EPSON

EPSON OPOS ADK MANUAL

Installer Manual

Installer

Version 2.30 Jun. 2003

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Section 1. Development Outline

This section describes development outline for the EPSON OPOS ADK.

1.1. Features

EPSON OPOS ADK offers standardized API functions that interface with peripherals used in POS systems through ActiveX controls that can be run in Visual Basic, operating on the Windows 98, Windows NT4.0, Windows XP or Windows 2000 platforms. Through these standardized API functions, you can develop powerful, open POS systems easily.

1.2. Operating Environment

The EPSON OPOS ADK operates under the following environment.

- Computer Hardware
  IBM PC/AT or compatible
- Operating Systems
  Windows 98 SE
  Windows NT 4.0
  Windows 2000
  Windows XP
- Accessible Serial Ports
  COM1, COM2, COM3, and COM4 (extended port functions allow use of COM5 though COM10)
- Accessible Parallel Ports
  LPT1, LPT2, and LPT3 (operation is unverified in LPT3)
- Accessible USB ports
  USB equipment must be connected to the IBM PC/AT compatible machines that are equipped with USB connectors or use USB expansion cards (however, the operating system must be the English version of Windows 98 (second edition recommended), WindowsXP or Windows2000 when USB is used.)
  If the USB device cannot be identified when an IBM PC/AT compatible

machine equipped with a USB connector is in use (especially for machines put on the market prior to the English version of Windows 98 being available), contact the manufacturer.

- Accessible Network

  Ethernet support applies to TCP/IP compliant networks.

  The setup of a compliant network should be handled by a qualified network administrator.

- Supported Languages

  Microsoft Visual Basic Version 5.0 or above

  Microsoft Visual C++ Version 5.0 or above

- Accessible Devices

  Line Displays:

  EPSON DM-D101/102
  EPSON DM-D105/106
  EPSON DM-D110
  EPSON DM-D202/203
  EPSON DM-D205/206
  EPSON DM-D210
  EPSON DM-D102U (USB)
  EPSON DM-D106U (USB)
  EPSON DM-D203U (USB)
  EPSON DM-D206U (USB)
  EPSON DM-D110U (USB)
  EPSON DM-D210U (USB)
  EPSON DM-D500
  EPSON DM-D500U (USB)
  EPSON DM-D102-015 (For EPSON IR Series (Except IM-320))
  EPSON DM-D106-115 (For EPSON IR Series (Except IM-320))
  EPSON DM-D106-315 (For EPSON IR Series (Except IM-320))

  MICR:

  EPSON TM-H5000II with MICR
  EPSON TM-H5000IIP with MICR

EPSON TM-H5000IIU with MICR (USB)
EPSON TM-H5000IIE with MICR (Ethernet)
EPSON TM-H6000 with MICR
EPSON TM-H6000P with MICR
EPSON TM-H6000U with MICR (USB)
EPSON TM-H6000E with MICR (Ethernet)
EPSON TM-U675 with MICR
EPSON TM-U675P with MICR
EPSON TM-U675U with MICR (USB)
EPSON TM-U675E with MICR (Ethernet)
EPSON TM-U950 with MICR
EPSON TM-H6000II with MICR
EPSON TM-H6000IIP with MICR
EPSON TM-H6000IIU with MICR (USB)
EPSON TM-H6000IIE with MICR (Ethernet)
EPSON TM-J7000/J7100 with MICR
EPSON TM-J7000P/J7100P with MICR
EPSON TM-J7000U/J7100U with MICR (USB)
EPSON TM-J7000E/J7100E with MICR (Ethernet)
EPSON TM-H5200 with MICR
EPSON TM-H5200P with MICR
EPSON TM-H5200U with MICR (USB)
EPSON TM-H5200E with MICR (Ethernet)

POS Printers:

EPSON RP-U420
EPSON RP-U420P
EPSON TM-295
EPSON TM-295P
EPSON TM-300A
EPSON TM-300B
EPSON TM-300C
EPSON TM-300D
EPSON TM-H3000R (For EPSON IR Series)
EPSON TM-H5000II
EPSON TM-H5000IIP

EPSON TM-H5000IIU (USB)
EPSON TM-H5000IIE (Ethernet)
EPSON TM-H5000IIM
EPSON TM-H5000IIPM
EPSON TM-H5000IIMU (USB)
EPSON TM-H5000IIME (Ethernet)
EPSON TM-H6000
EPSON TM-H6000P
EPSON TM-H6000U (USB)
EPSON TM-H6000E (Ethernet)
EPSON TM-H6000M
EPSON TM-H6000PM
EPSON TM-H6000MU (USB)
EPSON TM-H6000ME (Ethernet)
EPSON TM-J8000
EPSON TM-J8000P
EPSON TM-J8000U (USB)
EPSON TM-J8000E (Ethernet)
EPSON TM-L60II
EPSON TM-L60IIP
EPSON TM-T88II
EPSON TM-T88IIP
EPSON TM-T88IIU (USB)
EPSON TM-T88IIE (Ethernet)
EPSON TM-T88IIM
EPSON TM-T88IIPM
EPSON TM-T88IIMU (USB)
EPSON TM-T88IIME (Ethernet)
EPSON TM-T88IIR (For EPSON IR Series)
EPSON TM-T88IIRM (For EPSON IR Series)
EPSON TM-T90
EPSON TM-T90P
EPSON TM-T90U (USB)
EPSON TM-T90E (Ethernet)
EPSON TM-U200B
EPSON TM-U200BP

EPSON TM-U200BE (Ethernet)
EPSON TM-U200D
EPSON TM-U200DP
EPSON TM-U200DE (Ethernet)
EPSON TM-U210A
EPSON TM-U210AP
EPSON TM-U210AU (USB)
EPSON TM-U210AE (Ethernet)
EPSON TM-U210AM
EPSON TM-U210APM
EPSON TM-U210AMU (USB)
EPSON TM-U210AME (Ethernet)
EPSON TM-U210AR (For EPSON IR Series)
EPSON TM-U210ARM (For EPSON IR Series)
EPSON TM-U210B
EPSON TM-U210BP
EPSON TM-U210BE (Ethernet)
EPSON TM-U210D
EPSON TM-U210DP
EPSON TM-U210DE (Ethernet)
EPSON TM-U230
EPSON TM-U230P
EPSON TM-U230U (USB)
EPSON TM-U230E (Ethernet)
EPSON TM-U325
EPSON TM-U325P
EPSON TM-U325U (USB)
EPSON TM-U325E (Ethernet)
EPSON TM-U375
EPSON TM-U375P
EPSON TM-U590
EPSON TM-U590P
EPSON TM-U590U (USB)
EPSON TM-U590E (Ethernet)
EPSON TM-U590M
EPSON TM-U590PM

EPSON TM-U590MU (USB)
EPSON TM-U590ME (Ethernet)
EPSON TM-U675
EPSON TM-U675P
EPSON TM-U675U (USB)
EPSON TM-U675E (Ethernet)
EPSON TM-U675M
EPSON TM-U675PM
EPSON TM-U675MU (USB)
EPSON TM-U675ME (Ethernet)
EPSON TM-U950
EPSON TM-U950P
EPSON TM-U230M
EPSON TM-U230PM
EPSON TM-U230MU (USB)
EPSON TM-U230ME (Ethernet)
EPSON TM-J2000/J2100
EPSON TM-J2000P/J2100P
EPSON TM-J2000U/J2100U (USB)
EPSON TM-J2000E/J2100E (Ethernet)
EPSON TM-L90
EPSON TM-L90P
EPSON TM-L90U (USB)
EPSON TM-L90E (Ethernet)
EPSON TM-U210DM
EPSON TM-U210DPM
EPSON TM-U210DMU (USB)
EPSON TM-U210DME (Ethernet)
EPSON TM-H6000II
EPSON TM-H6000IIP
EPSON TM-H6000IIU (USB)
EPSON TM-H6000IIE (Ethernet)
EPSON TM-H6000IIM
EPSON TM-H6000IIPM
EPSON TM-H6000IIMU (USB)
EPSON TM-H6000IIME (Ethernet)

