] (Next)

User may ignore this step if mopera connection is selected.

(Windows XP, Windows 2000)



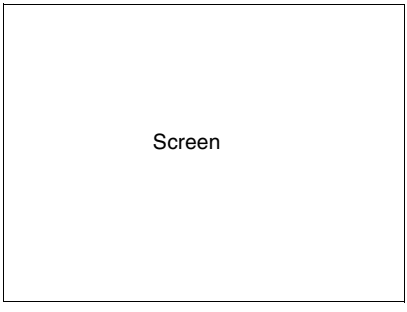
(Windows Me, Windows 98)



In Windows XP or Windows 2000, select a user.
Setup information provided by ISP must be entered correctly. Note that fields are case sensitive.

6 Verify setup information then click [完了] (Done)

All configured settings are listed. Verify that there are no errors in the setting information.
A shortcut on desktop is created automatically if “デスクトップにダイヤルアップのショートカットを作成する” (Create Dial-up Networking shortcut on desktop) is selected.
Click [戻る] (Back) to change settings.



7 Click [OK]

Execute the connection →P429

Simple Setting "64K Data Communication with Other ISP"

Setting is performed for 64K data communication at 64Kbps.

- Charges are based on duration of time connected.

1 Click [かんたん設定] (Simple setting)

2 Select “*64K* データ通信” (64K data communication) then click [次へ] (Next)

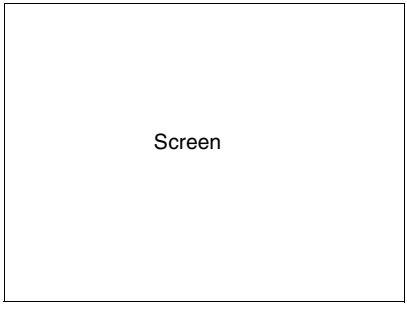
3 Select “その他” (Other) then click [次へ] (Next)

4 Enter Dial-up Networking information then click [次へ] (Next)

If connecting to another ISP that possesses synchronized ISDN 64K access points, the following information need to be registered.

- Connection name (optional)
- Modem selection (FOMA M1000)
- Dial-up phone number

Connection name must be entered. The field is case sensitive. Enter accurately. Note that fields are case sensitive.
Invalid characters: ¥ / : * ? ! < > | " (single byte only)



When using the accompanying FOMA-USB cable, select "FOMA M1000" (FOMA M1000) as modem.

Enter the information provided by ISP correctly. The fields are case sensitive and accept only single byte characters. The phone number is notified once connected if “発信者番号通知を行う” (Display caller ID) is selected.

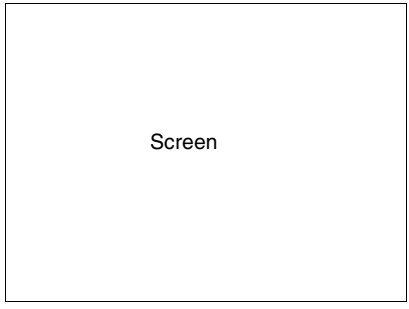
5 Configuring Advanced setting (TCP/IP setting)

Click “詳細情報の設定” (Advanced setting) to display “*IP* アドレス” (IP Address) and “ネームサーバー” (Name Server) setting dialog. Input necessary information related to ISP or LAN Dial-up Networking where required.

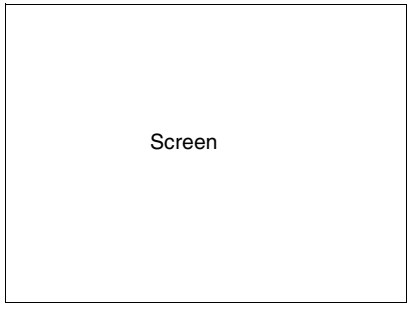
6 Set up username and password then click [次へ] (Next)

In Windows XP or Windows 2000, select a user.

(Windows XP, Windows 2000)



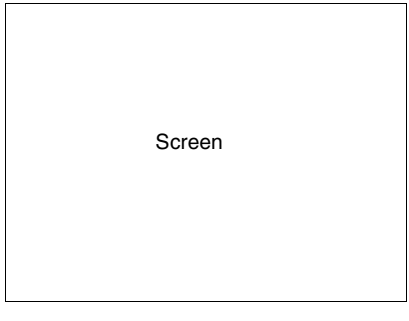
(Windows Me, Windows 98)



Set username and password information accurately according to the information provided by the ISP. The fields are case sensitive.

7 Verify setup information then click [完了] (Done)

A list of all settings is displayed. Check that all settings are properly configured.
A shortcut is created automatically if “デスクトップにダイヤルアップのショートカットを作成する” (Create Dial-up Networking shortcut on desktop) is selected.
Click [戻る] (Back) to change settings.



8 Click [OK]

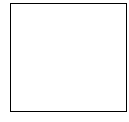
Execute the connection →See right

Executing the Set Connection

Connection and disconnection using the settings configured with the FOMA PC Setup software is described in this section.

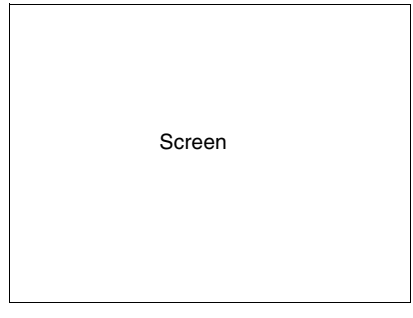
- Connection from dial-up icon is valid only for the FOMA handset used to configure with the icon. Install connection setup file again if connecting with another FOMA handset.

1 Click connection icon on the PC



2 Click [ダイヤル] (Dial) and connect

Click “ダイヤル” (Dial) without entering the “ユーザ名” (Username)and “パスワード” (Password) if mopera is selected. Enter “ユーザ名” (Username)and “パスワード” (Password) and click “ダイヤル” (dial) if another ISP or dial up connection is selected.
No need to enter password again if “パスワードを保存する” (Save password) is selected.



3 Click [OK] upon verifying connection

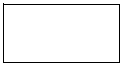
The Following screen is displayed when connecting the dial up normally.

- The message is not displayed if “接続” (connection) has been set to hide the message previously.

Disconnecting

Closing the web browser does not always guarantee disconnection from the network. Disconnect the connection by following the steps below.

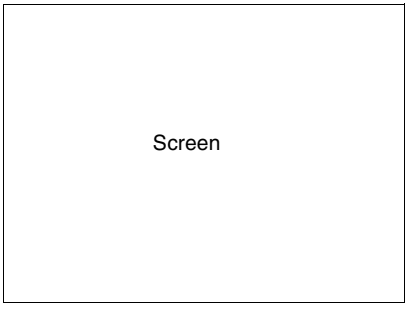
1 Click dial up icon in task tray on PC screen



Dial up icon

The connection screen is displayed.

2 Click [切断] (Disconnect)



Screen

NOTE

- The displayed data speed on the PC may be different from the actual speed.

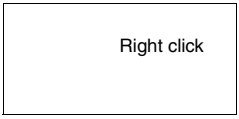
Uninstalling FOMA PC Setup Software

Before Uninstallation

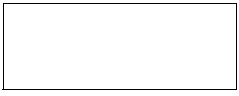
Undo all changes made for the FOMA handset settings before uninstalling the FOMA PC setup software.

1 Disable "*W-TCP*設定" (W-TCP setting) in task tray

Right click on the "***W-TCP***アイコン" (W-TCP icon) in the task tray, and click "常駐させない" (terminate in task tray).



Right click



Click

2 Terminating active programs

The following messages will be displayed if uninstallation is attempted while "***FOMA PC***設定ソフト" (FOMA PC Setup software) or "***W-TCP***設定" (W-TCP setting) is running. Stop uninstalling and close all active programs.

Screen

Screen

Uninstalling

1 Launch "アプリケーションの追加と削除" (Add/Remove Programs) in Windows

■Windows XP

Click "スタート" (Start) ▶ "コントロールパネル" (Control Panel) ▶ "プログラムの追加と削除" (Add/Remove Programs)

■Windows Me, Windows 98 or Windows 2000

Click "スタート" (Start) ▶ "設定" (Settings) ▶ "コントロールパネル" (Control Panel) ▶ "プログラムの追加と削除" (Add/Remove Programs)

"アプリケーションの追加と削除のプロパティ" (Add/Remove Applications properties) will be displayed in Windows Me or Windows 98.

2 Select "*FOMA PC*設定ソフト" (FOMA PC Setup software) ▶ click [変更と削除] (Change/Delete)

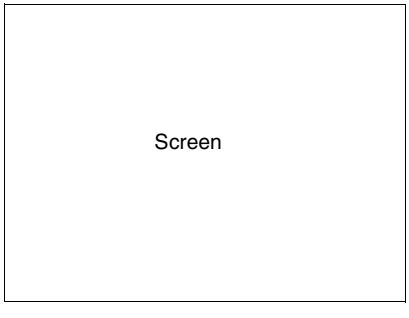
Select "*NTT DoCoMo FOMA PC*設定ソフト" (NTT FOMA PC Setup software)

Click here

3 Verify the program to delete ▶ click [はい] (Yes)

Uninstallation begins.

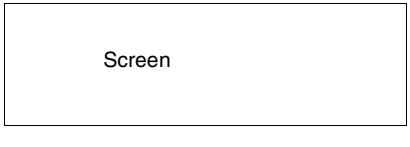
4 Click [OK] Installation of FOMA PC setup software is completed.



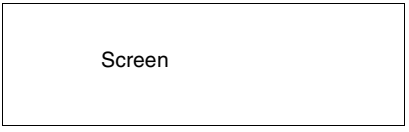
■Disabling "*W-TCP*最適化" (Optimizing W-TCP)

Displays following message if "*W-TCP*最適化" (Optimizing W-TCP) is performed.

Click [はい] (Yes) to uninstall



Optimization of W-TCP is disabled after PC is rebooted.



W-TCP Setting

W-TCP Roles

"*W-TCP*設定" (W-TCP Setting) is a "TCP Parameters setting tool" to optimize TCP/IP performance for Packet communication in FOMA network.

Setting this software is required to fully utilize FOMA handset communication performance.

Setting/Disabling the Optimization.

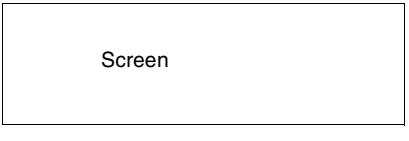
Windows XP

Each Dial-up Networking can be optimized separately in Windows XP.

1 Launch the program

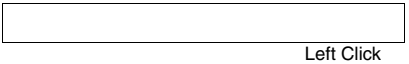
■To operate from *FOMA PC Setup software*

Click [*W-TCP*設定] (W-TCP setting) in "マニュアル設定" (Manual setting) after launching the program



■To operate from task tray

Click *W-TCP icon* in task tray.

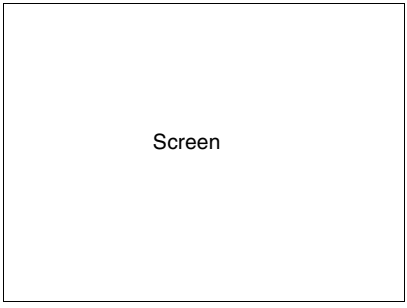


Left Click

2 Conduct the following operations

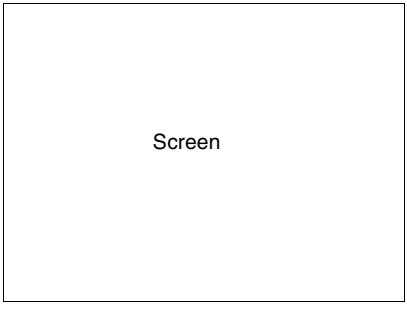
■When system setting is not optimized

Click [最適化を行う] (Optimize)



"(W-TCP (Dial-up Networking) setting)" is displayed. Select the desired Dial-up Networking and click [実行] (Execute) to optimize system setting or Dial-up Networking.
System setting is optimized after PC is rebooted by following the instructions displayed.

■When system setting is already optimized

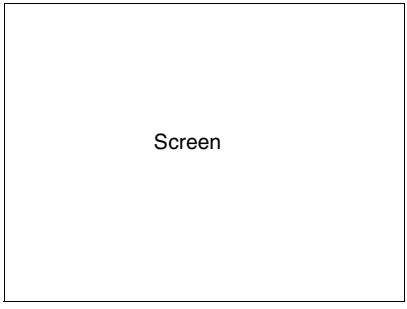


"W-TCP(ダイヤルアップ)設定" (W-TCP (Dial-up Networking) setting) is displayed. Perform necessary settings to make changes.
System setting is optimized after PC is rebooted by following the instructions displayed.

■When disabling optimization

① Click [システム設定] (System setting) in "*W-TCP*設定" (W-TCP setting)

② Click [最適化を解除する] (Disable optimization)



Optimization is disabled after PC is rebooted by following the instructions displayed.

Windows Me, Windows 2000 or Windows 98

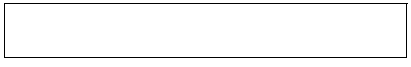
1 Launch program

■When operating from *FOMA "PC*設定ソフト" (FOMA PC Setup software)

Click [*W-TCP*設定] (W-TCP setting) in "マニュアル設定" (Manual setting) after launching program

■When operating from Task tray

Click (W-TCP icon) in task tray.

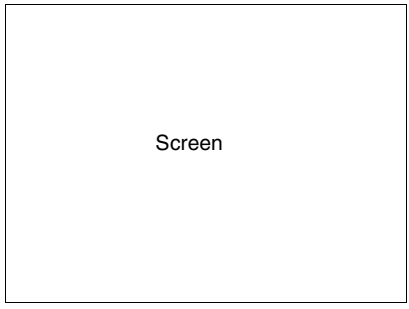


Left Click

2 Conduct the following operations

■If it is not optimized

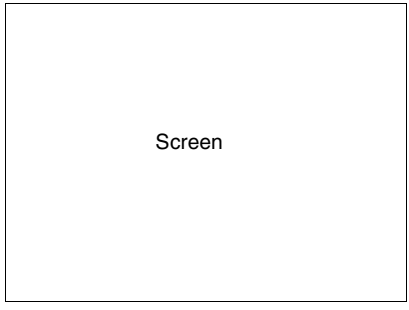
Click [最適化を行う] (Optimize)



Optimization is enabled after PC is rebooted by following the instructions displayed.

If it is already optimized

“現在、最適化されています。” (Already optimized) message is displayed in “*W-TCP* 設定” (W-TCP Setting)



Click [最適化を解除する] (Disable optimization) to disable settings resulting from transmission with devices other than the FOMA handset.
Optimization is disabled after PC is rebooted by following the instructions displayed.

Setting up APN

APN for Packet communication is set up.

Up to 10 APN numbers can be set up. Numbers from 1 to 10 can be assigned to the cid's.

The cid is used to specify connection for Packet communication.

"mopera" is pre-registered as 1 in the cid list by default. Other APNs must be assigned a number from in 2 to 10.

- Check that FOMA handset is properly connected to PC before setting up →P414

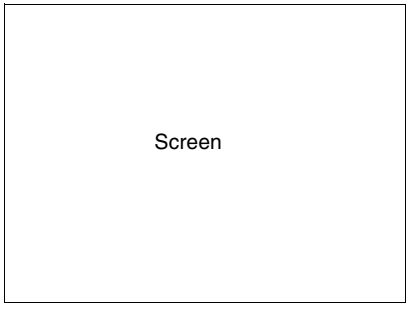
1 Click [接続先 (*APN*) 設定] (APN Setting) after launching “*FOMA PC* 設定ソフト” (FOMA PC Setup software)

2 Click [OK] in FOMA handset setting screen.

Load registered APN information by accessing connected FOMA handset automatically.

- Launching is disabled if FOMA handset is not connected

3 Setting up APN



Adding/Editing/Deleting APN

■When Adding an APN

Click [追加] (Add) in “接続先 (*APN*) 設定” (APN Setting)

■When Editing registered APN

Select desired APN from list in “接続先 (*APN*) 設定” (APN Setting) ▶Click [編集] (Edit)

- You can select from “*PDP-PPP* 方式” (PDP-PPP connection)or “*PDP-IP* 方式” (PDP-IP connection) to add/edit an APN if “ダイヤルアップの表示” (Display Dial-up Networking) is set to “全表示” (Display all) →P435

■When Deleting registered APN

Select desired APN from list in “接続先 (*APN*) 設定” (APN Setting) ▶Click [削除] (Delete)

- APN Registered in cid 1 cannot be deleted.

Saving Setting Information info a file

APN setting information registered in FOMA handset can be backed up, and APN setting information in edit mode can be saved.

1 Click ファイル (File) ▶ “名前を付けて保存” (Save as)/“上書き保存” (Save) in “接続先 (*APN*) 設定” (APN Setting)

Loading APN Setting Information from File

APN setting saved in PC can be re-edited and written to FOMA handset.

1 Click “ファイル” (File) ▶ “開く” (Open)in “接続先 (*APN*) 設定” (APN setting)

Writing APN Setting Information to FOMA Handset

Displayed APN setting can be written to FOMA handset

1 Click *FOMA*“端末へ設定を書き込む” (Save in FOMA handset) in “接続先”(*APN*) 設定 (APN setting)

Loading APN Setting in FOMA Handset

APN setting can be retrieved by manually accessing the FOMA handset

1 Click “ファイル” (File) ▶ “*FOMA* 端末からの設定を取得” (Retrieve setting from FOMA handset) in “接続先 (*APN*) 設定” (APN setting)

Creating Dial-up Networking

Dial-up Networking for Packet communication can be created from an added/edited APN in “接続先 (*APN*) 設定” (APN setting), and be saved in FOMA handset.

1 Select an added/edited APN in “接続先 (*APN*) 設定” (APN Setting), and click [ダイヤルアップ作成] (Create Dial-up Networking)

Write to FOMA handset confirmation screen is displayed.

2 Click [はい] (Yes)

“パケット通信用ダイヤルアップの作成” (Create Dial-up Networking for Packet communication) is displayed

- Perform Step 5 if *mopera* is selected as the APN.

3 Enter desired APN name and click “アカウント・パスワードの設定” (Setting up account /password)

4 Enter username and password then click [OK]

- In Windows XP or Windows 2000, a user is selected.
- Click [詳細情報の設定] (Advanced setting) in “パケット通信用ダイヤルアップの作成” (Create Dial-up Networking for Packet communication) if IP address and DNS setting are provided by your ISP. Then click [OK] after registering required information.

5 Click [*FOMA* 端末へ設定を書き込む] (Write settings to FOMA handset) and perform writing

NOTE

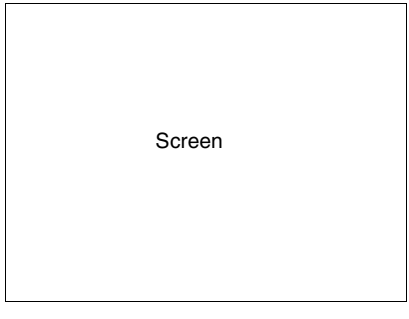
- APN information are stored in FOMA handset. To connect another FOMA handset set up APN again.
- If you wish to continue to use the same APN as that registered in the PC, register the APN to the same number (cid) in the FOMA handset.
- If the COM port connecting the FOMA handset is recognized by the PC as greater than COM20 then loading and writing of APN information is disabled. In these cases, use "ハイパーターミナル" (Hyper Handset) which is accompanied with Windows. →P440

Assigning COM Port

The COM port of the PC is assigned to the FOMA handset to manually perform connection setting. This COM port can be changed. Normally, however, set it to "自動設定(推奨)" (Auto setting (recommended)) .

1 Click "メニュー" (Menu) ▶ "通信設定" (Connection setting) after launching program

Set up screen is displayed.



2 Select "*COM* ポート指定" (Assign COM port) , and assign COM Port

COM Port number is displayed in ***COM***.

3 Click [OK]

Assigned COM Port is set up.

- Use "ハイパーターミナル" (Hyper terminal) which is accompanied with Windows to check COM port →P440

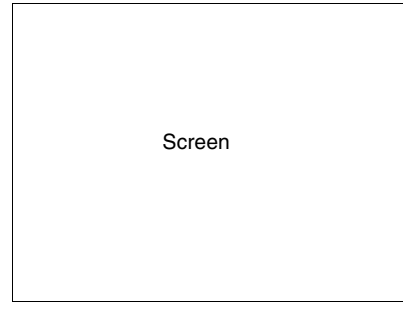
Displaying Dial-up Networking Type

Select from "***PDP-PPP*方式" (PDP-PPP connection)or "***PDP-IP*方式" (PDP-IP connection)* from Dial-up Networking type if "ダイヤルアップの表示" (Display Dial-up Networking) is set to "全表示" (Display all). Select "***PPP*のみ表示 (***PDP-IP*方式のみ表示／設定可)" (Display only PPP (Display/Set up only PDP-IP connection)) normally.

*: "***PDP-PPP*方式" (PDP-PPP connection) is Packet communication using Point-to-Point protocol. "***PDP-PPP*方式" (PDP-PPP connection) is used to connect to ***mopera*** (mopera)etc. Contact your ISP or network administrator to check connection protocol of APN.

1 Click "メニュー" (Menu) ▶ "通信設定" (Connection setting) after launching program

Set up screen is displayed.



2 Select "*PPP* のみ表示"(Display only PPP)/"全表示 (Display All)" in "ダイヤルアップの表示" (Display Dial-up Networking)

3 Click [OK]

Setting up Dial-up Networking

You can set up Dial-up Networking for Packet communication/64K data connection without using FOMA PC setup software. The flow is explained below.

Set up Packet communication	Set up 64K data connection
How to attach →P414 Install connection setup file (driver). →P416	

↓

Check COM port

Check COM port. →P437

↓

Set up APN

Set up APN →P440

- Set up is not required with "mopera".

↓

Set up caller ID

Set up to display/hide caller ID. →P442

↓

Other settings

Perform other settings. (AT Command) →P453

↓

Set up Dial-up Networking

- Contact your ISP or network administrator for further setup details.
- Windows XP users
  Set up APN →P438
- Windows 2000 users
  Set up APN →P439
- Windows Me users
  Set up APN. →P439
- Windows 98 users
  Set up APN. →P439

↓

Connect Dial-up Networking →P451

■AT Commands

AT Commands consist of commands for controlling modems.

The FOMA handset supports standard AT commands, some extended commands and proprietary AT commands.

- Detailed settings of "データ通信" (data connection) or FOMA handset can be checked with AT Command entries.

NOTE

- Set ***9601*** as connection number when using DoCoMo's ISP "mopera" for 64K data connection.
- Set "発信者番号の通知／非通知" (Caller ID display ON/OFF) as required. Set to 通知 (ON) to use "mopera".
- Set "その他の設定" (Other settings) as required. FOMA is operational with default settings.
- Contact your ISP or network administrator for further setup details.

Checking COM Port

You are required to specify COM port number assigned to "FOMA M1000" (modem) embedded after installation of connection setup file when setting up the APN.

This section explains about procedures to verify COM Port number.

The verified COM port is used for APN setting (→P440).

- There is no need to check modem when if using DoCoMo's ISP "mopera" APN setup is not necessary, then. Proceed to "発信者番号の通知／非通知を設定します" (Display/hide caller ID) (→P442)

■About APN and cid

Unlike 64K data connection, a regular telephone number is not used for Packet communication. APN is used instead.

- The (cid) registration number 1 to 10 are registered in FOMA handsets as part of the APN when APN numbers are set up.
- APN is managed by cid (registration number from 1 to 10). Entering (*99***<cid number>#) connects to the corresponding APN.
- "mopera" is pre-registered to 1 in the cid list by default as ("mopera.ne.jp"). "mopera" can

easily be used by entering the number (*99***1#). Use cid 2 to 10 to register other APNs.

- APNs can be registered like registering contact information to a mobile phone. The table below summarizes differences and similarities when compared to a contact list in a mobile phone.

Item to compare		APN Setting	Contact list in handset
Registration data		APN	Phone number
		cid	Memory number in contact list
		–	Name of intended party
Registration process	Registration via PC	○(Using FOMA PC Setup software)	○ (Using dedicated software)
	Registration via mobile phone	× (Unable to confirmed)	○
How to use		Specify cid and connect	Search contact list and call
		–	Enter phone number and dial from FOMA handset

Checking COM Port in Windows XP

1 Click "スタート" (Start) ▶ "コントロールパネル" (Control Panel)

Screen

2 Click "プリンタとその他のハードウェア" (Printer and other hardware) in "コントロールパネル" (Control Panel) ▶ "電話とモデムのオプション" (Telephone and modem options)

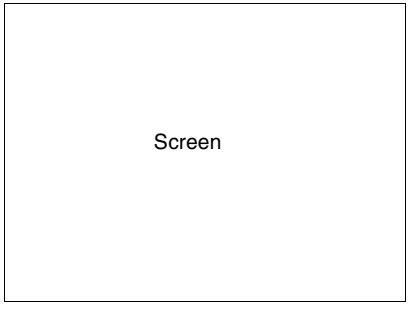
Screen

3 Enter "市外局番／エリアコード" (Area code) if "所在地情報" (Location information) is displayed, and click [OK]

4 Click "モデム" (Modem) tab. Checking COM port in "接続先" (Connection) list of *FOMA M1000*, and click [OK]

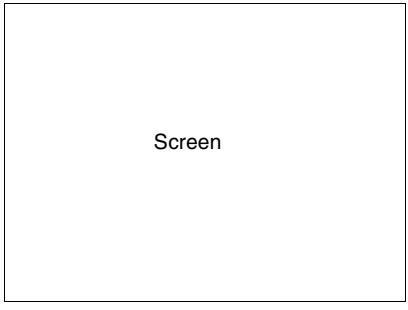
The verified COM port is used for APN setup.

- Displayed messages and COM port numbers may vary depending on your PC.

