



**EPSON JavaPOS ADK**

# **Installation Guide**

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## Notes

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# Chapter 1 Introduction

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The following hardware and software configuration is required when installing EPSON JavaPOS ADK. Please refer to the “EPSON JavaPOS ADK Installation Guide for Linux.txt” for downloads and detailed installation instructions.

- Computer
  - IBM PC/AT compatible
    - Please follow the specifications recommended by your OS for system requirements (CPU, RAM, etc.).
    - A minimum of 10 MB of available hard disk space is required.
  
- Supported Operating systems
  - Windows XP Professional Service Pack 3
  - Windows Vista (Business/Enterprise/Ultimate) Service Pack 2
  - Windows Server 2008 Service Pack 2
  - Windows Server 2008 R2 Service Pack 1
  - Windows 7 (Professional/Enterprise/Ultimate) Service Pack 1
  - Windows Embedded Standard
  - Windows Embedded Standard 7
  - Windows 8
  - Windows 8.1
  - Windows 10
  - Windows Server 2012
  - Windows Server 2012 R2
  - Red Hat Enterprise Linux 6.6
  - Red Hat Enterprise Linux 7.0
  - SuSE Linux Enterprise 11.3
  - SuSE Linux Enterprise 12.0
  - CentOS Linux6.6
  - CentOS Linux7.0
  - Ubuntu 14.04
  
- Java Virtual Machine
  - Java Standard Edition 7 Update 75

Java Standard Edition 8 Update 40  
See "2.1 Install Java"

## Chapter 2 Installation

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### 2.1 Install Java

Java must be installed on your system before you can run the installer. This can be downloaded from <http://www.sun.com/java/>.

**Users:** Install the Java Runtime Environment (JRE).

**Developers:** Install the Java Development Environment (JDK).

Note that Java version 1.7.0\_75 or higher is required.

### 2.2 Install Java Advanced Imaging (JAI)

Java Advanced Imaging (JAI) must be installed in order to use the JavaPOS ADK. This is necessary for printing BMP files on the POSPrinter, and for the CheckScanner. This is not included with the JavaPOS ADK installer.

Please refer to the following website for downloads and detailed installation instructions:

<http://www.oracle.com/technetwork/java/current-142188.html>

**Users:** Install the Java Runtime Environment (JRE) version.

**Developers:** Install the Java Development Environment (JDK) version.

To install JAI with 64-bit Java on Windows operating systems, download and run the jai-1\_1\_3-lib-windows-i586.exe installer. After installation, copy jai\_codec.jar and jai\_core.jar into the 64-bit Java's ext folder.

## 2.3 Configure your environment

Configuring the environment on Windows is only necessary for application developers.

**Windows:** For more information, refer to: Chapter 6 Windows Information

## 2.4 Start the Installer

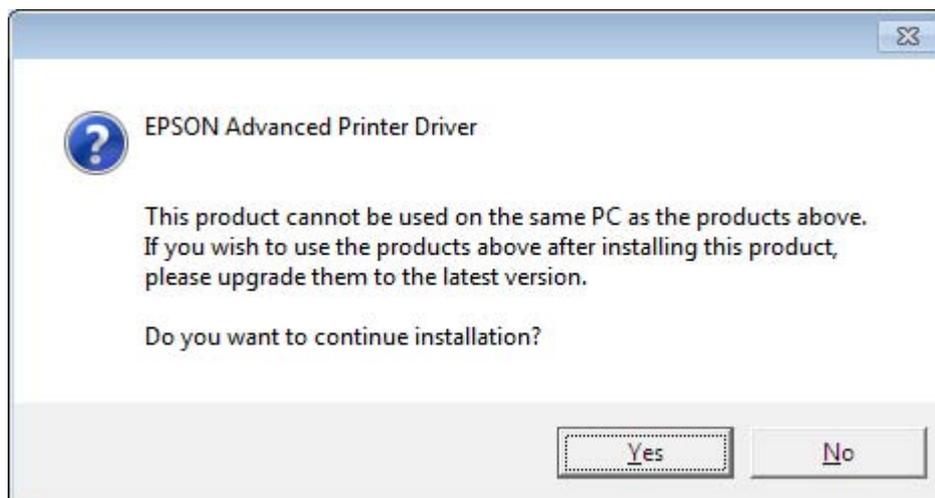
The installer for Windows is “Epson\_JavaPOS\_ADK\_1141.exe”.