EPSON TM-T88III
EPSON TM-T88IIIP
EPSON TM-T88IIIU (USB)
EPSON TM-T88IIIE (Ethernet)
EPSON TM-T88IIIM
EPSON TM-T88IIIPM
EPSON TM-T88IIIMU (USB)
EPSON TM-T88IIIME (Ethernet)
EPSON TM-L90M
EPSON TM-L90PM
EPSON TM-L90MU (USB)
EPSON TM-L90ME (Ethernet)
EPSON TM-T90M
EPSON TM-T90PM
EPSON TM-T90MU (USB)
EPSON TM-T90ME (Ethernet)
EPSON TM-J2000M/J2100M
EPSON TM-J2000PM/J2100PM
EPSON TM-J2000MU/J2100MU (USB)
EPSON TM-J2000ME/J2100ME (Ethernet)
EPSON TM-J7000/J7100
EPSON TM-J7000P/J7100P
EPSON TM-J7000U/J7100U (USB)
EPSON TM-J7000E/J7100E (Ethernet)
EPSON TM-J7500/J7600
EPSON TM-J7500P/J7600P
EPSON TM-J7500U/J7600U (USB)
EPSON TM-J7500E/J7600E (Ethernet)
EPSON TM-U220A
EPSON TM-U220AP
EPSON TM-U220AU (USB)
EPSON TM-U220AE (Ethernet)
EPSON TM-U220B
EPSON TM-U220BP
EPSON TM-U220BU (USB)
EPSON TM-U220BE (Ethernet)

EPSON TM-U220D
EPSON TM-U220DP
EPSON TM-U220DU (USB)
EPSON TM-U220DE (Ethernet)
EPSON TM-H5200
EPSON TM-H5200P
EPSON TM-H5200U (USB)
EPSON TM-H5200E (Ethernet)

Cash Drawer:

Standard Cash Drawer for TM series (Serial, Parallel, USB, Ethernet)
Multi_A Cash Drawer (2 Drawer) (Serial, Parallel, USB, Ethernet)
Multi_B Cash Drawer (2 Drawer) (Serial, Parallel, USB, Ethernet)

Hard Totals:

EPSON IM-505 NVRAM
EPSON IM-515 NVRAM
EPSON IM-300 NVRAM (For IM-300 (EPSON IR))
EPSON IM-310 NVRAM (For IM-310 (EPSON IR))
EPSON IM-310 CompactFlash (For IM-310 (EPSON IR))
EPSON IM-320 CompactFlash (For IM-320 (EPSON IR))
EPSON IM-600 CompactFlash (For IM-600 (EPSON SR))

MSR:

DM-MR111-012 (For EPSON IR Series (Except IM-320))
DM-MR111-013 (For EPSON IR Series (Except IM-320))
DM-MR123 (For EPSON IR Series)
DM-MS123 (For IM-600 (EPSON SR))
DM-M820 (For MR)

Keylock:

IM-300 (For IM-300 (EPSON IR))
IM-310 (For IM-310 (EPSON IR))
IM-320 (For IM-320 (EPSON IR))

CheckScanner:

EPSON TM-H6000II with Scanner

EPSON TM-H6000IIP with Scanner

EPSON TM-H6000IIU with Scanner (USB)

EPSON TM-H6000IIE with Scanner (Ethernet)

1.3. Necessary System Components

In order to develop an application using OPOS API, the following hardware and software are necessary.

- Computer Body Parts

  IBM PC/AT Interchange Machine
- Operating System

  Windows 98 SE, Windows NT Ver4.0, Windows XP and Windows 2000
- Floppy Disk Drive

  One or more floppy disc drives
- Hard Disk, Memory

  At least 10M bytes hard disk capacity is needed except for recommended blank capacity of using OS (Windows 98, Windows NT 4.0, Windows 2000, Windows XP).
- Disks

  Please confirm that your package contains all the following items.

  Install Disks:

  EPSON OPOS ADK Installation Disk x

  These disks include software, manuals and sample programs.

  Sample Programs:

  EPSON OPOS ADK Install Disk contains practical sample program guides using common API for each device. The method for use is described on the sample program guide. Please copy onto the hard disk as necessary.

  Manuals:

  On-line manuals are included on EPSON OPOS ADK Disk.

  USER'S MANUAL

  Information on EPSON OPOS ADK installation and setup.

  APPLICATION DEVELOPMENT GUIDE

  Programming examples and explanations of factors governing of peripherals. The Application Development Guide is divided into common subjects and device subjects. The common subjects portion contains general information about OPOS and device classes. The device subjects portion contains information for each device. Please refer to common subjects

and device subjects for the device being used.

SAMPLE PROGRAM GUIDE

Contains outlines, detailed explanations, and notes on the sample program included on the EPSON OPOS ADK.

Section 2. Installation

Running the EPSON OPOS ADK Installer program can perform all the processing required for installation of the EPSON OPOS ADK. To ensure optimal use of the OPOS, various functions are offered during installation. Please read this manual for details.
When installing or reinstalling, first ensure that all running application programs are closed; both those use the OPOS files as well as any other applications.
After installing of EPSON OPOS ADK, it is necessary to confirm the setup, such as port and device settings. For details, please refer to "Section 4. SetupPOS Utility" of "EPSON OPOS ADK MANUAL User's Manual (Installer/ SetupPOS/ TMUSB)".
The EPSON OPOS ADK install program is explained in the following.

2.1. Features of the Installer

This Installer is created using InstallShield 5.5.
The Installer performs the following operations:

- Specifies the destination directory for installation
- Specifies the destination start menu folder for installation
- Specifies the initial settings for OPOS
- Specifies REG files
- Installation type
  -- Full installation (all)
  -- Custom installation
    -- Selection of device class units
  -- Selection of CCO/CO
- Uninstallation type
  -- Full uninstallation (all)
  -- Custom uninstallation
    -- Selection of device class units
- Restoration of OPOS environment using REG files
- Inheritance of information from previous version
- Add-in (Service Pack compatible)
- Silent mode installation/uninstallation

2.2. Explanation of Installer Disks

There are multi Installer disks. Swap the disks in accordance with the installation procedure. When installing from CD-ROM, disk swapping is not needed.

2.3. System Files Necessary for Installation

When register DLL and OCX files for use, system files for the following versions or higher are required for installation. The Installer checks in advance for these files, which depend on the machine on which they are installed, and it copies the necessary versions to the System folder under the Windows directory. At this point, please note that if any of the already existing files mentioned below are marked as read-only, they cannot be copied.

MFC42.DLL	Version 6.00.8168.0 *Copyright © Microsoft Corp. 1993-1998
MSVCRT.DLL	Version 6.00.8168.0 *Copyright © Microsoft Corp. 1981-1998
OLEAUT32.DLL	Version 2.40.4275 *Copyright © Microsoft Corp. 1993-1998
STDOLE2.TLB	Version 2.40.4275 * Copyright © Microsoft Corp. 1993-1998
OLEPRO32.DLL	Version 5.0.4275 * Copyright © Microsoft Corp. 1993-1998
COMCTL32.DLL*1	Version 5.80.2614.3600 * Copyright © Microsoft Corp. 1981-1999

*1: Executing 50Comupd.exe provides COMCTL32.DLL.

COMCTL32.DLL is redistributed to a separate disk as well as the DLL installer, 50Comupd.exe. During the OPOS install, the Version of the above DLL will be checked. If it does not exist, OPOS installer will exit. Installer can be resumed following running the DLL update, 50Comupd.exe.

2.4. Installation

<Prerequisite>

When Windows NT4.0, Windows 2000 or Windows XP is used, installation can be done only by authorized users for the PC to be installed. Please request the authorized users for help.

Installation of the EPSON TM USB Driver (EPSON USB controller for TM printer series) is required when the USB POSPrinter, LineDisplay, MICR, CheckScanner and CashDrawer are to be used.
Without the installation in advance, the devices used with USB port cannot be registered normally.
Also, use the Windows 98 Second Edition, Windows XP or Windows 2000 when

EPSON OPOS USB devices are to be used. Regarding the EPSON TM USB Driver, please refer to "Section 5. EPSON TM USB Driver" of "EPSON OPOS ADK MANUAL User's Manual (Installer/ SetupPOS/ TMUSB)".
The following software is used for CheckScanner class.

LeadTools : LEAD Technologies,Inc

Some files that have relation to it are installed with EPSON OPOS ADK.

