CASIO

Active Menu User's Guide

(Version 1.06)

CASIO Computer Co., Ltd.

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Table of the Contents

Editorial Record

Manual Version no.	Date edited	Page	Content
1.00	January 2011	All	Original version
1.01	March 2011	27	In Chapter 3.2.3, Plugin Module Return Values is modified and Sample Plugin Module Table is deleted.
		9	In Chapter 1.5, Figure and description is modified.
		11	In Chapter 2.1.2, Table is modified.
		41	In Chapter 10, Notes is added.
1.02	February 2012	5-6	IT-9000 is added.
		16-17	Changed the system menu layers & items
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		19	In Chapter 3.1, System Menu Configuration is added.
1.06	May 2016	8	In Chapter 1.4, Note is added.

1. Outline

1.1 Aim

Rapid advances in the resolution and DPI of mobile terminals have led to a significant reduction in usability where stylus and finger pointing methods are used. In Microsoft's 'Windows Mobile' and 'Windows CE' mobile operating system (OS), system settings icons appear on the desktop where users may inadvertently launch or configure them. In order to remedy this issue, we aim to offer mobile terminals equipped with Windows Mobile that can be used for business applications by providing a menu system (herein referred to as the 'Active Menu System') that hides the desktop and can be operated & selected with precision even on capacitive touch panels.

1.2 System Requirements & Software Configuration

The system requirements of the Active Menu system as follows.

Item	Description
Hardware / OS	IT-300(Windows Mobile 6.5)
	IT-9000 (Windows Mobile 6.5 / Windows CE)
	IT-G500 (Windows Embedded Handheld 6.5 / Windows Embedded Compact 7)
Supported locale	Dependent on OS cultural settings
Essential software	.NET Compact Framework 2.0 & .NETCompact Framework 3.5

The Active Menu system's component software is as follows.

No.	Software	Summary
1	Background Desktop	Hides the Windows Mobile desktop while simultaneously monitoring, controlling, and reporting system status.
2	Active Menu	Provides gesture scroll-capable hierarchical menus for launching applications according to definitions. The software features a 'Job Menu' and a 'System Menu'.
3	JobLoader	Launches applications according to the details of registered alias characters. By registering alias characters for contents that vary according to the environment such as application launch arguments and environment variables, you can make configuration & operation of the Active Menu System more versatile.

1.3 Positioning

The positioning of the Active Menu System's component software is as follows.

Application	Active Properties	Document Viewer
	Active Menu	
	Active Security	

Library	WANGPRS	SMS	CAMERA	NFC	SYSTEM

Driver	GPS	WWAN	CAMERA	NFC	SYSTEM

OS	Windows Mobile 6.5 / CE 6.0 / other OS

Hardware	IT-300 / IT-9000 / other models
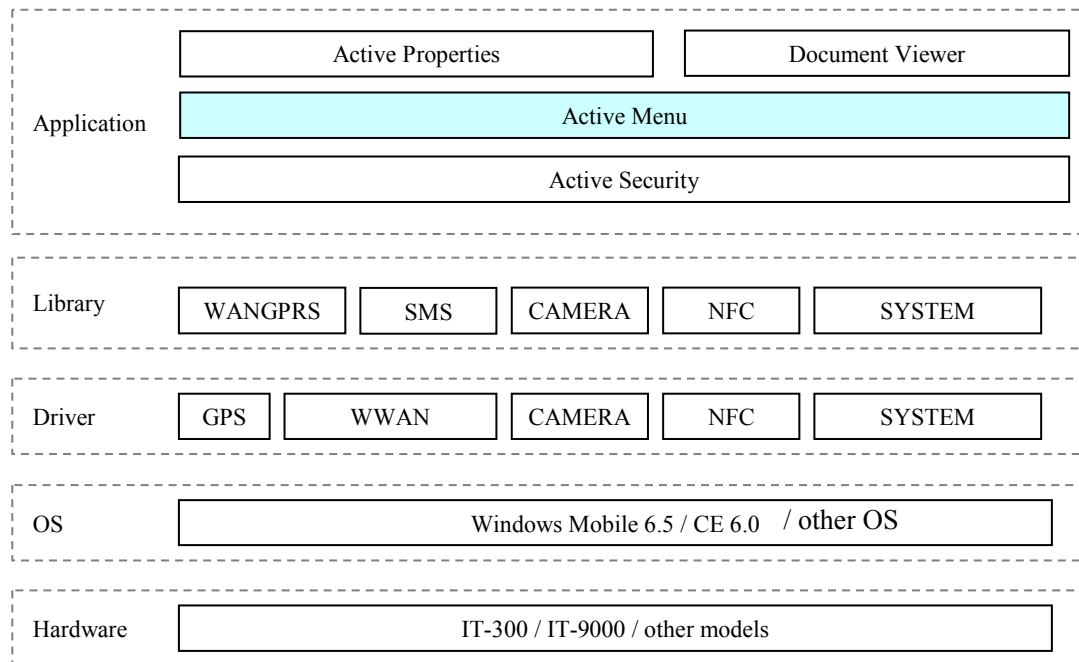
1.4   List of Provided Functions

The main functions provided by the Active Menu System are as follows.

No.	Function	Description
1	Hide Desktop	Hides the Windows Mobile desktop to prevent inadvertent system changes caused by operating errors.
2	Hierarchical Application Launcher	Applications can be arranged according to type using menus capable of representing up to 5 layers each containing 9 items.
3	Gesture Scroll	Enables smooth scrolling of menu items that cannot be displayed on a single screen using pan or flick gestures.
4	Numeric Keypad Direct Select	Enables direct selection of menu items via the numeric keypad without having to operate the display.
5	Call Up Menu	Press the 'MENU' key to display the Job Menu or press the 'Fn' + 'MENU' keys to bring up the System Menu. (See note) * When a menu is called up, its top layer is displayed.
6	Alias Character	Enables registration of alias characters for contents that vary according to the environment such as application launch arguments and environment variables which can then be used within menu definitions.
7	Authenticate terminal password	Password input is needed at system menu display operation if terminal password is set.
8	WLAN Connection Wait	Prevents user operations during cold boot (booting after reset etc.) or when the power is on (recovering from Resume Mode) until the wireless LAN is in the 'READY' state. Application launch controls including application launch from startup & other factors are not performed. This function is disabled in default mode. Please therefore configure the function according to your operating preferences. See '6. USING WLAN CONNECTION WAIT' for information on settings and detailed functions.
9	Virtual Off	Detects when the power button is pressed and activates the "Virtual Off" (standby) Mode. This function is disabled in default mode. Please therefore set it according to your operating preferences. See '7. USING VIRTUAL-OFF MODE' for information on settings and detailed functions.
10	Auto Reset	Reboots the system when recovering from Resume Mode for the first time on a given day to ensure system stability. This function is disabled in default mode. Please therefore set it according to your operating preferences. See '8. USING AUTO RESET' for information on settings and detailed functions.
11	Module Update	Executes the Module Update function. This function is disabled in default mode. Please therefore set it according to your operating preferences. See '9. USING THE MODULE UPDATE FUNCTION' for information on settings and detailed functions.

Note:

When installing "Active Menu" in devices that have a 'MENU' key, "Active Menu" allocates the following programs to a 'MENU' key and 'Fn' + 'MENU' keys.

MENU : \Program Files\CASIO\ActiveMenu\MenuKeyPusher.exe

Fn＋MENU : \Program Files\CASIO\ActiveMenu\ActiveMenuSwitcher.exe

In devices that do not have a 'MENU' key, to implement the same functions as devices that have a 'MENU' key, the above paths should be allocated to 'Fn' + '7' keys, 'Fn' + '8' keys, or 'Fn' + '9' keys. How to allocate program to keys,you should specifythe paths to the following registry.