**Windows:** To run the installer, double-click on it.

Note: The installer should be run with Administrator (Windows) privileges. Failure to do so may result in unexpected behavior and the installation may not be successful.

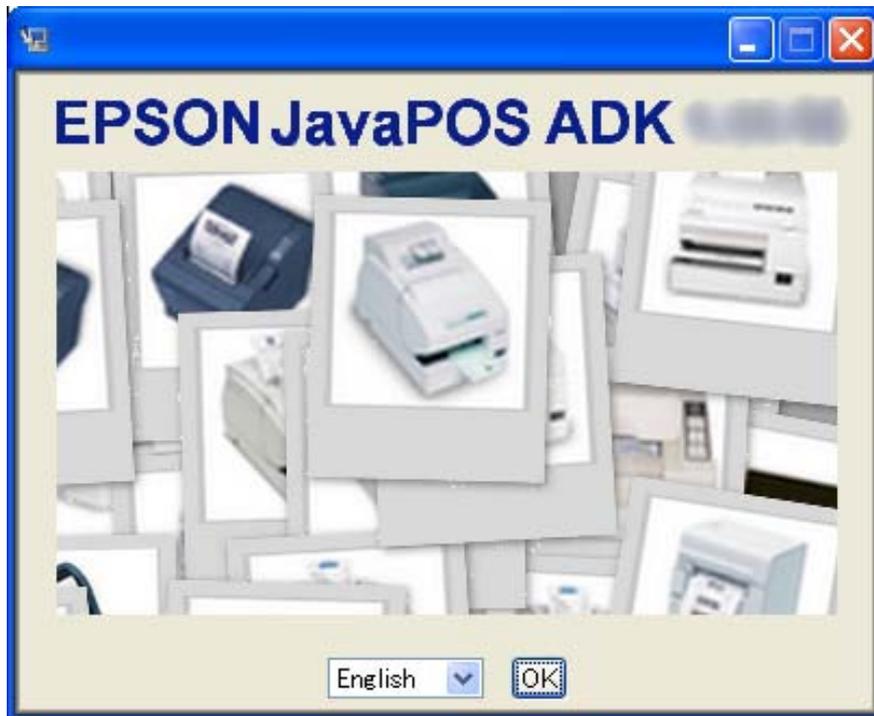
Note:

The following message will appear when an installed version of Epson software is incompatible with this version. Choose whether to continue the installation according to the message. (Windows only)



## 2.5 Select the Language

Select a language to use for the installation and click 'OK'.



## 2.6 Pre-Installation checks

The following is checked before proceeding with the install:

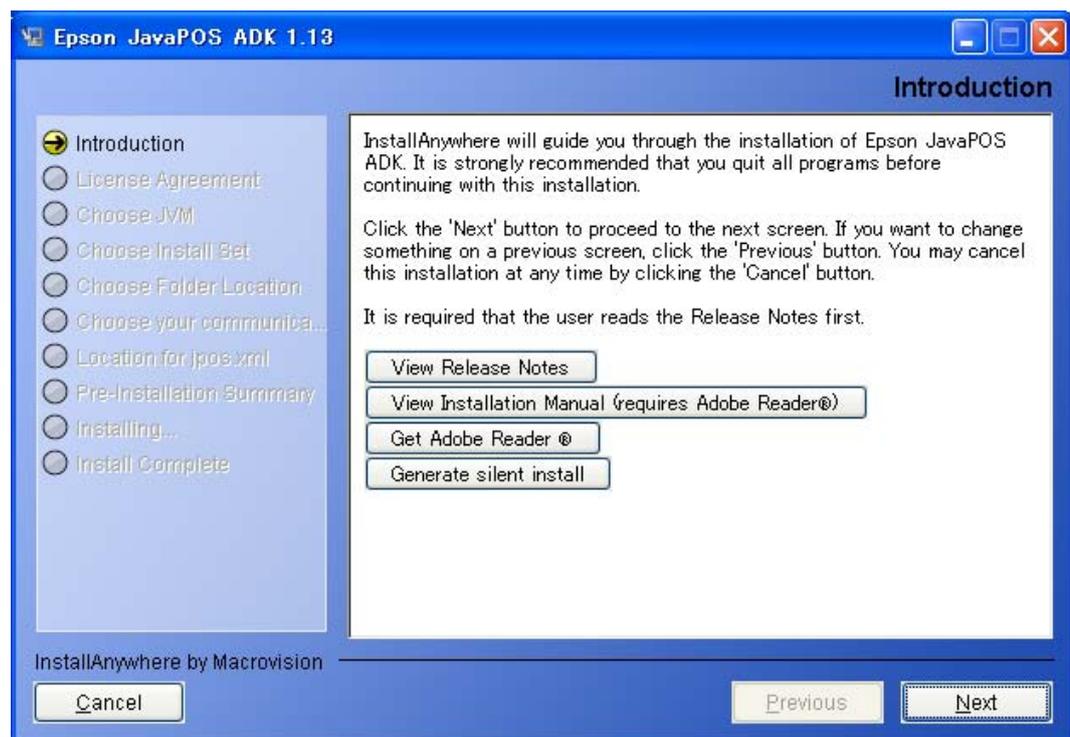
- Multiple instances of the Installer should not be run as it may result in an unexpected behavior. If multiple instances are found, then the installer will display an error message and exit.
- If the system already has the newer or the same version of the software installed, then the installer will display an error message and exit.
- If the system has an older version of JavaPOS ADK installed, then the installer will use the default values from the last install. It will uninstall the previous version and install the new version with the old values. If this upgrade is being performed, after the License Agreement screen, the Upgrading screen will be shown. See section [2.16](#) for details on this.
- If the installer is not run with Administrator (Windows) privileges, then it will display an error message and exit.

## 2.7 Introduction

At this screen, there are a couple of choices.

- Click the 'View Release Notes' button to view the release notes.
- Click the 'View Installation Manual' button to view the Installation manual. This manual is in Adobe Portable Document Format (PDF). If your system does not have a reader to view that file, download one by clicking on 'Get Adobe Acrobat Reader' button.
- Click the 'Generate silent install' button to generate a properties file to be used by silent installer. See Chapter 4 Silent Installation/Uninstallation for more details. To create the silent installer, the installer should not be run from a read-only medium like a CD-ROM as it creates the silent installer properties file in the same location.

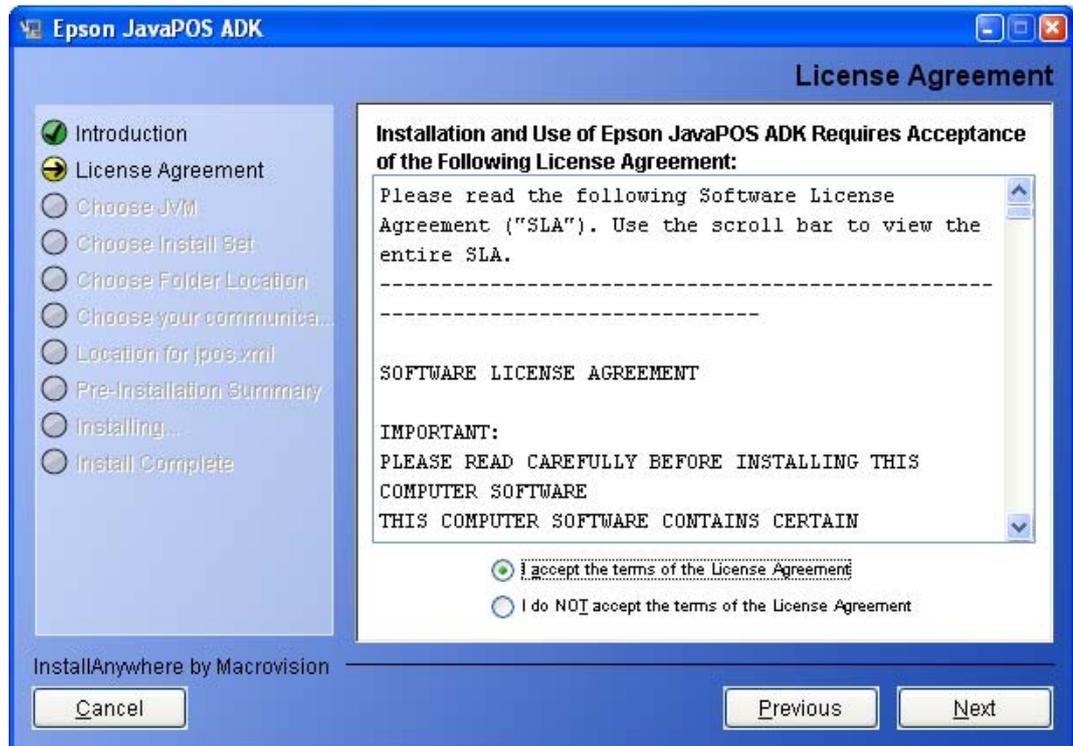
Click Next to continue installing the software.