2.4.1. First Installation

<Installation Procedure>

(1) Run the SETUP.EXE program on disk 1.
If Setup is executed while other program is running, its operation is not guaranteed. It is suggested to close all programs before executing Setup. Startup of the Setup program may take some time.

(2) The “Welcome” dialog is displayed.
Read the contents and then select the [Next] button if agreed with the contents.

(3) The “Software License Agreement” dialog is displayed.
To install the EPSON OPOS ADK, the user must agree to the contents of the displayed agreement. Read the contents and select “I accept the terms in the License” if agreed with the Software License Agreement. After the selection, the [Yes] button becomes effective. Then, select the [Yes] button .*
If the Software License Agreement is not acceptable, select “I do not accept the terms in the License Agreement”. Then, select the [No] button. After the selection, a confirmation message whether you wish to continue or quit the installation is displayed. If you wish to quit the installation, select the [Exit Setup] button. Select the [Resume] button for the continuation. Select the [Exit Setup] button for quitting.
Select the [Back] button for returning to the previous dialog box.

*After the selection of the [Yes] button, a reconfirmation message is displayed. Select the [Yes] button, if agreed. Select the [No] button, if not agreed.

(4) The “Select Registry File” dialog box is displayed.
Select “Use Registry File” to use the REG file. Enter the full path REG file name after the text box is enabled. The default value is “A:\OPOSDATA.reg”. Then, select the [Next] button. Press the [Browse] button to specify the folder name that includes the REG file.

The REG file is a file for restoring information related to EPSON OPOS ADK. Use the SetupPOS utility to create this file. If an improper Registry File is selected, an error message will be displayed and it will not be possible to move to the next dialog box. Follow the directions of the error message and confirm that the Registry File is correct. When the Registry File is set correctly, subsequent information can be referred from the Registry File.
Select the [Back] button to return to the previous dialog box.

(5) The “User Information” dialog box is displayed.
Enter your name and company name. The [Next] button does not become valid unless both are entered.
If this information has already been registered in the machine, this information is displayed. If the Registry File is specified, this information is referred from the Registry File.
When the information has been entered, select the [Next] button.
Select the [Back] button to return to the previous dialog box.
If the [Back] button is selected, the set contents will be canceled.

(6) The “Choose Installation Destination” dialog box is displayed.
The directory that has already been set in the default is displayed.
The default directory is Windows\Program Files/OPOS/Epson2. If the Registry File is specified, this information is referred from the Registry File.
The destination folder cannot be changed.
In order to change the directory, display the directory change screen with the [Browse] button and select the desired directory.
After confirming or changing the directory, select the [Next] button.
Select the [Back] button to return to the previous dialog box.
If the [Back] button is selected, the directory you have set will not be retained. When the [Next] button is pressed, if EPSON OPOS ADK has already been installed in the specified directory by another configuration or language, an error message is displayed and the setting is not accepted. Change the destination or check the EPSON OPOS ADK that has already been installed.

(7) The “Select Install Module” dialog box is displayed.
Select a module to be installed. Selectable modules are “Software (OPOS ADK)”, “Sample”, and “Manual”. After selecting a module, press the [Next] button. Select the [Back] button to return to the previous dialog box.

(8) The “Select CO Type” dialog box is displayed.
Select the CO that has a priority for registration. The CO registered here

will be valid for all devices. (If neither CO nor CCO is registered, specify it using the next “Install Type” dialog box. On this screen, one of the two items must be selected.)
When the type is decided, select the [Next] button.
Select the [Back] button to return to the previous dialog box.

(9) The “Install Type” dialog is displayed.
Select full or custom installation.
For a description of full installation and custom installation, see Section 2. "2.6. Types of Installation" of this manual. If custom installation is selected here, the “Select Components” dialog box is displayed. Select the necessary components.
The device name in the “Select Components” dialog box may be shortened if there is not enough space. "Totals" means "HardTotals".
If neither CO nor CCO is registered, clear the check for Used CO displayed on the right side of the Window. This must be set in each device. This setting enables the users to specify the CO/CCO in each device.
Select the [Next] button to go to the next dialog box. Select the [Back] button to return to the previous dialog box.

(10) The “Select Program Folder” dialog box is displayed.
The previously decided folder name is displayed in “Program Folder”. If the Registry File is specified, this information is referred from the Registry File. Normally, default values should be used. The folder name can be changed, or an existing folder can be selected, but if an existing folder is used, please select it only after obtaining an understanding of the folder’s attributes. If the OS being used is Windows NT 4.0, Windows XP or Windows 2000, the folder must have COMMON attributes.
To go to the next dialog box, select the [Next] button.
Select the [Back] button to return to the previous dialog box.
If the [Back] button is selected, the set folder name will be canceled.

(11) The “Start Copying Files” dialog box is displayed.
This dialog box shows the information that has already been set. Confirm the contents and select the [Next] button.
Select the [Back] button to return to the previous dialog box.

(12) File copy, DLL and OCX registration, and registry setting begin. It may take a few minutes for all the operations to be completed.
The [Cancel] button works at this point, but do not press the [Cancel] button unless there is a particular reason.
Operation after pressing the [Cancel] button is not guaranteed. If pressed, be sure to perform a reinstallation.

(13) When all the operations are completed, the “Setup Complete” dialog box is displayed.
Select in the check box whether or not to display the release notes on the installed EPSON OPOS ADK. It is strongly recommended to read the notes.

(14) When the OS being used is Windows 98, Windows 2000 or Windows XP, an Installation message of EPSON TM USB Driver is indicated.
For using USB devices of EPSON, be sure to click [Yes] button to install it.

(15) When the OS being used is Windows NT4.0, Windows 2000 or Windows XP, a query message asking whether using Parallel I/F is indicated.
For using parallel devices of EPSON, be sure to click [Yes] button to install it. A recommended parallel driver is installed then.

(16) If system files are renewed because of the installation, rebooting of system may be requested. In this case, please specify whether rebooting right away or later, and execute the rebooting.
If later rebooting is specified, make sure to reboot after the completion of the installation. The operation under the un-rebooted environment is not guaranteed at all.

(17) Installation is completed. The SetupPOS utility starts up. Confirm the settings in accordance with the setup described in “Section 4. SetupPOS Utility” of "EPSON OPOS ADK MANUAL User's Manual (Installer/ SetupPOS/ TMUSB)".
When system rebooting is executed, SetupPOS utility does not start automatically. Please start SetupPOS utility from start menu.

2.4.2. Overwriting Installation

2.4.2.1. Overwriting Version 2.xx by Version 2.xx

When performing an overwrite installation, user information, specified installation destination, and specified program folder in the previous installation will remain effective. This information cannot be changed.
If an older version (Version 2.xx) of EPSON OPOS ADK is already installed, when you try to install the new version, Add-in Installation starts. In this case, only the installed devices and files are overwritten. For details, see Section 2. "2.11. Add-in Functions (Service Pack)" of this manual.

<Installation Procedure>

(1) Run the SETUP.EXE program on disk 1.
Before running SETUP.EXE, close the other programs already running. Otherwise, installation may fail. It takes some time for Setup to start. Wait

a while.

(2) The “Welcome” dialog is displayed.
Read the contents and then select the [Next] button if you agree with the contents.

(3) The “ Information” dialog box is displayed.
This dialog box displays information on the settings of the already installed EPSON OPOS ADK. Confirm the contents of the list and select the [Next] button if the contents are satisfactory.

(4) The “Software License Agreement” dialog is displayed.
To install the EPSON OPOS ADK, your agreement with the license agreement is required. Read the contents and select “I accept the terms in the License” if agreed with the Software License Agreement. After the selection, the [Yes] button becomes effective. Then, select the [Yes] button.*
If the Software License Agreement is not acceptable, select “I do not accept the terms in the License Agreement”. Then, select the [No] button. After the selection, a message to confirm whether you wish to continue or quit the installation is displayed. If you wish to quit the installation, select the [Exit Setup] button. Select the [Resume] button for the continuation. Select the [Exit Setup] button for quitting.
Select the [Back] button to return to the previous dialog box.

*After the selection of the [Yes] button, a reconfirmation message is displayed. Select the [Yes] button, if agreed. Select the [No] button, if not agreed.