[HKEY_LOCAL_MACHINE\HARDWARE\DEVICEMAP\KEYBD]

Fn7LaunchPath (REG_SZ) : either path

Fn8LaunchPath (REG_SZ) : either path

Fn9LaunchPath (REG_SZ) : either path

1.5   Startup to Operation

The diagram below illustrates each of the processes from OS startup to Active Menu System launch.
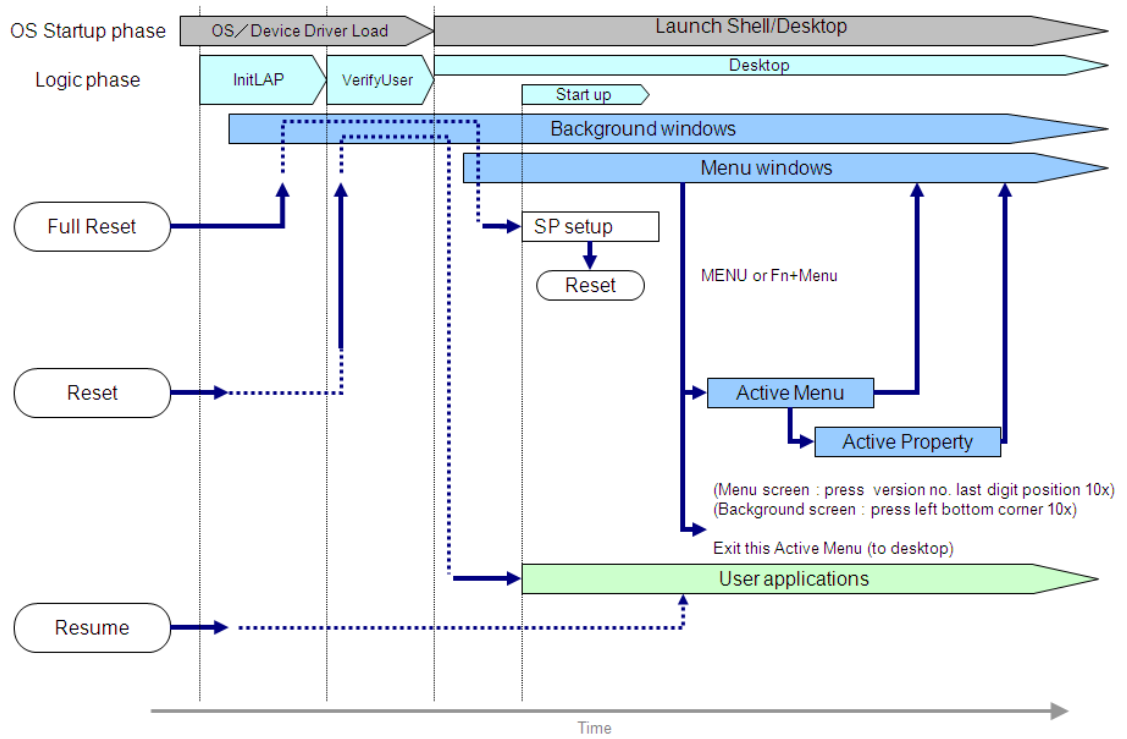
This system do not execute in default condition, for using this system, start "System Switcher" tool according each model software manual and select "CASIO Desktop Mode".

When you execute terminate operation of this system, please press Fn + MENU in order to execute same as Windows button press operation.

[Note : About running application under Active Menu environment]
Key map from F1 key to F4 key will be changed at Active Menu will be active condition and also when Active Menu will be de-active condition, key map from F1 key to F4 key will be changed as default value.
So, your application under Active Menu system environment should be append same routine.

2.   Window Configuration & Functions

The Active Menu System comprises both the Background Window and the Menu Window.
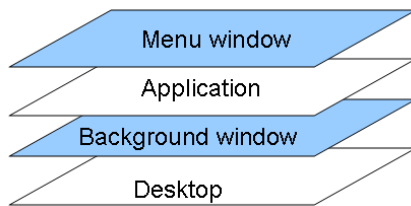
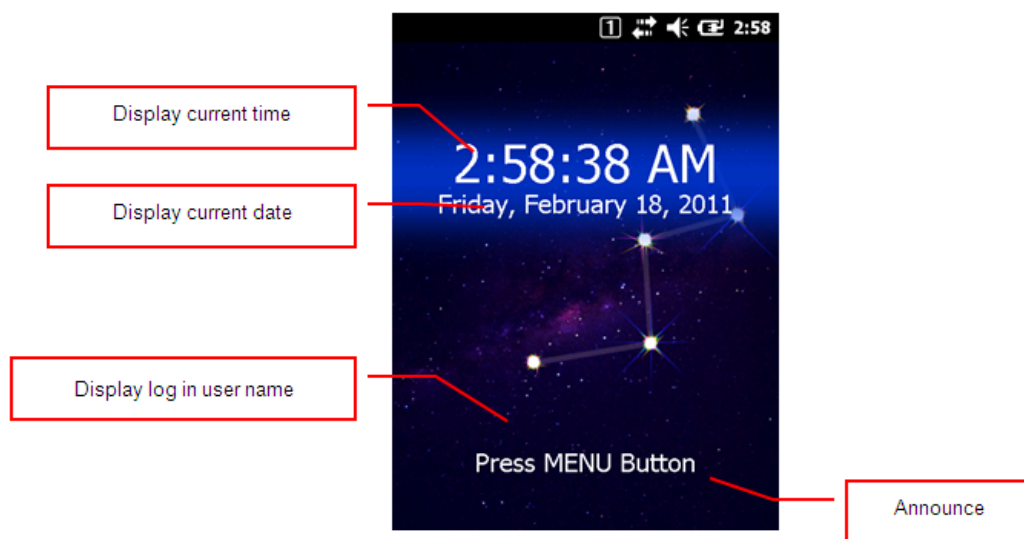## 2.1   Background Window

The Background Window is designed to prevent inadvertent system changes and data leaks caused by operating errors by launching from Initlap (see '1.5. Startup to Operation') and hiding the Start Menu and desktop.

2.1.1   About screen

The following screen is specified as default condition.

About screen customize method, please refer '2.1.4 How to change background'.

2.1.2 File Configuration

The Background Window is provided from the following files.

No.	File Name	Image Type* (Size/Bits)	Path (\Program Files\CASIO...)	Description
1	ActiveBackWall.exe	-	\ActiveMenu	Executable file
2	hBackWall.png vBackWall.png	1D (480x605/24bit)	\ActiveMenu\env\bmp\vga	Background screen
3	Btn_cancel.png	5D (48x600/24bit)	\ActiveMenu\env\bmp\vga	Cancel button image
4	Indicator64.gif	12D (64x768/24bit)	\ActiveMenu\env\bmp\vga	Animated active indicator image
5	Waitnet.png	1D (136x448/24bit)	\ActiveMenu\env\bmp\vga	Network wait message image
6	Waitsystem.png	1D (136x448/24bit)	\ActiveMenu\env\bmp\vga	System startup wait message image
7	Waitmenu.png	1D (136x448/24bit)	\ActiveMenu\env\bmp\vga	Menu system launch wait message image
8	Waittask.png	1D (136x448/24bit)	\ActiveMenu\env\bmp\vga	Task manager launch wait message image
9	Onedayreset.png	1D (136x448/24bit)	\ActiveMenu\env\bmp\vga	Overnight run message image
10	Waitmoupdate.png	1D(136x448/24bit)	\ActiveMenu\env\bmp\vga	Module update wait screen
11	Option.ini	-	\ActiveMenu\env\ini	Settings definition file

* Image file format information. See '2.2.4 Changing colors & images' for details.

* In QVGA screen, \ActiveMenu\env\bmp\VGA will be \ActiveMenu\env\bmp\QVGA, and each image file will be half size in width and height.

2.1.3 Provided functions

The table below lists the functions provided by the Background Window.

No.	Function	Details
1	Rearmost Display	Positioning the Background Window in the rearmost window prevents it from interfering with other running applications. *When exiting an application in Windows Mobile, the application is simply minimized rather than shut down. This means that applications may be running even when the Background Window is displayed. At this time, it is possible to operate by start application again from menu.
2	Status Display	Displays the following information in real time in response to system status. - System Startup Phase - Remaining Network Wait Time (when using Network Wait function) See 6.3 Window & Operating Method, and 8.3 Window Layout for further window display details.
3	Disable Taskbar Dropdown Menu	Prevents the dropdown menu from appearing when clicking on the taskbar at the top of the window in Windows Mobile 6.5.3.
4	WLAN Connection Wait	See 6.Using WLAN Connection Wait.
5	Virtual Off	See 7.Using Virtual-OFF Mode.
6	Auto Reset	See 8.Using Auto Reset.