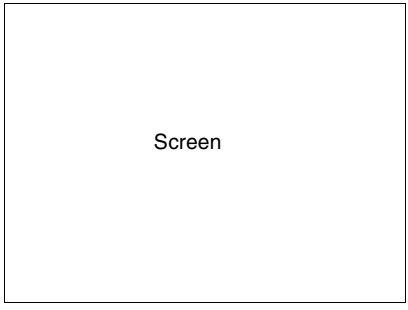


Checking COM Port in Windows 2000

1 Click “スタート” (Start) ▶ “設定” (Settings) ▶ “コントロールパネル” (Control Panel)



2 Click “電話とモデムのオプション” (Telephone and modem options) in “コントロールパネル” (Control Panel)

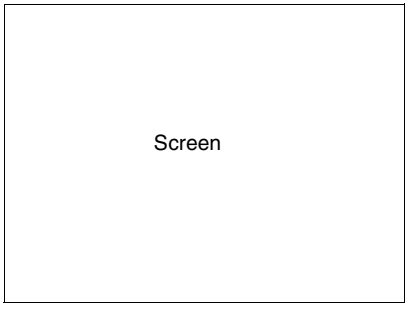


3 Enter “市外局番” (Area code) then click [OK] if “所在地情報” (Location information) is displayed

4 Click “モデム” (Modem) tab and check COM port in “接続先” (Connection) list of *FOMA M1000* (FOMA M1000). Click [OK]

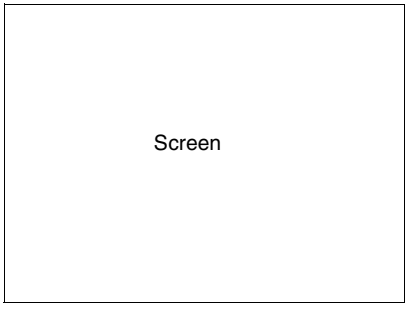
The verified COM port number is used for APN Setup.

- Displayed message and COM port number may vary depending on your PC.



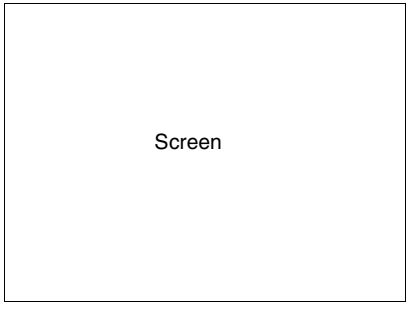
Checking COM Port in Windows Me/98

1 Click “スタート” (Start) ▶ “設定” (Settings) ▶ “コントロールパネル” (Control Panel)

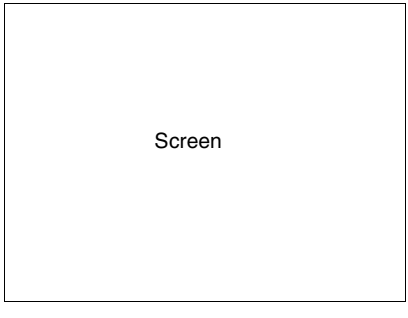


2 Click [モデム] (Modem) in “ コントロールパネル ” (Control Panel)

If “モデム” (modem) icon is not displayed, click “すべてのコントロールパネルのオプションを表示する” (Display all options in control panel).



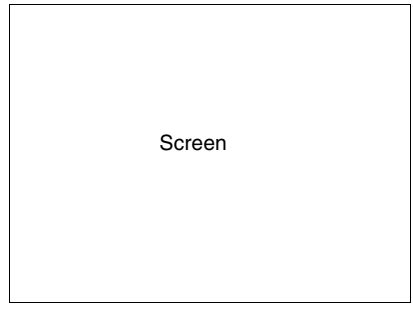
3 Check that *FOMA M1000* is properly set up then click “検出結果 ” (More Info on the Diagnostics) tab



4 Check COM port to which *FOMA M1000* is set up and click [OK]

The verified COM port number is used for APN Setup.

- Displayed message and COM port number may vary depending on your PC.



Setting up APN

Default setting	cid1:mopera.ne.jp cid2~10: never

Connection software for AT commands is required to set up APN.

Setup procedures using Hyperterminal in Windows is explained in this section.

- APN for Packet communication is set up. Up to 10 APNs with registration number <cid> 1 to 10(→P437) can be set up.
- "mopera" is pre-registered to 1 in the cid list by default as "mopera.ne.jp". Registration numbers 2 to 10 are recommended for use with other APNs.
- The registered cid is used as the connection number for the APN setting up Dial-up Networking.
- Inquire your network administrator or ISP regarding APN's other than mopera.
- AT commands may not be displayed in Hyperterminal from Step 6 P441 onwards.
- Entering in the following manner:
- ATE1 ↵
- Displays AT commands.

<Example: in Windows XP>

1 Connect FOMA handset with accompanying USB cable →P414

2 Turn on FOMA handset and connect the other end of the USB cable to PC

3 Click “スタート” (Start) ▶ “すべてのプログラム” (All Programs) ▶ “アクセサリ” (Accessories) ▶ “通信” (Communication) ▶ “ハイパーターミナル” (Hyperterminal)

Hyperterminal is launched.

■In Windows Me or Windows 2000

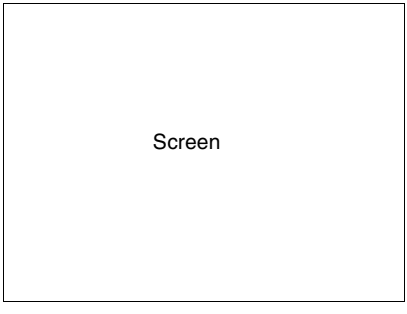
On the PC, click “スタート” (Start) ▶“プログラム” (Program) ▶“アクセサリ” (Accessories) ▶ “通信” (Communication) ▶ “ハイパーターミナル” (Hyperterminal)

■In Windows98

Click *Hypertrm.exe* after clicking “ハイパーターミナル” (Hyperterminal)

4 Enter desired name in 名前 (name) and click [OK]

Enter name as "sample" here as an example

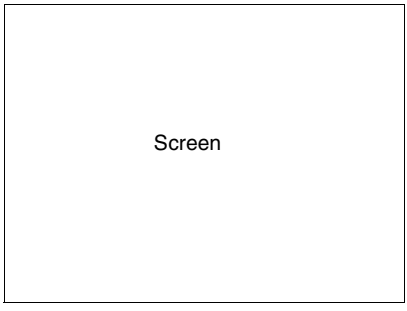


5 Select *FOMA M1000* in “接続方法” (Connection method) then click [OK]

■When COM port in *FOMA M1000* can be selected

Click [OK] in COM port properties.

- To check COM port number selected in “接続方法” (Connection method) (→P437), perform “*COM*ポートを確認する” (Check COM Port)



■When COM port in *FOMA M1000* cannot be selected

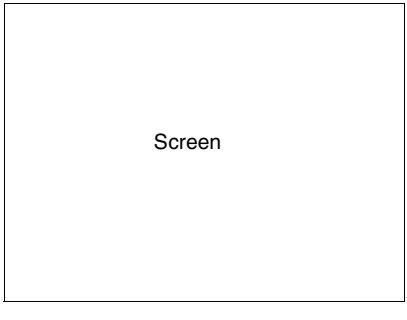
① Click [キャンセル] (Cancel)
“接続の設定” (Set up connection) screen is closed.

② Click “ファイル” (File) and select “プロパティ” (Properties)

③ Select *FOMA M1000* in “接続方法” (Connection method) of “接続の設定” (Set up connection) tab of “*sample*のプロパティ” (Sample properties) screen

④ Deselect OFF “国／地域番号と市外局番を使う” (Use country code and area code)

⑤ Click [OK]



6 Enter APN then press ↵

Enter in the following format
AT+CGDCONT=<cid>,"PPP", "APN"

<cid> : Enter desired number between 2 to 10

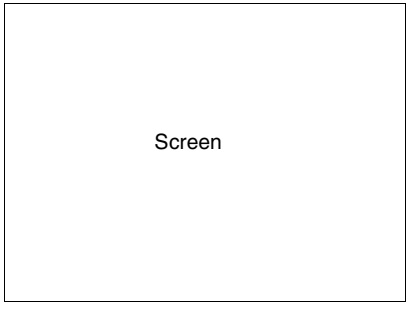
If a cid is already set up, not that the new CID overwrites the previous setting.

"APN" : Enter APN with double quotation mark

"PPP" : Enter "PPP" as is

APN setup is complete if *OK* is displayed.

Example: When XXX.abc is set up in cid 2
Enter "AT+CGDCONT=2,"PPP","XXX.abc"
$$"



7 Check that if *OK* is displayed, and click "ファイル" (File) ▶ "ハイパーターミナルの終了" (End Hyperterminal)

Hyperterminal is closed.
Saving is not necessary when confirm save screen is displayed.

■When APN settings are reset with AT command

- cid=1 is reset to mopera.ne.jp (default value), and cid=2 to 10 is unregistered.
  <Input method>
  AT+CGDCONT= ↵ (When resetting all cids)
  AT+CGDCONT=<cid> ↵ (When resetting a specific cid)

■When checking APN with AT command

- Display current settings
  <Input method>
  AT+CGDCONT? ↵

■When nothing is displayed as AT command is entered

<Input method>
ATE1 ↵

Notifying/Hiding Caller ID

Default setting	Notify

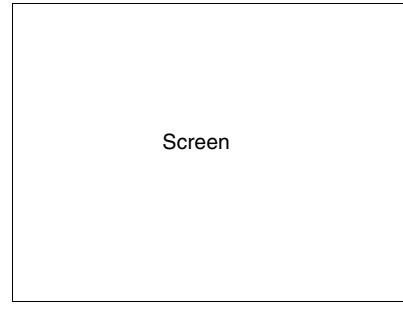
- Caller ID can be turned on or off to enable/disable notifying Caller ID to the designator during packet connection. Use caller ID with care. Your caller ID is valuable information.
- Caller ID can be set up with AT command before performing Dial-up Networking
- Use *DGPIR command to setup caller ID to notify or hide, or to reset to "設定なし" (None) (default value) (→P454)

1 Launch "ハイパーターミナル" (Hyperterminal)

2 Set up caller ID display during Packet communication

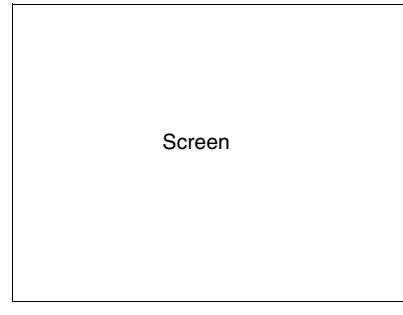
Enter in the following format
"AT*DGPIR=<n>"

■To Append 184 (hiding caller ID) automatically when calling or answering
Enter AT*DGPIR=1 ↵



■To Append 186 (notifying caller ID) automatically when calling or answering
Enter AT*DGPIR=2 ↵

3 Click "ファイル" (File) ▶ "ハイパーターミナルの終了" (End Hyperterminal) if [OK] is displayed



■**Setting up 186(Notify)/184(Hide) in Dial-up Networking**

186/184 can also be appended to a number in Dial-up Networking.

* When 186/184 are setup in both DGPIR and Dial-up Networking, the applicable settings are described in the following table.

Dial-up Networking setup (when cid=1)	*Caller ID display setting with DGPIR command	Notify/hide caller ID
*99***1#	Never	Notify
	Hide	Hide
	Notify	Notify
184*99***1#	Never	Hide (Priority given to 184 setup in Dial-up Networking)
	Hide	
	Notify	
186*99***1#	Never	Notify (Priority given to 186 setup in Dial-up Networking)
	Hide	
	Notify	

NOTE

- Enter *AT*DGPIR=0* to reset caller ID setup with DGPIR command to "Never".
- Set caller ID setting to "Notify" when using "mopera", DoCoMo's ISP service.

Setting up Dial-up

<Example: Connecting to "mopera" using <cid>=1>

- Contact your ISP or network administrator to setup and connect with another ISP.

Setting up Dial-up Connection in Windows XP

1 Click "スタート" (Start) ▶ "すべてのプログラム" (All Programs) ▶ "アクセサリ" (Accessories) ▶ "通信" (Communications) ▶ "新しい接続" "ウィザード" (New connection wizard)

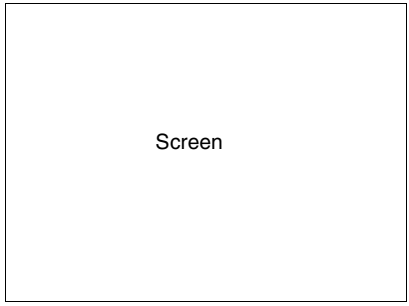
2 Click [次へ] (Next) in "新しい接続ウィザード" (New connection wizard)

Screen

3 Select "インターネットに接続する" (Connecting to the Internet), and click [次へ] (Next)

Screen

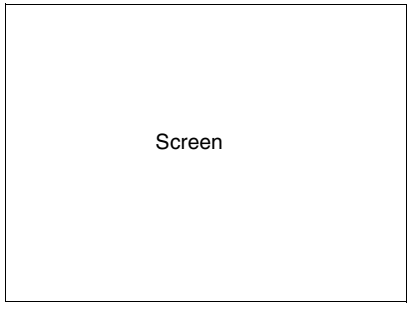
4 **Select “接続を手動でセットアップする” (Setting up connection manually) then click [次へ] (Next)**



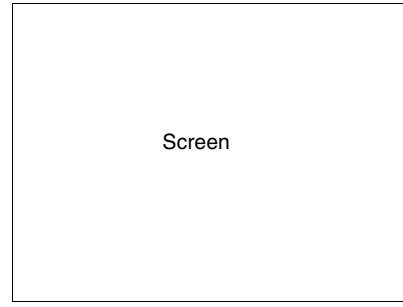
5 **Select “ダイヤルアップモデムを使用して接続する” (Connection with dial-up modem) then click [次へ] (Next)**

6 **“デバイスの選択” (Select device) is displayed, select “モデム－*FOMA M1000(COMx)*” (Modem-FOMA M1000 (COMx)) then click [次へ] (Next)**

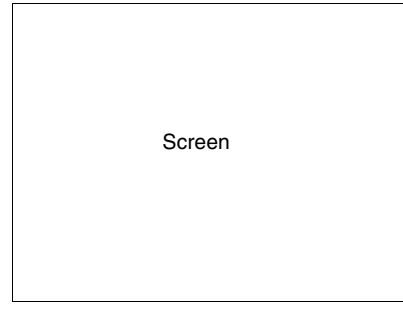
“デバイスの選択” (Select device) is only displayed when multiple modems are installed.
(COMx) is COM Port number displayed in “*COM* ポートの確認” (Checking COM Port) (→P437)



7 **Enter desired name in “*ISP* 名” (ISP name) then click [次へ] (Next)**

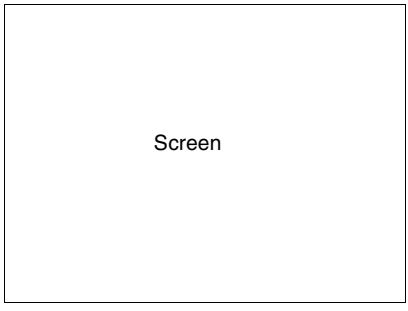


8 **Enter APN number in “電話番号” (Phone number) then click [次へ] (Next)**



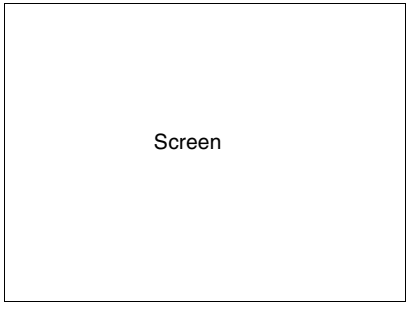
9 **Leave “ユーザー名” (Username), “パスワード” (Password) and “パスワードの確認入力” (Confirm password) blank, and click [次へ] (Next)**

Entering of username and password is not required for "mopera"
Enter “ユーザー名” (Username), “パスワード” (Password) and “パスワードの確認入力” (Confirm password) provided by your ISP or network administrator if connecting to another ISP.



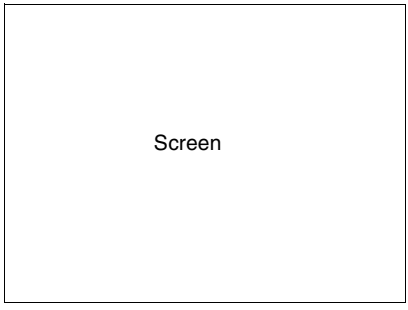
10 Click [完了] (Done)

Displays newly created connection wizard.



11 Click “スタート” (Start) ▶ “すべてのプログラム” (All Programs) ▶ “アクセサリ” (Accessories) ▶ “通信” (Communication) ▶ “ネットワーク接続” (Network connection)

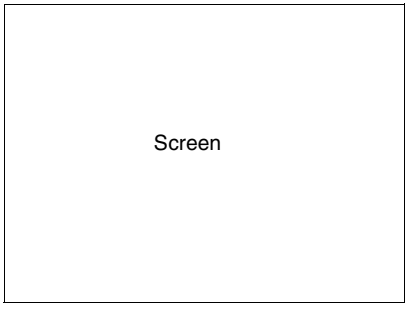
12 Select icon of newly created dial up, and click “ファイル” (File) ▶ “プロパティ” (Properties)



13 Check setting in “全般” (General) tab

Verify that “モデム－***FOMA M1000***” (Modem-FOMA M1000) in “接続の方法” (Connection method) is selected if 2 or more modems are connected to your PC. Select if it is deselected.

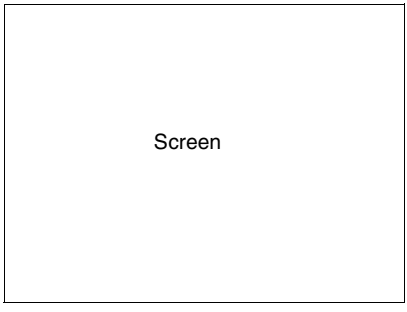
Verify that “ダイヤル情報を使う” (Use dial up information) is not selected. Deselect OFF if selected.



14 Click “ネットワーク” (Network) tab and perform each setup.

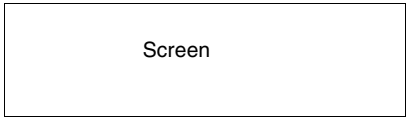
Select ***PPP:Windows 95/98/NT4/2000, Internet*** in “呼び出すダイヤルアップサーバーの種類” (Dial up server)
Select “インターネットプロトコル(***TCP/IP***)” (Internet protocol(TCP/IP)) in “この接続は次の項目を使用します” (Use following items in this connection)

- Settings to cannot be changed in “***QoS***パケットスケジューラ” (QoS Packet Scheduler)



15 Click [設定] (Setting)

16 **Deselect all checkboxes then click [OK]**

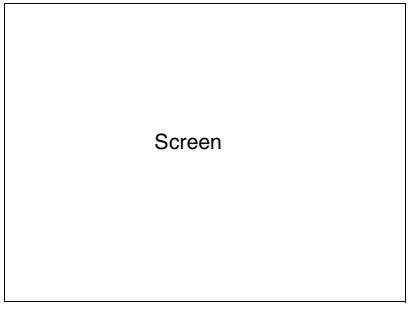


17 **Click [OK] in “ネットワーク” (Network) tab screen**

Setting up Dial-up Networking in Windows 2000

1 **Click “スタート” (Start) ▶ “プログラム” Program) ▶ “アクセサリ” (Accessories) ▶ “通信” (Communication) ▶ “ネットワークとダイヤルアップ接続” (Network and dial up connection)**

2 **Click “新しい接続の作成” (Create new connection) icon in “ネットワークとダイヤルアップ接続” (Network and dial up connection)**

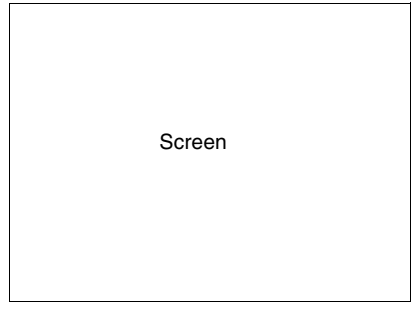


3 **Enter “市外局番” (Area code) then click [OK] if “所在地情報” (Location information) is displayed**

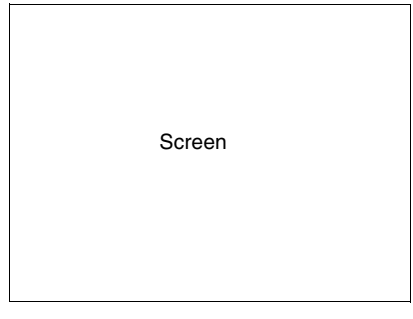
“所在地情報” (Location information) is displayed when launching “新しい接続の作成” (Create new connection) for the first time in Step2.
From the second launch onwards, this is not displayed. “ネットワークの接続ウィザード” (Network connection wizard) is displayed instead. Proceed to Step5 when displayed.

4 **Click [OK] in “電話とモデムのオプション” (Telephone and modem option)**

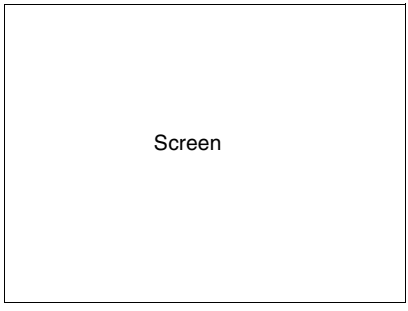
5 **Click [次へ] (Next) in “ネットワークの接続ウィザード” (Network connection wizard)**



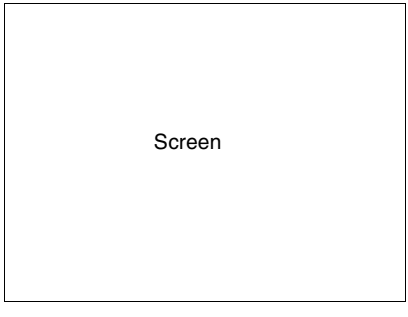
6 **Select “インターネットにダイヤルアップ接続する” (Dial up connection to the Internet) then click [次へ] (Next)**



7 **Select “インターネット接続を手動で設定するか、またはローカルエリアネットワーク (LAN) を使って接続します” (Connect to the Internet manually or via Local Area Network(LAN)) then click [次へ] (Next)**



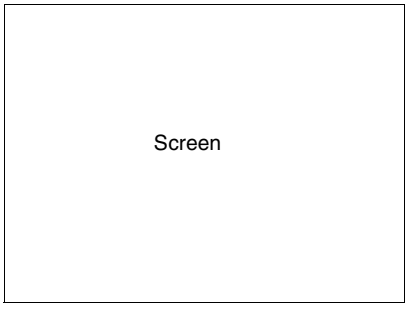
8 **Select “電話回線とモデムを使ってインターネットに接続します” (Connect to the Internet with telephone line and modem) then click [次へ] (Next)**



9 **Verify that *FOMA M1000* is displayed in “インターネットへの接続に使うモデムを選択する” (Select modem for Internet connection) then click [次へ] (Next)**

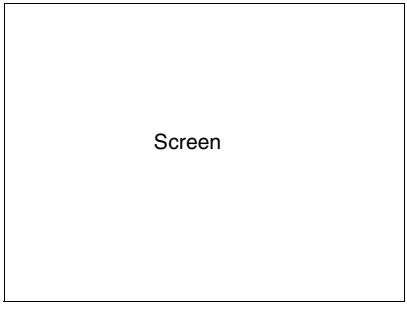
Select ***FOMA M1000*** if ***FOMA M1000*** is not displayed.

- The following message is not displayed if modems other than ***FOMA M1000*** are not installed.



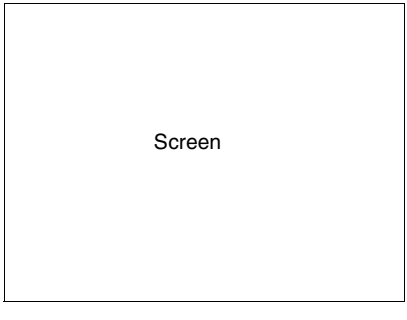
10 **Enter APN number in “電話番号” (Telephone number) then click [詳細設定] (Advanced setting)**

Deselect “市外局番とダイヤル情報を使う” (Use area code and dial up information).



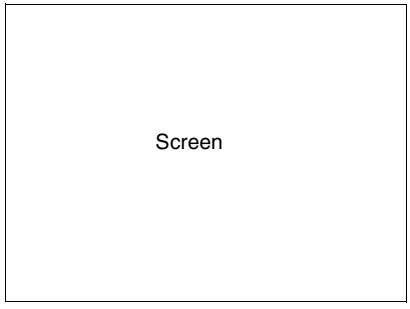
11 **Set each settings in “接続” (Connection) tab then click “アドレス” (Address) tab as shown**

Enter the information provided by your ISP in “接続の種類” (Connection type) and “ログオンの手続き” (Log on process)



12 **Click “アドレス” (Address) tab, and set IP address or DNS (Domain Name Service) as shown the click [OK]**

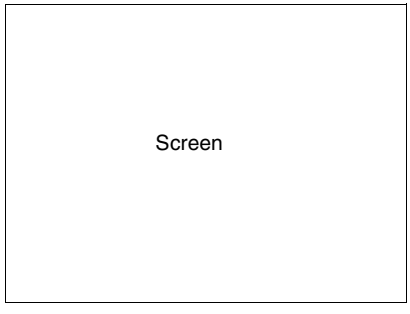
Enter the information such as “*IP*アドレス” (IP address) or “*ISP*によるDNSアドレスの自動割り当て” (DNS(Domain Name Service) address auto-assigned by ISP) provided by your ISP or network administrator in order to connect to an ISP other than "mopera".



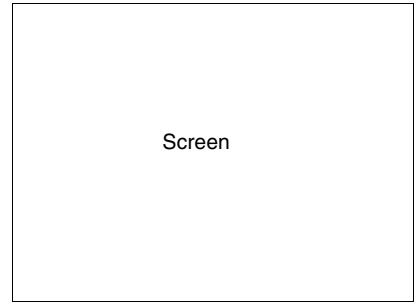
13 **Click [次へ] (Next) in “インターネットアカウントの接続情報” (Internet accounts set up information)**

14 **Leave “ユーザー名” (Username) and “パスワード” (Password) blank then click [次へ] (Next)**

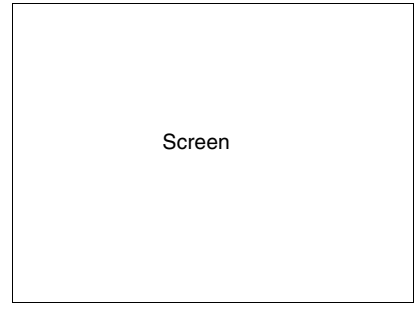
Username and password confirmation screens are continuously displayed. Click [OK] in each screen
Username and password are not required for "mopera".
Enter “ユーザー名” (Username) and “パスワード” (Password) provided by your ISP or network administrator in order to connect to an ISP other than "mopera".