(5) The “Select Registry File” dialog is displayed.
Select “Not Use Registry File” when the REG file is not used. Then select the [Next] button.
Select “Use Registry File” to use the REG file. Enter the full path REG file name after the text box is enabled. The default value is “A:\OPOSDATA.reg”. Then, select the [Next] button.
The REG file is a file for restoring information related to EPSON OPOS ADK. Use the SetupPOS utility to create this file.
If an improper Registry File is selected, an error message is displayed and it is not able to go to the next dialog box. Follow the directions of the error message and confirm whether the Registry File is correct. When the Registry File is set correctly, subsequent information can be referred from

the Registry File. For overwriting installation, the Registry File information have priority over the previous installation information.
Select the [Back] button to return to the previous dialog box.

(6) The “Select Install Module” dialog box is displayed.
Select a module to be installed. Selectable modules are “Program Files”, “Samples”, and “Manuals”. After selecting a module, press the [Next] button. Select the [Back] button to return to the previous dialog box.

(7) The “Select CO Type” dialog box is displayed.
Select the CO that has a priority for registration. The CO registered here will be valid for all devices. (If neither CO nor CCO is registered, specify it using the next “Install Type” dialog box. On this screen, one of the two items must be selected.) When the CO you want to register differs from the registered CO, release the registered CO after starting copying file.
When the type is decided, select the [Next] button.
Select the [Back] button to return to the previous dialog box.

(8) The “Install Type” dialog is displayed.
Select full or custom installation.
For a description of full installation and custom installation, see Section 2 “2.6. Types of Installation” of this manual. If custom installation is selected, the “Select Components” dialog box is displayed. Select the necessary components.
If neither CO nor CCO has been registered, select the [Change] button. The ”Select Sub-components” dialog box is displayed. Clear both the CO and CCO components, and then select the [Next] button. The “Install Type” dialog box is displayed again. Using this method allows the CO/CCO to be set for each device.
To go to the next dialog box, select the [Next] button.
Select the [Back] button to return to the previous dialog box.

(9) The “Start Copying Files” dialog box is displayed.
This dialog box shows the information that has already been set. Confirm the contents and select the [Next] button.
Select the [Back] button to return to the previous dialog box.

(10) File copy, DLL and OCX registration, and registry setting begin. It may take a few minutes for all the operations to be completed.
The [Cancel] button works at this point, but do not press the [Cancel] button unless there is a particular reason.
Operation after pressing the [Cancel] button is not guaranteed. If pressed, be sure to perform a reinstallation.

(11) When all the operations are completed, the “Setup Complete” dialog box is displayed.
Select in the check box whether or not to display the release notes on the installed EPSON OPOS ADK. It is strongly recommended to read the notes.

(12) When the OS being used is Windows 98, Windows 2000 or Windows XP, and an old version EPSON TM USB Driver is installed or no installation information exist, an installation message of EPSON TM USB Driver is indicated.
For using EPSON USB devices, be sure to click [Yes] button to install it.

(13) When the OS being used is Windows NT4.0, Windows 2000 or Windows XP, and no installation information of parallel driver exist, a query message asking whether using Parallel I/F is indicated.
For using parallel devices of EPSON, be sure to click [Yes] button to install it. A recommended parallel driver is installed then.
When the installation of the parallel driver is successfully done, system files are renewed and a message to query rebooting method is indicated. Please specify whether rebooting right away or later, and execute the rebooting.
If later rebooting is specified, make sure to reboot after the completion of the installation. The operation under the un-rebooted environment is not guaranteed at all.

(14) Installation is complete. The SetupPOS utility starts up. Confirm the settings in accordance with the setup described in “Section 4. SetupPOS Utility” of "EPSON OPOS ADK MANUAL User's Manual (Installer/ SetupPOS/ TMUSB)".
When system rebooting is executed, SetupPOS utility does not start automatically. Please start SetupPOS utility from start menu.

2.4.2.2. Overwriting Version 1.xx by Version 2.xx

EPSON OPOS ADK Version 1.xx can be overwritten only by Version 2.xx. The Version 2.xx overwrites all the components of the Version 1.xx.
When performing an overwrite installation, user information, specified installation destination, and specified program folder in the previous installation will remain effective. This information cannot be changed.

<Installation Procedure>

(1) to (7) are the same as those described in Section 2. “2.4.2.1. Overwriting Version 2.xx by Version 2.xx”.

When overwriting Version1.xx by Version2.xx, specified information such as “Information” , “Chose Installation Destination” , and “Select Program Folder” dialogs are succeeded from Version 1.xx. They cannot be modified.

(8) The “Install Type” dialog is displayed.
Select full or custom installation.
When selecting the custom installation, specify all the devices installed by Version 1.xx.
For a description of full installation and custom installation, see Section 2 “2.6. Types of Installation” of this manual. If custom installation is selected, the “Select Components” dialog box is displayed. Select the necessary components.
If neither CO nor CCO is registered, clear the check for Used CO displayed on the right side of the Window. This must be set in each device. This setting enables the users to specify the CO/CCO in each device.
To go to the next dialog box, select the [Next] button.
Select the [Back] button to return to the previous dialog box.

(9) The “Start Copying Files” dialog box is displayed.
This dialog box shows the information that has already been set. Confirm the contents and select the [Next] button.
Select the [Back] button to return to the previous dialog box.

(10) File copy, DLL and OCX registration, and registry setting begin. During the copying, the confirmation message “Inherit the previous version information?“ is displayed. When overwriting, be sure to select [Yes] button. This ensures that the device information set in Version 1.xx can be used by Version 2.xx. It may take a few minutes for all the operations to be completed.
The [Cancel] button works at this point, but do not press the [Cancel] button unless there is a particular reason. Operation after pressing the [Cancel] button is not guaranteed. If pressed, be sure to perform a reinstallation.

(11) When all the operations are completed, the “Setup Complete” dialog box is displayed.
Select in the check box whether or not to display the release notes on the installed EPSON OPOS ADK. It is strongly recommended to read the notes.

(12) When the OS being used is Windows 98, Windows 2000 or Windows XP, an Installation message of EPSON TM USB Driver is indicated.
For using USB devices of EPSON, be sure to click [Yes] button to install it.

(13) When the OS being used is Windows NT4.0, Windows 2000 or Windows

XP, a query message asking whether using Parallel I/F is indicated.
For using parallel devices of EPSON, be sure to click [Yes] button to install it. A recommended parallel driver is installed then.
When the installation of the parallel driver is successfully done, system files are renewed and a message to query rebooting method is indicated. Please specify whether rebooting right away or later, and execute the rebooting.
If later rebooting is specified, make sure to reboot after the completion of the installation. The operation under the un-rebooted environment is not guaranteed at all.

(14) Installation is completed. The SetupPOS utility starts up. Confirm the settings in accordance with the setup described in “Section 4. SetupPOS Utility” of "EPSON OPOS ADK MANUAL User's Manual (Installer/ SetupPOS/ TMUSB)".
When system rebooting is executed, SetupPOS utility does not start automatically. Please start SetupPOS utility from start menu.

(15) After performing the above procedures, it is possible to uninstall Version 1.xx. To uninstall Version 1.xx, use the uninstaller provided with Version 2.xx.*
* Do not use the Version 1.xx uninstaller after installing the Version 2.xx.

2.4.2.3. Version1.xx and Version2.xx Coexisting Installation

Coexistence implies that the devices of Version 1.xx and the devices of Version 2.xx operate simultaneously. The above versions are able to coexist, but it is recommended to use Version 2.xx alone since there are some restrictions as follows:.

<Restrictions on coexistence>
Hydra settings devices on the same port cannot coexist and be shared between versions.

(Example) Version 1.xx : Printer, Display, Drawer are hydra settings.
Version 2.xx : When printer alone is intended installed.

In this case, the whole settings cannot be succeeded unless Printer, Display and Drawer are also installed in Version 2.xx. Only the printer information is succeeded, and the device settings for Display and Drawer are deleted.

It is not possible for devices with shared keyboard interface to coexist and be

shared by different versions.

(Example) Version 1.xx : MSR, Keylock.
Version 2.xx : When Keylock alone is intended installed.