2.1.4 How to change background screen

Please change "BackWall.png" file which is defined in '2.1.2 File Configuration' if you want to change background screen.

And also when you change the following definition file content, you can change display content in background detail content. Setting will be enabled after reset operation.

Definition file

Item	Detail
File type	ANSI INI type text file
File path	\Program Files\CASIO\ActiveMenu\ENV\INI\Option.ini

Key list

No	Section	Key	Detail	Value
1	Version	VER	Version information	"1.00" fixed
2	Option	DisplayTime	Time enable / disable	0 : do not display 1 : display
		DisplayTimeColor	Time display color	Hex RGB value
		DisplayTimeFont	Time display font name	Font name character string
		DisplayTimeSize	Time font size	Font point
		DisplayTimeY	Time display position	Y coordinate * X coordinate will be centering.
		DisplayDate	Date enable / disable	0 : do not display 1 : display
		DisplayDateColor	Date display color	Hex RGB value
		DisplayDateFont	Date display font name	Font name character string
		DisplayDateSize	Date display font size	Font point
		DisplayDateY	Data display position	Y coordinate * X coordinate will be centering.
		DisplayUseName	User name enable / disable	0 : do not display 1 : display
		DisplayUseNameColor	User name display color	Hex RGB value
		DisplayUseNameFont	User name display font name	Font name character string
		DisplayUseNameSize	User name display font size	Font point
		DisplayUseNameY	User name display position	Y coordinate * X coordinate will be centering.
		ActionString	Announce character	Set space if do not display announce character strings
		ActionStringColor	Announce display color	Hex RGB value
		ActionStringFont	Announce display font name	Font name character string
		ActionStringSize	Announce display font size	Font point
		ActionStringY	Announce display position	Y coordinate * X coordinate will be centering.
		ActionStringBlink	Blinking period of announce character	Set blinking period as ms unit. Set 0 if always display.

2.2   Menu Window

2.2.1   Provided functions

The table below lists the functions provided by the System Menu.

| No.	Performed Function	Details
1	Hierarchical Menu	Up to 5 menu layers each containing 9 items
2	Previous Layer	Press the F1 key or touch the red return arrow button on the bottom left of the window to return to the previous menu layer.
3	Top Layer	Press the F4 key or the yellow button on the bottom right of the window to return to the top menu layer.
4	Button Scroll	Press the F2/F3 keys or touch the blue/green buttons in the bottom center of the window (see diagram on page 18) to scroll up/down.
5	Flick Scroll	Scroll the Menu Window up or down using flick gestures.
6	Numeric Keypad Direct Select	Execute the desired menu item by pressing the corresponding number on the numerical keypad. And press MENU key and address number which you want to execute item, then you can execute specified item. <Ex.> [1.Programs] -> [3. Calculator] : MENU key -> 1 -> 3 If selected item is not application or protected, at this time is error (Vibrator twice.)
7	Display System Menu	Display the menu layer defined by SystemMenu.xml by pressing the Fn + MENU keys.
8	Display Job Menu	Display the menu layer defined by JobMenu.xml by pressing the MENU key. This function is only available when JobMenu.xml exists.
9	Start application	Start application which define at each menu definition. Do not execute double start or process check. These check will be followed with target application and OS specification.

2.2.2 File Configuration

The Menu Window is provided from the following files.

| No.	File name	Image Type* (Size/Bits)	Path (\Program Files\CASIO...)	Description
1	ActiveMenu.exe	-	\ActiveMenu	Executable files
2	Area_menu.png	5S (5x5/24bit)	\ActiveMenu\env\bmp\vga	Menu background image
3	Area_title.png	5S (48x5/24bit)	\ActiveMenu\env\bmp\vga	Title background image
4	Btn_f1.png	5D (48x600/24bit)	\ActiveMenu\env\bmp\vga	F1 button image
5	Btn_f2.png	5D (48x600/24bit)	\ActiveMenu\env\bmp\vga	F2 button image
6	Btn_f3.png	5D (48x600/24bit)	\ActiveMenu\env\bmp\vga	F3 button image
7	Btn_f4.png	5D (48x600/24bit)	\ActiveMenu\env\bmp\vga	F4 button image
8	BtnDirIcon.png	5D (32x160/24bit)	\ActiveMenu\env\bmp\vga	Folder image
9	BtnNum01.png	5D (36x180/24bit)	\ActiveMenu\env\bmp\vga	Button no. 1 image
10	BtnNum02.png	5D (36x180/24bit)	\ActiveMenu\env\bmp\vga	Button no. 2 image
11	BtnNum03.png	5D (36x180/24bit)	\ActiveMenu\env\bmp\vga	Button no. 3 image
12	BtnNum04.png	5D (36x180/24bit)	\ActiveMenu\env\bmp\vga	Button no. 4 image
13	BtnNum05.png	5D (36x180/24bit)	\ActiveMenu\env\bmp\vga	Button no. 5 image
14	BtnNum06.png	5D (36x180/24bit)	\ActiveMenu\env\bmp\vga	Button no. 6 image
15	BtnNum07.png	5D (36x180/24bit)	\ActiveMenu\env\bmp\vga	Button no. 7 image
16	BtnNum08.png	5D (36x180/24bit)	\ActiveMenu\env\bmp\vga	Button no. 8 image
17	BtnNum09.png	5D (36x180/24bit)	\ActiveMenu\env\bmp\vga	Button no. 9 image
18	menu_blue.png	5D (76x2240/24bit)	\ActiveMenu\env\bmp\vga	Button image (blue)
19	menu_lightblue.png	5D (76x2240/24bit)	\ActiveMenu\env\bmp\vga	Button image (light blue)
20	menu_lightgray.png	5D (76x2240/24bit)	\ActiveMenu\env\bmp\vga	Button image (light grey)
21	menu_magenta.png	5D (76x2240/24bit)	\ActiveMenu\env\bmp\vga	Button image (magenta)
22	menu_orange.png	5D (76x2240/24bit)	\ActiveMenu\env\bmp\vga	Button image (orange)
23	menu_red.png	5D (76x2240/24bit)	\ActiveMenu\env\bmp\vga	Button image (red)
24	menu_yellow.png	5D (76x2240/24bit)	\ActiveMenu\env\bmp\vga	Button image (yellow)
25	ScrollBar.png	1D (8x6/24bit)	\ActiveMenu\env\bmp\vga	Scrollbar image
26	JobMenu.xml	-	\ActiveMenu\env\ini	Job Menu definition file
27	SystemMenu.xml	-	\ActiveMenu\env\ini	System Menu definition file

*Image file format information. See '2.2.4 Changing colors & images' for details.

*In QVGA screen, \ActiveMenu\env\bmp\VGA will be \ActiveMenu\env\bmp\QVGA, and each image file will be half size in width and height.