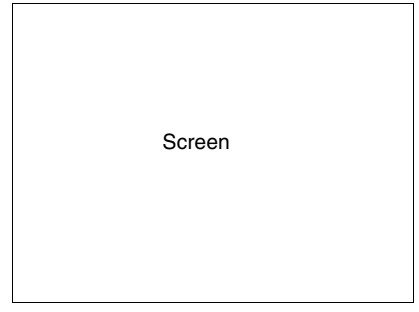
15 **Enter the desired name in “接続名” (Connection) then click [次へ] (Next)**



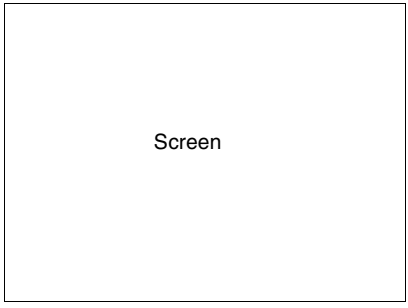
16 **Select “いいえ” (No) then click [次へ] (Next)**



17 **Deselect “今すぐインターネットに接続するにはここを選び [完了] をクリックしてください” (Select here and click [Done] to connect to the Internet now) then click [完了] (Done)**

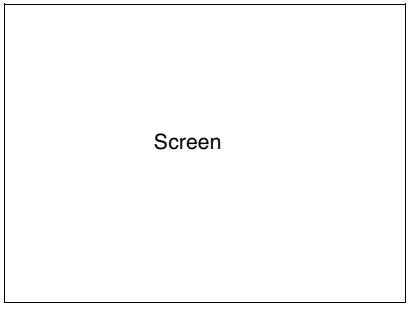


18 Select newly created dial up icon, then click “ファイル” (File) ▶ “プロパティ” (Properties)



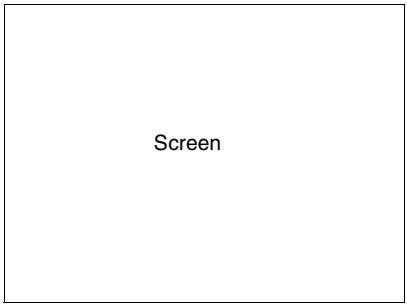
19 Check settings in “全般” (General) tab

Check if “モデム” – ***FOMA M1000*** (Modem-FOMA M1000) in “接続の方法” (Connection method) is selected when 2 or more modems are connected to PC. Select if it is deselected.
Verify that “ダイヤル情報を使う” (Use for dial up information) is deselected. Deselect if it is selected.



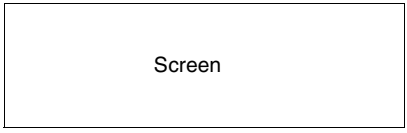
20 Click “ネットワーク” (Network) tab, and perform each setup

Select ***PPP:FWindows 95/98/NT4/2000, Internet*** in “呼び出すダイヤルアップサーバーの種類” (Dial up server).
Select only “インターネットプロトコル (***TCP/IP***)” (Internet Protocol (TCP/IP)) for component.



21 Click [設定] (Setting)

22 Deselect all settings, then click [OK]



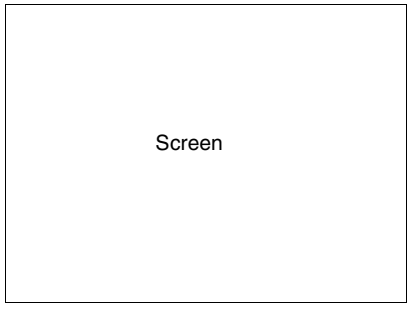
23 Click [OK] in “ネットワーク” (Network) tab

Setting up Dial-up Networking in Windows Me/Windows 98

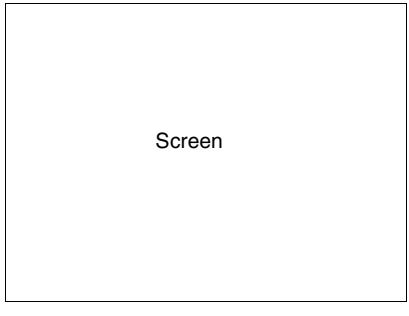
1 Click “スタート” (Start) ▶ “プログラム” (Program) ▶ “アクセサリ” (Accessories) ▶ “通信” (Communication) ▶ “ダイヤルアップネットワーク” (Dial-up Networking)

2 Click [次へ] (Next) in “ダイヤルアップネットワークへようこそ” (Welcome to Dial-up Networking)

This message is displayed when launching Dial-up Networking for the first time. Click [次へ] (Next) to proceed to Step 4.
From the second time onwards, this is not displayed. “ダイヤルアップネットワーク”(Dial-up Networking) in Step 3 is displayed instead.



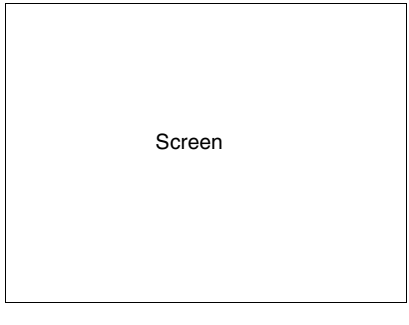
3 Click “新しい接続” (New connection) icon in “ダイヤルアップネットワーク” (Dial-up Networking)



4 Enter desired name in “接続名” (Connection name) then click [次へ] (Next)

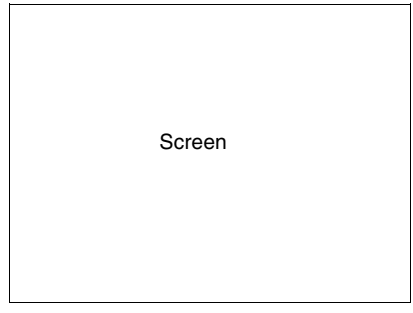
Verify that ***FOMA M1000*** is displayed in “モデムの選択” (Select modem).

- Select ***FOMA M1000*** if ***FOMA M1000*** is not displayed.

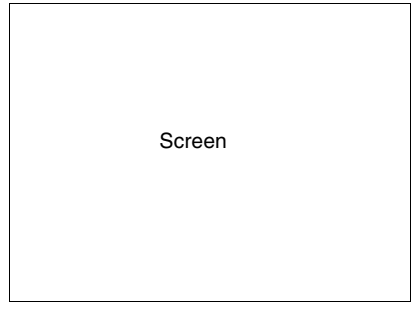


5 Enter APN number in “電話番号” (Telephone number), then click [次へ] (Next)

Leave 市外局番 (Area code) blank.

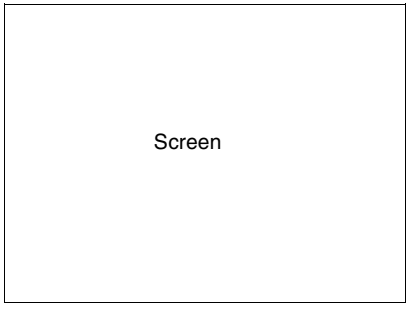


6 Check connection name (Desired) then click [完了] (Done)



7 Click スタート (Start) ▶ “プログラム” (Program) ▶ “アクセサリ” (Accessories) ▶ “通信” (Communication) ▶ “ダイヤルアップネットワーク” (Dial-up Networking)

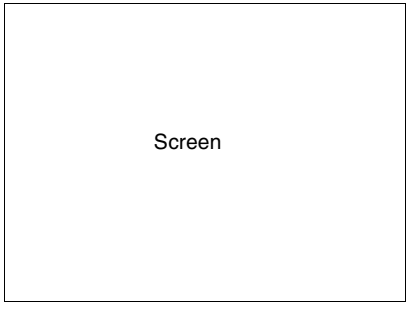
8 Select newly created Dial-up Networking icon then click “ファイル” (File) ▶ “プロパティ” (Properties)



9 Select “電話番号” (Phone number) and “接続方法” (Connection method) in “全般” (General) tab. Deselect “市外局番とダイヤルのプロパティを使う” (Use properties in area code and dial)

Verify that ***FOMA M1000*** is displayed in “接続方法” (Connection method)

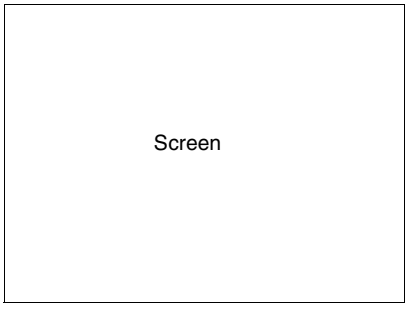
- Select ***FOMA M1000*** if ***FOMA M1000*** is not displayed



10 Click “ネットワーク” (Network) tab and perform various settings.

Select “***PPP:*インターネット,*Windows 2000/NT,Windows Me***” (PPP:Internet, Windows 2000/NT, Windows Me) in “ダイヤルアップサーバーの 種類” (Dial up server)

Select only “インターネットプロトコル”(TCP/IP) (Internet protocol (TCP/IP)) for component.



■In Windows 98

Click “サーバーの種類” (Server type) tab and perform various settings.

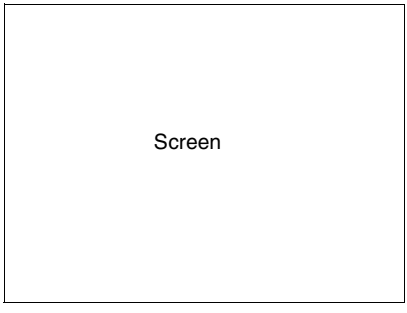
Select “***PPP:*インターネット, *Windows NT Server, Windows 98***” (PPP:Internet, Windows NT Server, Windows 98) in “ダイヤルアップサーバーの種類” (Dial up server).

Select only “インターネットプロトコル”(TCP/IP) (Internet protocol (TCP/IP)) for component.

11 Click “セキュリティ” (Security) tab, and click [OK] without entering Username and password

Entering of Username and password is not required for "mopera".

Enter “ユーザー名” (Username) and “パスワード” (Password) provided by your ISP or network administrator for other ISP in order to connect to an ISP other than "mopera".



■In Windows 98

Click [OK]

Using Dial-up Networking

Using Dial-up Networking for Packet communication and 64K data connection without the use of FOMA PC setup software is explained in this section.

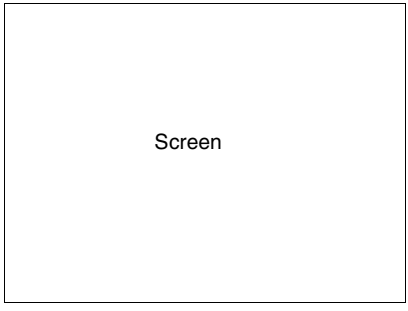
- Check that your FOMA handset is properly connected to your PC before connecting. Check connection between FOMA handset and PC prior to establishing Bluetooth connection

<Example: in Windows XP>

1 Click “スタート” (Start) ▶ “すべてのプログラム” (All programs) ▶ “アクセサリ” (Accessories) ▶ “通信” (Communication) ▶ “ネットワーク接続” (Network connection)

2 Click connection icon

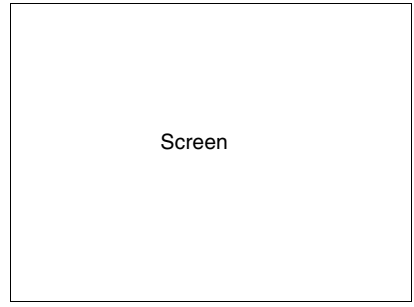
Select Dial-up Networking icon of ISP name setup in Step7 of P444, then click “ネットワークタスク” (Network task) ▶ “この接続を開始する” (Start connection), or click the connection icon.



3 Check setting and click [ダイヤル] (Dial)

Dial-up network is completed when a connection in progress message is displayed followed by a connection established message.

- Check each setting and click [接続] (Connect) when using an OS other than Windows XP.
- Entering of a “ユーザー名” (Username) and “パスワード” (Password) is not required to connect to "mopera".
- Check setting if a message notifying the completion of connection is not displayed.

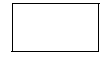


Disconnecting

Disconnecting may not be completed by closing the Internet browser. Disconnect by performing the following procedures.

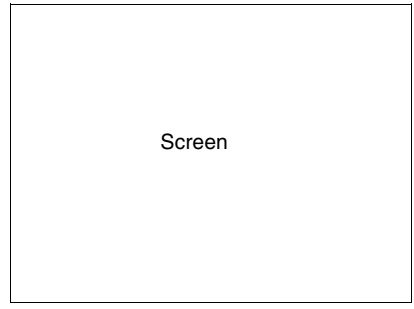
1 Click Dial-up Networking icon in task tray

Connection screen is displayed.



Dial-up Networking icon

2 Click [切断] (Disconnect)



NOTE

- Transmission speed displayed on the PC may vary from the actual transmission speed.

AT Commands

AT Commands are commands for setting FOMA handset functions from a PC.

- AT Command input format.

[&F] : Reset to factory default.
[&W] : Register setting. Called settings by ATZ Command.
[AT] : Can be used in FOMA M1000 Command Port.
[M] : Can be used with FOMA M1000 (Modem).

AT Command	Overview	Parameters/Description	Command Examples
AT%V [M]	Displays versions of FOMA handset.	-	AT%V Ver1.00 OK
AT&C n [&F] [&W] [AT] [M]	Set the operating conditions of the circuit CD for DTE.	n=0 : Always keeps line CD signal ON n=1 : Line CD signals vary according to line connection status (default)	AT&C1 OK
AT&D n [&F] [&W] [AT] [M]	Set the operation performed when circuit ER signal received from DTE is switched from ON to OFF.	n=0 : Ignore status (assumed to be ON) n=1 : Online command mode is set when status changes from ON to OFF n=2 : Line is disconnected and OFF LINE mode (default) is enabled when status changes from ON to OFF	AT&D1 OK
AT&F n [AT] [M]	Reset to factory default. If the command is entered during communication, the handset is reset.	Only n=0 can be set (skippable)	-
AT&S n [&F] [&W] [M]	Set how to control the data set ready signal to be output to DTE.	n=0 : Always ON (default) n=1 : DR signal ON at time of line connection	AT&S0 OK
AT&W n [AT] [M]	Register current settings.	Only n=0 can be set (skippable)	-
AT *DGANSM=n [M]	Set the reject/permit setting mode for incoming Packet communication. The setting is only valid for Packet communication received immediately after the command is entered.	n=0 : Turn OFF reject (AT*DGARL)/ permit setting for incoming Packet communication (default) n=1 : Turn ON reject setting for incoming Packet communication n=2 : Turn ON permit setting for incoming Packet communication AT *DGANSM? : Display currently settings	AT *DGANSM=0 OK AT *DGANSM? *DGANSM:0 OK
AT*DGAPL=n [,cid] [M]	Set up APN to permit incoming Packet communication from APN settings. Use <cid> parameters defined by AT+CGDCONT.	n=0 : Add APN defined by <cid> to list of APNs permitted for incoming Packet communication n=1 : Delete APN defined by <cid> from list of APNs permitted for incoming connection If <cid> parameter is omitted, all the <cids> are added to/deleted from the list. AT *DGAPL? : Display permit incoming Packet communication	AT*DGAPL =0,1 OK AT *DGAPL? *DGAPL:1 OK AT *DGAPL =1 OK AT *DGAPL? OK

AT Command	Overview	Parameters/Description	Command Examples
AT*DGARL=n[,cid] [M]	Set APN to refuse incoming connection. APN setting uses <cid> parameters defined by +CGDCONT.	n=0 : Add APN defined by <cid> to list of APNs refused for incoming connection n=1 : Delete APN defined by <cid> to list of APNs refused for incoming connection If <cid> parameter is omitted, all <cids> are added to/deleted from the list. AT *DGARL? : Display refused incoming connection	AT *DGARL =0,1 OK AT *DGARL? *DGARL:1 OK AT *DGARL =1 OK AT *DGARL? OK
AT *DGPIR=n [M]	The setting for notify or hide made by this command is valid when a connection is sent or received. The Dial-up Networking settings can also be used to append 186(ON) or 184(OFF) to the dial-up connection. → P442	n=0 : Connecting to APN directly (default) n=1 : Send 184 to APN (always OFF) n=2 : Send 186 to APN (always ON) AT *DGPIR? : Display current setting	AT *DGPIR =0 OK AT *DGPIR? *DGPIR:0 OK
+++ [M]	Switch FOMA handset's mode from online data mode to online command status without disconnecting when escape sequence executed.	-	(Online Data Mode) +++ (Unable to see the display) OK
AT+CEER [M]	Disconnection reason display.	<report> See Disconnection reason list → P460	AT+CEER +CEER:36 OK
AT+CGDCONT [M]	Set APN when sending Packet communication.	→ P461	→ P461
AT+CGEQMIN [M]	Register criteria value for determining if QoS (Quality of Service) sent from network when PPP Packet communication is established, is acceptable or not.	AT+CGEQMIN=[Parameters] → P461 AT+CGEQMIN=? : Display all lists of settings AT+CGEQMIN? : Display current settings	→ P461
AT+CGEQREQ [M]	Set QoS (Quality of Service) to request for the network when PPP Packet communication is established.	AT+CGEQREQ= [Parameters] → P462 AT+CGEQREQ=? : Display all lists of settings AT+CGEQREQ? : Display current settings	→ P462
AT+CGMR [AT] [M]	Display FOMA handset's version.	-	AT+CGMR 12345XXXXXXXXXX OK
AT+CGREG=n [&F] [&W] [AT] [M]	Set whether to report network service registration status. Upon receiving the status report, "Within service area" or "Outside service area" will be displayed.	n=0 : OFF (default) n=1 : ON (Report the status when it is shifted between within service area and Outside service area) AT+CGREG? : Display current setting +CGREG:< n>,<stat> n : Parameter stat : 0 Outside service area 1 Within service area 4 Unknown 5 Outside service area (Roaming)	AT+CGREG=1 OK (Set to report status) AT+CGREG? +CGREG:1,0 OK (Outside service area) (Move from Outside service area to Within service area) +CGREG:1

AT Command	Overview	Parameters/Description	Command Examples
AT+CGSN [AT] [M]	Display FOMA handset's serial number.	-	AT+CGSN 12345XXXXXXXXX OK
AT+CMEE=n [&F] [&W] [M]	Set if any error report in FOMA handset	n=0 : Display ERROR and not result code (default) n=1 : +CME ERROR:<err> Use result code and display reason as number n=2 : +CME ERROR:<err>User result code and display reason as characters AT+CMEE? : Display current settings The right hand side is the command examples when errors in FOMA handset or connection.	AT+CMEE=0 OK AT+CNUM ERROR AT+CMEE=1 OK AT+CNUM +CME ERROR:10 AT+CMEE=2 OK AT+CNUM +CME ERROR:SIM not inserted
AT+CNUM [M]	Display FOMA handset's own number.	number: Telephone number type : 129 or 145 129 : International access code does not include + 145 : International access code includes +	AT+CNUM +CNUM:,"+8190XXXXXXXX",145 OK
AT+CR=n [&F] [&W] [M]	Display bearer types before displaying CONNECT result code during line connection.	n=0 : Do not display (default) n=1 : Display <serv> : Display only "GPRS" for Packet communication (Display "SYNC", "AV32K", "AV64K" for data connection) AT+CR? : Display current settings	AT+CR =1 OK ATD *99 ***1# +CR:GPRS CONNECT
AT+CRC=n [&F] [&W] [M]	Set to use extend result code for incoming connection.	n=0 : Do not use (default) n=1 : Use +CRING.<type>+CRING Form for +CRING is as follows +CRING : GPRS "PPP",,, "<APN>" AT+CRC? : Display current setting.	AT+CRC=0 OK AT+CRC? +CRC:0 OK
AT+CREG=n [&F] [&W] [AT] [M]	Set to display network information indicating "Within service area" or "Outside service area". • OS dependant	n=0 : Not notifying (default) n=1 : Notifying (when switching "Within service area" and "Outside service area") AT+CREG? : Display current settings +CREG : < n>,<stat> n : set value stat : 0 Outside service area 1 Within service area 4 Unknown 5 Within service area (Roaming)	AT+CREG=1 OK (Set to notify) AT+CREG? +CREG:1,0 OK (Outside service area) (Move from "Outside service area" to "Within service area") +CREG:1
AT+GMI [M]	Display FOMA handset's manufacturer.	-	AT+GMI Motorola OK
AT+GMM [M]	Display FOMA handset's product name.	-	AT+GMM FOMA M1000 OK
AT+GMR [M]	Display FOMA handset's version.	-	AT+GMR Ver1.00 OK

AT Command	Overview	Parameters/Description	Command Examples
AT+IFC=n,m [&F] [&W][AT] [M]	Set to control local flow	n : DCE by DTE m : DTE by DCE Each set value for n,m 0 : No flow control 1 : Perform XON/XOFF flow control 2 : Perform RS/CS (RTS/CTS) flow control Default: n,m=2.2 AT+IFC? : Display current settings	AT+IFC=2,2 OK
AT+WS46=n [&F] [&W] [M]	Set wireless network for FOMA handset.	n=22 : W-CDMA (WidebandCDMA) only (default)	AT+WS46=22 OK
ATA [M]	Perform the receiving process while receiving Packet communication or 64K data connection.	-	RING ATA CONNECT
A/ [AT] [M]	Execute the previously executed command. No carriage return is necessary.	-	A/ OK
ATD

AT Command	Overview	Parameters/Description	Command Examples
ATQ n [&F] [&W] [AT] [M]	Set up to display/hide result code to DTE.	n=0 : Display result code (default) n=1 : Does not display result code	ATQ0 OK ATQ1 (OK is not displayed this time)
ATS0=n [&F] [&W] [M]	Set number of rings until FOMA handset receives connection automatically.	n=0 : Do not receive automatically (default) n=1- 255 : Receive automatically with specified number of rings. ATS0? : Display current setting	ATS0=0 OK ATS0? 000 OK
ATS2=n [&F] [M]	Set escape character.	n=43 : Default n=127 : Disabled ATS2? : Display current settings	ATS2=43 OK ATS2? 043 OK
ATS3=n [&F] [M]	Set carriage return character.	n=13 : Default (Only n=13. Can be set) ATS3? : Display current settings	ATS3=13 OK ATS3? 013 OK
ATS4=n [&F] [M]	Set Line Feed (LF) character.	n=10 : Default (Only n=10. Can be set) ATS4? : Display current settings	ATS4=10 OK ATS4? 010 OK
ATS5=n [&F] [M]	Set Back Space (BS) character.	n=8 : Default (Only n=8. Can be set) ATS5? : Display current settings	ATS5=8 OK ATS5? 008 OK
ATS7=n [&F] [&W] [M]	Set waiting time till end of connection.	n=1 to 120 (default: n=60)(second) Setting 121 to 255 is regarded as 120 ATS7? : Display current settings	ATS7=60 OK ATS7? 060 OK
ATV n [&F] [&W] [AT] [M]	Set all result code to be displayed in either numerals or alphabet characters.	n=0 : Send back a result code in numerals n=1 : Send back a result code in alphabet characters (default)	ATV1 OK
ATX n [&F] [&W]	Set whether to show speed display in the CONNECT display for the connection. Also detect busy tone or dial tone.	n=0 : No dial tone detected, no busy tone detect, no speed display n=1 : No dial tone detected, no busy tone detected, speed display n=2 : Detect dial tone, no busy tone detected, speed display n=3 : No dial tone detected, detect dial tone, speed display n=4 : Detect dial tone, detect dial tone, speed display (default)	ATX1 OK
ATZ [AT] [M]	Reset to the status of nonvolatile memory. Disconnect the line if this command is entered during connection.	-	(Off line command mode) ATZ NO CARRIER (On line command mode) ATZ OK

AT Command	Overview	Parameters/Description	Command Examples
AT¥S [M]	Display current set of commands and S register setting.	-	AT¥S E1 Q0 V1 X4 & C1&D2&S0¥V0 S000=000 S002=043 S003=013 S004=010 S005=008 S006=005 S007=060 S008=003 S010=001 S030=000 S103=001 S104=001 OK
AT¥V n [&F] [&W] [M]	Select type of response code when connected.	n=0 : Do no use expanded result code (default) n=1 : Use expanded result code	AT¥V0 OK
AT+CPIN

AT Command	Overview	Parameters/Description	Command Examples
AT+CLIP=n [&F][&W][M]	Display sender's caller ID when 64K data connection is received.	n=0 : No output result (default) n=1 : Output result Result : +CLIP (n,m) m=0 : Network setting that does not notify caller ID m=1 : Network setting that notifies caller ID m=2 : Unknown	AT+CLIP=0 OK AT+CLIP=? +CLIP:(0,1) OK (+CLIP=1 Output result) RING +CLIP: "090XXXXXXXX",177, "123",136
AT+CLIR=n [M]	Set to notify phone number when sending 64K data connection.	n=0 : Use setting written in service agreement n=1 : Do not send Caller ID n=2 : Send Caller ID (default) Result : +CLIR(n, m) m=0 : CLIR is not operating (always notify) m=1 : CLIR is operating (always does not notify) m=2 : Unknown m=3 : CLIR Temporary mode (default; does not notify) m=4 : CLIR Temporary mode (default: notify)	AT+CLIR=0 OK AT+CLIR? +CLIR:0,1 OK AT+CLIR=? +CLIR:(0-2) OK
ATS30=n [&F][M]	Disconnect handset if no data is received or sent.	n=0 : Inactive timer off (default) n=0 to 255	ATS30=0 OK ATS30? 000 OK ATS30=? ERROR
ATS103=n [&F][M]	Set to append and send received sub address.	n=0 : * n=1 : / (default) n=2 : ¥ (yen symbol or backslash)	ATS103=0 OK ATS103? 000 OK ATS103=? ERROR
ATS104=n [&F][M]	Set to append and send outgoing sub address.	n=0 : # n=1 : % (default) n=2 : &	ATS104=0 OK ATS104? 000 OK ATS104=? ERROR
AT*DANTE [M]	Display reception level with a number.	n=0 : Reception level 0 n=1 : Reception level 1 n=2 : Reception level 2 n=3 : Reception level 3	AT*DANTE *DANTE:3 OK AT*DANTE=? *DANTE:(0-3) OK

AT Command	Overview	Parameters/Description	Command Examples
AT*DRPW [M]	Display an index for reception power of the radio signal.	-	AT*DRPW *DRPW:0 OK AT*DRPW=? *DRPW:(0-75) OK

Lists of Disconnected Reasons

Disconnected reasons for requested contents are as follows:

Packet communication

Value	Reason
27	APN is not present or incorrect.
30	Disconnected from network.
33	Requested service option is not subscribed.
36	Connection is disconnected properly.