In this case, the whole settings cannot be succeeded as they are unless both Keylock and MSR are also installed in Version 2.xx. Only the Keylock information is succeeded, and the device settings for MSR are deleted from both versions.

The restrictions apply to the following devices.

COM hydra : Printer, Display, Drawer, MICR, CheckScanner
Keyboard hydra : MSR, Keylock

<Installation Procedure>

(1) to (7) are the same as those described in Section 2. “2.4.2.1. Overwriting Version 2.xx by Version 2.xx”.

(8) The “Install Type” dialog is displayed.
Select full or custom installation.
When custom installation is selected, it is possible to specify only the devices that should be used in Version 2.xx. When choosing this option, be sure that you fully understand the restrictions on information inheritance before making the specifications.
For a description of full installation and custom installation, see Section 2 “2.6. Types of Installation” of this manual. If custom installation is selected, the “Select Components” dialog box is displayed. Select the necessary components.
If neither CO nor CCO is registered, clear the check for Used CO displayed on the right side of the Window. This must be set in each device. This setting enables the users to specify the CO/CCO in each device.
To go to the next dialog box, select the [Next] button.
Select the [Back] button to return to the previous dialog box.

(9) The “Start Copying Files” dialog box is displayed.
This dialog box shows the information, which has already been set.
Confirm the contents and select the [Next] button.
Select the [Back] button to return to the previous dialog box.

(10) Copying of files, registration of DLL and OCX, and setting the registry begins. During the copying, the confirmation message “Inherit the previous version information?“ is displayed. When overwriting, be sure to select [Yes] button. This ensures that the device information set in Version 1.xx

can be used by Version 2.xx. It may take a few minutes for all the operations to be completed. When the [No] button is selected, information on Version 1.xx remains as it is.
The [Cancel] button works at this point, but do not press the [Cancel] button unless there is a particular reason. Operation after pressing the [Cancel] button is not guaranteed. If pressed, be sure to perform a reinstallation.

(11) When all the operations are completed, the “Setup Complete” dialog box is displayed.
Select in the check box whether or not to display the release notes on the installed EPSON OPOS ADK. It is strongly recommended to read the notes.

(12) When the OS being used is Windows 98, Windows 2000 or Windows XP, an Installation message of EPSON TM USB Driver is indicated.
For using USB devices of EPSON, be sure to click [Yes] button to install it.

(13) When the OS being used is Windows NT4.0, Windows 2000 or Windows XP, a query message asking whether using Parallel I/F is indicated.
For using parallel devices of EPSON, be sure to click [Yes] button to install it. A recommended parallel driver is installed then.
When the installation of the parallel driver is successfully done, system files are renewed and a message to query rebooting method is indicated. Please specify whether rebooting right away or later, and execute the rebooting.
If later rebooting is specified, make sure to reboot after the completion of the installation. The operation under the un-rebooted environment is not guaranteed at all.

(14) Installation is completed. The SetupPOS utility starts up. Confirm the settings in accordance with the setup described in “Section 4. SetupPOS Utility” of "EPSON OPOS ADK MANUAL User's Manual (Installer/ SetupPOS/ TMUSB)".
When system rebooting is executed, SetupPOS utility does not start automatically. Please start SetupPOS utility from start menu.

2.4.2.4. Others

When both Version 1.xx and Version 2.xx are already installed and in addition, Version 2.xx is upgraded to Version 2.xx, the method described in Section 2. “2.4.2.1. Overwriting Version 2.xx by Version 2.xx” of this manual applies.

2.5. Files to be installed

The following files are installed when the installation is normally completed.

- Program files
  These files are installed in the directory where the EPSON OPOS ADK is installed. Software files such as CO, SO, utilities, and device information files are included in this directory. To install these files, select “Program Files” in the “Select Install Module” dialog box at installation.
- Include files
  These files are installed in the Include folder under the folder where the EPSON OPOS ADK is installed. Files necessary for the OPOS such as C++ header file, VB header file, and TLB file for CO are included in this directory. To install these files, select “Program Files” in the “Select Install Module” dialog box at installation.
- Sample
  These files are installed in the Sample folder under the folder where the EPSON OPOS ADK is installed. Sample programs for VC++ and VB are included in this directory. To install these files, select “Sample” in the “Select Install Module” dialog box at installation.
- Manuals
  These files are installed in the Manual folder under the folder where the EPSON OPOS ADK is installed. To install these files, select “Manuals” in the “Select Install Module” dialog box at installation
- EPSON TM USB Driver Files
  These files are installed in the Tmusb folder under the folder where the EPSON OPOS ADK is installed. The Installer of EPSON TM USB Driver and related files are included in this directory. Folders are made for each OS and files are copied. These files are inevitably installed.
- Parallel Driver Files
  These files are installed in the Lilac folder under the folder where the EPSON OPOS ADK is installed. The installer of parallel driver and related files are included in this directory. Folders are made for each OS and files are copied. These files are inevitably installed.

2.6. Types of Installation

There are two types of installation: full and custom.
Select the type in the “Install Type” dialog.

- Full installation

Full installation installs all the supported devices. For supported devices, read the release notes included in the Installer disks.

- Custom installation
  Custom installation installs selected devices from the supported devices. Selectable units are device classes. If selecting custom installation in the "Install Type" dialog, the "Select Components" dialog appears. The displayed list shows the devices that can be installed. Check only the devices that you want to install.

2.7. CO Registration

Both CCO and EPSON CO can be installed and registered in EPSON OPOS ADK. In addition, you can also choose to register neither of the two, and thus it becomes possible to use the COs of a previous version or from another company.

When using multiple COs in this way, please note the following precautions.

(When application is created with VB)

(1) Pasting control on form by adding VB component

In this case, character strings applicable to the CO type library is displayed in the "Component" dialog box.
As this character strings is an individual string, it is possible to select the CO to be actually used. If multiple COs are registered, select the CO that you want to use from the list of components.

(2) Creating CO by specifying Program ID using Create Object

In this case, specifies the program ID of the CO.
The program ID is character strings determined by the OPOS specifications.
Ex: the CO of a POSPrinter is "OPOS.POSPrinter".
If multiple COs of the same device class have been registered, the latest one is created.
If this method is used, it is also necessary to pay attention to the order of the registrations of COs.

(3) Creating CO using WithEvent

In this case, it is not possible to create "as Object"; it is necessary to create it "as Class Name".
The CO Class Name may be the same or different.
Before declaring a variable using WithEvent, components are selected using method (1), and the components selected in the "Component" dialog

box can be used.

2.8. INI Files

The INSTALL.INI file contains information copied to the directory that is specified by the installation program. Also, SETUP.INI is a file referred by SETUP.EXE. Make sure these file are always in the same directory as the SETUP.EXE file. Please do not edit these files. If modified, the operation is not guaranteed.

2.9. System Setup Files

There is no need for the user to edit any system files (AUTOEXEC.BAT, CONFIG.SYS, SYSTEM.INI).

2.10. Installation Using the Registry File

Used when a user wants to restore an environment created on one PC to another PC. When the various settings are made with the SetupPOS utility, this information is retained in the registry. With the SetupPOS utility, only the information necessary for the registry is stored in a file. By specifying this file with the Installer, it is possible to restore the same environment.
To use this function, follow the procedure described below.
In this section, the originally created environment is called the “main PC”, and the environment that you want to reconstruct is called “target PC”.

<Procedure>

(1) Install the EPSON OPOS ADK in the main PC, and set the necessary information and the various devices using the SetupPOS utility.
Use the SetupPOS utility to save the registry. At this point, pay attention to the following and create the files.
- Specify “Register All”.

(2) Perform installation on the target PC.
At this point, the following two methods are available. Select the method that suits the environment.
- Installation using the normal installation method.
- Installation using the silent installation method.

For the normal installation method, take the procedures described in 2.4 ”Installation”. For installation using the silent installation method, see Section 2 “2.12. Silent Installation”.
When installing on the target PC, specify the registry file saved in procedure (1).

<Restrictions>

- The Registry File must be created using the SetupPOS utility.
- It is a prerequisite that the Registry File contains the same version information as the version to be installed, or the same information as the installed environment.
- When a registry file is specified using the installer User Interface, install components are not determined automatically. Desired components should be selected using the installer User Interface.
- With the installation using the Registry File, the old version's information is not succeeded.