2.2.3 Window & operating method
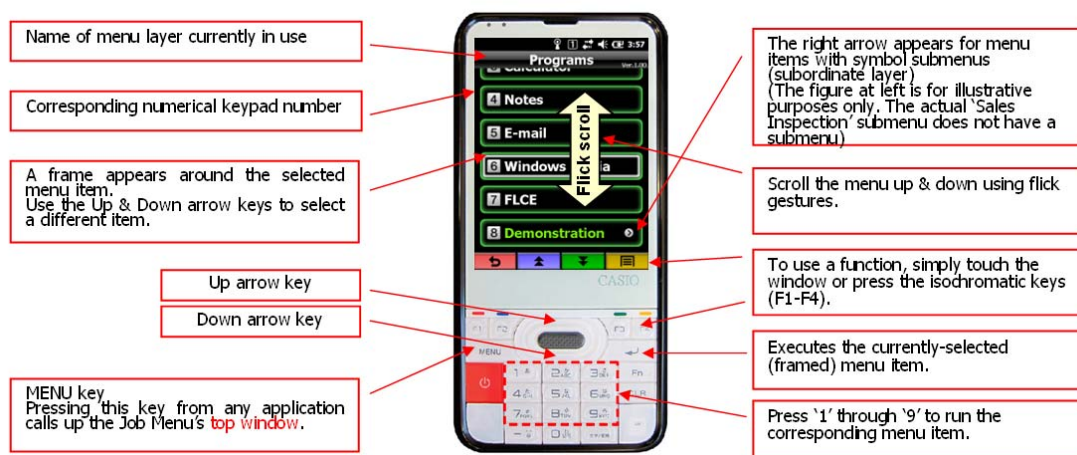
Title
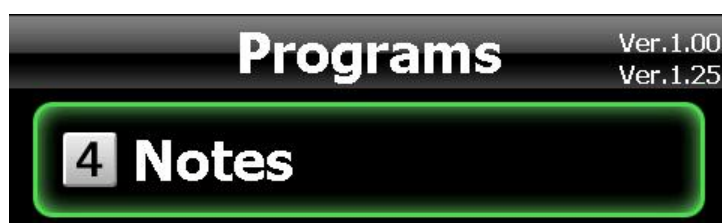
2.2.4 Changing colors & images

You can change the window images by replacing the image files in '2.2.1 File configuration' with other files.
However, the replacement image files must adhere to the formats/sizes defined in the 'Image Type' column of the table in section 2.2.1.

Definition of '1D' image type

The term '1D' in the 'Image Type' column of the aforementioned table refers to image files that contain only a single image.

Definition of '5S' image type

The term '5S' refers to image files that contain 5 of the same images aligned horizontally.
The horizontal width of the image file must be a multiple of 5.

Definition of '5D' & '12D' image types

The terms '5D' & '12D' refer to image files that contain respectively 5 & 12 different horizontally-aligned images. All images must be of identical width and must be aligned from left to right in the following order: normal state; selected state; pressed state; disabled state; and (Reserve image).

5 different horizontally-aligned images

Normal State	Selected state	Pressed state	Disabled state	(Reserve)

F1 button image
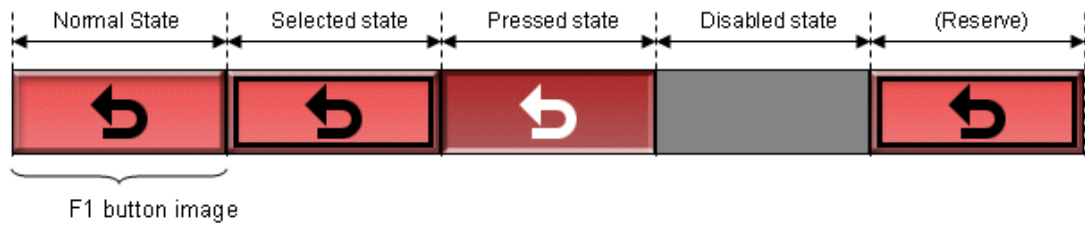
3. Menu Configuration

3.1 System Menu Configuration & Applications

The table below lists the menu layers & items that compose the System Menu as well as the applications launched by each menu item.

(1) IT-300 / IT-9000

Layer/Item			Windows Mobile	Windows CE
Programs				
	Internet Explorer		\windows\iexplore.exe	\windows\iesample.exe
	File Explorer		\windows\fexplore.exe \My Documents	\windows\explorer.exe \My Documents
	Command Prompt		—	\Windows\cmd.exe
	FLCE		\windows\flce.exe	
	Demonstrations			
		NFC	\Program Files\CASIO\DEMO\NFCDemo.exe	
		Image Scanner	\Program Files\CASIO\DEMO\ImagerDemo.exe	
		Laser Scanner	\Program Files\CASIO\DEMO\LaserDemo.exe	
		Buzzer / Vibrator	\Program Files\CASIO\DEMO\BuzzerDemo.exe	
		Screen	\Program Files\CASIO\DEMO\LCDDemo.exe	
Settings				
	System			
		Date / Clock	\windows\ctlpnl.exe cplmain.cpl,16	\windows\ctlpnl.exe \Windows\cplmain.cpl,13
		Regional Settings	\Windows\ctlpnl.exe cplmain.cpl,18	\windows\ctlpnl.exe intlp.cpl,0
		Certificates	\Windows\cerinst.exe	\Windows\ctlpnl.exe \Windows\cplmain.cpl,14
		Power Management	\Windows\ctlpnl.exe cplmain.cpl,3	\Windows\ctlpnl.exe cplmain.cpl,5
		Backlight	\Windows\ctlpnl.exe cplmain.cpl,6	\Windows\ctlpnl.exe ContrastC.cpl
		Notification	\Windows\ctlpnl.exe cplmain.cpl,9	\Windows\ctlpnl.exe cplmain.cpl,10
		Buzzer	\Windows\ctlpnl.exe buzzervol.cpl	
		Vibrator	\Windows\ctlpnl.exe vibrator.cpl	
		System Settings	\Program Files\CASIO\kitting\ActSystem.exe	
	Communications			
		Wireless LAN		
			Power	\Windows\ctlpnl.exe cfpwrcpl.cpl
			Connection	\Windows\ctlpnl.exe wlancpl.cpl

		Barcode Settings	\windows\wlanbarcodesetting.exe	
		Net Search	\Program Files\CASIO\System\NetSearch.exe	\Windows\NetSearch.exe
	USB			
		USB Connection	\Windows\ctlpnl.exe USB_Connect.cpl	
		USB to PC	\Windows\ctlpnl.exe cplmain.cpl,28	\Windows\ctlpnl.exe cplmain.cpl,0
	Bluetooth		\Windows\ctlpnl.exe cplmain.cpl,23	\Windows\ctlpnl.exe \Windows\bthpnl.cpl,0
	Connection		\Windows\ctlpnl.exe cplmain.cpl,19	\Windows\ctlpnl.exe \windows\connpnl.cpl
Scanner			\windows\scannersettinglauncher.exe	
Alias Editor			\Program Files\CASIO\ActiveMenu\LocalAliasEditor.exe	
Maintenance				
	Backup Tool		\Program Files\CASIO\System\CF_Backup.exe	\Windows\CF_Backup.exe
	Copy Devices		\Program Files\CASIO\System\HTCopyBT.exe	
	Module Updater		\Windows\moupdate.exe –m	
	Log Viewer		\Windows\MoLogView.exe	
	Remote Desktop		\Windows\wpctsc.exe	\windows\cetsc.exe
	Remove Programs		\Windows\ctlpnl.exe cplmain.cpl,10	\Windows\ctlpnl.exe \Windows\cplmain.cpl,12
	Software Reset		Internal command (command = reset)	
	PDA Password		\Program Files\CASIO\ActiveMenu\PDAPasswordEditor.exe	
	Version		\Windows\ChkVer.exe	\Windows\ctlpnl.exe \Windows\ChkVerC.cpl,0
Task Manager			Internal command (command = tskmgr)	