64K Data connection

Value	Reason
1	Specified number does not exist.
16	Connection is disconnected properly.
17	Unable to communicate because remote device is busy.
18	Call was made, but no response within the specified time.
19	Unable to communicate because remote device is busy calling.
21	Remote device rejected a call.
63	Network service and option are not valid.
65	Unavailable processing speed was specified.
88	You made a call to or received a call from a handset with different handset properties.

Additional AT Commands Descriptions

■Invalid AT command

The following commands will not generate errors but will not act as commands.

- AT (Enter only AT)
- ATT (Tone setting)
- ATP (Pulse setting)
- ATS6 (Specify duration of pause till dialing commences)
- ATS8 (Specify duration of comma till dialing commences)
- ATS10 (Set delay time for automatic disconnection)

■Command name +CGDCONT[M]

- Overview

  Set APN when sending packet connection.
  Although this command is a setup command, it does not get stored to the status of nonvolatile memory by &W, and does not get reset by &F and &Z.
- Form

  +CGDCONT=[<cid>[,"PPP"[,"<APN>"]]]
- Parameter descriptions

  Set APN when sending Packet communication. See examples in command operation lists

  <cid>* : 1 to 10

  <APN>* : Optional

  *: <cid> is the number used to control the destination (APN) for the Packet communication to be registered in FOMA handset.
  1~10 can be registered. <cid>=1 is set as mopera.ne.jp as default but overwrittable.
  <APN>is optional connection name that indicates each destination.
- Operation without parameter

  +CGDCONT= : Set default value for all <cid>

  +CGDCONT=<cid> : Set specified <cid> as default

  +CGDCONT=? : Display list of values that can be configured

  +CGDCONT? : Display current settings
- Command examples

  Registered APN named abc (cid=3)
  AT+CGDCONT=3,"PPP","abc"
  OK

■Command name:+CGEQMIN=[Parameter] [M]

- Overview

  Register criteria value to determine if QoS sent from network when PPP Packet communication established is permitted.
  4 ways to set up as stated in command examples.
  Although this command is a setup command, it does not get stored to the status of nonvolatile memory by &W, and does not get reset by &F and &Z.
- Form

  +CGEQMIN=[<cid>[,,<Maximum bitrate UL>[,<Maximum bitrate DL>]]]
- Parameter description

  <cid>* : 1 to 10

  <Maximum bitrate UL>* : None (default) or 64

  <Maximum bitrate DL>* : None (default) or 384

  *: <cid> is the number used to control the destination (APN) for the Packet communication to be registered in FOMA handset. 1 to 10 can be registered.
  In <Maximum bitrate UL> and <Maximum bitrate DL>, the minimum connection speed [in kbps] is set for both upload and download traffic between FOMA handset and the base station. If the parameter is set to None (default), all speeds are permissible. If 64 and 384 are set, any connection at a speed except the above limit is not permitted, and the Packet communication will not be connected.
- Operation without parameter

  +CGEQMIN= : Set default value for all <cid>

  +CGEQMIN=<cid> : Set specified <cid> as default value
- Command examples

4 ways to set up as states in command examples. Set (1) as states value for each <cid>s

(1) Command used to permit all speed both upload and download (when<cid>=2)
AT+CGEQMIN=2
OK

(2) Command used to permit only 64kbps upload and 384kbps download (when<cid>=3)
AT+CGEQMIN=3,,64,384
OK

(3) Command used to permit 64kbps upload and all speed download (when<cid>=4)
AT+CGEQMIN=4,,64
OK

(4) Command used to permit all speed upload and only 384kbps download (when<cid>=5)
AT+CGEQMIN=5,,,384
OK

■Command name:
:+CGEQREQ=[Parameter] [M]

- Overview

  Sets up QoS to request to the network when PPP Packet communication is established.
  This set up is also set up as the default value in one of the patterns stated in the following command execution example.
  Although this command is a setup command, it does not get stored to the status of nonvolatile memory by &W, and does not get reset by &F and &Z.

- Form

  +CGEQREQ=[<cid>]

- Parameter Description

  <cid>*:1 to 10

  *: <cid> is the number used to control the destination (APN) for the Packet communication to be registered in FOMA handset. 1 to 10 can be registered to FOMA handset.

- Operation without parameter

  +CGEQREQ= : Set default value for all <cid>s.
  +CGEQREQ=<cid> : Set specified <cid> as default.

- Command examples

  Only 1 way to set the command. The contents are set by default for each cid.
  Command used to require 64kbps upload and 384kbps download (when<cid>=3)
  AT+CGEQREQ=3
  OK

■Saving modem port command setting values

Settings by AT commands are initialized when FOMA handset is switched ON and OFF, except APN setting by AT+CGDCONT (→ P440), QoS settings by AT+CGEQMIN and AT+CGEQREQ commands, permit/reject setting mode for incoming connection set by AT*DGAPL/AT*DGARL/AT*DGANSM commands or appending 184 or 186 for packet connection by AT*DGPIR command. Commands with [&W] can be saved by entering
AT&W↵
after setting. And at the same time, other settings with [&W] are also saved. These values can be called by entering
ATZ↵
even if after FOMA handset was switched ON and OFF.

Result Codes

Result codes for data connection

No.	Text display	Description
0	OK	Operation performed properly.
1	CONNECT	Connected to their party.
2	RING	Incoming call.
3	NO CARRIER	Line disconnected.
4	ERROR	Unable to accept command.
5	NO DIALTONE	Unable to detect dial tone.
6	BUSY	Detect busy tone.
7	NO ANSWER	Completed connection. Timeout.
100	RESTRICTION	Network restriction in place.
101	DELAYED	Redial call restricted.

Extended result codes

No.	Text display	Description
5	CONNECT 1200	Connected at 1200bps between FOMA handset and PC.
10	CONNECT 2400	Connected at 2400bps between FOMA handset and PC.
11	CONNECT 4800	Connected at 4800bps between FOMA handset and PC.
13	CONNECT 7200	Connected at 7200bps between FOMA handset and PC.
12	CONNECT 9600	Connected at 9600bps between FOMA handset and PC.
15	CONNECT 14400	Connected at 14,400bps between FOMA handset and PC.
16	CONNECT 19200	Connected at 19,200bps between FOMA handset and PC.
17	CONNECT 38400	Connected at 38,400bps between FOMA handset and PC.
18	CONNECT 57600	Connected at 57,600bps between FOMA handset and PC.
19	CONNECT 115200	Connected at 115,200bps between FOMA handset and PC.
20	CONNECT 230400	Connected at 230,400bps between FOMA handset and PC.
21	CONNECT 460800	Connected at 460,800bps between FOMA handset and PC.

Connection protocol result code

No.	Text display	Description
1	PPPoverUD	Connect via PPPoverUD(BC=UDI, +CBST=116,1,0)
2	AV32K	AV (video-phone) connect via [32K]
3	AV64K	AV (video-phone) connect via [64K]
5	PACKET	Connect with PACKET

NOTE

- When ATVn command (→ P457) is set to n=1, the result code is displayed in the alphanumeric display format (default). When the command is set to n=0, the result code is displayed in the numerical display format.
- To retain compatibility with a modem connected via conventional RS-232C, connection speed is displayed but it differs from the actual connection speed because FOMA handset is connected to the PC with a USB cable.
- When "RESTRICTION" message is displayed, (No.100), the network is busy. Please try later.

Examples of Result Codes

When ATX0 is set

- Regardless of the settings of AT¥Vn command (→ P459), only CONNECT is displayed upon completion of connection.

Text display example

: ATD*99***1#
CONNECT

Number display example

: ATD*99***1#
1

When ATX1 is set

- When ATX1, AT¥V0 is set (default)
- Upon completion of connection, result code is displayed in the following format: CONNECT <speed between FOMA handset - PC>

Text display example

: ATD*99***1#
CONNECT 460800

Number display example

: ATD*99***1# 1 21

- When ATX1, AT¥V1 is set*
- The code is displayed upon completion of connection in the following format: CONNECT <speed of FOMA handset - PC>PACKET <destination APN>/ <upload maximum speed (between FOMA handset → radio base station)>/ <download maximum speed (between FOMA handset ← radial base station)> Maximum 64kbps for sending and maximum 384kbps for receiving connection to mopera.ne.jp is displayed as follows.

Text display example

: ATD*99***1#
CONNECT 460800
PACKET mopera.ne.jp /
64/ 384

Number display example

: ATD*99***1#
1 21 5

*: When ATX1 and AT¥V1 are set at the same time, it is likely that dial-up connection will fail. Only use of AT¥V0 is recommended.

Entering Characters

Character Input 442
Entering Characters with Direct Input <Direct Input Method> 444
Editing/Registering Fixed Phrases <Save Phrases> 456
Copying/Cutting and Pasting Characters <Character copy> 458
Registering Frequently Used Words <Save word>. 460
Using Electronic Dictionary 462
Setting the Detail of Character Entry. 466
Entering Characters with Indirect Input Method
<Indirect input method> 470

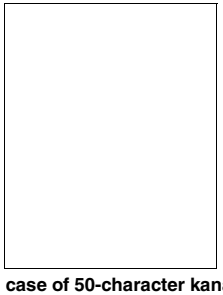
Character Input

With FOMA handset, a character is entered by tapping a target character at a keyboard displayed on the touch screen with the Stylus. Also, by switching the input method, a character can be entered by a free draw. Since character input is needed in various situations of FOMA handset operation, such as registering contacts, creating messages, and creating notes, it would be convenient if you memorize the procedure beforehand.

Displaying Character Entry Screen

Tap the character input field where a character needs to be entered, and tap $$ on the Status bar to display the character entry screen. Enter a target character by switching the input mode.

- Input mode → P467
- Input method → P466
- Switching input method → P467



In case of 50-character kana syllabary keyboard

Input Method

There are following methods to enter characters with FOMA handset. Choose an input method that suites you.

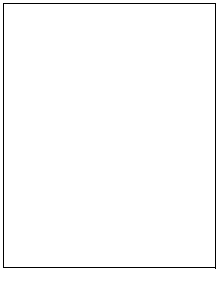
Input method		Description	Reference
Direct input method	50-character kana syllabary keyboard (Kana Keyboard)	From the keyboard arranged in the order of 50-character kana syllabary, you can enter a character by tapping a target character.	P469
	Qwerty keyboard	From the keyboard arranged in alphabetical order, you can enter a character by tapping a target character.	P471
	Handwriting	A character is entered by writing a character on the free draw input area, using the Stylus.	P478
Indirect input method	Multi Tap	From the keyboard with two or more characters assigned to one key, a character is entered by tapping a key multiple times to switch the characters.	P496
	Two Tap	From the keyboard with two or more characters assigned to one key, a character is entered by Two Tap operations	P500

Switching Input Method

Default setting | Kana keyboard

The input method used at the time of entering a character can be changed.

1 Tap $$ ▶ $$ on the Application Selector bar, tap "Handset" tab ▶ *Text input* and on the Control panel screen, tap [Advanced] on Text input setup screen, and tap *Input method* on Preferences screen



- Tap $$ $$ at the tab display area to switch the tab display between left and right.

2 Tap $$ of input method you are setting ▶ [Close] ▶ [Done]

Input method is changed.

Input Mode

There are following input modes to enter a character. Entering text with a mixture of hiragana, kanji, katakana, alphabet and numeric characters are performed by switching the input mode. To switch the input mode, tap the keyboard for each input method, or tap the key to switch the input mode in the free draw input screen.

Input mode	Key display	Description
Hiragana/kanji	[Hiragana]/[Kanji]/[Hira]/"あ/ア"	Hiragana, kanji, and double-byte katakana can be entered.
Katakana	[Kata]/[Single-byte Kana]	Double-byte/single-byte katakana can be entered.
Alphabet	[Ａｂｃ]/[Abc]/[Eng]/"英数"	Double-byte/single-byte alphabet character can be entered.
Numeric	[Num]/[Eng]/[Ａｂｃ]/[Abc]/"英数"	Double-byte/single-byte numeric character can be entered.
Symbol	[Mark]	Double-byte/single-byte symbols, special characters or fixed phrases can be selected.

NOTE

- To switch the input mode, tap the corresponding key in the character input screen for each input method.
- When the character input screen is displayed, there are input modes that cannot be switched, depending on the application running or what is to be entered.

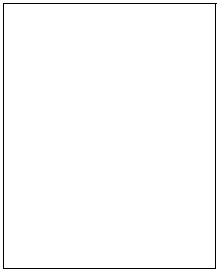
Direct Input Method

Entering Characters with Direct Input

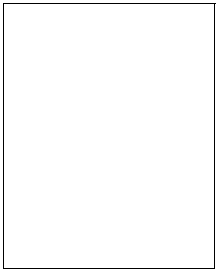
With FOMA handset, there are three direct input methods: "50-character kana syllabary keyboard", "Qwerty keyboard" and "free draw input". By setting the input method in advance, each input screen can be displayed at the time of a character input. → P492

50-character Kana Syllabary Keyboard

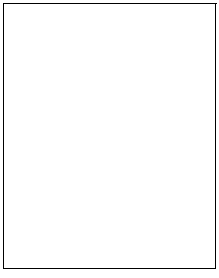
When the input method is set to ***Kana keyboard*** following keyboards will be displayed by tapping $$ on the Status bar in the situation of entering characters.



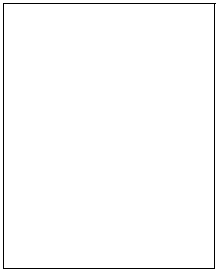
Hiragana/kanji input mode



Katakana input mode



Alphabet/numeric input mode



Numeric input mode

Item		Description
①	Input method switch key	A menu is displayed, and input method can be switched.
②	Number of characters	The number of confirmed characters/maximum number available for character input are displayed.
③	Move key	The keyboard is moved to the upper part/lower part of the touch screen.
④	Dictionary key	A dictionary search is performed.

Item		Description
⑤	Input field switch key	When two or more input field (name, family name, address, etc.) exist in one screen, such as a registration screen for a contact, the input field can be changed while the free draw input screen is displayed.
⑥	Minimize key	Temporarily hides the keyboard.
⑦	End key	Closes the free draw input screen.
⑧	Convert key	Converts input characters.
⑨	LF/CR key	Starts a new line.
⑩	Space key	A space is entered.
⑪	Clear key	Deletes a character entered.
⑫	Double-byte key	Double-byte characters and numbers can be entered.
⑬	caps/ ↑ key	Capital letters and small letters are switched.
⑭	Date key	Current date can be entered.
⑮	Time key	Current time can be entered.

- To switch the input mode, tap either [Hira]/[Alphabet]/[Kana]/[Numeric] key from each input mode keyboard.
- Tap [Symbol] to display the screen that switches between symbols, fixed phrases and dictionary. → P472
- List of symbols and special characters → P521
- List of fixed phrases → P522

Kana keyboard

Entering Characters Using Kana Keyboard

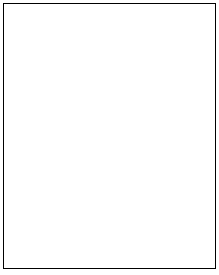
With a kana keyboard, characters that can be entered are displayed on the keyboard. Tap a target character directly to input, and if necessary, switch the input mode by tapping the input mode key.

<Example: when entering "太郎" in *Name* of a contact>

1 Tap *Name* filed in a contact ▶ tap $$ on the Status bar

- How to operate → P99
- When an input mode is other than hiragana/kanji mode, tap [Hira].

2 Tap [た] ▶ [ろ] ▶ [う]



Conversion candidates

3 From the conversion candidates, tap [太郎]

Input of "太郎" is set.

- When there are more than one candidate, display them by dragging the scroll bar.

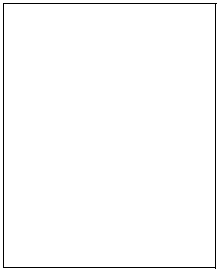
- When predict conversion function is set to ON, the conversion candidate predicted to follow the character decided in conversion candidate area is displayed.
- Tap END key to end the entry.
- To continue entering characters, tap a key you are entering.

NOTE

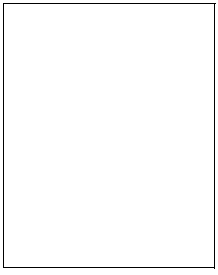
- Following operations are also available:
  - Entering a fixed phrase → P472
  - Entering a symbol → P473
  - Entering a face mark → P474
  - Deleting an entered character → P476
  - Searching a dictionary → P475
- The maximum number of characters that can be converted at once is 32 characters.

Qwerty Keyboard

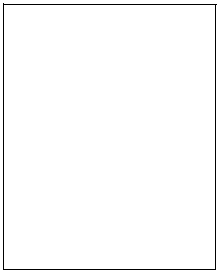
When the input method is set to "Qwerty keyboard", following keyboards will be displayed by tapping $$ on the Status bar in the situation of entering characters.



Hiragana/kanji input mode



Alphabet/numeric input mode



Numeric input mode

Item		Description
①	Input method switch key	A menu is displayed, and input method can be switched.
②	Number of characters	The number of confirmed characters/maximum number available for character input are displayed.
③	Move key	The keyboard is moved to the upper part/lower part of the touch screen.
④	Dictionary key	A dictionary search is performed.

Item		Description
⑤	Input filed switch key	When two or more input fields (name, family name, address, etc.) exist in one screen, such as a registration screen for a contact, the input field can be changed while the free draw input screen is displayed.
⑥	Minimize key	Temporarily hides the keyboard.
⑦	End key	Closes the free draw input screen.
⑧	Convert key	Converts input characters.
⑨	LF/CR key	Starts a new line.
⑩	Space key	A space is entered.
⑪	Clear key	Deletes a character entered.
⑫	Double-byte key	Double-byte characters and numbers can be entered.
⑬	caps/ ↑ key	Capital letters and small letters are switched.
⑭	Date key	Current date can be entered. Tapping [caps]/[↑] will switch to Date key, and current date can be entered.

- To switch the input mode, tap either [Kanji]/[Alphabet]/[Numeric] key from each input mode keyboard.
- Tap [Symbol] to display the screen that switches between symbols, fixed phrases and dictionary. → P472
- List of symbols and special characters → P521
- List of fixed phrases → P522

Qwerty keyboard

Entering Characters Using Qwerty Keyboard

With a Qwerty keyboard, characters that can be entered are displayed on the keyboard. Tap directly on a target character to input, and if necessary, switch the input mode by tapping the input mode key. However, even if the input mode is switched to kanji, hiragana would not show on the keyboard. When entering hiragana/kanji from the Qwerty keyboard, use the Roman character entry method.

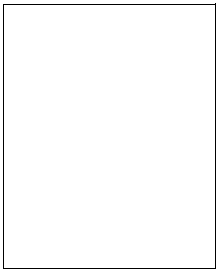
- The input method must be set to "Qwerty keyboard" beforehand. → P492

<Example: when entering "太郎" in *Name* of a contact >

1 Tap *Name* field in a contact ▶ tap $$ on the Status bar

- How to operate → P99
- When an input mode is other than hiragana/kanji mode, tap [Kanji].

2 Enter "たろう"



Roman character entry is used.

- To enter "た": tap [t] → [a]
- To enter "ろ": tap [r] → [o]
- To enter "う": tap [u]

Conversion candidates

3 From the conversion candidates, tap [太郎]

Input of "太郎" is set.

- When there are more than one candidate, display them by dragging the scroll bar.
- When predict conversion function is set to ON, the conversion candidate predicted to follow the character decided in conversion candidate area is displayed.
- Tap END key to end the entry.
- To continue entering characters, tap a key you are entering.

NOTE

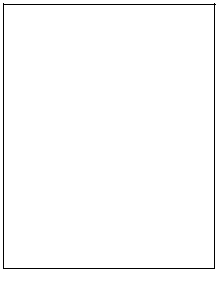
- Following operations are also available:
  - Entering a fixed phrase → P472
  - Entering a symbol → P473
  - Entering a face mark → P474
  - Deleting an entered character → P476
  - Searching a dictionary → P475
- The maximum number of characters that can be converted at once is 32 characters.
- List of Roman character entries → P523

Entering a Fixed Phrase

Fixed phrases can be entered by selecting from 5 categories.

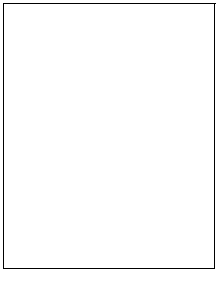
- This can be used from all input methods.

1 While entering characters, tap [Mark]



Category names of fixed phrases

2 Tap a category of a phrase you are entering



- Selections can be made from the categories of "General", "Reply", "Business", "Private" and "English".
- Tap [Back] to go back to the screen for switching between symbols, fixed phrases and dictionary.

3 Tap a fixed phrase to enter

The phrase is entered.

- Tap $$ $$ to scroll up and down the list of fixed phrases.

NOTE

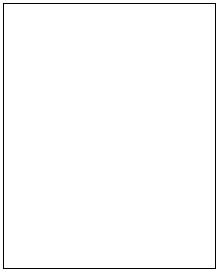
- List of fixed phrases→ P522

Entering a Symbol

Double-byte/single-byte symbols and special characters can be selected for entries.

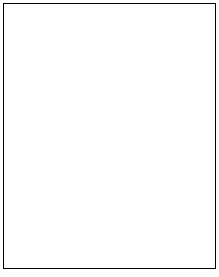
- This can be used from all input methods.

1 While entering characters, tap [Mark]



Types of symbols

2 Tap the type of symbols



- A type of symbol can be selected from "Ｍａｒｋ", "Mark" and Particular".
- Tap [All] to select from all double-byte/single-byte symbols, special characters and kanji characters.
- Tap [Back] to go back to the screen for switching between symbols, fixed phrases and dictionary.

3 Tap a symbol to enter

A symbol is entered.

- Tap $$ $$ to scroll up and down the list of symbols.

NOTE

- List of symbols and special characters → P521

Entering a Face Mark

A "Face mark" which expresses a face by using symbols and alphabet characters can be entered.

- This can be used from all input methods.

1 While entering characters, enter " かお "

Face marks are displayed as for conversion candidates.

- The following face marks are displayed as for conversion candidates.

(-_-)	(-.-)	(+_+)	(*_*)
(-_-;)	(..)	(._.)	(._.)_
(;_;)	(>_<)	(@_@)	(T_T)
(^.^)	(^O_O^)	(^O^)	(^^)
(^^ ゞ	(^_-)	(^_^)	(^_^;)
(^o^)	(^〇^)	(__)	(~_~)
(~_~;)	(~o~)	)^O^(	>^_^<
^/^	^^;	^_^;	_(._.)_
m(__)m			

2 Tap a face mark to enter

A face mark is entered.

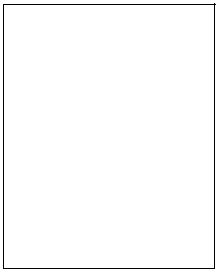
Simple Entry of an Email Address

Strings of fixed form used for email or internet address, such as a domain name (that follows after @) of an email address, can be entered.

- This can be used from all input methods.

1 While entering characters, tap [Mark]

2 Tap [Web] from the screen for switching between symbols, fixed phrases and dictionary



- Tap [Back] to go back to the screen for switching between symbols, fixed phrases and dictionary.

3 Tap a string to enter

The string is entered.

- Tap $$ $$ to scroll up and down the list of symbols.

NOTE

- List of fixed phrases→ P522

Entering Characters from Dictionary

A lemmatized search can be performed from a dictionary by selecting a string from the entered text. It is convenient to check the meaning, a declensional kana ending, etc. of the selected string. Furthermore, the searched contents can also be copied.

- This can be used from all input methods.

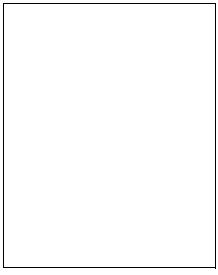
Dictionary Search while Entering Characters with Direct Input Method

After setting the character input method to "Kana keyboard", "Qwerty keyboard" or "handwriting", a dictionary search is performed while entering characters.

1 Drag a string for a dictionary search from the entering text

The cursor hits the specified area.

2 Tap $$



Decided character display area

Direction word display area

Search result display area

Dictionary search key

Dictionary search screen

3 Tap a dictionary search key of a dictionary you are using

A search begins, and related direction words are displayed in direction word display area.

- A dictionary can be selected from "national language", "Japanese-English" or "English-Japanese".

4 Tap a target direction word from the direction word display area

The explanation of the selected direction word is displayed in the search result display area.

- Tap [Copy] to copy the contents displayed in the search result display area. Drag a string in the search result display area, and tap [Copy] to copy the specified string. Tap [Paste] to paste the copied content in the decided character display area.
- Tap [Back] to end the dictionary search.

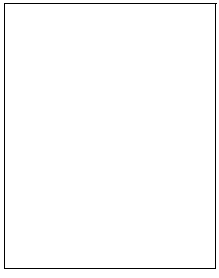
Dictionary Search while Entering Characters with Indirect Input Method

After setting the character input method to "Multi Tap" or "Two Tap", a dictionary search is performed while entering characters.

1 Drag a string for a dictionary search from the entering text

The cursor hits the specified area.

2 Tap [Mark]



The screen for switching between symbols, fixed phrases and dictionary

3 Tap [Dictionary] ▶ perform a dictionary search

Subsequent operations are the same as dictionary search for a direct input method.

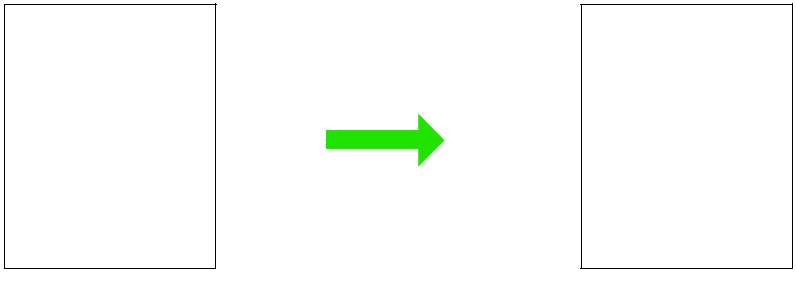
- How to operate→ P475

Deleting Characters

Entered characters can be deleted one at a time or several at once. Also, a range for deletion can be specified.