## 2.8 License Agreement

The user must agree to the License Agreement to continue with the installation. After reading the entire agreement, select “I accept the terms of the License Agreement” and then click Next.

If “I accept the terms of the License Agreement” is not selected, Next is not enabled.



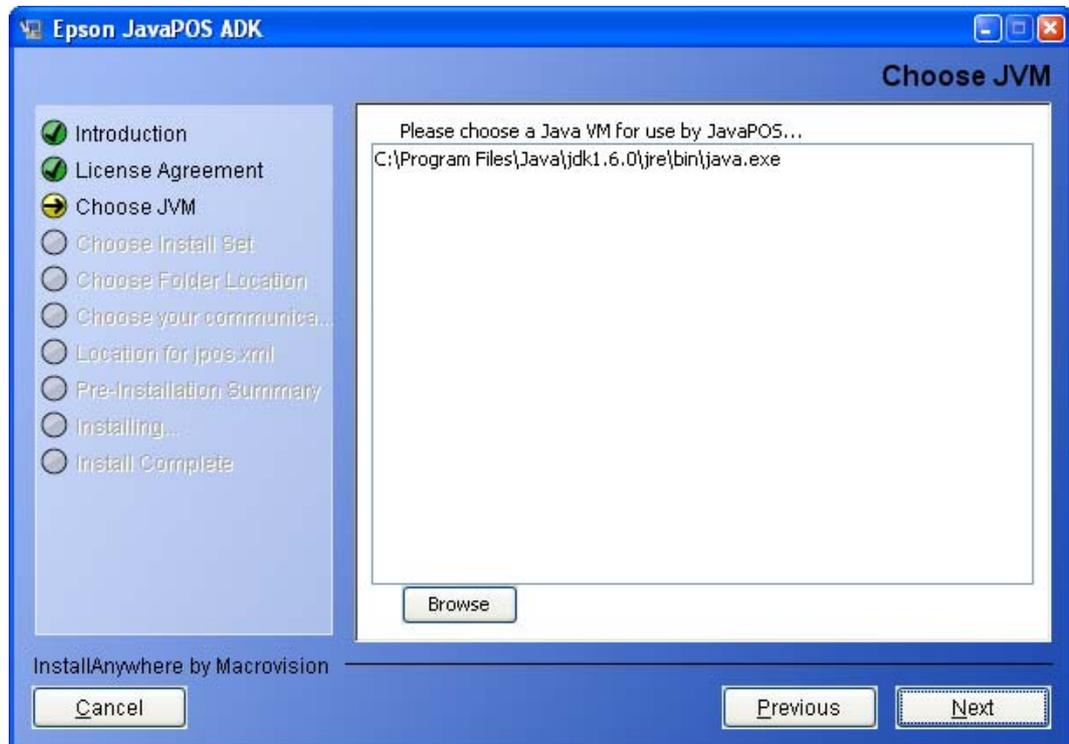
At any time, the user clicks on “I do not accept the terms of the License Agreement”, the following screen appears.