(2) Other Models

Layer/Item			Windows Mobile	Windows CE
Programs				
	Internet Explorer		\windows\iexplore.exe	\windows\iesample.exe
	File Explorer		\windows\fexplore.exe \My Documents	\windows\explorer.exe \My Documents
	Command Prompt		－	\Windows\cmd.exe
	FLCE		\windows\flce.exe	
	Demonstrations			
		NFC	\Program Files\CASIO\DEMO\NFCDemo.exe	
		Scanner	\Program Files\CASIO\ActiveMenu\ScannerSelector.exe /D	
		Buzzer / Vibrator	\Program Files\CASIO\DEMO\BuzzerDemo.exe	
		Screen	\Program Files\CASIO\DEMO\LCDDemo.exe	
Settings				
	System1			
		Owner	\windows\ctlpnl.exe cplmain.cpl,2	\windows\ctlpnl.exe \Windows\cplmain.cpl,4
		Date / Clock	\Windows\ctlpnl.exe cplmain.cpl,16	\windows\ctlpnl.exe cplmain.cpl,13
		Regional Settings	\Windows\ctlpnl.exe cplmain.cpl,18	\Windows\ctlpnl.exe intlp.cpl,0
		Certificates	\windows\CertInst.exe	\Windows\ctlpnl.exe cplmain.cpl,14
		Error Report	\Windows\ctlpnl.exe cplmain.cpl,24	\Windows\ctlpnl.exe \Windows\DwCtlPnl.cpl,0
		Power	\Windows\ctlpnl.exe cplmain.cpl,3	\Windows\ctlpnl.exe cplmain.cpl,5
		Notification	\Windows\ctlpnl.exe cplmain.cpl,9	\Windows\ctlpnl.exe cplmain.cpl,10
	System2			
		CPU Speed	\windows\ctlpnl.exe \Windows\speedcpl.cpl,0	
		Backlight	\Windows\ctlpnl.exe cplmain.cpl,6	\Windows\ctlpnl.exe ContrastC.cpl
		Buzzer	\windows\ctlpnl.exe buzzervol.cpl	
		Vibrator	\windows\ctlpnl.exe vibrator.cpl	
	Communications			
		Wireless LAN		
		Power	\Windows\ctlpnl.exe \Windows\cfpwr.cpl	\Windows\ctlpnl.exe \Windows\cfpwrcpl.cpl
		Connection	\Windows\ctlpnl.exe \Windows\WLAN.cpl	\Windows\ctlpnl.exe \Windows\wlancpl.cpl
		Net Search	\ProgramFiles\CASIO\System\NetSearch.exe	\Windows\NetSearch.exe

	USB		
		USB Connection	\Windows\ctlpnl.exe USB_Connect.cpl	
		USB to PC	\Windows\ctlpnl.exe cplmain.cpl,28	\Windows\ctlpnl.exe cplmain.cpl,0
	Bluetooth		\Windows\ctlpnl.exe cplmain.cpl,23	\Windows\ctlpnl.exe \Windows\bthpnl.cpl,0
	Connections		\Windows\ctlpnl.exe cplmain.cpl,19	\Windows\ctlpnl.exe \windows\connpnl.cpl
	Barcode Settings		\ProgramFiles\CASIO\System\wlanbarcodesetting.exe	\windows\wlanbarcodesetting.exe
	CTM Installer		\ProgramFiles\CASIO\System\CTMInstaller.exe	\windows\CTMInstaller.exe
Scanner			\Program Files\CASIO\ActiveMenu\ScannerSelector.exe /S	
Alias Editor			\Program Files\CASIO\ActiveMenu\LocalAliasEditor.exe	
Maintenance				
	Backup Tool		\Program Files\CASIO\System\CF_Backup.exe	\Windows\CF_Backup.exe
	Copy Devices		\Program Files\CASIO\System\HTCopyBT.exe	
	Module Updater		\ProgramFiles\CASIO\System\moupdate.exe -m	\Windows\moupdate.exe −m
	Log Viewer		\Windows\MoLogView.exe	
	Remote Desktop		\Windows\wpctsc.exe	\windows\cetsc.exe
	Remove Programs		\Windows\ctlpnl.exe cplmain.cpl,10	\Windows\ctlpnl.exe \Windows\cplmain.cpl,12
	Software Reset		Internal command (command = reset)	
	PDA Password		\Program Files\CASIO\ActiveMenu\PDAPasswordEditor.exe	
	Version		\Windows\ChkVer.exe	\Windows\ctlpnl.exe \Windows\ChkVerC.cpl,0
Task Manager			Internal command (command = tskmgr)	
Main Menu			\Program Files\CASIO\ActiveMenu\MenuKeyPusher.exe	

3.2　Menu Definition File Formats

The formats of SystemMenu.xml and JobMenu.xml are as follows.

Parameter	Details
File format	Unicode XML format
File path	See '1.2. System Requirements & Software Configuration'
Data set name	MenuDataSet

3.2.1 Global parameter settings

No	Key	Defined Parameter	Description	Default
1	Number	Version No.	"1.00" (fixed)	"1.00"
2	ShowBtnNum	Button No. Display On/Off	0: Do not display 1: Display	1
3	FontID	Font No.	Number of font displayed by title.	1
4	VerFontID	Version Font No.	Number of font displayed by version.	3
5	FontColorID	Font Color No.	Number of font color displayed by title.	1
6	TitleBkImageID	Background Image No.	Number of background displayed by title.	1
7	MenuBkImageID	Background Image No.	Number of background displayed by menu.	2
8	ScrollBarImageID	Scrollbar Image No.	Number of image displayed by scrollbar.	3
9	F1BkImageID	F1 Button Image No.	Number of button image displayed by F1 button.	4
10	F2BkImageID	F2 Button Image No.	Number of button image displayed by F2 button.	5
11	F3BkImageID	F3 Button Image No.	Number of button image displayed by F3 button.	6
12	F4BkImageID	F4 Button Image No.	Number of button image displayed by F4 button.	7
13	TopMenuName	Top Menu Name	Name of top menu.	Main Menu
14	MenuFileVer	Menu Definition File Version	Version information of the menu definition file displayed on a title. Please specify the character string up to about eight characters. When the specified character string is long, it may overlap with a menu name. When a display overlaps, please reduce and adjust the number of characters. When this item is not specified, it does not display on a title. Example: "Ver.1.00" *1 Menu definition file version is not displayed.	"" (null)

Table within row 14 cell:

		Menu Definition File	
		Without MenuFileVer	With MenuFileVer
Active Menu Version	Before Ver1.25	○*1	○*1
	Ver1.25 or subsequent ones	○*1	○

No	Key	Defined Parameter	Description	Default
15	ShowVer	Version Display On/Off	0: Display a menu engine version and a menu definition file version. 1: Display only a menu definition file version. 2: Display only a menu engine version. 3: Do not display a menu engine version and a menu definition file version. *1 It becomes the same operation as ShowVer=2. *2 It becomes the same operation as ShowVer=0.	0

		Menu Definition File	
		Without ShowVer	With ShowVer
Active Menu Version	Before Ver1.25	O*1	O*1
	Ver1.25	O*2	O*2
	Ver1.26 or subsequent ones	O*2	O

*For the above settings, please use the sample settings without modification except No.14 and No.15.

3.2.2 Menu item settings

Menu items are delimited by the <Menu> tag.

No	Key	Defined Item	Description
1	MenuName	Menu Name	Name of the menu to which the item belongs.
2	BtnTitle	Menu Display Character String	Character string displayed on the menu button.
3	BtnImage	Menu Background Image	Background image displayed on the menu button.
4	Command	Menu Operation Settings	Exec: runs the application listed in the ExePath. Menu: moves to the menu name listed in the ExePath. Blank: hides the item. Disable: makes the item unselectable. Reset: resets the software.
5	ExePath	Startup Path/Submenu	Startup EXE path or destination menu name. When Command=Exec, the alias dictionary is supported. See '4.1. Alias Dictionary Link' for details on the alias dictionary.
6	ExeOption	Argument	Argument passed to startup EXE. When Command=Exec, the alias dictionary is supported. See '4.1. Alias Dictionary Link' for details on the alias dictionary.
7	Plugin	Menu Plugin	Designates the full path of the plugin executed before running the menu item. See '3.2.3. Restricting menu availability' for plugin details.