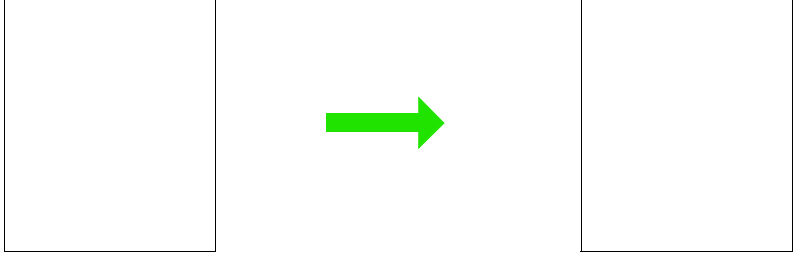
When deleting one character a time

In the display area, tap the right side of a character you want to delete to bring the cursor there, and tap [Clear]

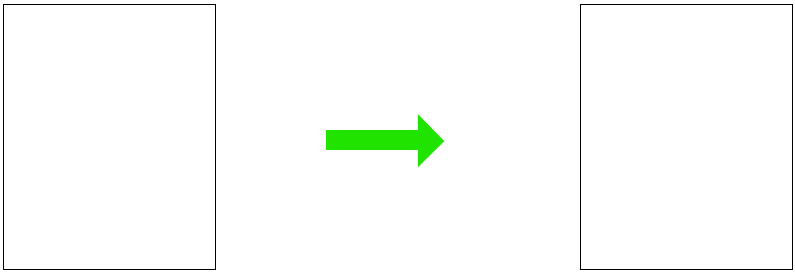


When deleting all characters entered

- **Tap the right side of the last character to bring the cursor there, and point [Clear] for more than one second**

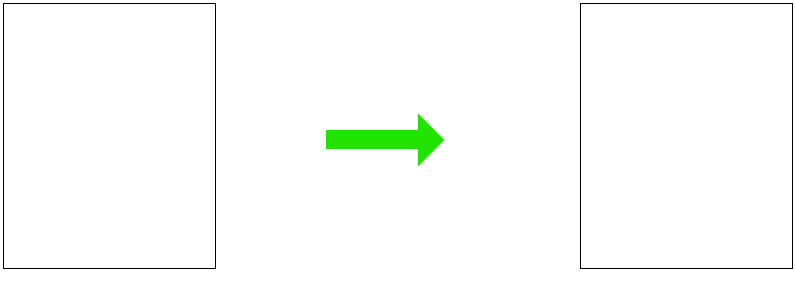


- **Drag on entered characters, and tap [Clear]**



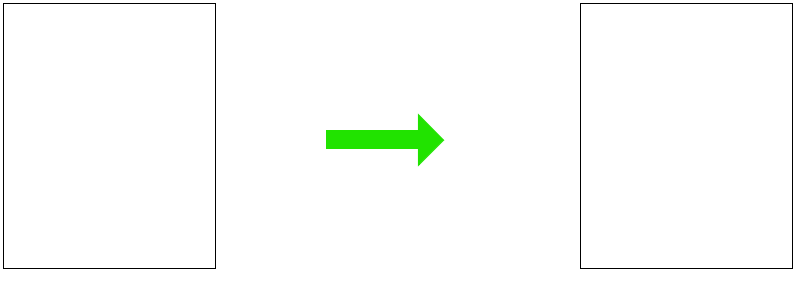
When deleting all characters beyond specified location

Tap the left side of the first character of the string you want to delete to bring the cursor there, and point [Clear] for more than one second



When deleting by specifying the area

Drag on the string you are deleting, and tap [Clear]



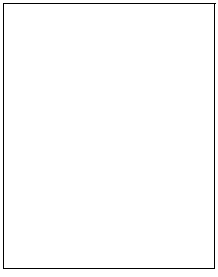
Entering Characters with Handwriting

With handwriting, a character is entered in the free draw input screen by directly writing on the touch screen with the Stylus.

- It is necessary to set the input method to "Handwriting" beforehand. → P492

Handwriting Input Screen

When the input method is set to "free draw input", following input screen will display by tapping $$ on the Status bar in the situation of entering characters.



Item		Description
①	Input method switch key	A menu is displayed, and input method can be switched.
②	Number of characters	The number of confirmed characters/maximum number available for character input are displayed.
③	Move key	The free draw input screen is moved to the upper part/lower part of the touch screen.
④	Dictionary key	A dictionary search is performed.
⑤	Input field switch key	When two or more input fields (name, family name, address, etc.) exist in one screen, such as a registration screen for a contact, the input field can be changed with having the free draw input screen displayed.
⑥	Minimize key	Temporarily hides the keyboard.
⑦	End key	Closes the free draw input screen.
⑧	Recognition mode tab	Switches the mode which recognizes the type of character entered with free draw.
⑨	Help key	Displays the help for free draw input.
⑩	Maximize/standard key	The size of free draw input area can be switched between enlarged size and standard size.
⑪	Input area	A character is entered with free draw.
⑫	Input area switch key	A continuation of the input area current entering is displayed.
⑬	Symbol key	A screen that switches between symbols, fixed phrases and dictionary is displayed.
⑭	Convert key	Converts input characters.
⑮	New-line key	A new line is started.
⑯	Space key	A space is entered.
⑰	Clear key	Deletes a character entered.

- Tap [Mark] to display the screen that switches between symbols, fixed phrases and dictionary. → P472
- List of symbols and special characters → P521
- List of fixed phrases → P522

Entering Characters

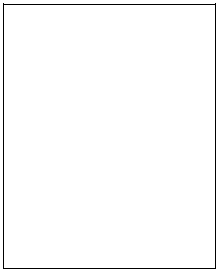
The input method for entering characters with handwriting input is explained.

<Example: when entering "太郎" in Name of a contact>

1 Tap *Name* field in a contact ▶ tap $$ on the Status bar

- How to operate → P99

2 Write " たろう "in the input area



Conversion candidates

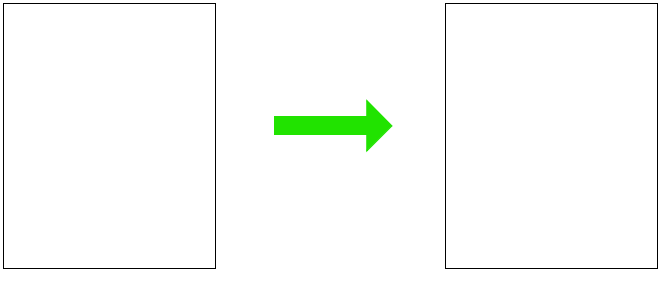
3 From the conversion candidates, tap [太郎]

Input of "太郎" is set.

- When there are more than one candidate, display them by dragging the scroll bar.
- When predict conversion function is set to ON, the conversion candidate predicted to follow the character decided in conversion candidate area is displayed.
- Tap END key to end the entry.
- To continue entering characters, write a character in the input area.

■When changing the character which has not been recognized correctly

When a character is entered in the input area, the bottom right of the input area displays as following, and by tapping it will display the candidates for the entered character.



If a target character exists in the candidates, tap the character for a conversion.

If a target character does not exist in the candidates, tap $$ and rewrite the character.

- In the input area and for the candidates, the recognized characters are classified and displayed in the following colors. When the character type currently displayed is unclear, it can also be judged by its color.

- Hiragana: Pink
- Kanji: Yellow
- Katakana: Purple
- Alphabet: Green
- Number: Light-blue
- Symbol: Orange

NOTE

- Following operations are also available:
  - Entering a fixed phrase → P472
  - Entering a symbol → P473
  - Entering a face mark → P474
  - Deleting an entered character → P476
  - Searching a dictionary → P475
- When a character entered in standard mode could not be recognized correctly, or is hard to recognize, we recommend you to change the mode that corresponds to the character entered (kana mode or alphanumeric mode).
- A character would be more easily recognized by writing it large within the frame.
- The maximum number of characters that can be converted at once is 32 characters.

Save Phrases

Editing/Registering Fixed Phrases

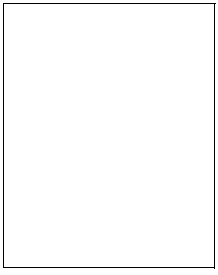
By registering frequently used greetings and phrases, they can be entered quickly by just selecting a fixed phrase.

- When Master Clear is performed, the registered fixed phrases are all deleted, and it will return to the default state.

Registering a New Fixed Phrase

A fixed phrase is registered.

1 Tap $$ ▶ $$ on the Application Selector Bar, tap "Handset" tab ▶ *Text input* on the Control Panel screen, tap [Advanced] on Text input setup screen, and tap *Edit Template* on Preferences screen



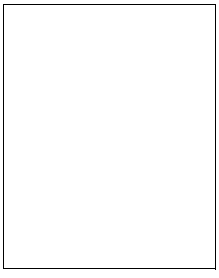
Category: Switches the category of fixed phrases.

Fixed phrase edit screen

2 Tap the *Category* and select a category where you are registering

- Selections can be made from the categories of "General", "Reply", "Business", "Private" "English" and "Internet".
- Maximum of 20 fixed phrases can be registered for each category.

3 Tap [Add]



Sentence : Entered the phrase to be registered.

4 Enter a phrase ▶ Tap [Settings]

The phrase is registered.

- Regardless of double-byte/single-byte, the maximum number of characters that can be entered is 32.

Editing the Default Fixed Phrases

A registered fixed phrase is edited.

1 Display the fixed phrase edit screen

- How to operate → P480

2 Tap the *Category* and select a category of the fixed phrase you are making a change

- Selections can be made from the categories of "General", "Reply", "Business", "Private" "English" and "Internet".

3 Tap the fixed phrase you are editing ▶ tap [Change]

4 Edit the phrase ▶ tap [Settings]

The fixed phrase is edited.

- Up to 32 double-byte/single-byte characters can be entered is 32.
- Tap [Cancel] to stop editing the fixed phrase.

Deleting a Fixed Phrase

Registered fixed phrases can be deleted one at a time.

1 Display the fixed phrase edit screen

- How to operate → P480

2 Tap the *Category* and select a category of the fixed phrase you are deleting

- Selections can be made from the categories of "General", "Reply", "Business", "Private" "English" and "Internet".

3 **Tap the fixed phrase you are deleting ▶ tap [Delete]**

4 **Tap [Yes]**

The fixed phrase will be deleted.

- Tap [No] to cancel the deletion.

Character copy

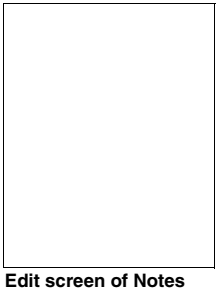
Copying/Cutting and Pasting Characters

Characters and numbers such as from notes or messages can be copied or cut, and pasted on another character input screen.

Copying/Cutting Characters

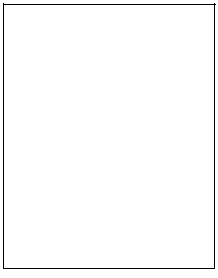
Specify the range of text to copy/cut in Notes etc., display the screen to paste and paste. When a copy is performed, the original copied content remains and the same content is pasted to the pasted location. Moreover, when a cut is performed, the original copied content is lost, and the copied content is pasted to the pasted location.

1 **Display the screen to perform Copy/Cut**



Edit screen of Notes

2 **Drag and specify the range of string to copy/cut**



The specified area will be highlighted.

3 **Tap *Edit* on the Menu bar ▶ tap *Copy/Cut***

Selected range will be copied/cut.

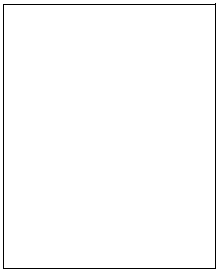
- Tap Copy to copy the selected range.
- Tap Cut to cut the selected range.

NOTE

- Depending on application, it is not necessary to specify the range to perform a copy/cut. For examples, calculation result of a calculator and a phone number entered in the phone number entry screen are copied as the way they are.
- Depending on application, the item names for ***Copy/Paste*** displayed on a menu bar may differ, or they may be displayed at different place than the menu bar.

■**Copy/Cut and Paste operations**

For screens displayed such as when entering a keyword for a search, a menu can be displayed from other than a menu bar to perform Copy/Cut and Paste.



Tap $$ beside the title to display the menu.

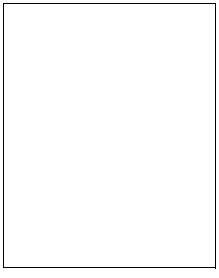
Search screen for Notes

Pasting a Character

A content copied/cut is pasted.

1 Display a screen to paste a copied/cut content

2 Tap on the place to specify the position to paste



Tap $$ beside the title to display the menu.

The cursor moves to the location where the paste is performed.

3 Tap *Edit* on the Menu bar ➧ tap *Paste*

A content copied/cut is pasted.

NOTE

- Depending on application, it is not necessary to specify the range to perform a copy/cut. For examples, calculation result of a calculator and a phone number entered in the phone number entry screen are copied as the way they are.
- Depending on application, the item names for ***Paste*** displayed on a Menu bar may differ, or they may be displayed at different place than the Menu bar.

Save word

Registering Frequently Used Words

By registering frequently used names and words in the user dictionary, they can be displayed as conversion candidates at a character conversion, and can be entered quickly.

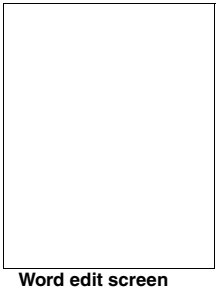
- When Master Clear is performed, the registered words are all deleted.

Registering a New Word

A word is registered in the user dictionary.

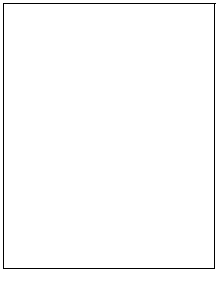
- Up to 100 words can be registered.

1 Tap $$ ▶ $$ on the Application Selector bar, tap *Handset* tab ▶ *Text input* on the Control Panel screen, and tap [Advanced] on Text input setup screen



Word edit screen

2 Tap [Add]



Reading : A reading of the word to register is entered.
Word : A word to register is entered.

3 Tap *Reading* ▶ Enter a reading

- Regardless of double-byte/single-byte, the maximum number of characters that can be entered for the combination of Reading and Word is 11.

4 **Tap *Word* ▶ Enter a word**

- Regardless of double-byte/single-byte, the maximum number of characters that can be entered for the combination of Reading and Word is 11.

5 **Sap [Settings]**

The word is registered.
- Tap [Cancel] to stop registering.

Editing a Registered Word

A word registered in the user dictionary is edited.

1 **Display the word edit screen**

- How to operate → P484

2 **Tap the word you are editing ▶ tap [Change]**

3 **Tap the field you want to edit ▶ edit the Reading/Word**

- Regardless of double-byte/single-byte, the maximum number of characters that can be entered for the combination of Reading and Word is 11.

4 **Tap [Settings]**

The word is edited.

Deleting a Registered Word

A word registered in the user dictionary is deleted one at a time.

1 **Display a word edit screen**

- How to operate → P484

2 **Tap the word you are deleting ▶ tap [Delete]**

3 **Tap [Yes]**

The word is deleted.
- Tap [No] to cancel the deletion.

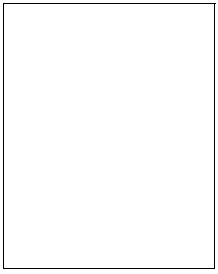
Using Electronic Dictionary

Settings and registration for the dictionary installed in FOMA handset are performed.

Setting to Perform a Dictionary Search Automatically at a Conversion

You can set it so that when a character entered is converted, conversion candidates are searched from the dictionary and displayed. Also, the type of dictionary used for the search can be set.

1 Tap $$ ▶ $$ at the Application Selector bar, tap *Handset* tab ▶ *Text input* on the Control panel screen, tap [Advanced] on Text input setup screen, and tap *Dictionary search at conversion* on Preferences screen



Use dictionary search
: Sets so that a dictionary search is performed when a character is converted.

National language dictionary
: National language dictionary is added to the dictionary used for the search.

Japanese-English dictionary
: Japanese-English dictionary is added to the dictionary used for the search.

- Tap $$ $$ on the tab display area to switch the tab display between left and right.

2 Tap $$ at the field of *Use dictionary search*

3 Tap $$ of the dictionary used for the search

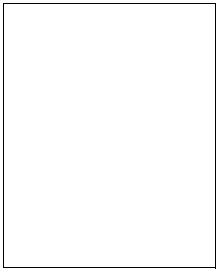
It is set so that a dictionary search is performed at conversion, and the dictionary used for the search is selected.

Adding a Dictionary

Dictionaries installed to FOMA handset from the attached CD-ROM can be added as the dictionaries used at a character conversion. Also, setting the priority for a dictionary search and deleting added dictionaries can be performed.

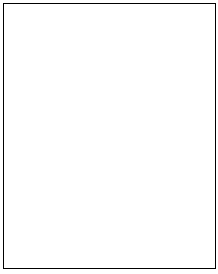
- Up to 64 dictionaries can be registered.

1 **Tap $$ ▶ $$ on the Application Selector bar, tap *Handset* tab ▶ *Text input* on the Control panel screen, tap [Advanced] on Text input setup screen, and tap *Additional Dictionary* tab on Preferences screen**



Dictionaries installed are displayed.

2 **Tap in the order from $$ of the dictionary to add ▶ [Add]**



- Unless $$ of the dictionary is tapped, the installed dictionary cannot be used.

3 **Tap [Settings]**

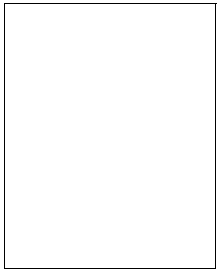
The dictionary is added.

Setting the Priority of Dictionary Search

If there are two or more dictionaries added, the priority for dictionary search can be set up.

1 **Tap $$ ▶ $$ on the Application Selector bar, tap *Handset* tab ▶ *Text input* from the Control panel screen, tap [Advanced] on Text input setup screen, and tap *Additional Dictionary* tab on Preferences screen**

2 **Tap [Priority]**



3 **Tap the dictionary moving the priority ▶ tap [▲]/[▼]**

4 **Tap [Set]**

The priority is set.

Deleting an Added Dictionary

A dictionary added for search at conversion is set not to be used.

- A dictionary installed will not be erased.

1 **Tap $$ ▶ $$ on the Application Selector bar, tap *Handset* tab ▶ *Text input* on the Control panel screen, tap [Advanced] on Text input setup screen, and tap *Additional Dictionary* tab from Preferences screen**

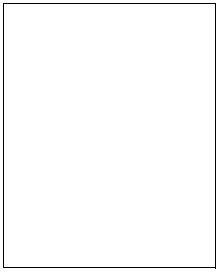
2 **Tap [Delete] ▶ [Yes]**

The dictionary is set not to be used.

Setting the Saving Method of User Dictionary and Learning Dictionary

User dictionary and learning dictionary stored in FOMA handset can be set so that they are automatically backed up in Trans Flash memory card.

1 **Tap $$ ▶ $$ on the Application Selector bar, tap *Handset* tab ▶ *Text input* on the Control panel screen, tap [Advanced] on Text input setup screen, and tap *Save Dictionary* tab on Preferences screen**



Save automatically
: Sets whether or not to save the dictionary automatically.

Saving cycle
Once a day : Saves when the first character input screen displayed in a day is closed.
When closing keyboard
: Saves when the character input screen is closed.

- Tap $$ $$ at the tab display area to switch the tab display between left and right.

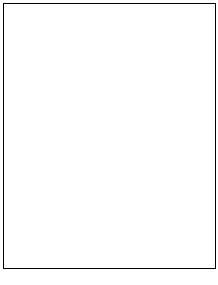
2 **Tap $$ at the field of *Save automatically***

3 **Tap $$ of *Once a day/When closing keyboard* at field of *Saving cycle***

Returning the Learning Dictionary to the Default State

Learned information stored in the user dictionary can be reset to default state.

1 **Tap $$ ▶ $$ on the Application Selector bar, tap *Handset* tab ▶ *Text input* on the Control panel screen, tap [Advanced] on Text input setup screen, and tap *Learning* tab on Preferences screen**



- Tap $$ $$ on the tab display area to switch the tab display between left and right.

2 **Tap [Clear learning information] ▶ [Yes]**

The learned information will be deleted.
- Tap [No] to cancel the deletion of the learning information.

■**Learning Information**

A converted content of a character input by the user is stored in the user dictionary in FOMA handset, and when the same character is entered and converted again, it will be displayed as one of the conversion candidates.

Setting the Detail of Character Entry

The settings related to character input, such as the usage of predict conversion function and the input mode when the character entry screen is activated are set.

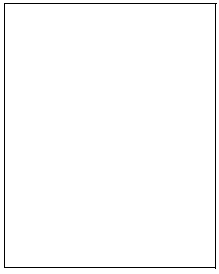
Setting the Input System

Default setting	AWnn Japanese keyboard

The input system of FOMA handset can be changed to other input systems.

- Other input systems are not installed in the FOMA handset by default. This operation can be performed only when other input system is installed.

1 Tap $$ ▶ $$ on the Application Selector bar, and tap *Handset* tab ▶ *Text input* on the Control panel screen



2 Tap *Primary input method* ▶ select an input system

An input system is set.

- Tap [Default] to reset the input system back to the default state.

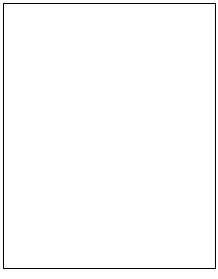
Setting Alternative Input Method

Default setting	None

The alternative input method for the FOMA handset can be changed.

- No other alternative input system is installed in the FOMA handset by default. This operation can be performed only when another input system is installed.

1 **Tap $$ ▶ $$ on the Application Selector bar, tap *Handset* tab ▶ *Text input* on the Control panel screen, and tap *Alternative* on the text input setup screen**



2 **Tap *Alternative input method* ▶ select an alternative input system**

An alternative input system is selected.

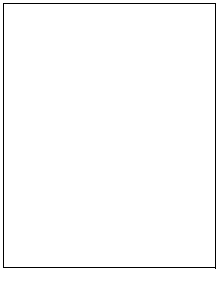
- Tap [Default] to reset the changed alternative input method back to the default state.

Using Predict Conversion Function

Default setting	Use predict conversion: $$

Whether to use the predict conversion function or not at the conversion of a character can be set.

1 **Tap $$ ▶ $$ on the Application Selector bar, tap *Handset* tab ▶ *Text input* on the Control panel screen, tap [Advanced] on Text input setup screen, and tap *Predict conversion* tab on Preferences screen**



- Tap $$ $$ on the tab display area to switch the tab display between left and right.

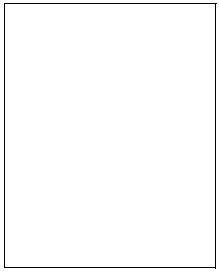
2 **Tap $$ at *Use Predict conversion***

The Predict conversion function is set.

Setting the Input Mode at the Time of Activation

The input mode displayed when the text input screen is displayed can be set up beforehand.

1 **Tap $$ ▶ $$ on the Application Selector bar, tap *Handset* tab ▶ *Text input* from the Control panel screen, tap [Advanced] from Text input setup screen, and tap *Input mode at activation* tab from Preferences screen**



Hiragana input: Sets hiragana as the input mode to be always displayed.

Single-byte alphabet input
: Sets single-byte alphabet as the input mode to be always displayed.

System setup : Sets so that the input mode corresponding to the contents of an input may be displayed automatically.

- Tap $$ $$ at the tab display area to switch the tab display between left and right.

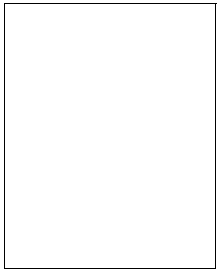
2 **Tap $$ of the input mode you are using at *At activation***

The input mode at activation is set.

Setting the Display Format of Date and Time

The display format of a date and time inputted by tapping a specific key can be set for each input mode beforehand.

1 **Tap $$ ▶ $$ on the Application Selector bar, tap *Handset* tab ▶ *Text input* on the Control panel screen, tap [Advanced] on Text input setup screen, and tap *Date and time* tab on Preferences screen**



Hiragana input: Sets the display format of a date and time at hiragana input mode.

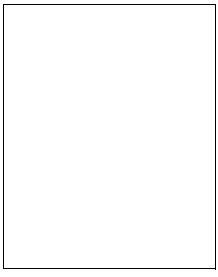
Single-byte kana input
: Sets the display format of a date and time at single-byte kana input mode.

Double-byte alphabet input
: Sets the display format of a date and time at double-byte alphabet input mode.

Single-byte alphabet input
: Sets the display format of a date and time at single-byte alphabet input mode.

- Tap $$ $$ on the tab display area to switch the tab display between left and right.

2 Tap $$ of the input mode you are setting ➧ [Change]



Date : Selects the display format for Date.
Time : Selects the display format for Time.

3 Tap the field to set, and select a display format

4 Tap [Set]

The display formats of date and time for the selected input mode are set up.

NOTE

- Input method of Date and Time → P468, P470, P496, P500

Setting Details for Handwriting

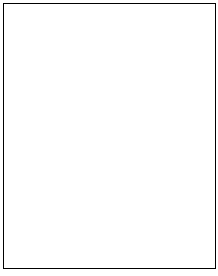
The recognition speed of a free draw input, the width of the pen, and the color of the pen can be set up. Also, ***My symbol*** that inputs a character string by just entering a simple sign can be set.

Registering My Symbol

A setting can be made for registering strings to be converted just by entering a ***Symbol***, such as a simple sign or mark.

- Up to 30 symbols can be registered.

1 Tap $$ ➧ $$ on the Application Selector bar, tap *Handset* tab ➧ *Text input* from the Control panel screen, tap [Advanced] on Text input setup screen, and tap *Handwriting* tab ➧ [Handwriting settings] on Preferences screen



- Tap $$ to display the help for handwriting.

Symbol field

Registration text field

2 Write a symbol at the symbol field

Drag and draw a symbol to register within the frame.

- Tap [Clear] below the symbol field to delete and rewrite the symbol

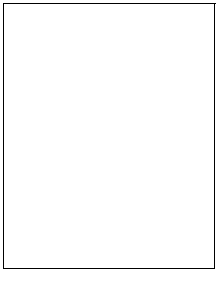
3 Tap a registration text column ▶ enter a text

- Tap [Clear] below the registration text field to delete a text.

Setting the Recognition Speed of Free Draw and Width/Color of Characters

The recognition speed of free draw can be set. Also thickness and color of characters entered with free draw can be set.

1 Tap $$ ▶ $$ on the Application Selector bar, tap *Handset* tab ▶ *Text input* from the Control panel screen, tap [Advanced] on Text input setup screen, tap *Handwriting* tab ▶ [Handwriting settings] from Preferences screen, and tap *Others* tab on Decuma Settings screen



Recognition timeout
: Selects the drag speed that can be recognized.
Pen size : Selects the width of the pen.
Pen color : Selects the color of the pen.