2.11. Add-in Functions (Service Pack)

The add-in function is a function installing the package containing update requirement only. A service pack is created based on the version exist. (This existed version is called the base version, in this section.) A service pack may be made available when devices are added or some kind of update becomes necessary after the release of the base version. For the latest service pack, please consult the manufacturer.

When you install the service pack, the registry information before the service pack has been installed is saved as a file in the destination folder for installation (file name: "OposReg.reg"). Use this registry file for silent installation of the base version to the target PC.

This function is also used when you overwrite an old version (Version 2.xx) of EPSON OPOS ADK with a new version. In this case, all the installed devices and the files are updated.

<Procedure>

(1) Run the SETUP.EXE file on the service pack disk.
If Setup is executed with other programs' running, its operation is not guaranteed. It is suggested to close all programs before executing Setup.
Startup of the Setup program may take some time.

(2) Displayed message before the installation.
Before the installation, a message about the installed devices or files appears.
For service pack:
If a device included in the service pack is not installed, a warning message appears. This is because devices cannot be added after installing the service pack. (Refer to <Restrictions> below for details.)
To overwrite Version 2.xx with a new version:

If the devices and files included in the new version are not installed, a prompt message appears. All devices or files not listed in the message will be overwritten. To install other files, run the installation again after the update.
Select the [Yes] button to continue. Select the [No] button to cancel the installation.

(3) The “Welcome” dialog is displayed.
Read the contents and then select the [Next] button if you agree with the contents.

(4) The “Software License Agreement” dialog is displayed.
To install the EPSON OPOS ADK, you must agree to the contents of the displayed agreement. Read the contents and select “I accept the terms in the License” if agreed with the Software License Agreement. After the selection, the [Yes] button becomes effective. Then, select the [Yes] button.*
If the Software License Agreement is not acceptable, select “I do not accept the terms in the License Agreement”. Then, select the [No] button. After the selection, a message to confirm whether you wish to continue or quit the installation is displayed. If you wish to quit the installation, select the [Exit Setup] button. Select the [Resume] button for the continuation. Select the [Exit Setup] button for quitting.
Select the [Back] button to return to the previous dialog box.

*After the selection of the [Yes] button, a reconfirmation message is displayed. Select the [Yes] button, if agreed. Select the [No] button, if not agreed.

(5) The “Information List” dialog is displayed.
Information of the installed EPSON OPOS ADK is displayed. Confirm the contents, and then select the [Next] button if the contents are acceptable.

(6) The “Select Registry File” dialog box is displayed.
Select “Not Use Registry File” when the REG file is not used. Then select the [Next] button.
Select “Use Registry File” to use the REG file. Enter the full path REG file name after the text box is enabled. The default value is “A:\OPOSDATA.reg”. Then, select the [Next] button. Press the [Browse] button to specify the folder name that includes the REG file.
The REG file is a file for restoring information related to EPSON OPOS ADK. Use the SetupPOS utility to create this file.

If an improper Registry File is selected, an error message will be displayed and it will not be possible to go to the next dialog box. Follow the directions of the error message and confirm that the Registry File is correct. When the Registry File is set correctly, subsequent information can be referred from the Registry File. When installing by overwriting, the Registry File information will have priority over the installation information of the previous installation.

Select the [Back] button to return to the previous dialog box.

(7) The "Select Installation Module" dialog box is displayed.
Select a module to be installed. Selectable modules are "Program Files", "Samples", and "Manuals".
Installed modules cannot be selected.
After selecting a module, press the [Next] button. Press the [Back] button to go back to the previous dialog box.

(8) The “Start Copying Files ” dialog box is displayed
The dialog box shows the information which has already been set. Confirm the contents and select the [Next] button.
Select the [Back] button to return to the previous dialog box.

(9) Copying of files, registration of DLL and OCX, and setting the registry begins. It may take a few minutes for all the operations to be completed. The [Cancel] button works at this point, but do not press the [Cancel] button unless there is a particular reason. Operation after pressing the [Cancel] button is not guaranteed. If pressed, be sure to perform a reinstallation.

(10) When all the operations are completed, the “Setup Complete” dialog box is displayed. Select in the check box whether or not to display the release notes on the installed EPSON OPOS ADK. It is strongly recommended to read the notes.

(11) When the OS being used is Windows 98, Windows 2000 or Windows XP, and an old version EPSON TM USB Driver is installed or no installation information exist, an installation message of EPSON TM USB Driver is indicated.
For using EPSON USB devices, be sure to click [Yes] button to install it.

(12) When the OS being used is Windows NT4.0, Windows 2000 or Windows XP, and no installation information of parallel driver exist, a query message asking whether using parallel I/F is indicated.
For using parallel devices of EPSON, be sure to click [Yes] button to install it. A recommended parallel driver is installed then.
When the installation of the parallel driver is successfully done, system

files are renewed and a message to query rebooting method is indicated. Please specify whether rebooting right away or later, and execute the rebooting.
If later rebooting is specified, make sure to reboot after the completion of the installation. The operation under the un-rebooted environment is not guaranteed at all.

(13) Installation is completed. The SetupPOS utility starts up. Confirm the settings in accordance with the setup described in “Section 4. SetupPOS Utility” of "EPSON OPOS ADK MANUAL User's Manual (Installer/ SetupPOS/ TMUSB)".
When system rebooting is executed, SetupPOS utility does not start automatically. Please start SetupPOS utility from start menu.

<Restrictions>

- Be sure to install the base version before installing the service pack.
- As long as the service pack version number is higher than already installed service packs it can be installed without installing intermediate service packs. For instance, it is possible to add-in Service Pack Version 3 directly to the base version. It is not necessary to first add-in Service Pack Version 1 or 2.
- It is not possible to install a service pack older version than the one currently installed.
  For instances; after Service Pack Version 3 has been installed, it is not possible to install Service Pack Version 1 or 2.
- The base version cannot be overwritten after installing the service pack. Also, the service pack alone cannot be uninstalled. In other words, after the service pack is installed, later installations of additional devices is not possible. Be sure to reinstall or overwrite the base version and the desired devices before installing the service pack,

2.12. Silent Installation

Installation can be performed without using the user interface. This is called “Silent Installation”. This function uses the Registry File explained in the previous section. Please read the previous section for details. This function is mainly used for installation on the target PC. Please use another installation function using normal user interface on the main PC. For description of target PC and main PC, refer to the previous section.
When executing a Silent Installation, the registry information from the main PC is succeeded.

OPOS ADK Manuals and the Sample Programs cannot be installed when using the Silent Installation function.
To use this function, take the following procedures.

<Procedure>

Install the EPSON OPOS ADK on the main PC, and set the necessary information and the various devices using the SetupPOS utility. Then, save the registry using the SetupPOS utility. Please note the following to create the file:

- Specify “Register All”.
  Perform installation on the target PC.

  Use the command line to specify as described below.

  full path Setup.exe /a”full path registry file name”
  Example: A:\Setup.exe /a“A:\OposReg.reg”

  The functions are added to Silent Installation by adding the following parameters to command lines.
  The following parameters can be used at the same time. If you wish to use them at once, input the parameter you want to use after the parameter added to the command line.
  Parameters do not distinguish capital and small letters. It is not necessary specifying only with small letters as the following examples show.
  <Rebooting after the Silent Installation>
  Adding Parameter : “ /n”
  Example: A:\Setup.exe /a“A:\OposReg.reg” /n

  <Installing EPSON TM USB Driver after Silent Installation>
  Adding Parameter : “ /u”
  Example: A:\Setup.exe /a“A:\OposReg.reg” /u

  <Installing Parallel Driver after Silent Installation>
  Adding Parameter : “ /p”
  Example: A:\Setup.exe /a“A:\OposReg.reg” /p

The result is stored in the log file.

The log file is created with the name “Silence.log” in the target directory. All errors can be referred here. However, before the completion of the installation, the file is created in the root where Windows is (eg. “C:\”) since the target directory is not decided until the completion of the installation. Please ensure no errors exist in the log file after the silent installation.

<How to view Silence.log>

[SilenceMode Log]

Silence Mode Start	: Silence mode starts
[SilenceMode Log End]	: Silence mode ends
ERROR	: Error message
WARNING	: Warning message
INFORMATION	: Information
MESSAGE	: Message

Messages are logged in the same way as the messages listed in Section 2. “2.13. Messages”.