Sample Menu Definition File

```xml
<?xml version="1.0" standalone="yes"?>
<MenuDataSet>
  <Ver Number="1.00" ShowBtnNum="1" FontID="1" VerFontID="3"
FontColorID="1" TitleBkImageID="1" MenuBkImageID="2"
ScrollBarImageID="3" F1BkImageID="4" F2BkImageID="5" F3BkImageID="6"
F4BkImageID="7" TopMenuName="MainMenu" MenuFileVer="Ver.1.00"
ShowVer="0" />
  <Font>
    <ID>1</ID>
    <Name>Tahoma</Name>
    <Size>140</Size>
    <Style>AB</Style>
  </Font>
  <Font>
    <ID>2</ID>
    <Name>MS UI Gothic</Name>
    <Size>140</Size>
    <Style>B</Style>
  </Font>
  <Font>
```

```xml
    <ID>3</ID>
    <Name>Tahoma</Name>
    <Size>60</Size>
    <Style>B</Style>
</Font>
<FontColor>
    <ID>1</ID>
    <R>255</R>
    <G>255</G>
    <B>255</B>
</FontColor>
<FontColor>
    <ID>2</ID>
    <R>0</R>
    <G>0</G>
    <B>0</B>
</FontColor>
<FontColor>
    <ID>3</ID>
    <R>184</R>
    <G>184</G>
    <B>184</B>
</FontColor>
<Image>
    <ID>1</ID>
    <Path>area_title.png</Path>
</Image>
<Image>
    <ID>2</ID>
    <Path>area_menu.png</Path>
</Image>
<Image>
    <ID>3</ID>
    <Path>scrollbar.png</Path>
</Image>
<Image>
    <ID>4</ID>
    <Path>btn_f1.png</Path>
</Image>
<Image>
    <ID>5</ID>
    <Path>btn_f2.png</Path>
</Image>
<Image>
    <ID>6</ID>
    <Path>btn_f3.png</Path>
</Image>
<Image>
    <ID>7</ID>
```

```xml
        <Path>btn_f4.png</Path>
      </Image>
    <Image>
      <ID>8</ID>
      <Path>menu_blue.png</Path>
    </Image>
    <Menu>
      <MenuName>MainMenu</MenuName>
      <BtnTitle>InventoryInquiry</BtnTitle>
      <FontID>2</FontID>
      <FontColorID>1</FontColorID>
      <BtnImageID>8</BtnImageID>
      <Command>menu</Command>
      <ExePath>InventoryInquiry</ExePath>
      <ExeOption />
      <Plugin></Plugin>
    </Menu>
    <Menu>
      <MenuName>InventoryInquiry</MenuName>
      <BtnTitle>InventoryInquiry</BtnTitle>
      <FontID>2</FontID>
      <FontColorID>1</FontColorID>
      <BtnImageID>8</BtnImageID>
      <Command>exec</Command>
      <ExePath>test.exe</ExePath>
      <ExeOption />
      <Plugin />
    </Menu>
</MenuDataSet>
```

3.2.3 Restricting menu availability

Operation of certain menus can be blocked according to the authority, time zone, and cultural settings of the currently logged-in user.

Prepare the below-mentioned file and designate the full path to the plugin in '3.2.2. Menu item settings'. When the user attempts to run the designated item, the module designated by the plugin is executed. If the return value is 0 the menu item runs, but if the return value is 1 then the menu item does not run.
If the designated module does not exist, the return value is treated as 1.

Plugin Module

Parameter	Details
File format	EXE format
File path	Optional
Return Values	1: Execute Menu item
	0: Do not execute Menu item

The default factory settings contain the following sample module.
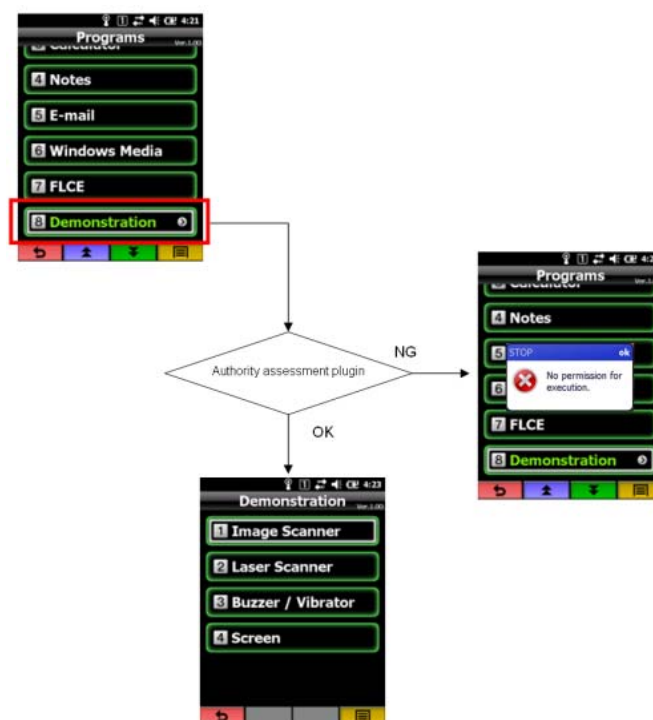
3.2.4 Changing menu content according to OS cultural settings

Although the system typically loads SystemMenu.xml and JobMenu.xml, when the following file names exist within the same folder, these files are preferentially loaded.

Menu Definition File	Details
SystemMenu.[cultural information].xml	If the file name according to the OS cultural settings does not exist, SystemMenu.xml is loaded instead. Example: On an OS with Japanese cultural settings, SystemMenu.ja-jp.xml is preferentially loaded. Alternatively, if SystemMenu.ja-jp.xml does not exist, SystemMenu.xml is loaded.
JobMenu.[cultural information].xml	If the file name according to the OS cultural settings does not exist, JobMenu.xml is loaded instead. Example: On an OS with Japanese cultural settings, JobMenu.ja-jp.xml is preferentially loaded. Alternatively, if JobMenu.ja-jp.xml does not exist, JobMenu.xml is loaded.

4. Using the Job Loader

By using the Job Loader--an application launcher utilizing the Alias Dictionary Link function, you can effectively perform menu definition.

4.1 Alias Dictionary Link

This function registers alias characters for contents that vary according to the environment such as application launch arguments and environment variables. If alias characters as defined above exist in the menu item execute details, then the alias characters will replace the definition characters according to the registered details.

4.1.1 File configuration

The Alias Dictionary Link function is provided from the following files.

No.	File name	Path	Description
1	JobLoaderLocal.ini	\Application Data\CASIO\ENV	Local alias definition file[*1]
2	JobLoaderSystem.ini	\Application Data\CASIO\ENV	System alias definition file[*2]

*1: Defines the aliases that vary for each mobile operating system. Example: store-specific settings etc.
*2: Defines the aliases configured uniquely for the entire system. Example: application paths etc.

About JobLoaderLocal.ini setting file, in order to modify setting at each terminal, editing utility in terminal is available, and JobLoaderSystem.ini setting file probably will be same at system, therefore there is no editing utility in terminal, and if you need to modify JobLoaderSystem.ini setting file, modify detail in PC side text editor utility first then deploy to each terminal.

4.1.2 Alias Dictionary file format

Format

Parameter	Description
File format	Unicode INI text file[*1]
File path	See '1.2. System Requirements & Software Configuration'
Reference sequence	References JobLoaderLocal.ini and, if no definition is found, references JobLoaderSystem.ini.

*1: All key name and variable does not differentiate between upper & lower case characters.

Key list

No	Section	Key	Meaning	Value
1	Version	VER	Version Info	"1.00" (Fixed)
2	Alias	[Variable ID]	Specified value	[Variable ID] can be used within the Menu definition and Job definition files as $[VariableID]$.

Sample Format

```
[Version]
VER=1.00
[Alias]
NOTE=\windows\notes.exe
IE=\windows\iexplorer.exe
```

Upper sample format is set as IE(browser software) = iexplorer.exe.
And we think that there is case which some different user want to use different browser software like Opera and so on. At this time, you can change this setting default IE (browser software) as other browser software.

4.1.3 Reserved words

The Active Menu System is typically implemented with the following ID reserve words which cannot be registered in the Alias Dictionary.
Even if you register reserve words in the dictionary, their content will be invalid.

Reserve Word	Description
Id	Name of the currently logged-in user.
Date	Current date. A character string in the YYYYMMDD format.
Time	Current time. A character string in the 24-hour HHMMSS format.
Ver	Used internally by the system.

4.1.4 Editing the Alias Dictionary

The local alias definition file can be edited to suit the terminal OS.
Launch the following execute module or select 'Edit Alias Definitions' from the System Menu.