2 Tap $$ of the speed you are setting at *Recognition timeout*

- By setting the recognition speed faster, characters entered by free draw with fast drag operation can be recognized.

3 Tap $$ of the width you are setting at *size*

4 Tap $$ of the color you are setting at *Pen color*

5 Tap [Done]

The recognition timeout, width and size/color of the pen are set.

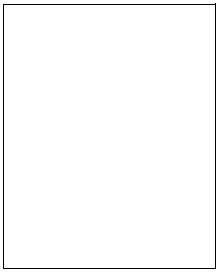
Indirect input method

Entering Characters with Indirect Input Method

FOMA handset has two indirect input methods "Multi Tap" and "Two Tap". By setting up an input method beforehand, each input screen (keyboard) can be displayed at the time of a character input. → P492

Multi Tap/Two Tap Keyboard

When the input method is set as ***Multi Tap*** or ***Two Tap***, following keyboard will display by tapping $$ on the Status bar when a character is entered. For the procedure for Multi Tap and Two Tap, please refer to each explanation. → P495, P500



Hiragana input mode

Item		Description
①	Input method switch key	A menu is displayed, and input method can be switched.
②	Name	The name of the character input field is displayed.
③	Minimize key	Temporarily hides the keyboard.
④	Input field switch key	When two or more input field (name, family name, address, etc.) exist in one screen, such as a registration screen for a contact, the input field can be changed with having the keyboard displayed.
⑤	End key	Closes the keyboard.
⑥	Display area	Characters entered/decided are displayed.
⑦	Conversion candidate area	Conversion candidates for characters entered are displayed.
⑧	Scroll arrow	When conversion candidates cannot all fit in the display, tap the arrow to scroll up and down to display the rest of the candidates.
⑨	Number of characters	The number of decided characters/maximum available character input is displayed.

- In order to switch an input mode, tap [Character] at the keyboard of each input mode, and from the screen that switches input mode, tap one of the keys from [kanji]/[Kata]/[Ａｂｃ]/[Abc]/[Eng]/[Num].
- Tap [Mark] to display the screen that switches between symbols, fixed phrases and dictionary. → P472
- List of symbols and special characters → P521
- List of fixed phrases → P522

Multi Tap

Entering a Character with Multi Tap

With Multi Tap, a keyboard with two or more characters assigned to one key is displayed as a character input screen. In order to enter a character, tap the key where a character is assigned multiple times until that character is displayed.

- The input method needs to be set as ***Multi Tap*** beforehand. → P492

Keyboard Display and Character Assignments for Each Input Mode

Following are the keyboard display and character assignments for each input mode. Whenever a key is tapped where the character entering is assigned, the character on the key changes.

■Input mode: hiragana

Keyboard display	Characters assigned
あ	→あ→い→う→え→お→ぁ →ぃ →ぅ →ぇ →ぉ →
か	→か→き→く→け→こ→
さ	→さ→し→す→せ→そ→
た	→た→ち→つ→て→と→っ →
な	→な→に→ぬ→ね→の→
は	→は→ひ→ふ→へ→ほ→
ま	→ま→み→む→め→も→
や	→や→ゆ→よ→ゃ →ゅ →ょ →
ら	→ら→り→る→れ→ろ→
わ	→わ→を→ん→ゎ →
*	→ 、→ 。→ ー → ？ → ！ → & → " → 「 → 」→ ・→ (→) →
# *1, *2	→ (double-byte space) → (Date *3) → (Time *3) →
Character	Displays the screen that switches the input mode.
Symbol	Displays the screen that switches between symbols, fixed phrases and dictionary.
Convert	Converts a character entered.
Clear	Deletes a character entered.

■Input mode: single-byte katakana

Keyboard display	Characters assigned
ｱ	→ｱ→ｲ→ｳ→ｴ→ｵ→ｧ→ｨ→ｩ→ｪ→ｫ→
ｶ	→ｶ→ｷ→ｸ→ｹ→ｺ→
ｻ	→ｻ→ｼ→ｽ→ｾ→ｿ→
ﾀ	→ﾀ→ﾁ→ﾂ→ﾃ→ﾄ→ｯ→
ﾅ	→ﾅ→ﾆ→ﾇ→ﾈ→ﾉ→
ﾊ	→ﾊ→ﾋ→ﾌ→ﾍ→ﾎ→
ﾏ	→ﾏ→ﾐ→ﾑ→ﾒ→ﾓ→
ﾔ	→ﾔ→ﾕ→ﾖ→ｬ→ｭ→ｮ→
ﾗ	→ﾗ→ﾘ→ﾙ→ﾚ→ﾛ→
ﾜ	→ﾜ→ﾝ→
*	→ 、→ 。→ - → ？ → ！ → & → " → 「 → 」→ ・→ (→) →
# *2	→ ﾞ → ﾟ → (single-byte space) → (Date *3) → (Time *3) →
Character	Displays the screen that switches the input mode.
Symbol	Displays the screen that switches between symbols, fixed phrases and dictionary.
Clear	Deletes a character entered.

■Input mode: single-byte alphabet

Keyboard display	Characters assigned
1	1
2ABC	→a→b→c→A→B→C→2→
3DEF	→d→e→f→D→E→F→3→
4GHI	→g→h→i→G→H→I→4→
5JKL	→j→k→l→J→K→L→5→
6MNO	→m→n→o→M→N→O→6→
7PQRS	→ P→q→r→s→ P→Q→R→S→7→
8TUV	→t→u→v→T→U→V→8→
9WXYZ	→w→x→y→z→W→X→Y→Z→9→
0	0
*	→ . → @ → _ → - → / → ? → ! → & → ' → " → : → ; → ~ →
#*2	→ (single-byte space) → (Date*3) → (Time*3) → .co.jp → .com → .net → .ne.jp → .or.jp → http:// → www. → @docomo.ne.jp →
Character	Displays the screen that switches the input mode.
Symbol	Displays the screen that switches between symbols, fixed phrases and dictionary.
Clear	Deletes a character entered.

■Input mode: double-byte alphabet

Keyboard display	Characters assigned
１	１
２ＡＢＣ	→ａ→ｂ→ｃ→Ａ→Ｂ→Ｃ→２→
３ＤＥＦ	→ｄ→ｅ→ｆ→Ｄ→Ｅ→Ｆ→３→
４ＧＨＩ	→ｇ→ｈ→ｉ→Ｇ→Ｈ→Ｉ→４→
５ＪＫＬ	→ｊ→ｋ→ｌ→Ｊ→Ｋ→Ｌ→５→
６ＭＮＯ	→ｍ→ｎ→ｏ→Ｍ→Ｎ→Ｏ→６→
７ＰＱＲＳ	→Ｐ→ｑ→ｒ→ｓ→Ｐ→Ｑ→Ｒ→Ｓ→７→
８ＴＵＶ	→ｔ→ｕ→ｖ→Ｔ→Ｕ→Ｖ→８→
９ＷＸＹＺ	→ｗ→ｘ→ｚ→Ｗ→Ｘ→Ｙ→Ｚ→９→
０	０
＊	→．→＠→＿→―→／→？→！→＆→＇→＂→：→；→～→
#*2	→（double-byte space）→（Date*3）→（Time*3）→
Character	Displays the screen that switches the input mode.
Symbol	Displays the screen that switches between symbols, fixed phrases and dictionary.
Clear	Deletes a character entered.

■Input mode: single-byte number

Keyboard display	Characters assigned
1	1
2	2
3	3

Keyboard display	Characters assigned
4	4
5	5
6	6
7	7
8	8
9	9
0	0
*	*
#	#
Character	Displays the screen that switches the input mode.
Symbol	Displays the screen that switches between symbols, fixed phrases and dictionary.
Others	→ (double-byte space) → (New-line) → ： → / →. →, →
Clear	Deletes a character entered.

*1: Voiced sound and semi-voiced sound can be added (Only the characters that can add them). Each time you tap, it will switch as: "→ ゛ (voiced sound)→ ゜ (semi-voiced sound) → none → ".

*2: Will start a new line by pointing it for more than 1 second,

*3: Date and Time can be entered by set display format. → P492

Entering a Character

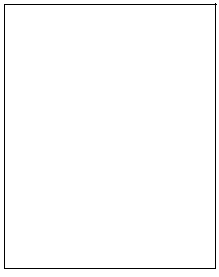
The method to enter a character with Multi Tap is explained.

<Example: when entering "太郎" in *Name* of a contact >

1 Tap in the order by *Name* in a contact ▶ $$ at the Status bar

- How to operate → P99

2 Enter "たろう"



- To enter "た": Tap "た" once
- To enter "ろ": Tap "ら" five times
- To enter "う": Tap "あ" three times

3 From the conversion candidates, tap [太郎]

Input of "太郎" is set.

- When predict conversion function is set to ON, the conversion candidate predicted to follow the character decided in conversion candidate area is displayed.
- Tap END key to end the entry.

- To continue entering characters, tap a key where the character you are entering is assigned.
- For a character input, please refer to "Keyboard display and character assignments for each input mode" → P496

NOTE

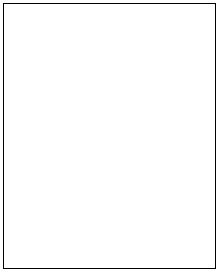
- Following operations are also available:
  - Entering a fixed phrase → P472
  - Entering a symbol → P473
  - Entering a face mark → P474
  - Deleting an entered character → P476
  - Searching a dictionary → P475
- The maximum number of characters that can be converted at once is 32 characters.

Determining the Characters Entered with Multi Tap Automatically

Default setting	Determine automatically $$:

You can setup for the cursor to move automatically to the next input position and wait for an input after each character is entered by multi-taps. When entering a character assigned to the same key continuously, the operation to tap the right side of the entered character to move the cursor becomes unnecessary.

1 Tap $$ ▶ $$ at the Application Selector bar, tap *Handset* tab ▶ *Text input* from the Control Panel screen, tap [Advanced] from Text input setup screen, and tap *Multi Tap* tab from Preferences screen



Determine automatically
: Sets to automatically determine entered characters.

Determining cycle
: Selects the speed to determine.

2 Tap $$ at the field of *Determine automatically*

3 Tap $$ of the speed to set for *Determining cycle*

Characters entered by Multi Tap are set to be determined automatically.

Two Tap

Entering a Character with Two Tap

With Two Tap, a keyboard with two or more characters assigned to one key is displayed as a character input screen. In order to enter a character, tap the key where a character to input is assigned, display the selection screen for the assigned character, and tap the character to input.

- The input method needs to be set as ***Two Tap*** beforehand.→ P492

Keyboard Display and Character Assignments for Each Input Mode

Following are the keyboard display and character assignments for each input mode. Tap a key where the character entering is assigned, and a selection screen for assigned character is displayed.

■Input mode: hiragana

Keyboard display	Characters assigned
あ	あいうえおぁぃぅぇぉヴ
か	かきくけこがぎぐげご
さ	さしすせそざじずぜぞ
た	たちつてとだぢづでどっ
な	なにぬねの
は	はひふへほばびぶべぼぱぴぷぺぽ
ま	まみむめも
や	やゆよゃゅょ
ら	らりるれろ
わ	わをんゎ
*	、。- ？ & " 「 」 ・ ( )
#	$$(double-byte space) $$(New-line) Date Time
Character	Displays the screen that switches the input mode.
Symbol	Displays the screen that switches between symbols, fixed phrases and dictionary.
Convert	Converts a character entered.
Clear	Deletes a character entered.

■Input mode: single-byte katakana

Keyboard display	Characters assigned
ｱ	ｱｲｳｴｵｧｨｩｪｫヴ
ｶ	ｶｷｸｹｺｶﾞｷﾞｸﾞｹﾞｺﾞ
ｻ	ｻｼｽｾｿｻﾞｼﾞｽﾞｾﾞｿﾞ
ﾀ	ﾀﾁﾂﾃﾄﾀﾞﾁﾞﾂﾞﾃﾞﾄﾞｯ
ﾅ	ﾅﾆﾇﾈﾉ
ﾊ	ﾊﾋﾌﾍﾎﾊﾞﾋﾞﾌﾞﾍﾞﾎﾞﾊﾟﾋﾟﾌﾟﾍﾟﾎﾟ
ﾏ	ﾏﾐﾑﾒﾓ
ﾔ	ﾔﾕﾖｬｭｮ
ﾗ	ﾗﾘﾙﾚﾛ
ﾜ	ﾜﾖﾝ
*	、。- ? ! & " 「 」 ・ ( )
#	$$(single-byte space) $$(New-line) Date Time
Character	Displays the screen that switches the input mode.
Symbol	Displays the screen that switches between symbols, fixed phrases and dictionary.
Clear	Deletes a character entered.

■Input mode: single-byte alphabet

Keyboard display	Characters assigned
1	1
2ABC	A B C 2 a b c
3DEF	D E F 3 d e f
4GHI	G H I 4 g h i
5JKL	J K L 5 j k l
6MNO	M N O 6 m n o
7PQRS	P Q R S 7 p q r s
8TUV	T U V 8 t u v
9WXYZ	W X Y Z 9 w x y z
0	0
*	. , ? ! - & ' " : ; @ ~ /
#	$$(single-byte space) $$(New-line) Date Time .co.jp .com .net .ne.jp .or.jp http:// www. @docomo.ne.jp
Character	Displays the screen that switches the input mode.
Symbol	Displays the screen that switches between symbols, fixed phrases and dictionary.
Clear	Deletes a character entered.

■Input mode: double-byte alphabet

Keyboard display	Characters assigned
１	１
２ＡＢＣ	Ａ Ｂ Ｃ ２ ａ ｂ ｃ
３ＤＥＦ	Ｄ Ｅ Ｆ ３ ｄ ｅ ｆ
４ＧＨＩ	Ｇ Ｈ Ｉ ４ ｇ ｈ ｉ
５ＪＫＬ	Ｊ Ｋ Ｌ ５ ｊ ｋ ｌ
６ＭＮＯ	Ｍ Ｎ Ｏ ６ ｍ ｎ ｏ
７ＰＱＲＳ	Ｐ Ｑ Ｒ Ｓ ７ ｐ ｑ ｒ ｓ
８ＴＵＶ	Ｔ Ｕ Ｖ ８ ｔ ｕ ｖ
９ＷＸＹＺ	Ｗ Ｘ Ｙ Ｚ ９ ｗ ｘ ｙ ｚ
０	０
＊	． ， ？ ！ ― ＆ ’ ” ： ； ＠ ～ ／
#	$$(double-byte space) $$(New-line) Date Time
Character	Displays the screen that switches the input mode.
Symbol	Displays the screen that switches between symbols, fixed phrases and dictionary.
Clear	Deletes a character entered.

■Input mode: single-byte number

Keyboard display	Characters assigned
1	1
2	2
3	3

Keyboard display	Characters assigned
4	4
5	5
6	6
7	7
8	8
9	9
0	0
*	*
#	#
Character	Displays the screen that switches the input mode.
Symbol	Displays the screen that switches between symbols, fixed phrases and dictionary.
Others	$$(single-byte space) $$(New-line) : / . ,
Clear	Deletes a character entered.

Entering a Character

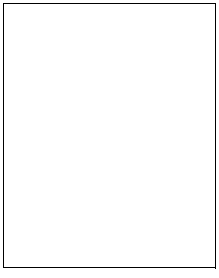
The method to enter a character with Two Tap is explained.

<Example: when entering "太郎" in *Name* field of a contact>

1 Tap the *Name* field in a contact ▶ $$ at the Status bar

- How to operate → P99

2 Tap [た]



A selection screen with the characters assigned to [た] key is displayed.

3 Tap [た]

"た" is entered. Enter "ろう" the same way.

- To enter "ろ": Tap in the order by [ら] → [ろ]
- To enter "う": Tap in the order by [あ] →[う]

4 From the conversion candidates, tap [太郎]

Input of "太郎" is set.

- When predict conversion function is set to ON, the conversion candidate predicted to follow the character decided in conversion candidate area is displayed.
- Tap END key to end the entry.
- To continue entering characters, tap a key where the character you are entering is assigned.
- For a character input, please refer to "Keyboard display and character assignments for each input mode" → P500

NOTE

- Following operations are also available:
  - Entering a fixed phrase → P472
  - Entering a symbol → P473
  - Entering a face mark → P474
  - Deleting an entered character → P476
  - Searching a dictionary → P475
- The maximum number of characters that can be converted at once is 32 characters.

Overseas Use

■International Roaming

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■Making/Answering Calls from Overseas

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"WORLD WING" International Roaming Service

International roaming is a service that makes telephone and other types of communications available from overseas, which is outside of the FOMA network service area, by using affiliated operators' networks.

The international roaming service allows subscribers to use their FOMA handsets to make telephone communication including voice and video calls*2, and email, Short Message Service (SMS) and packet communication in about 220*1 countries and regions around the world.

*1: As of XX 2004

*2: As of XX 2004, videophone communication is available when you and the other parties are using DoCoMo (Japan), Hutchison 3G UK (United kingdom.) or Hutchison 3G HK (Hong Kong). For details, visit the DoCoMo website.

- Use of the international roaming service requires a subscription to "WORLD WING," the international roaming service provided by DoCoMo. In addition, a UIM (green) made available for WORLD WING must be attached to the FOMA handset.
- A UIM (blue) must be switched with a UIM (green).
- When you purchase a subscription to WORLD WING at a DoCoMo information desk, the card will be exchanged free of charge.
- Communication services and functions available depend on the network operator connected to. → P507
- The communication system in Overseas networks to be applied are W-CDMA or GSM/GPRS.

W-CDMA	3GPP (3rd Generation Partnership Project)* is a global standard. A 3G mobile communication system is compliant to 3GPP. *: A regional standardization organization founded for the development of common technology specification relating to the 3G mobile communication system (IMT-2000).
GSM (Global System for Mobile Communications)	The 2nd generation mobile communication system in digital mode is most widely used around the world, especially in Europe and Asia.
GPRS (General Packet Radio Service)	The 2.5 generation mobile communication system is the communication method that enables high-speed packet communication through the GPRS* by utilizing GSM *: Packet communication with transmission speed of up to 115 kbps is available.

- By default, network switching for overseas use automatically takes place. → P515

Services Available Outside Japan

Services Available

The following services are available outside Japan:

Service	Description
Voice call	The phone number used in Japan can also be used for making and answering domestic calls in the country of stay and making international calls to Japan or other countries.
Video call	International videophone communication is available with subscribers of specific overseas 3G mobile operators or FOMA handset users in Japan.
Email	The email address used in Japan can also be used for email exchange from overseas.
Short Message Service (SMS)	The recipients' FOMA handset phone numbers can be used to exchange Short Message Service (SMS) messages between FOMA handset users from overseas.
Packet communication	Packet communication is available from overseas by connecting to PCs, etc.

*: Services that may be available depending on the network operator or network used.

Communication Systems and Services Available

Services and functions available differ between networks in Japan and overseas.
Different communication systems and services available are as described below:

		Service					
		Voice call	Video call	Internet	Email	Packet communication	Short Message Service (SMS)
Communication system	W-CDMA	○	○	○	○	○	○
	GSM	○	×	×	×	×	○
	GPRS	○	×	○	○	○	○

Before Use

Make sure of the following before leaving Japan, in the country of stay and after coming back to Japan.

Before Leaving Japan

To use your FOMA handset outside Japan, make sure of the following before leaving Japan.

■Subscription

A subscription to WORLD WING is required.

- WORLD WING is an optional service that requires a separate subscription. No monthly charges apply.
- A UIM (green) made available for WORLD WING must be attached to the FOMA handset for overseas use.

■Battery charging

Check the power supply voltage available in the country or region of stay and use the FOMA international AC adapter 01 (separately provided).

- The AC adapter that comes with the handset is for domestic use only (100 VAC). An AC adapter suited to the voltage available in the place of stay is required.
- Notes on use of AC adapter → P24
- Charging the battery → P54

■Network services

Network services may not be set/checked depending on the overseas network operator used. Some network services can be set/checked only in Japan. Whether network service operations can be performed or not is as described below:

Name of service	Setting operation
Voicemail Service	Can be set.*
Call Waiting Service	Can be set.
Call Forwarding Service	Can be set.*
Nuisance Call Blocking Service	Can be set.*
Dual Network Service	Cannot be set.
Caller ID Display Request Service	Caller IDs may not be sent correctly.*
English Announcement	Can be set.*
Caller ID Notification	Can be set.*
Drive Mode	Can be set but no voice guidance available.
English Announcement	Can be set.*
Roaming (roaming guidance)	Can be set.*
Roaming (incoming call barring when roaming)	Can be set.

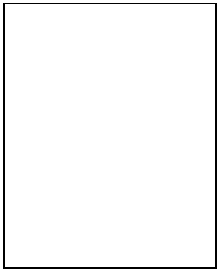
*: May not be set in some service areas.

- For details, see "Network Service Operation Guide".
- To perform voicemail or call forwarding operation from overseas, remote operation must be enabled in Japan in advance. → P516
- Services that can be set may not be available depending on the network operator used or the region.

Viewing Information from Place of Stay

Display view

An available network is automatically found and set, and available services such as voice or video call can be checked with icons that indicate the status of the network.



Display	Description
$$ (Orange)	Voice data can be exchanged through roaming.
$$ (Orange)	Voice data and still images can be exchanged through roaming.
$$ (Orange)	Voice data and images can be exchanged through roaming.

NOTE

- The indications are in green when the handset is in FOMA network service area.
- The indications are in gray when the handset is outside of the area covered by the network.
- The network can be manually selected for use. → P515

Inquiries

For inquiries about lost or stolen handsets, settlement of total charges or failure of handsets outside Japan, contact DoCoMo at the numbers shown in "For Inquires about Lost or Stolen Handsets or Settlement of Total Charges" or "About Failure" on the back cover of the manual.

- The contact numbers must be prefixed with the code as shown in "International Phone Code for Universal Number (Table 1)" or "International Access Code (Table 2)" assigned to the place of stay. → P510

The codes to prefix the contact numbers are as shown in the tables below: "International Phone Code for Universal Number (Table 1)" and "International Access Code (Table 2)."

International Phone Code for Universal Number (Table 1)

Area		International phone code	Area		International phone code
A	Argentina	00	L	Luxemburg	00
	Australia	0011	M	Malaysia	00
	Austria	00	N	New Zealand	00
B	Belgium	00		Norway	00
	Brazil	0021	P	Philippines	00
C	Canada	011	S	Singapore	001
	China	00		South Korea	001
	Columbia	009		Spain	00
D	Denmark	00		Sweden	00
F	France	00		Switzerland	00
G	Germany	00	T	Taiwan	00
H	Hong Kong	001		Thailand	001

Area		International phone code	Area		International phone code
I	Ireland	00	U	U.K.	00
	Israel	014		U.S.A.	011
	Italy	00			

Major International Access Codes (Table 2)

Area		International phone code	Area		International phone code
A	Australia	0011	M	Monaco	00
B	Belgium	00	N	Netherlands	00
	Brazil	00		New Zealand	00
C	Canada	011		Norway	00
	China	00	P	Philippines	00
	Czech	00		Poland	00
D	Denmark	00		Portugal	00
F	Finland	00/990	R	Russia	810
	France	00	S	Singapore	001
G	Germany	00		South Korea	001
	Greece	00		Spain	00
H	Hong Kong	001		Sweden	00
	Hungary	00		Switzerland	00
I	India	00	T	Taiwan	002
	Indonesia	001		Thailand	001
	Ireland	00		Turkey	00
	Italy	00	U	U.A.E.	00
L	Luxemburg	00		U.K.	00
M	Macao	00		U.S.A.	011
	Malaysia	00	V	Vietnam	00

After Coming Back to Japan

After you come back to Japan, your handset will automatically select to use the FOMA network. If your handset is set to use manual network selection, you must manually reset the handset to use the FOMA network.

- The network can be manually selected for use. → P515

NOTE

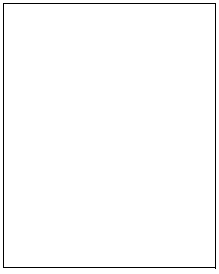
- For overseas use, refer to "International Service Roaming Guide (XXX)" and "Network Service Operation Guide" together with this manual.
- The Quick Reference Manual useful for referring to operations is provided on P000, which provides a convenient reference for overseas use of your FOMA handset.
- Charges for overseas use will be added to the bill for monthly services. Be informed that the billing may be delayed about one month for reasons of overseas network operators.

- If you have any problem about overseas use of your FOMA handset, see "Troubleshooting (for Overseas Use)". → P53

Making Calls

Phone calls from overseas to Japan or to other countries are international calls to Japan, etc. To make a call, prefix the phone number with "+" and the country code of the destination and enter the other party's phone number. When entering the phone number, remove "0" at the beginning of the area code.

1 Tap $$ in the Application Selector bar



The following operations can be performed:

[0]~[9], [*], [#] : Use these keys to enter the phone number.
[$$] : Deletes a digit in the phone number from the right. Pointing for 1+ seconds deletes all of the phone number entered.

2 Enter the other party's phone number

The FOMA handset vibrates every time a key on the Enter phone number screen is tapped.

- Point to [0] for 1+ seconds to enter "+".
- Pause ("P"), Wait ("W"), "#" and "*" can be entered. → P73

To call landline phones

+ Country code - Area code with 0 removed - City code - Number

- If the other party is a landline phone in Italy, "0" is required.

To call mobile phones

+ Country code - 90 - XXXX - XXXX
+ Country code - 80 - XXXX - XXXX

To call PHS phones

+ Country code - 70 - XXXX - XXXX

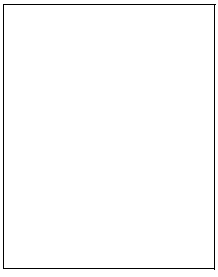
3 Tap [$$]

- Tap [$$] to make a video call. → P86

If you hear a busy signal

The line is busy. Press ⏻ and try again at a later time.

4 Talk on the phone



The call duration is displayed.
The following operations can be performed:

[Mute]/[Unmute]
: Tap this to switch between the mute and unmute settings. When the mute setting is active, the other party cannot hear your voice but you can hear the other party's voice.

[$$]/[$$] : Tap this to set/release the touch screen lock. When the lock is active, all tapping operations other than $$ are disabled.

[Hold]/[Resume]
: Tap this to place a call on/off hold. The mute/unmute setting cannot be changed while a call is on hold.

: Press to enable/disable the speakerphone function.

5 Press when you have finished your call

The line is cleared.