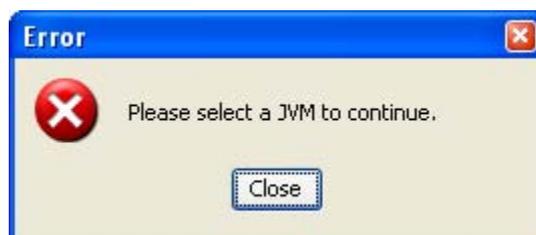
## 2.9 Select a Java Virtual Machine

A Java Virtual Machine (JVM) is required to run JavaPOS ADK 1.14.1.

The supported JVM is Sun JVM version 1.7.0\_75 and higher. This list is automatically populated with the JVM found on the system. Select a JVM to use.



If no JVM is selected, the following message will appear and the installation will stay at the JVM screen.



User can select a JVM not found by the installer by clicking the 'Browse' button. If an unsupported JVM is selected, the following message will be displayed.



## 2.10 Selecting the Type of Installation

Select the type of installation to run and click Next.

- Selecting Developer installs the Services, Setup utility, Check Health utility, Documentation and Samples.
- Selecting User installs the Services, Setup utility and Check Health utility.
- Selecting Custom allows you to select installation options.

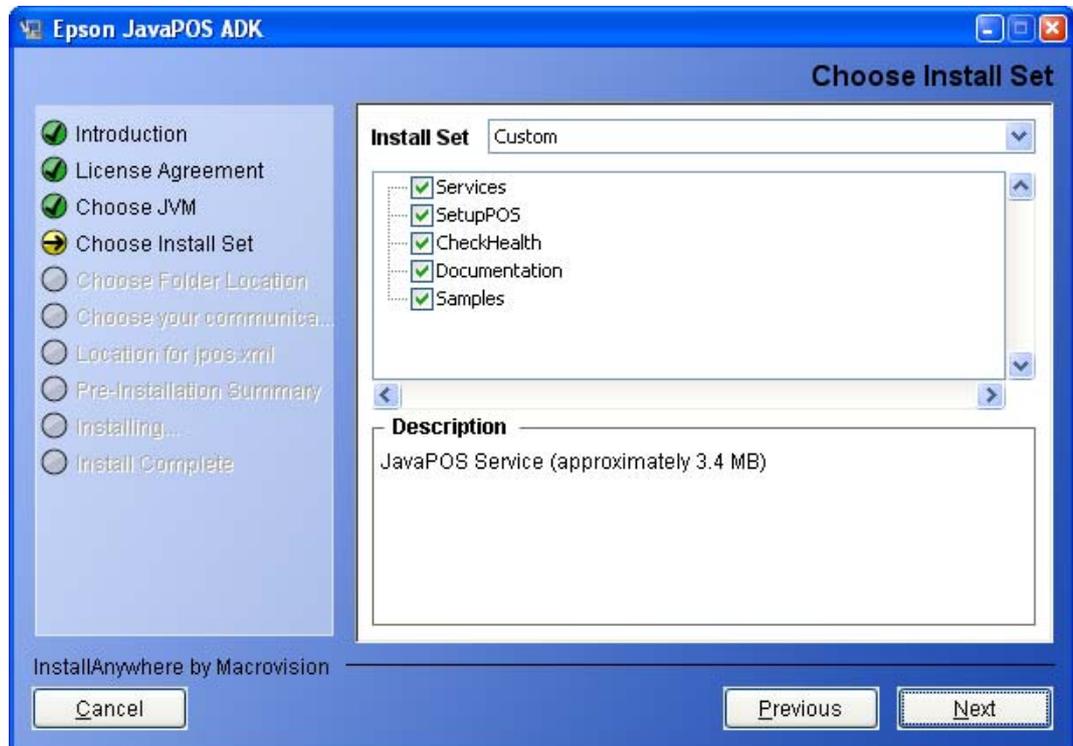


When Custom is selected, the user can customize the components installed. The user can also select the installation folder locations.

## 2.11 Selecting Components to Install

Select the components to install and click Next.

At least one component must be selected to proceed with the installation.