No.	File Name	Path (\Program Files\CASIO...)	Description
1	LocalAliasEditor.exe	\ActiveMenu	Execute module
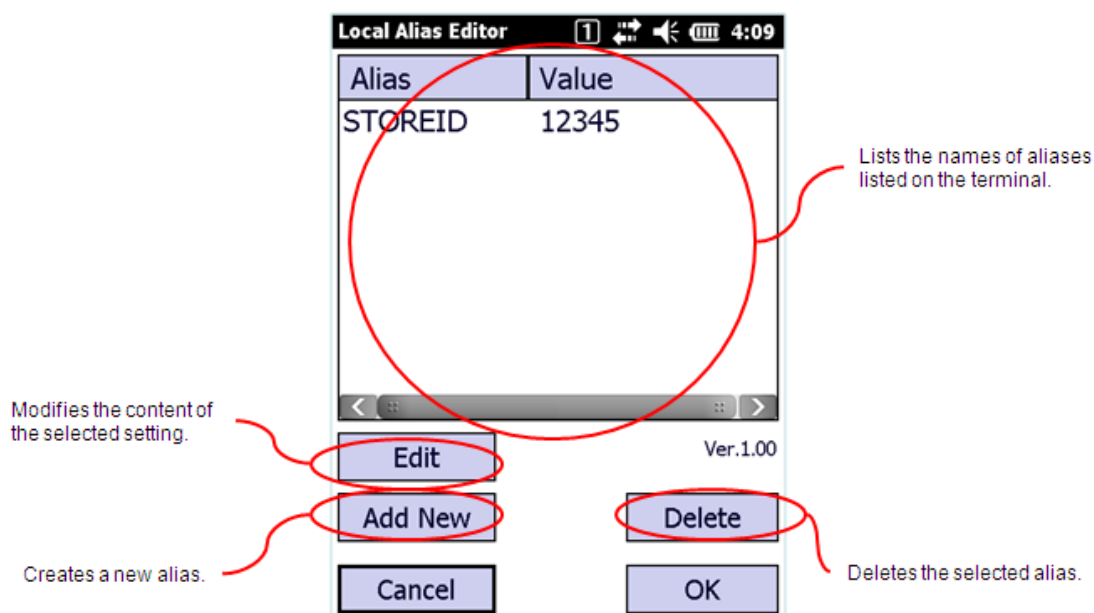
*You can register up to 100 aliases.

4.2　Job Loader

Using the Job Loader (JobLoader.exe), you can utilize an application launcher with the Alias Dictionary Link function.

4.2.1　File configuration

The Alias Dictionary Link function is provided from the following files.

No.	File name	Path	Description
1	JobLoader.exe	\windows	Job Loader executable file
2	(optional).jldr	Optional	Job definition file: defines the job application launcher information.

4.2.2　Job Loader startup argument

Execute the JobLoader.exe using the following format.

Format: JobLoader.exe job definition file full path

Normal startup returns a value of exit code = 0.
Abnormal startup returns a value of exit code = 1.

4.2.3　Menu definition file format

Parameter	Description
File format	Unicode INI text file
Extension	Jldr

Key list

No	Section	Key	Meaning	Value
1	Version	VER	Version Info	"1.0" (fixed)
2	Application	EXE	Program path	Designates the startup program path. Variable IDs registered in the path dictionary can be designated by placing '$' symbols on both ends. Example: ie
3	Application	ARGV	Startup argument	Designates the program's startup argument. Example: $zaikourl$ -id=id storeid=$storeid$

Sample Format

```
[Version]
VER=1.00
[Application]
EXE=$ie$
ARGV=$zaikourl$ -id=$id$ storeid=$storeid$
```
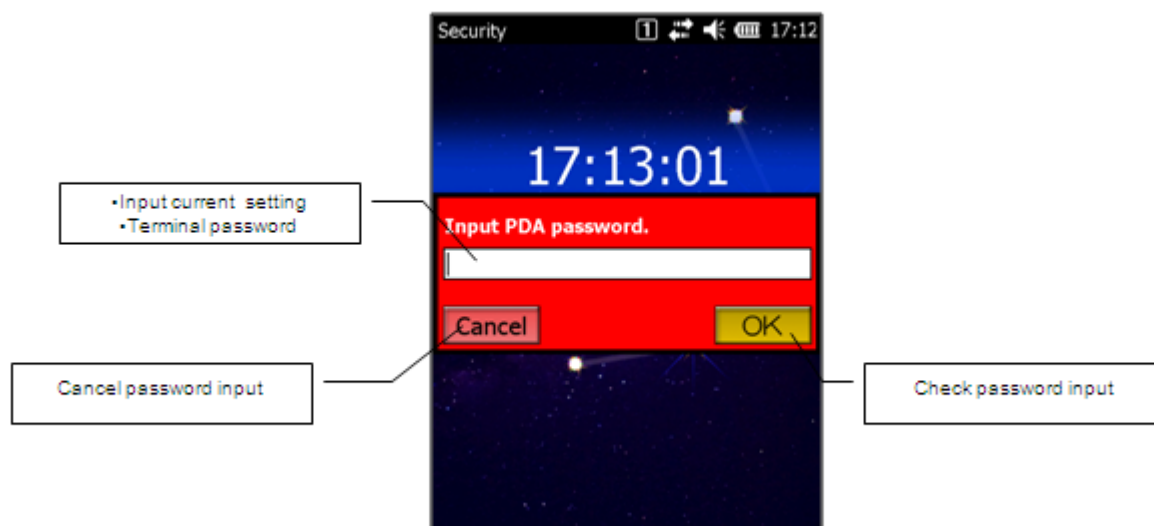
5. Using Terminal Password

5.1 About Terminal Password

This password is set for each terminal and do not effect by copy devices / backup / restore / full reset operation.
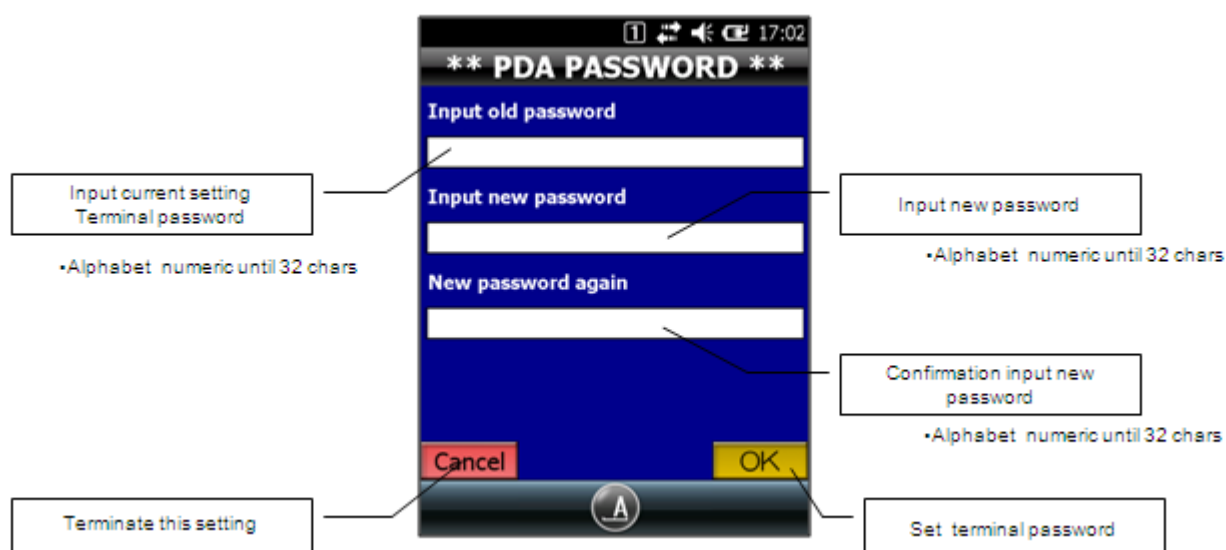If terminal password have been set, require to input password at display system menu.
And system menu will be displayed if input password and terminal password is matched.

5.2 Set Terminal Password

Execute [Settings] -> [System] -> [PDA Password]

If you want to clear terminal password, set space in new password field.
If you forget terminal password, can not display system menu and also can not re-setting terminal password.

6. Using WLAN Connection Wait

6.1 WLAN Connection Wait

This function prevents user operation until the wireless LAN (WLAN) is in the 'ready' state following a cold boot (booting after a reset) or when the power is on (recovering from Resume Mode).