Once the Silence.log file is created, results are added to this file. For the latest result, please see the line, which indicates the start of the latest silent installation.

<Restrictions>

- The registry file is necessary for the silent installation.
- The registry file saved by the base version can be used only for the silent installation of the base version. It cannot be used to install the service pack.
- When installing a service pack with Silent Installation function, registry files have to be made under the condition that the service pack is being installed in advance.. When the environment in which the service pack has been installed is imported to the target PC with the silent installation, first, execute the silent installation with the base version and the registry file for the base version (created automatically in the destination folder for installation during the service pack installation), then execute the silent installation with the service pack and the registry file for the service pack.

EX: Procedures for service pack silent installation

1. Silent installation of the OPOS Version 2.xx by using the following command
   Setup.exe /a"A:\OposReg.reg"
2. Silent installation of the service pack by using the following command
   Setup.exe /a"A:\OposData.reg"

Notes: The registry files such as "OposReg.reg" or "OposData.reg" are the example, which are already saved in the FD.

- When the environment (Main PC) for creating the registry files to be

used is installing EPSON TM USB Driver or parallel driver with this installer, the driver being installed is installed with Silent Installation regardless of parameter's presence. If you wish not to install those drivers to the target PC, please make a registry file with a PC that is not installing respective driver.

- When a parallel driver is installed with Silent Installation, the system rebooting is not executed upon success of installation. For installing the parallel driver with Silent Installation, adding reboot parameter or rebooting after installation is required.

2.13. Messages

The program shows a user message when necessary after the execution or setting of an item selected in a dialog box. Follow the instructions in them. Conditions in which messages appear and the messages themselves are listed below.

2.13.1. Messages at the Time of Startup

Condition	Error Message
A user without administrator authority is attempting to perform installation. (WindowsNT4.0/Windows2000/Windows XP)	The user does not have Administrator authority.
The “Install.ini” file is not found.	There is no "Install.ini” file in the current directory. This installation is closing.
The contents of the “Install.ini” file are illegal and the contents are changed.	The setting files for installation are not found or the contents have been changed.
The registry information is corrupted.	Registry information couldn’t be read.
Installing a previous version over a new version.	Newer OPOS has been already installed.
Attempting to install a special version by overwriting but the special version does not allow overwriting installation.	This version can't be installed in.
Attempting to install a special version by coexistence but the special version does not allow coexisting installation.	This version can't be installed in.
Attempting to install a version that allows overwriting in the condition where a special version that does not allow overwriting installation is already installed.	It can't be installed. It won't replace the OPOS of this version.
Attempting to install a version that allows coexistence in the condition where a special version that does not allow coexisting installation is already installed.	It can't be installed. It won't replace the OPOS of this version.
Attempting to install by overwriting/coexistence when the version allows neither overwriting nor coexisting installation.	The OPOS in the registry files can’t replace the current version, and they can’t coexist either.
A version in different language is already installed.	The language of OPOS of this installation is different from the language of OPOS being installed. It can’t be installed.

The Comctl32.DLL system file is outdated, corrupted, or does not exist.	For EPSON OPOS ADK to run properly, the update of Comctl32.DLL is required. The latest DLL update ca be found and downloaded from the Microsoft web site. (or can be found with the provided disk with OPOS.) Installer can be resumed following running the DLL update, 50Comupd.exe.

2.13.2. Messages during Installation

Condition	Error Message
There is not enough free space in the directory in which EPSON OPOS ADK to be installed.	The necessary free capacity can't be secured to install OPOS.
Another application is using a file to be installed with EPSON OPOS ADK.	A required file may be in use. Close all applications, and install again from the beginning.
Not a single component has been checked for custom installation.	A component isn't being checked.
The registry information contains illegal data.	An illegal result has been returned on the registry information.

Condition	Message
Agreed with the Software License Agreement.	Do you really agree with the License Agreement?

2.13.3. Message during Driver Installation after EPSON OPOS ADK Installation

Condition	Error Message
There is no driver supporting the OS currently used.	The OS currently used is not supported.
The Installation transaction of the parallel driver is failed.	The installation transaction of the Parallel driver is failed.
An error is returned during the installation of the parallel driver.	The Installer of the Parallel driver returned an error.
An unexpected error is returned during the installation of the parallel driver.	An unexpected error is detected.

Condition	Message
There is no USB driver installation information after the completion of the EPSON OPOS ADK installation. (Windows 98／Windows 2000／Windows XP)	Do you want to Install TMUSB driver?
There is no parallel driver installation information after the completion of the EPSON OPOS ADK installation. (Windows NT4.0／Windows 2000／Windows XP)	Do you use Parallel I/F?
A parallel driver is updated normally.	Rebooting is required for using Parallel I/F. If you wish to reboot now, remove disks from drives, then click "Yes" button. If you wish to reboot later, click "No" button.

2.13.4. Messages When the Silence Mode is specified

Condition	Error Message
An illegal value is specified for the silent installation command line.	The form of the command line parameter is illegal. Define it as follows. setup /a“RegData.reg”
An inexistent registry file is specified in the command line.	Registry File specified in the command line parameter cannot be found.
The silence mode’s log file cannot be created.	Failed to make the silence log files.
A unsupported registry file is specified in the parameter	Registry file specified in the command line is illegal.

2.13.5. Messages Related to Registry File

Condition	Error Message
The registry file, which is not being installed, is specified for registry import or the parameter specification at starting up. .	The version recorded by registry file doesn't correspond to the version of this installation.
The coexistence registry file of a version that is not installed is specified at the time of coexisting installation,	The version of the coexistence in the registry file and the version that is now being installed are different.
A registry file that contains coexistence information is specified at the time of sole installation	The coexistence version in the registry file hasn't been installed in the target computer.
A registry file created with a different language version is specified at the time the parameter is specified during registry file selection or startup	The language of OPOS recorded by registry file doesn't correspond to the language of this installation.
A registry file created with a version that is not supported is specified.	The specified registry file contains information on the unsupported version by this installation. This file cannot be used..
An internal processing of the registry file is not performed smoothly due to some reasons.	Failed to make copies of the specified registry file. The selection of registry file is invalid.
Coexisting with a current version, a registry file containing only information on Version 2.xx is specified when registry file is selected or the parameter is specified at startup.	This registry file has information only on this version. When coexistence is installed, it can't be used.

2.13.6. Messages during Coexisting Installation

Condition	Error Message
Coexisting installation with a version that does not support coexistence is executed.	A version of OPOS that cannot work with this version has been already installed. After uninstalling the currently installed OPOS, please install the new version.

2.13.7. Add-in Installation Messages

Condition	Error Message
Installation of an add-in service pack whose language is different from that of the base version is executed.	The language of OPOS of this installation is different from the language of OPOS being installed. It can't be installed.
Installation of an add-in service pack over a wrong base version is executed.	The installed version is not supported.
Installing a base version in the condition where an add-in service pack has been installed.	The service pack has been already installed in the OPOS.
Installing a service pack alone without its base version is being installed.	The OPOS base version for this service pack has not been installed.
Devices and files included in the add-in service pack have not been installed in the base version.	The following devices and files cannot be installed after the installation of service pack x. ---- ---- It is recommended to have them installed before installing service pack x in case they are needed in the future. Proceed with installation?
The devices and files included in the full package are not installed yet	The following devices and files included in Version 2.xx are not installed. ---- ---- Only installed files are updated. To install other files, run the installation again. Proceed with installation?

2.14. Precautions for Installation

- Overwriting installation is not possible when an EPSON OPOS ADK of different version or language (US version, Japanese version) has already been installed.
- It is not possible to read registry information files stored in an EPSON OPOS ADK of different version (including the service pack) or language (US version, Japanese version).
- Be sure to install the devices stated in the REG file information that is specified in the registry file import (that is, the devices that had already been installed or registered when the Setup POS utility stores to the REG file). If these do not match, operation cannot be guaranteed.