Country code

Country codes are as shown below:

Country		Code	Country		Code
A	Australia	61	M	Malaysia	60
	Austria	43		Monaco	377
B	Belgium	32	N	Netherlands	31
	Brazil	55		New Zealand	64
C	Canada	1		Norway	47
	China	86	P	Philippines	63
	Czech	420		Poland	48
D	Denmark	45		Portugal	351
F	Finland	358		Russia	7
	France	33	S	Singapore	65
G	Germany	49		South Korea	82
	Greece	30		Spain	34
H	Hong Kong	852		Sweden	46
	Hungary	36		Switzerland	41
I	India	91	T	Taiwan	886
	Indonesia	62		Thailand	66
	Ireland	353		Turkey	90
	Italy	39	U	U.A.E.	971
J	Japan	81		U.K.	44
L	Luxemburg	352		U.S.A.	1
M	Macao	853	V	Vietnam	84

Making Calls within Country of Stay

To make a call to a party in the country of stay, enter the other party's phone number and call in the same way as calls within Japan.

- If the other party is also using international roaming, make a call in the same way as calls from overseas, even if the other party is in the same country.

NOTE

- Storing phone numbers including the other parties' country codes, etc. in the contact list will simplify the procedure of making international calls.
- The Enter phone number screen can also be displayed by pressing ▽ in idle state.
- If your call did not get through, tap [$$Retry] on the screen to make another attempt to call the same number.
- The view of the Enter phone number screen fields can be changed. → P139
- The handset can be set not to show the call duration on the screen displayed while talking. → P135
- An audible timer to notify you of the elapsed call time is available. → P128
- The handset can be set not to answer incoming calls during international roaming. → P516
- The handset can be set to play to a party who has attempted to call you during international roaming a message informing the caller that the call is being forwarded overseas → P517
- Caller IDs may not be sent correctly.

- Some overseas network operators may charge you for calls that did not get through due to communication conditions.
- Some overseas network operators may charge you for calls to toll-free numbers.
- When you use international videophone, the image of the other party displayed may be distorted or connection may not be established depending on the other party's handset. For details, visit the DoCoMo website.

Answering Calls

Answer incoming phone calls with your FOMA handset when you are outside Japan.

1 A call arrives

The ring tone sounds and the status LED flashes.

- The vibrator can be enabled instead of the ring tone. → P126

2 Tap [Answer]

The call is answered.

- If a video call arrives, tap [Answer] to answer the call with the camera image enabled. Tap [Privacy] to answer the call with the camera image disabled.
- Tap [Reject] to hang up without answering the incoming call.
- Operations during conversation are the same as described in Step 4 of "Making calls."

3 Press when you have finished your call

The line is cleared.

■To access your FOMA handset overseas from Japan

Entering your phone number in the same way as usual domestic calls allows a caller in Japan to make a call to your handset outside Japan, which you can answer.

Enter "090-XXXX-XXXX" and press the Start key

Or

Enter "080-XXXX-XXXX" and press the Start key

■To access your FOMA handset overseas from countries other than Japan

Regardless of the place of stay, entering your phone number prefixed with "+" and "81" (country code for Japan) and without the "0" at the beginning of the area code allows a caller to make a call to your handset, in the same way as overseas calls to Japan.

Enter "+81-90-XXXX-XXXX" and press the Start key

Or

Enter "+81-80-XXXX-XXXX" and press the Start key

NOTE

- In some countries, you may be charged for calls that arrive during international roaming.
- Calls that arrive while the line is busy can be automatically diverted to the Voicemail Service Center. → P375
- Calls that arrive during international roaming are forwarded from Japan, regardless of the places of origin. The callers are charged for calls to Japan and the receivers for international forwarding.

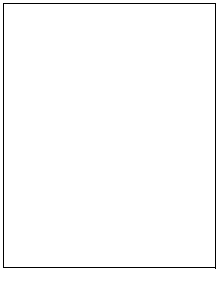
Switching Networks

Default setting	Band: WCDMA	Registration preference: Auto	Search frequency: Medium

To use your FOMA handset overseas, it is necessary to switch to a network available in the place of stay. By default, a network available will be automatically found and set. You can also select a network manually.

- Network switching must take place in a country where you use your FOMA handset.
- Network cannot be switched while Self mode is active.

1 Tap $$ in the Application Selector bar, and tap *Settings* ▶ *Network* on the Menu bar on the Phone number entry screen



Band : Select a frequency band suited for the country of stay.
Registration preference : Set the network automatically or manually.
Search frequency : Set the frequency of searching for a network.
Find new network : Starts a search for a new network.

2 Tap *Band* and select a frequency band

3 Tap *Registration preference*, and tap *Auto/Manual*

- If ***Auto*** has been tapped, the network found will be automatically set.
- If ***Manual*** has been tapped, select from the networks found to set the network.

4 Tap *Search frequency* and select the frequency of search

5 Tap [Find new network]

A network is found. If ***Registration preference*** is set to ***Auto***, the network found will be automatically registered.

■If *Registration preference* is set to *Manual*

The screen as shown below is displayed after a network has been found.
Tap the network to set, and tap [Register].

The selected network will be registered.

6 Tap [Done]

Setting Operations in Roaming

Set operations for handling calls that arrive while you are using international roaming outside Japan.

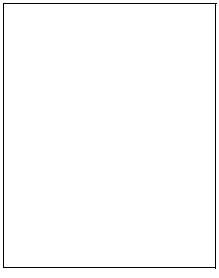
- For details about network services, see "Network Service Operation Guide".

Making available Remote Operation of Network Services during Roaming

Set your handset to allow remote operation of Voicemail and Call Forwarding Services from overseas.

- This operation can be performed only by subscribers of Voicemail or Call Forwarding Service.

1 Tap $$ in the Application Selector bar, and tap *Settings* ▶ *Roaming* in the Menu bar



2 Tap $$ in the *Remote access control* field, and tap [Yes]

Remote access is enabled.

- Tap $$ to disable remote access.

Avoiding Calls Arriving during Roaming

Your handset can be set to restrict incoming calls or data communications during roaming.

1 Tap $$ in the Application Selector bar, and tap *Settings* ▶ *Roaming* in the Menu bar on the Phone number entry screen

2 Tap $$ in the *Incoming call barring when roaming* field, and enter the network security code on the Enter network security code screen

Incoming call barring is set.

- Tap $$ to remove incoming call barring when roaming.

NOTE

- The operation cannot be performed outside the service area or in an area with no radio wave.

Enabling Guidance in Roaming

The handset can be set to play to a party who has attempted to call you during international roaming a message informing the caller that you are in international roaming.

- If the guidance function is not set, a message "Connecting your call. Please hold." is played to the caller.

- Even if you have not enabled the guidance, a message in a foreign language may play depending on the conditions of the overseas network operator. The ringing tone may be different from that in Japan.

1 Tap $$ in the Application Selector bar, and tap *Settings* ▶ *Roaming* on the Menu bar on the Contact entry screen

2 Tap $$ in the *Roaming Guidance* field on the Roaming screen

The guidance function is enabled. To a caller, a message "The receiver is in international roaming. Please hold while your call is being connected." is played.

- Tap $$ to disable the guidance.

NOTE

- The operation cannot be performed outside the service area or in an area with no radio wave.

Appendix

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Menu List

Tap $$ (Application launcher) on Application Selector bar to display.

Application			Description	Reference
$$	Browse		Accesses Internet and a homepage can be viewed.	P193
$$	Calculator		A calculator can be used.	P350
$$	Calendar		Displays a calendar, and schedules can be registered.	P322
$$	Camera		Takes still images/videos.	P169
$$	Contacts		Registration of contacts and searching contacts are performed.	P99
$$	Control panel			
	Handset tab			
		Certificate manager	Displays User certificates/CA certificates.	P220
		Text input	Details of text input are set up.	P467, 480, 484, 486, 490, 499
		Sound	Sound such as Ringers are set.	P126
		Shortcut key	Sets the menu launched by a home/shortcut key.	P345
		Password	Sets a Security code and a Phone Lock.	P147, 154
		Master Clear/Master Reset	Performs Master Clear/Master Reset.	P360
		Manner Mode	Sets the operation of the Manner Mode.	P129
		Memory card	Formats a memory card, or changes its name.	P302
		Memory manager	Displays application memory.	P306, 308, 310
		Screen	Adjusts brightness and tap location of the screen.	P134
		Settings for cars	Sets the operation for connecting FOMA handset to a Carkit.	P75
		Power	Sets the operation of the Power save mode and Status LED.	P136
		Handset information	Displays system information of the FOMA handset.	P350
	Connection tab			
		Bluetooth	Sets the detail of Bluetooth.	P382
		Desktop Suite	Sets the connection type of Desktop Suite.	P529
		Internet account	Sets the necessary settings for connecting to an internet.	P183
		Messaging accounts	Sets messaging accounts.	P227
		Byte Counter	Displays the amount of data transmitted.	P348

Application			Description	Reference
$$	Connection tab			
		Find Wireless LAN Access Point	Searches an access point of a wireless LAN.	P398
	General tab			
		Select Language	Changes the language displayed on the screen.	P142
		International	Sets present country and currency unit.	P140
		Ringtune Manager	Installation of ringtones and Vibrator Setting is performed.	P124, 127
		Time & date	Sets the date, time and display format.	P59
$$	Desktop Suite		Synchronizes PC and data.	P530
$$	Home		Displays the Home screen.	P57
$$	Message		Sends and receives messages.	P234
$$	Music		Plays music.	P285
$$	Notes		Registers texts and Free draw notes.	P351
$$	Handset		Displays a phone number entry screen.	P66
$$	Picsel Viewer		Displays various files.	P289
$$	Pictures		Manages pictures such as still pictures taken.	P274
$$	SyncML		Synchronizes data with a specific server with wireless.	P530
$$	Time		Sets a display of time and alarm.	P319, 358
$$	To Do		Registers what needs to be done.	P336
$$	Video		Manages videos taken.	P280
$$	Voice		Records a speech with the voice recorder.	P313
$$	movianVPN		Connects with such as intranet, by utilizing VPN.	P400
$$	Virus scan		Checks for a virus in FOMA handset or Trans Flash memory card.	P540

List of Symbols and Special Characters

- Entering symbols and special characters →P473

Double-byte	、 。 , . ・ : ; ? ! ゛ ゜ ´ ` ¨ ^ ￣ _ ヽ ヾ ゝ ゞ 〃 仝 々 〆 〇 ― ‐ - ／ ＼ ～ ∥ ｜ … ‥ ‘ ’ “ ” （ ） 〔 〕 ［ ］ ｛ ｝ 〈 〉 《 》 「 」 『 』 【 】 ＋ － ± × ÷ ＝ ≠ ＜ ＞ ≦ ≧ ∞ ∴ ♂ ♀ ° ′ ″ ℃ ￥ $ ¢ £ % # & * @ § ☆ ★ ○ ● ◎ ◇ ◆ □ ■ △ ▲ ▽ ▼ ※ 〒 → ← ↑ ↓ 〓 ∈ ∋ ⊆ ⊇ ⊂ ⊃ ∪ ∩ ∧ ∨ ¬ ⇒ ⇔ ∀ ∃ ∠ ⊥ ⌒ ∂ ∇ ≡ ≒ ≪ ≫ √ ∽ ∝ ∵ ∫ ∬ Å ‰ # ♭ ♪ † ‡ ¶ ○
Single-byte	! " # $ % & ' ( ) * + , - . / : ; < = > ? @ [ ] ¥ ^ _ ‘ { } | ~

Porticular	わ ゐ ゑ ヲ ㌔ ㌢ ヴ ヵ ヶ A B Γ Δ E Z H Θ I K Λ M N Ξ O Π P Σ T ϒ Φ X Ψ Ω α β γ δ ε ζ η θ ι κ λ μ ν ξ ο π ρ σ τ υ φ χ ψ ω А Б В Г Д Е Ё Ж З И Й К Л М Н О П Р С Т У Ф Х Ц Ч Ш Щ Ъ Ы Ь Э Ю Я а б в г д е ё ж з и й к л м н о п р с т у ф х ц ч ш щ ъ ы ь э ю я ㅡ ㅣ ㄱ ㄱ ㄱ ㄴ ㅏ ㅜ ㅓ ㅗ ㅋ ㅡ ㅣ ㄱ ㄱ ㄴ ㄴ ㅏ ㅜ ㅓ ㅗ ㅋ ㅡ ㅣ ㅏ ㅜ ㅓ ㅗ ㅋ ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ Ⅰ Ⅱ Ⅲ Ⅳ Ⅴ Ⅵ Ⅶ Ⅷ Ⅸ Ⅹ ミリ キロ センチ メートル グラム トン アール ヘクタール リットル ワット カロリー ドル セント ミリバール ㍉ ㎜ ㎝ ㎞ ㎎ ㎏ ㏄ ㎡ 平成 〃 〃 ∵ №. K.K. TEL (上) (中) (下) (左) (右) (株) (有) (代) 明治 大正 昭和 ≒ ≡ ∫ ∮ Σ √ ⊥ ∠ ∟ ⊿ ∵ ∩ ∪

List of Fixed Phrases

• Entering fixed phrases → P472

Category	Fixed phrases	
Greeting	おはようございます	こんにちは
	こんばんは	おやすみなさい
	ありがとうございます	すいません
	よろしくお願いします	お疲れ様です
	ご無沙汰しております	おめでとう
Reply	OK	NG
	賛成	反対
	了解です	問題ありません
	今やっています	すぐ行きます
	もう少し待ってください	いつでも大丈夫です
Business	電話ください。	至急、返事ください。
	遅れます。	これから帰社します。
	会議中です。	出張中です。
	直行します。	直帰します。
	お世話になっております。	後程ご連絡致します。
Private	TELして	遊びに行こうよ
	飲みに行かない？	今日、ヒマ？
	今どこ？	今何してるの？
	もうすぐ着くよ	じゃあ、後で！
	今日はダメです	いいよ！
English	Thank you	Call me back!
	I'm late.	Where are you now?
	I'll be back soon.	Let's meet at
	It sounds great!	Congratulations!
	Good luck!	I love you.

Category	Fixed phrases		
Internet	@docomo.ne.jp	.co.jp	.ne.jp
	.or.jp	.ac.jp	.com
	http://	https://	ftp://
	www.	.org	.net
	.jp	.html	

List of Roman Character Entries

Hiragana/Kanji entry is performed by Roman character input, when the input method is set to Qwerty Keyboard and input mode is set to kanji mode. →P471

Line	Entering character					Keys to tap				
あline	あ	い	う	え	お	a	i yi	u wu	e	o
	ぁ	ぃ	ぅ	ぇ	ぉ	la xa	li xi lyi xyi	lu xu	le xe lye xye	lo xo
	うぁ	うぃ		うぇ	うぉ	wha	whi wi		whe we	who
				いぇ					ye	
かline	か	き	く	け	こ	ka ca	ki	ku cu qu	ke	ko co
	が	ぎ	ぐ	げ	ご	ga	gi	gu	ge	go
	きゃ	きぃ	きゅ	きぇ	きょ	kya	kyi	kyu	kye	kyo
	ぎゃ	ぎぃ	ぎゅ	ぎぇ	ぎょ	gya	gyi	gyu	gye	gyo
	くぁ	くぃ	くぅ	くぇ	くぉ	qwa qa kwa	qwi qi qyi	qwu	qwe qe qye	qwo qo
	くゃ		くゅ		くょ	qya		qyu		qyo
	ぐぁ	ぐぃ	ぐぅ	ぐぇ	ぐぉ	gwa	gwi	gwu	gwe	gwo
さline	さ	し	す	せ	そ	sa	si ci shi	su	se ce	so
	ざ	じ	ず	ぜ	ぞ	za	zi ji	zu	ze	zo
	しゃ	しぃ	しゅ	しぇ	しょ	sya sha	syi	syu shu	sye she	syo sho
	じゃ	じぃ	じゅ	じぇ	じょ	zya ja jya	zyi jyi	zyu ju jyu	zye je jye	zyo jo jyo
	すぁ	すぃ	すぅ	すぇ	すぉ	swa	swi	swu	swe	swo

Line	Entering character					Keys to tap				
たline	た	ち	つ	て	と	ta	ti chi	tu thu	te	to
	ちゃ	ちぃ	ちゅ	ちぇ	ちょ	tya cha cya	tyi cyi	tyu chu cyu	tye che cye	tyo cho cyo
	つぁ	つぃ		つぇ	つぉ	tsa	tsi		tse	tso
	てゃ	てぃ	てゅ	てぇ	てょ	tha	thi	thu	the	tho
	とぁ	とぃ	とぅ	とぇ	とぉ	twa	twi	twu	twe	two
	だ	ぢ	づ	で	ど	da	di	du	de	do
	ぢゃ	ぢぃ	ぢゅ	ぢぇ	ぢょ	dya	dyi	dyu	dye	dyo
	でゃ	でぃ	でゅ	でぇ	でょ	dha	dhi	dhu	dhe	dho
	どぁ	どぃ	どぅ	どぇ	どぉ	dwa	dwi	dwu	dwe	dwo
			っ					itu xtu		
なline	な	に	ぬ	ね	の	na	ni	nu	ne	no
	にゃ	にぃ	にゅ	にぇ	にょ	nya	nyi	nyu	nye	nyo
はline	は	ひ	ふ	へ	ほ	ha	hi	hu fu	he	ho
	ひゃ	ひぃ	ひゅ	ひぇ	ひょ	hya	hyi	hyu	hye	hyo
	ふぁ	ふぃ	ふぅ	ふぇ	ふぉ	fwa fa	fwi fi fyi	fwu	fwe fe fye	fwo fo
	ふゃ		ふゅ		ふょ	fya		fyu		fyo
	ば	び	ぶ	べ	ぼ	ba	bi	bu	be	bo
	びゃ	びぃ	びゅ	びぇ	びょ	bya	byi	byu	bye	byo
	ヴぁ	ヴぃ	ヴ	ヴぇ	ヴぉ	va	vi	vu	ve	vo
	ヴゃ	ヴぃ	ヴゅ	ヴぇ	ヴょ	vya	vyi	vyu	vye	vyo
	ぱ	ぴ	ぷ	ぺ	ぽ	pa	pi	pu	pe	po
	ぴゃ	ぴぃ	ぴゅ	ぴぇ	ぴょ	pya	pyi	pyu	pye	pyo
まline	ま	み	む	め	も	ma	mi	mu	me	mo
	みゃ	みぃ	みゅ	みぇ	みょ	mya	myi	myu	mye	myo
やline	や		ゆ		よ	ya		yu		yo
	ゃ		ゅ		ょ	lya xya		lyu xyu		lyo xyo
らline	ら	り	る	れ	ろ	ra	ri	ru	re	ro
	りゃ	りぃ	りゅ	りぇ	りょ	rya	ryi	ryu	rye	ryo
わline	わ		を		ん	wa		wo		n nn n' xn
	ゎ					iwa xwa				

Combination of Functions during Multiaccess

The available combination of operations for Multiaccess is as shown below:

Operation to be used / Current status	Making/ receiving a voice call	Making/ receiving a video call	Connecting to Internet	Sending/ receiving a message	Sending/ receiving SMS
While on a voice call	○	×	①	②	○
While on a video call	×	×	①	②	○
While connected to Internet	③	③	-	○	○

○ : Available
× : Not available.
– : The combination is functionally not possible.
① : Internet connection not available via CSD in overseas.
② : Not available to send/receive messages via CSD in overseas.
③ : A call cannot be made or received during an internet connection via CSD in overseas.

Services Available for FOMA Handset

Available service		Phone number
Collect call (reversed charge calls)		106 (no area code)
Directory assistance for general subscriber phones and DoCoMo's mobile phones (charges apply). (Unlisted phone numbers cannot be given.)		104 (no area code)
Telegrams (charges apply)	8 a.m. - 10 p.m.	115 (no area code)
Time (charges apply)		117 (no area code)
Weather report (charges apply)		Area code + 177
Police emergencies		110 (no area code)
Fire and ambulance		119 (no area code)
Marine emergencies and accident reports		118 (no area code)
Message Dial for a disaster (charges apply)		171 (no area code)

NOTE

- If you use the collect call service (106), the call charge is billed to the receiver together with a commission of 90 yen (94.5 yen with tax included) per call. (as of XX 2004)
- If you use the directory assistance service (104), a service charge of 100 yen (105 yen with tax included) is billed together with the call charge. Note that this service is available without charge for those visually impaired or physically disabled in the upper body. For further information, inquire at 116 (NTT sales center) from a general subscriber phone. (as of XX 2004)

- Note that calls to 110, 119 or 118 from the FOMA handset cannot be located. Since the police or fire department authorities may call you to confirm, inform them that you are calling from a mobile phone, give your number and detailed information of your whereabouts. To make sure that you are not cut off during the call, stay in one place when you make the call and do not turn off the phone after the call, but keep it on for about 10 minutes so that a call can be received.
- Depending on the area you are calling from you may not be connected to the local police or fire department. Use a public payphone or general subscriber phone if you cannot get in touch with the local authorities.
- Customers who use "Call Forwarding" and "Voice Warp" from a general subscriber phone whose forwarding destination is a mobile or carphone (mobile phone), may still hear the ring tone even when the mobile phone is busy, is outside the service area or is turned OFF due to the setting of the general subscriber/mobile phone.
- You may not be able to call 116 (NTT sales center), Dial Q2, Message Dial and make credit card calls. (Credit card calls can be made from a general subscriber or a public phone to a FOMA handset.)

Options and Related Devices

Combining the FOMA handset with optional devices supports a wide variety uses from personal use to business use. Some products are unavailable depending on the region. For details, contact our sales office. For details about the optional devices, refer to the instruction manual for each device.

- AC adapter MXX
- Battery pack MXX
- Carrying case MXX
- USB cable MXX
- International FOMA AC adapter 01
- Flat type stereo earphone set P01
- Stereo earphone set P001*
- Desktop holder MXX
- Rear cover MXX
- Stylus MXX
- FOMA USB cable
- Earphone/microphone with flat switch P01/P02
- Earphone/microphone with switch P001/P002*

*: Earphone jack converter adapter P001 is needed.

Desktop Suite and SyncML

FOMA handset has two types of software in order to synchronize data.

Desktop suite

A FOMA handset connected to a personal computer with USB, or via Bluetooth, can transmit and synchronize data such as Contacts, Calendar, To do list, and messages.
With Desktop suite, installation and transmission of applications and files to a FOMA handset can be performed in addition to transmission and synchronization of data.

SyncML

A FOMA handset connected to a personal computer via a wireless LAN, can transmit and synchronize data such as Contacts, Calendar, and To do list.

Please see the following homepage or the help of Desktop suite/SyncML about details on such as download method, data which can be transmitted/synchronized, a hardware requirement, the operation method, and restrictions.
<XXXXXMaker site name> http://www.XXXXXX

Hardware Requirements

Please use in the operational environments shown below.

Item	Required environment
OS	Windows XP, Windows 2000, Windows Me, Windows 98SE
CPU	A processor with XX or higher performance is recommended.
Required memory*	XXMB or higher
Free hard disk space*	XXMB or higher
Display	High Color (16bit) or higher is recommended.

*: Required memory and hard disk space may vary depending on system environments.

Before Using

<Qualification>
Please see the above homepage or the help of Desktop suite/SyncML about details on such as download method, data which can be transmitted/synchronized, a hardware requirement, the operation method, and restrictions.
For inquiries on Desktop suite and SyncML
XXXXSupport Center 0120-XXX-XXX
Office hours: Week days from XX:XX to XX:XX a.m. and XX:XX to XX:XX p.m.
(Saturdays, Sundays, public holidays, and predetermined holidays are excluded)

Using Desktop Suite

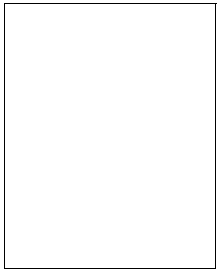
By using Desktop Suite, following operations can be performed between a personal computer linked to a FOMA handset.

Installing Desktop Suite PC

1 Set the attached CD-ROM to a personal computer

2 Click in the order of [スタート] (Start) menu ▶ “ファイル名を指定して実行” (Execute by specifying a file name)

3 Specify "The drive name of CD-ROM: \XXX\setup.exe" and click [OK]



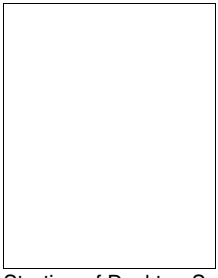
- From here on, please follow the instructions displayed on the screen.

Starting Desktop Suite PC

Please connect a FOMA handset and a personal computer beforehand, after they are powered on. → P416

1 Select in the order of [スタート] (Start) menu ▶ “すべてのプログラム” (All Programs) ([Programs] for OS other than WindowsXP)

▶ "Motorola Desktop Suite", and click on "Motorola Desktop Suite"



Starting of Desktop Suite PC will display the above screen.

■About detailed operation method of Desktop Suite PC

Please refer to the help file. The display method is as follows:

Select in the order of [スタート] (Start) menu ▶ “すべてのプログラム” (All Programs) ([Programs] for OS other than WindowsXP) ▶ "Motorola Desktop Suite", and click on "Motorola Desktop Help"

Uninstalling Desktop Suite PC

Uninstalls Desktop Suite PC

- Before uninstalling, please end Desktop Suite PC.
- The display on the screen differs when an OS other than Windows XP is used.

< Example: When uninstalling form Windows XP >

1 Click on the icons in the order of [スタート] (Start) menu ▶ “コントロールパネル” (Control Panel) ▶ “プログラムの追加と削除” (Add or Remove Programs)

The “プログラムの追加と削除” (Add or Remove Programs) screen is displayed.

■For Windows 2000 Professional, Me

Click on [スタート] (Start) menu, and select in the order of [設定] (Setting) ▶ “コントロールパネル” (Control Panel) and double click on “アプリケーションの追加と削除” (Add or Remove Programs)

“アプリケーションの追加と削除” (Add or Remove Programs) screen (for Windows Me, “アプリケーションの追加と削除のプロパティ ” (Property of Add or Remove Programs)) is displayed.

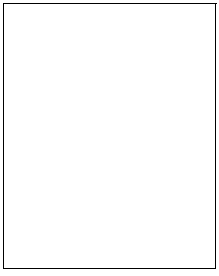
2 Select "Motorola Desktop Suite" and click on “変更と削除” (Change or Delete)

- From here on, please follow the instructions displayed on the screen.