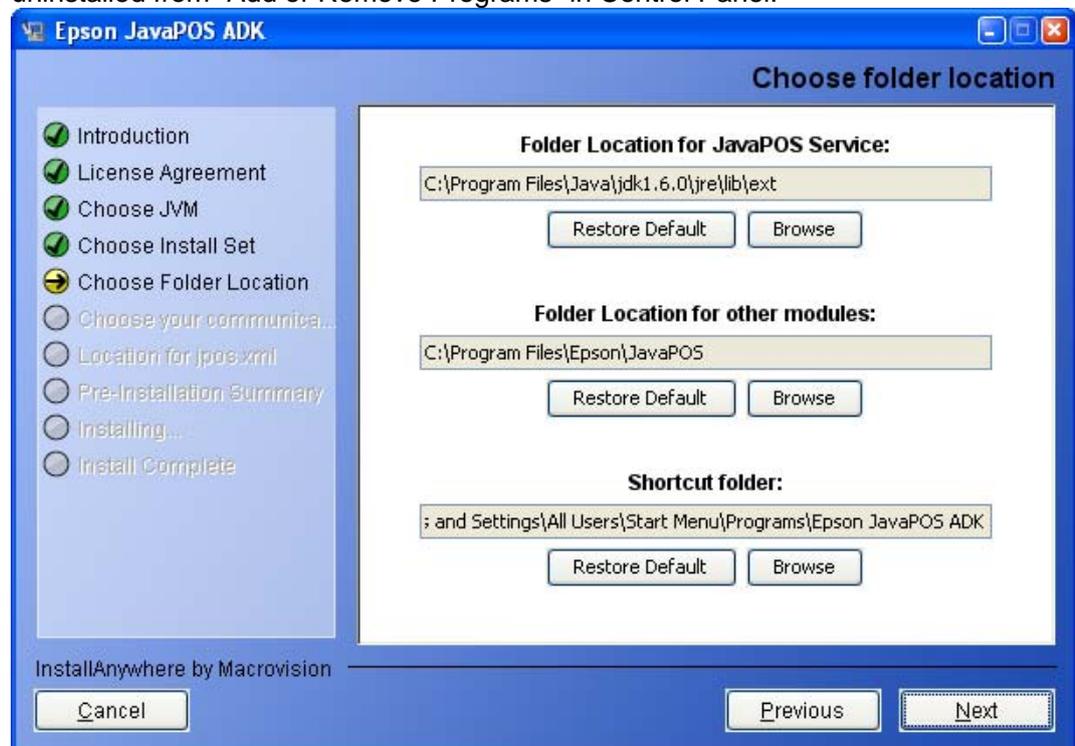
## 2.12 Selecting Shortcut Folders

When the custom set is selected, the user is given the choice to select installation folder locations for the different modules. A default location is given in each scenario. The 'Restore Default' button resets to the default location.

The default location for JavaPOS Services is '%JAVA\_HOME%\lib\ext'.

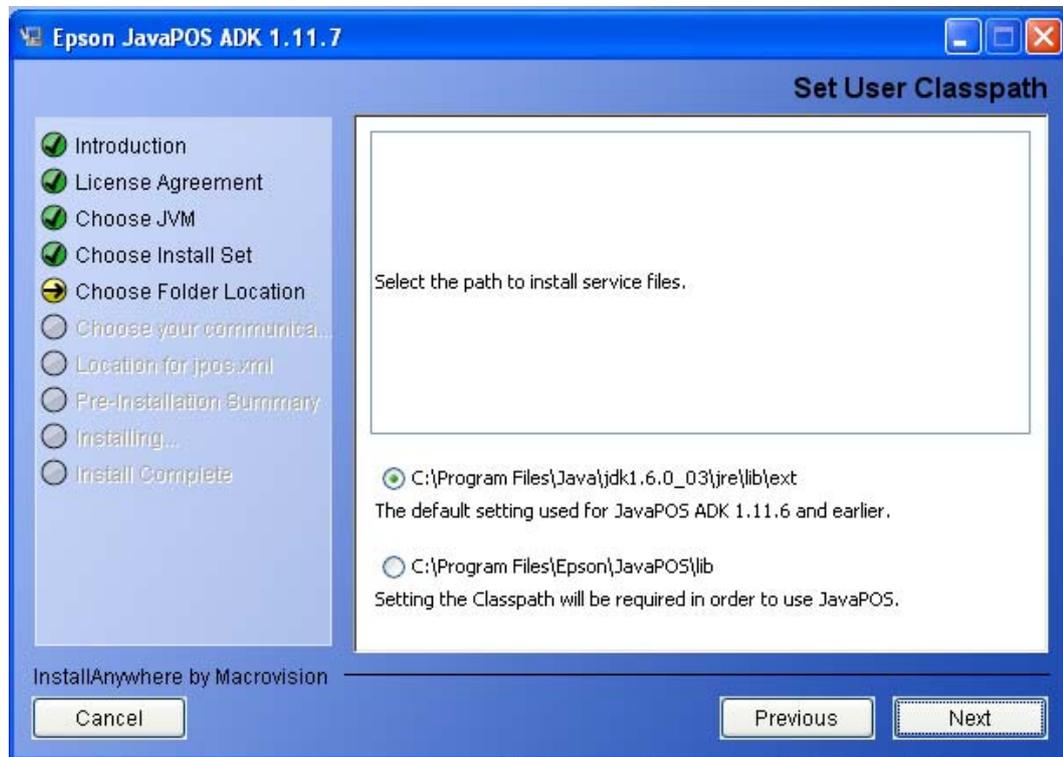
The default location for other modules (SetupPOS, CheckHealth, Documentation, Samples) is 'Program Files\Epson\JavaPOS' in Windows. The default location for shortcut folder is the 'All Users\Start Menu\Programs\Epson JavaPOS ADK' in Windows.