  REG file information : POSPrinter, LineDisplay, MSR
  Installed device : MSR

  If such a setting is made as shown above, a conflict is generated, as it is only the settings of the POSPrinter and LineDisplay that will become valid whereas the actual files do not exist.
- If the installation fails for some reason, or it is canceled during the execution, be sure to perform a reinstallation. In the condition where installation has failed or been canceled, the settings, etc. may not be completely removed even if uninstallation is performed. EPSON OPOS ADK may malfunction due to the failure of the first installation even after the reinstallation. It is recommended to uninstall EPSON OPS ADK and install it again.
- When using USB POSPrinter, MICR, LineDisplay, CheckScanner and CashDrawer, install the Epson TM USB Driver (Epson USB controller for TM printer series) in advance. It is not possible to install the USB OPOS information unless the Epson TM USB driver is installed. Users of the EPSON TM USB Driver should refer to "Section 5. EPSON TM USB Driver" of "EPSON OPOS ADK MANUAL User's Manual (Installer/ SetupPOS/ TMUSB)".
- When Version 1.xx and Version 2.xx are installed coexisting, the operation of Version 2.xx will not be normal if the uninstaller of Version 1.xx is used. Be sure to uninstall Version 2.xx first, or use the uninstaller of Version 2.xx to uninstall Version 1.xx.
- If Version2.xx is uninstalled under the coexisting environment of Version1.xx and Version 2.xx, the subsequent behavior of Version1 is not guaranteed. In such a case, reinstall Version 1.xx and make the prescribed settings.
- You can install and uninstall CCO using the SetupPOS utility; subsequently, however, the CCO registration information and the Installer cannot be synchronized.

When CCO is registered by the SetupPOS utility while CCO is not installed by the Installer, or when CCO is released by the SetupPOS utility while CCO is installed by the Installer, the Installer message may not be appropriate.

- When installing over another version or changing the registration of CCO/CO while installing the same version, the settings of the trace function cannot be succeeded. All the settings you made are returned to the default settings. After re-installing, set the trace function again before using it. If both Version1.xx and Version2.xx exist at the same time and "Trace All" is selected for each version, only trace of either one of the versions can be taken.
- When the reboot setting after the Silent Installation is being specified, the system reboots automatically after the installation. The data being edited should be saved or terminated before the installation.
- When installation of parallel driver with this installer is succeeded, please make sure to reboot the system. The rebooting enables the use of recommended parallel driver.
  Please note that if the system is not rebooted, the operation is not guaranteed at all.
- Upon completion of the installation, a Tmusb folder that stores the installer of EPSON TM USB Driver and a Lilac folder that stores the installer of recommended parallel driver are created at the target folder.
  Even if these drivers are not installed with this installer, they can be installed by execution of their installers later on.
  However, please do not install those drivers to the OS that is not supporting the drivers. If any problem occurs by the installation of an unsupported driver, operation is not guaranteed.

2.15. Uninstallation

The provided Uninstaller must be used to uninstall an installed EPSON OPOS ADK program. The following methods are available for uninstallation.

- Choose “Add/Remove Programs” in the Control Panel, and then select “EPSON OPOS ADK Version2.xx”.
- Running Uninstaller.exe in the directory in which the program is installed.

In both cases, the EPSON OPOS ADK uninstaller is executed.

When uninstalling, first make sure that all running applications are closed; both those used by OPOS as well as any other applications.

However, when using WindowsNT4.0 / Windows2000/ WindowsXP, only privileged users can use install programs. Please consult a user who has privilege for the machine.

2.16. Uninstallation Procedures

Perform uninstallation using either of the methods prescribed.

(1) The “Information...” dialog box is displayed.
This dialog box displays the version(s) compatible with the Uninstaller. Confirm that the version to uninstall using the Uninstaller is listed. To continue, select the [Yes] button. To cancel the operation here, select the [No] button.

(2) The “ADK Selection” dialog box is displayed.
All the currently installed EPSON OPOS ADK versions are displayed. Select the version to uninstall. Multiple versions cannot be selected. If you check the Complete uninstall of selected OPOS ADK check box, full uninstallation is performed. If the check mark is removed, it is possible to select the device(s) to be removed. When the selection has been made, select the [Next] button. If checked, go to step (4).
To return to the previous dialog, select the [Back] button.

(3) The “Selection of Devices to Delete” dialog box appears.
The “Selectable devices” window shows the currently installed devices. Select a device to be deleted, and then press the [Remove] button. The device is moved to the “Devices to delete” window. To return to the “Selectable devices” window, press the [Add] button. Move devices from the “Selectable devices” window to “Devices to delete” the window. To move all the devices shown in the “Selectable devices” window to the “Devices to delete” window, press the [All] button. All the devices are moved. When the selection is done, select the [Next] button.
To return to the previous dialog, select the [Back] button.

(4) The “Confirm Deletion” dialog appears.
Information related to the uninstallation is displayed. Confirm the contents. Uninstallation starts when the [Start] button is selected. To return to the previous dialog without starting deleting, select the [Back] button if you do not want to start deleting.

- The uninstallation process starts. A progress bar indicates the status of the uninstallation.
- A message indicating completion is displayed on the progress bar when the uninstallation is completed.

2.17. Types of Uninstallation

There are two types of uninstallation: full and custom. The types of uninstallation can be selected by “Completely remove the selected ADK configuration” check box in the “Select ADK Version” dialog box.

Full uninstall
Deletes all the devices registered in the selected version.

Custom uninstall
Select the devices to be uninstalled from all the devices registered in the selected the devices using the “Selection of Devices to Delete” dialog box. The device can be specified by device classes.

2.18. Silent Uninstallation

It is possible to perform uninstallation without using the user interface. This is called Silence Uninstall. When Silence Uninstall is used, only full uninstallation is performed. Specify in the command line as follows:

Uninstaller.exe /S

When only /S is specified as the parameter, the currently installed program is uninstalled. This parameter can only be used when only one version is currently installed. If multiple versions are installed, an error message is displayed. When multiple versions are installed, specify as follows.

Uninstaller.exe /S“Version”
Example: Uninstaller.exe /S“1.90”

2.19. System Files

MFC42.DLL, MSVCRT.DLL, OLEAUT32.DLL, STDOLE2.TLB, etc. are not deleted from the system directory.

2.20. Messages

The Uninstaller program shows user messages when necessary after the execution of dialog boxes or making of settings. Follow the instructions in them. Conditions in which messages appear and the messages themselves are listed below.

Condition	Error Message
A user who does not have Administrator authority is attempting to perform uninstallation.	Administrator Access Required. Execute this program from an account with administrative access.
The Uninstaller is started while OPOS is not installed.	OPOS is not installed.
The Uninstaller of a version in a different language was executed.	The target language of OPOS is not installed.
The Uninstaller does not have the required information.	Internal Error Occurred. Premature program termination required. Some component may not have been deleted. Please manually delete remaining components.
The registry contains illegal information.	Unable to open registry. Program terminating.
The required information was not found in the registry.	Unable to get required information from registry. Program terminating.
Other files have been copied to the installation directory.	Unable to remove directory. Remove directory manually.
An illegal value has been entered on the command line.	Invalid Parameter. Required format is: Uninstaller /s“X.xx”
The version that is not installed is specified as the command line parameter.	Version not installed or invalid command parameter.
The file to be uninstalled is being used by another application.	Xxx is being used by other application. To delete this file, exit the application using the file and push the [Retry] button. To leave this file, push the [Cancel] button.
Only the /S parameter is specified on the command line when multiple versions of OPOS are installed.	There is more than one installed version of OPOS. Use the command line option Uninstaller /s“X.xx” to uninstall a specific version or execute the user interface version.

2.21. Precautions for Uninstallation

- Uninstallation is not possible when an EPSON OPOS ADK of different version or language (US version, Japanese version) is installed.
- The uninstallation is executed on the condition that OPOS-related files are not in use. If OPOS-related files are in use, a message that files cannot be deleted is displayed. When this message is displayed, close the application that is using the OPOS-related files. Then try again to continue the uninstallation process. If uninstallation is not retried, files alone will remain in the directory.
- Close Explorer for executing Uninstaller. Smooth removal of the directory may fail if this is neglected, particularly in the case of Windows NT4.0.
- This uninstaller does not uninstall the EPSON TM USB Driver and the recommended parallel driver that are provided by the installer. However, the system operation is not affected by those drivers.