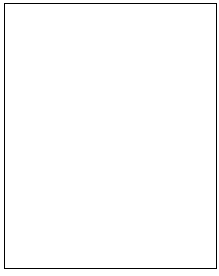
Setting the Connection Method of Desktop Suite

The method for connecting to Desktop Suite (USB cable connection/Bluetooth communication) is set.

1 **Tap $$ ▶ $$ in the Application Selector bar, tap *Connect* tab from Control Panel screen ▶ tap *Desktop Suite***



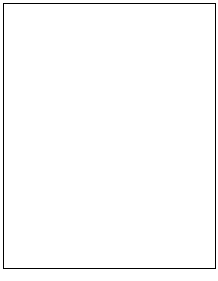
When the connection method is USB



When the connection method is Bluetooth

■**Changing the precedence of apparatus when connection method is set to Bluetooth**

Tap [Change]



Display : Tap and select when displaying the Bluetooth apparatus by types.

Device list : The apparatus by which Bluetooth connection was made (above the line), and the apparatus being searched (below the line) are displayed.

- Tap [Update] to start a search for apparatus available for Bluetooth connection starts.→P383

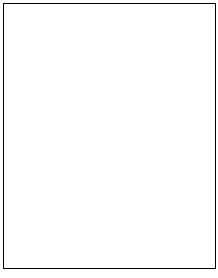
2 **Tap *Connection Drop Box*, set connection method ▶ tap [Done]**

Operating Desktop Suite

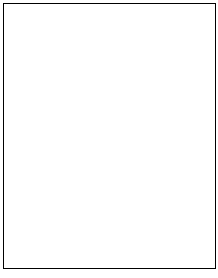
Desktop Suite is operated and data is transmitted. The connection starts with the method set at "Setting the connection method of Desktop Suite" (→ P529)

- When connecting via USB, this operation is performed after connecting a personal computer with a FOMA handset with an USB cable beforehand. → P414
- When connecting via Bluetooth, it is recommended to register the connecting Bluetooth apparatus beforehand. → P382

1 Tap $$ ▶ $$ in the Application Selector bar



When connecting via USB



When connecting via Bluetooth

2 Tap [Connect]

■When disconnecting

Tap [Disconnect]

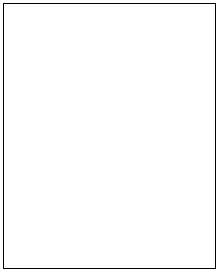
Synchronizing a Personal Computer with a Data by Using SyncML

Setting up SyncML

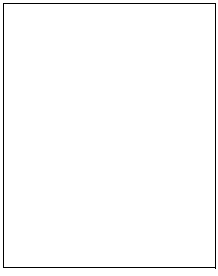
Performs a server setup in order to use SyncML.

- Information necessary for the setting will be supplied by the provider of SyncML.

1 Tap $$ ▶ $$ at the Application Selector bar



2 Tap in the order from *Edit* ▶ *Settings* in the Menu bar



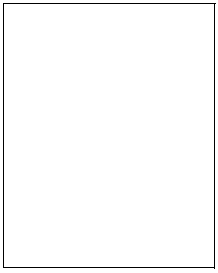
Server address : Enter a server address.
Username : Enter a username.
Password : Enter a password.

3 Tap a column to set up, and enter information

■When performing a setting for a transport login

- Please perform this when needed. Information necessary for the setting will be supplied by the provider of SyncML.

① Tap *Protocol* tab



Transport protocol
: Transport protocol is displayed.

Use transport login
: Sets enable/disable of transport login.

Username : The user name for transport login is entered. This can be entered only when transport login is enabled.

Password : The password for transport login is entered. This can be entered only when transport login is enabled.

② Tap $$ at *Use transport login* column

- Tap $$ to disable Transport Login.

③ Tap the *Username* column, and enter a user name

④ Tap the *Password* column, and enter a password

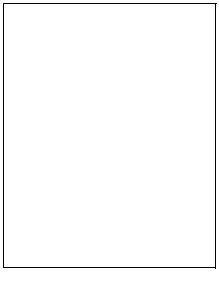
4 Tap [Done]

The server is set.

Setting the Task to Synchronize

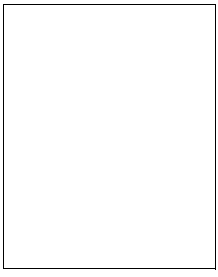
Sets the task to synchronize by SyncML.

1 Tap $$ ▶ $$ in the Application Selector bar



The task to synchronize is displayed.

2 Tap a task to set



Enable task : Sets enable/disable of the task.
Task name : The task name acquired beforehand is displayed.
Server database : The path to the server database acquired beforehand is displayed.

3 Tap $$ of *Enable task*

- Tap $$ to disable the task.

4 Tap *Task name* column, and enter a task name

- Make a change as needed.

5 Tap *Server database* column and enter a path

- Make a change as needed.

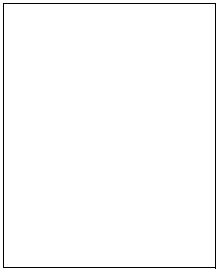
6 Tap [Done]

The task is set.
- Tap [Cancel] to cancel the task setting.

Synchronizing Data

Connects to the SyncML server, and synchronizes the data.

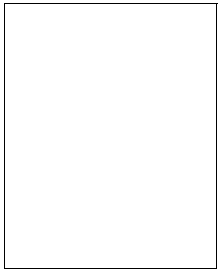
1 Tap $$ ▶ $$ in the Application Selector bar



The task to synchronize is displayed.

The tasks with synchronization disabled are displayed → P532

2 Tap [Sync]



The progress of synchronization is displayed.
Condition of the task is displayed.

- Tap [Stop] to cancel the performing synchronization.
- Tap ***SyncML*** → ***Disconnect*** on the Menu bar to disconnect the communication.

3 Synchronization

Troubleshooting

Symptom	Check
FOMA handset cannot be turned ON (the handset cannot be used).	• Is the battery connected properly? → P52 • Is the battery depleted? → P55 • When the mova handset is ON in a dual network service, the FOMA service is not available. Check whether or not FOMA handset is ON. Please see "Network Service Operation Guide" for further information. → P373
A message "UIM selection failed" is displayed when the FOMA handset is powered on.	• The UIM may not be properly attached or may be damaged. Check to see if the UIM is properly attached. → P49
Screen does not change when a key is pressed or the touch screen is tapped while the display is turned off.	• Is All lock set? → P153
The display gets dark, and indication disappeared.	• Is the handset in power saving mode? → P42
"Battery Status: Very Low Recharge Battery" is displayed, and alarm is heard.	• The battery is almost discharged. Charge the battery. → P54
Calls cannot be made by entering a phone number.	• Is Self-mode set? → P155
After dialling a number, you hear a busy tone and cannot establish your call.	• Have you dialed the area code? → P66 • Did you hear the dial tone before dialling? → P66 • Is "No service" indicated? → P41
Mail reception is announced by other than the set ring tone.	• Is the mail from the partner whom you registered the ringer tone in the phonebook? → P104
The image/melody set in each function does not display/play, and operates in default setting.	• Is the same UIM as the one acquired the picture or the melody attached? → P50

The icon indicating the network state shows the handset is out of network coverage, and you cannot use the global roaming service.	• You are outside the service area of global roaming service, or in an area with poor signal strength. • Please check with "Network Service Operation Guide" or the homepage of WORLD WING to see whether the service area or the operator is the one you can use. • Please switch to a corresponding network. → P515
Neither a Video Call, a short message service (SMS), nor a packet communication can be used.	• Please check with "Network Service Operation Guide" or the homepage of WORLD WING to see whether the service area or the operator is the one you can use. • Please switch to a corresponding network. → P515
Cannot receive either a voice call or a video call.	• Is Incoming call barring when roaming set? → P516
After returning from overseas, the icon indicating the network state remains displaying no service.	• Is the network set for GSM/GPRS system? → P515

Error Message List

Displayed Messaget	Description	Reference
This software cannot be installed as the installation file is corrupt	The application was not able to install, since the file is corrupt.	P362
Application was not able to install since there is insufficient memory in the handset. Please delete an unnecessary file and try again	There is insufficient memory for the specified installation. Delete some files and restart the installation.	P363
Cannot find specified memory card. Check if the memory card is properly inserted	Application was not able to uninstall due to an error.	P363
The download was aborted due to an error	Was not able to download due to an error.	P211
Delete or move internal files to the memory card	A photograph cannot be taken since the memory in the FOMA handset is full. Please either move to the external memory, or delete unnecessary picture/video.	P307, 308
Move or delete some files	A photograph cannot be taken since the memory in the FOMA handset is full. Please either move to the external memory, or delete unnecessary picture/video.	P307, 308
Captured file could not be stored	The picture/video taken was not able to save due to an error.	P169, 170
Folder changed to default external folder	The specified folder was not correct, so the default external folder is opened.	P303
Camera could not be accessed. The application will close	The camera application is closed due to an error.	P169

Displayed Messaget	Description	Reference
Not all contacts were deleted successfully	Certain contacts were not able to delete.	P113
Not all contacts were copied successfully	Certain contacts were not able to copy.	P115
Not all contacts were moved successfully	Certain contacts were not able to move.	P115
Contact can't be saved. Please enter name.	This message displays when you attempt to save a contact without entering a name. Please try saving again after entering a name.	P99
Illegal characters. Contact was updated.	When you attempt to save a contact that includes characters that cannot be saved to UIM, the data will be changed and then saved.	P105
USB cable not connected.	Since the USB cable is not connected to the FOMA handset, it cannot connect to a PC.	P414
Failed to connect to PC via USB. Check the settings on the PC.	FOMA handset cannot be connected to a PC via USB.	P417
Do you want to enable Bluetooth?	This message is displayed when attempting to connect FOMA handset with a PC using Bluetooth, and an available device is not set. Please tap [Yes], and set the available device.	P382
Your preferred device cannot be found. Make sure it is turned on and in-range. Alternatively change your preferred device.	This message is displayed when attempting to connect FOMA handset with a PC using Bluetooth, and an available device is not set. Please tap [Update], and you can select another device from the list of available devices.	P382
Check Failed	The check on a short message (SMS) failed.	P263
A handset is trying to connect in order to transfer an entry.	Other handset is trying to connect to the FOMA handset in order to transmit data. Tap [Accept] to receive the data with Bluetooth.	P385
The file name already exists	This message is displayed when you attempt to change a file name to the one already exist. Please use other file name.	P304
Enter a name for the track	This message displays when you attempt to change a music file name without entering anything. Please enter a file name.	P304
This application's file is damaged and has been deleted	The dameaged data in notes is deleted.	-
TV Phone is not available	You are not in an area where a Video Call can be used. You can make a voice call by tapping [Voice].	P89
Failed to connect	Video call cannot be made due to an error. You can make a voice call by tapping [$$Voice].	P89
Video call cannot be dialed in an active audio call	This message displays when attempting to make a video call during a voice call. You can make a voice call by tapping [$$Voice].	P89
Failed	A setup of network service failed due to an error.	-
Failure Network failure	Failed a network search for setting up a network, due to an error.	-

Displayed Messaget	Description	Reference
Failure Other Phone is Busy	The other phone is busy when switching Dual Network.	P373
Failure Invalid Network Password	The password for the network is incorrect.	P146
Network password incorrect	The password for the network is incorrect.	P146
Not Subscribed	The network service is not subscribed.	-
Failure Network already exists	The network attempted to be registered already exists in the preferred list.	-
List full Please delete an entry first	The preferred list is full.	-
Failure Emergency only	Either network cannot be found, or manual network selection is cancelled.	-
Failure No Service	The network cannot be used,	-
Incorrect password	PIN is not correct.	P147
Incorrect password PIN will be blocked if next attempt fails	Reentered PIN is not correct.	P147
PIN is blocked	PIN is locked.	P151
None of UIMs is selected	UIM is not selected.	-
UIM selection failed	An error occurred with the UIM.	-
Unknown document file type	It is a file not supported.	P289
The document is faulty, and could not be converted	An error occurred with the file.	P289
Image could not be loaded	Image could not be loaded due to an error.	-
Image is too large to operate	The image is too large to display or edit.	P275
Image could not be moved	Image could not be moved due to an error.	-
Image could not be renamed	Image could not be renamed due to an error.	-
Image could not be deleted	Image could not be deleted due to an error.	-
Unable to play clip.	Unable to play clip due to an error.	-
Enter a name for the clip.	This message displays when you attempt to change a clip file name without entering anything. Please enter a file name.	P304
Unable to update pattern definitions.	Failed to update pattern definitions of virus scan due to an error.	-
Cannot use pattern scanner.	Initialization of virus scan failed due to an error	-
The total data amount exceeds the specified threshold.	The total packet data sent and received exceeded the specified threshold.	P349
A certificate must be selected.	A certificate needs to be selected.	P220
Client certificates are not available. Network authentication cannot be configured.	Either a certificate does not exist, or the certificate has expired, so it cannot be used.	P220

Displayed Messaget	Description	Reference
A problem occurred during the automatic settings update	Downloading quickstart failed due to an error.	-
Failure Device settings not reset	Master Reset failed due to an error.	-
Failure User data not cleared Device settings not reset	Master Clear failed due to an error.	-
Bad name	It is a name that cannot be registered in TransFlash memory card.	P302
Switch off light must be less than or equal to the time to Power down screen It will be adjusted accordingly	The time for Power down screen in power saving mode cannot be set up shorter than the time for switch off light. Please reset the time again.	P136
Battery Status: Very Low Recharge Battery	Low battery. Please charge.	P54
You cannot delete the …… folder because it still has items in it.	The folder could not be deleted since it has data in it.	P303
Your handset is low on memory. Do you want to create some space now?	The memory capacity of FOMA handset is insufficient. Tap [Yes] to display the screen for deleting unnecessary files, or the memory manager.	P311
Disk is full	The memory is full. Delete unnecessary files.	P311
This file is damaged and can't be used.	The file is damaged, so it cannot be used.	-
This application's file is damaged and has been deleted.	The file is damaged, so it has been deleted.	-
Failed to read the user dictionary. Are you sure you want to initialize?	Failed to read the user dictionary. Tap [OK] to initialize and activate.	P484
Failed to read the learning dictionary. Are you sure you want to initialize?	Failed to read the learning dictionary. Tap [OK] to initialize and activate.	P490
Invalid Battery Unable to Charge Battery	An invalid battery pack is used. Please use an appropriate battery pack.	P52
No viewer can be found on your device to open this file.	It is a file type that cannot be supported. Tap [Save] to be saved in FOMA handset.	P250

Warranty and After-sales Service

Warranty

- A written warranty is provided with every FOMA handset; make sure that you receive it. Store the warranty in a safe place when you have read it and checked that it contains the "shop name/date" you purchased it. If it does not contain the necessary information, contact the shop where you bought it. The warranty is valid for a period of one year from the date of purchase.
- This product and all accessories are subject to change, in part or whole, for the sake of improvement without prior notice.

After-sales Service

When Problems Occur

Before requesting service, read the section "Troubleshooting".
If the problem still persists, contact one of the numbers described in "Contacts" at the back cover of this manual.

If the Result of Inquiries Indicates that a Repair is Required

Take your FOMA handset to a service center designated by DoCoMo. Be sure to check the opening hours of the service center. Note that you must present the warranty.

■In the warranty period

- The FOMA handset will be repaired at no charge subject to the conditions of the warranty.
- The warranty must be presented to receive warranty service. The subscriber will be charged for the repair of items not covered in the warranty or repairs of defects resulting from misuse, accident or neglect even during the warranty period.
- The subscriber is charged even during the warranty period for the repair of failures caused by the use of devices or consumable items that are not DoCoMo-specified.

■Repairs may not be possible in the following cases:

- Repair is not possible when corrosion due exposure to moisture, condensation or perspiration is detected in a moisture seal reaction or test, or if any of the internal boards are damaged or deformed. Since these conditions are outside the scope of the warranty, a repair, if at all possible, will be charged.

■After expiration of the warranty

- All repairs that are requested are charged.

■Replacement parts

- Replacement parts (parts required to maintain product function) will be kept in stock for at least 6 years after termination of production. The product can be repaired during this period. Depending on the nature of the required repair, it may still be possible to repair your phone even after this period, so please contact one of the numbers described in "Contacts" at the back cover of this manual.

Notes

- Do not modify the FOMA handset, the UIM or its accessories.

- Fire, injury or damage may result.
- In order to prevent interference of radio waves or network breakdown, the FOMA handset and UIM are manufactured according to technical standards stipulated by law. Do not use FOMA handsets or UIMs that do not meet these standards.
- If the FOMA handset is modified (part replacement, modification, painting, etc.) it will be repaired only after the modified parts have been restored to the condition at the time of purchase. However, repair may be refused depending on the nature of modification.
- Repair of failures or damage caused by modification are charged even during the warranty period.

- Do not remove any inscription stickers attached to the FOMA handset. The inscription stickers certify that the FOMA handset satisfies specific technical standards. Note that if stickers are removed intentionally or are reattached in such a way that confirmation of the sticker's contents is impossible, repair or servicing may be refused because confirmation of whether or not the phone conforms to relevant technical standards cannot be made.
- The ON/OFF function settings and stored data may be cleared (reset) by failure, repair or handling processes. Should this happen, set up the functions again.
- Magnetic components are used in the earpiece and speaker of the FOMA handset. Do not allow cash cards or other devices that are vulnerable to magnetism to come into contact with the phone.
- If the handset becomes wet or moist, turn the power off and remove the battery pack immediately and bring the handset to our repair office as soon as possible. However, repair may not be possible depending on the condition of the handset.

Phonebook, Downloaded Data and IC Card Data

- Maintain a separate record of the data you register in your FOMA handset. DoCoMo will not accept any liability and responsibility whatsoever for changes of information or loss of information.
- Data created, imported or downloaded by the subscriber may be lost or become corrupted when changing the model or repairing mobile phone or carphone. DoCoMo may, at its option, repair a mobile carphone by replacing it. In such an event, it will not be possible, to transfer the data (except some data) to the new handset. DoCoMo will not accept any responsibility.

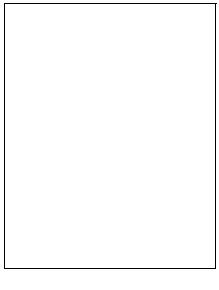
Scan Function

Protecting the Handset from Data that can Cause Damage

By using the Scan Function, FOMA handset can perform a virus scan in FOMA handset or a TransFlash memory card. When it is found infected from a result of a virus scan, the virus can be cleansed immediately.

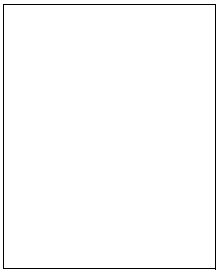
- The scan cannot be performed when another application is in use.

1 Tap $$ ▶ $$ on the Application Selector bar



Last Scan : Displays the date of the last scan.
Last Update : Displays the date of the last update of the pattern file.

2 Tap [$$Start scanning]



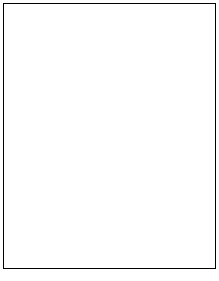
All media : Scans both FOMA handset and TransFlash memory card.

Internal memory : Scans FOMA handset.

Card name : Scans TransFlash memory card.

- When a TransFlash memory card is not attached, the selection screen for the media would not be displayed. It will skip to Step 4.

3 Tap $$ ▶ [OK] of the media you are scanning



- Tap [Cancel] to cancel the start of scanning.

4 Tap [OK]

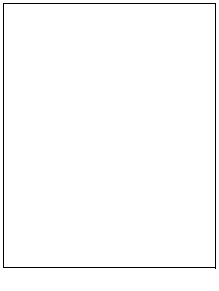
The scan starts, and the result is displayed when the scan completes.

- Tap [Cancel] to cancel the start of scanning.
- Tap [Cancel] to cancel the scan during a scan.

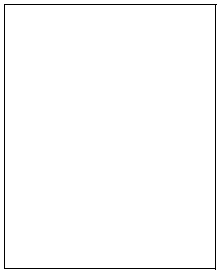
Updating the Virus Pattern File

Virus scan uses the virus pattern file in order to distinguish viruses. By updating the virus pattern file, it would make it possible to scan new viruses.

1 Tap $$ ▶ $$ on the Application Selector bar, and tap [Update] from the virus scan screen

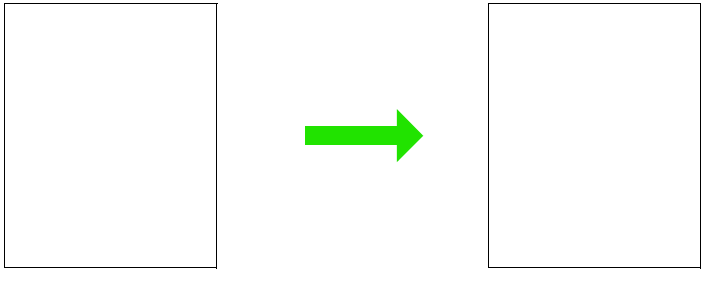


2 Tap [OK]



- Tap [Cancel] to cancel the update.

3 Tap [OK]



The phone ID is transmitted, and the update starts.

- Tap [Cancel] to cancel the transmission of the phone ID.
- Tap [Cancel] ▶ [OK] to cancel the update.

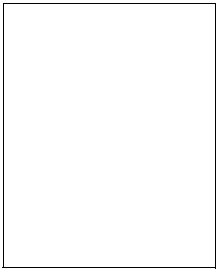
4 Tap [OK]

The update completes.

NOTE

- When the pattern data is updated, SSL communication is performed to the server (the site of our company). Please enable the SSL certificate. →P195
- When the pattern data is updated, the unique information (model, serial number, etc.) of your handset is automatically transmitted to our server (the server that our company manages for the scanning function). We do not use the transmitted information for any purposes other than the scanning function.
- Please set the date (year, month, and day) of your FOMA handset correctly.
- In case an update of a virus pattern file fails, please redo the update from the beginning.
- If the virus pattern file in the handset is the latest one, a message is displayed indicating that the pattern file is the newest.

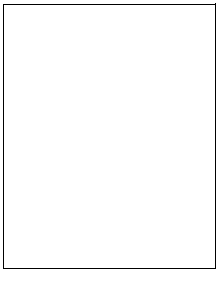
■Functions and data that can be scanned

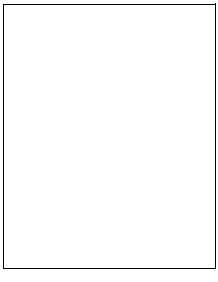


- [Since the specification is not decided yet, detail is omitted.]

■When infected with a virus

If a virus is detected during a scan, the confirmation screen for deleting the virus will be displayed.

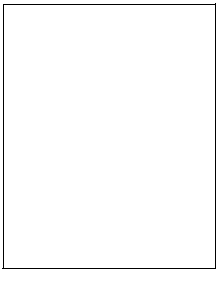




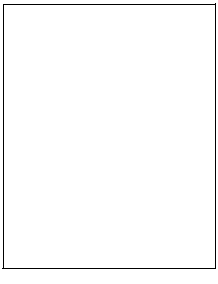
- Tap [Delete] or [OK] to delete the detected virus, and to resume the scan.
- Tap [Skip] to resume the scan without deleting the detected virus.

■When the scan completes

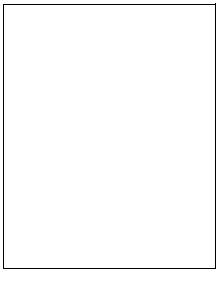
When the scan completes, a screen with the result of the scan is displayed.



No virus

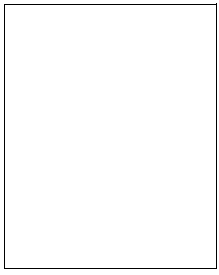


Virus deleted



Virus not deleted

Tap [Details] in the result screen shown at virus detection to display details on the scan.



$$: The virus has been deleted.
$$: The virus has not been deleted.

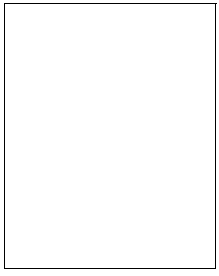
- Select a file name and tap [Details] to notify the infected file, name of the virus, and the status of the virus (deleted/deleted or not) .

The name of infected file

Checking the Version of the Virus Pattern File

The detailed information on virus scan application is displayed, and the version of a virus pattern file can be checked.

1 Tap in the sequence of $$ ▶ $$ on the Application Selector bar, and tap *Virus Scan* on the Menu bar ▶ *About Virus Scan*



Application name and the version of the virus pattern file are displayed.

About Proper Telephone Etiquette

Do not disturb people around you when using your FOMA handset.

Always turn OFF your FOMA handset in the following situations:

■**In a location where use of handsets is prohibited**

There are places where you cannot use a handset. Always turn OFF your FOMA handset when:

• In an airplane • In a hospital

* Be aware that patients use electronic medical equipment in many areas in hospitals. Your FOMA handset must be switched off even in lobbies or waiting rooms.

■**While driving**

Using your FOMA handset while driving could affect safe driving and cause danger.

* Stop your car in a safe place before using your FOMA handset or use Drive Mode.

■**While in a crowded train where there may be a person who uses an implanted cardiac pacemaker or cardioverter defibrillator near you.**

■**Use of the handset could adversely affect the operation of an implanted cardiac pacemaker or cardioverter defibrillator.**

■**While in public places such as a concert hall, movie theater or art museum**

Using your FOMA handset in quiet public places will likely bother other people.

Match the volume of your voice and your FOMA handset's ring tone to your location

■**In a quiet location like a restaurant or hotel lobby, pay attention to the volume of your voice and ring tones, etc. when using your FOMA handset.**

■**In town areas, while using your FOMA handset, be sure not to block foot or vehicular traffic.**

Consider privacy

Give consideration to privacy before shooting or sending images with a mobile phone with a built-in camera.

"Silent" functions designed for public use

Your FOMA handset has a number of useful "silent" functions designed for public use, such as a setting that instructs your handset not to answer incoming calls and the ability to set the handset for silent operation.

●**Manner Mode**

Mutes all sounds your FOMA handset makes, such as keypad sound and ring tones. →P160

●**Drive Mode**

Plays a guidance to notify that you cannot answer the call because you are driving a car, then disconnects the call. This mode ensures your safety while driving because no ring tone sounds when a call is received. →P79

●**Vibrator**

Vibrates when there is an incoming call. →P155

●**Voice message**

Allows the caller to leave a message when you cannot answer the phone. →P81
In addition to the above functions, optional services such as Voice Mail Service and Call Forwarding Service are also available. →P483, P488