6.2 Changing Wait Time

The wait time is set to 0 seconds by default (i.e. no connection wait).

You can configure the maximum wait time by changing the settings in the following definition file. Once the maximum wait time has elapsed, the wait state is terminated and the desktop is displayed. The new wait time setting is enabled after rebooting.
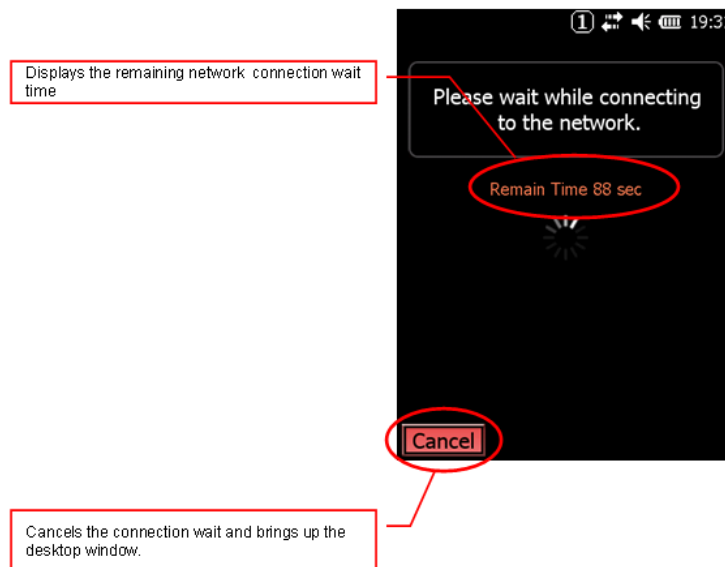
Definition file

Parameter	Details
File format	ANSI INI text file
File path	\Program Files\CASIO\ActiveMenu\ENV\INI\Option.ini

Key list

No	Section	Key	Meaning	Value
1	Version	VER	Version Info	"1.00" (fixed)
2	Option	WAITLANCONNECTTIME	Wait time (secs)	Sets the wait time (secs). Wait is not performed when wait time is set to 0 secs. The maximum configurable wait time is 300 secs.

6.3 Window & Operating Method

The following window is displayed until the WLAN connection is established after rebooting the system or recovering from suspend mode.

Displays the remaining network connection wait time

Cancels the connection wait and brings up the desktop window.

6.4 Changing Messages according to OS Cultural Settings

When changing the message image "Please wait while connecting to the network" appearing in the window in '6.3 Window & Operating Method' above, place the image file of the following name in the same location as the Waitnet.png file in '2.1.2. File configuration' using the same format/size.

Allocation file name: Waitnet.[cultural info].png

Example:
When displaying a culture-dependent image on an OS configured to Japanese cultural settings, place the Waitnet.ja-jp.png file in the same location as the Waitnet.png file.

7. Using Virtual-OFF Mode

7.1 Virtual-Off Mode

The Virtual-Off Mode function detects when the power button is pressed and transitions the system into the following state.

Virtual-Off Mode

Parameter	Mode
Touch Panel	Disabled
Screen	OFF
Key operation	Disabled
APO	Disabled
Power off	Disabled
CPU speed	Low

See the 'System Library Manual' included in Casio's 'Basic Development Kit' for details.

7.2 Enabling the Function

Virtual-Off Mode is disabled by default.

You can configure the Virtual-Off Mode by changing the settings in the following definition file. The new wait time setting is enabled after rebooting.

Definition file

Parameter	Description
File format	ANSI INI text file
File path	\Program Files\CASIO\ActiveMenu\ENV\INI\Option.ini

Key list

No	Section	Key	Meaning	Value
1	Version	VER	Version Info	"1.00" (fixed)
2	Option	FAKEOFFMODE	Enable/Disable	0: Disable 1: Enabled

*When using this function, do not perform power management settings using other applications.

8.　Using Auto Reset

8.1　Auto Reset

This function reboots the system when recovering from Resume Mode for the first time on a given day to ensure system stability.

8.2　Enabling the Function

Auto Reset function is disabled by default.

You can modify the function settings by changing the following definition file settings.
The setting is enabled after rebooting.

Definition file

Parameter	Description
File format	ANSI INI text file
File path	\Program Files\CASIO\ActiveMenu\ENV\INI\Option.ini

Key list

No	Section	Key	Meaning	Value
1	Version	VER	Version Info	"1.00" (fixed)
2	Option	ONEDAYRESET	Set Time (24H)	(without set) : Disable auto reset hh:mm: Enable auto reset (set time) Ex. Case of set to AM 5:00 ONEDAYRESET=05:00 * if there is invalid character or numeric, do not work correctly.

*When using this function, do not perform power management settings in other applications.

8.3   Window Layout

When recovering from suspend, the following window is displayed and a forced reboot is performed after approximately 5 seconds.
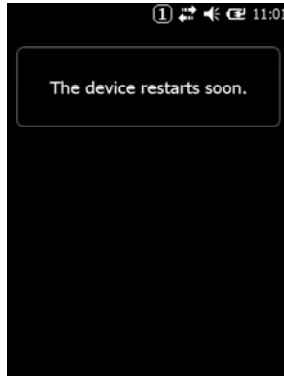
8.4   Changing Messages according to OS Cultural Settings

When changing the message image "The device will restart soon" appearing in the window in '8.3. Window Layout' above according to the OS cultural settings, place the image file of the following name in the same location as the onedayreset.png file in '2.1.2. File configuration' using the same format/size.

Allocation file name: onedayreset.[cultural info].png

Example:
When displaying a culture-dependent image on an OS configured to Japanese cultural settings, place the onedayreset.ja-jp.png file in the same location as the onedayreset.png file.

9.   Using The Module Update Function

9.1   Module Update Function

This function launches the Module Update tool (see attachment 'Mobile Module Update tool' for details) when starting up the Active Menu System.

9.2   Enabling the Function

The Module Update function is disabled by default.

You can modify the function settings by changing the following definition file settings.
The setting is enabled after rebooting.

Definition file

Parameter	Details
File format	ANSI INI text file
File path	\Program Files\CASIO\ActiveMenu\ENV\INI\Option.ini

Key list

No	Section	Key	Meaning	Value
1	Version	VER	Version Info	"1.00" (fixed)
2	Option	MOUPDATE	Wait time (secs)	Configures the wait time (secs) for termination of the Module Update function. When the wait time is set to 0, the function is not executed. The maximum configurable wait time is 6000 secs. The desktop appears after n seconds elapses.

- If module update definition is not enough or mistake, this process will be quit and display menu.
- The WLAN Connection Wait function must be enabled in order to use this function. See '6. USING WLAN CONNECTION WAIT' for details on this function.
- Before using this function, launch the Module Update tool and make sure that it is terminated correctly.
- When using this function, do not perform power management settings in other applications.
- Use module update specification file which specify to exit confirmation dialog automatically at not necessary update timing or complete operation.

9.3   Window Layout

When module update is needed, the following window is displayed.
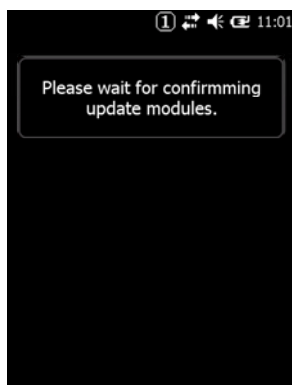
When module update is running, display will change to module update screen.

9.4   Changing Messages according to OS Cultural Settings

When changing the message image "Please wait for confirming update modules." appearing in the window in '9.3. Window Layout' above according to the OS cultural settings, place the image file of the following name in the same location as the waitmoupdate.png file in '2.1.2 File configuration' using the same format/size.

Allocation file name: waitmoupdate.[cultural info].png

Example:
When displaying a culture-dependent image on an OS configured to Japanese cultural settings, place the waitmoupdate.ja-jp.png file in the same location as the waitmoupdate.png file.

10. Notes

10.1 About option.ini file

The following key values is secret option items.
Therefore do not change key values from default setting.

```
[OPTION]
TASKMANAGER=0
TouchToMenu=0
LaunchMenu=0
```