The shortcut folders in Windows do not include the Uninstall link. It can be uninstalled from "Add or Remove Programs" in Control Panel.



## 2.13 Selecting the User Classpath

Select the Classpath for the service files and then click Next.

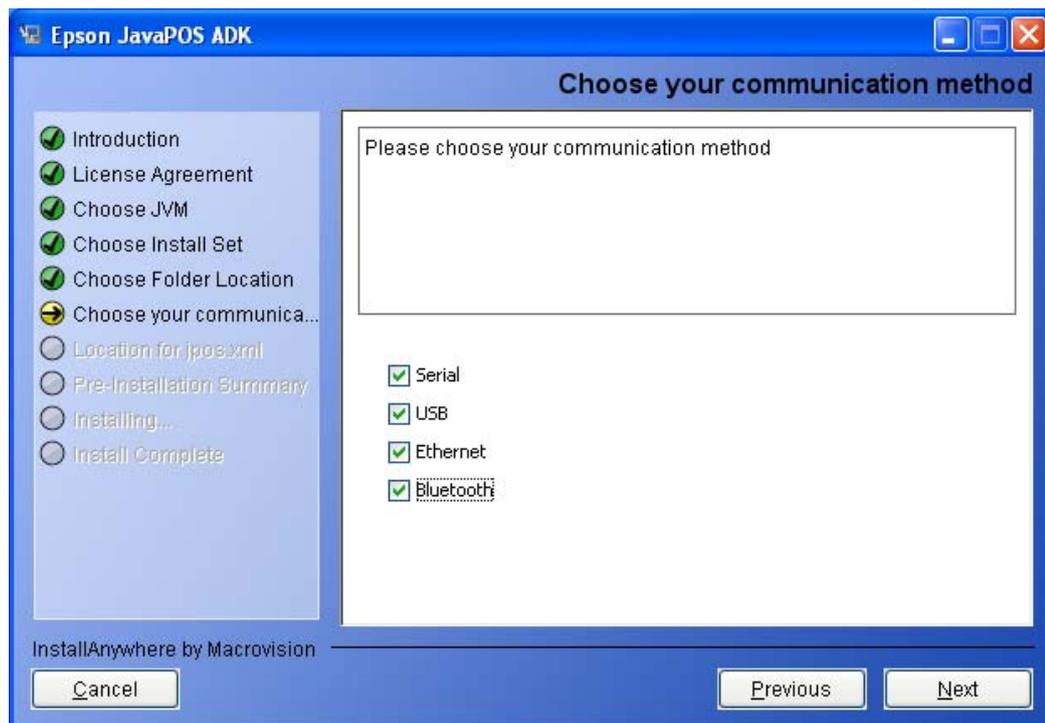


## 2.14 Selecting the Communication method

Select the communication method used by POSPrinter (Serial, USB, Ethernet or Bluetooth) and then click Next. One of the communication methods must be selected to continue.

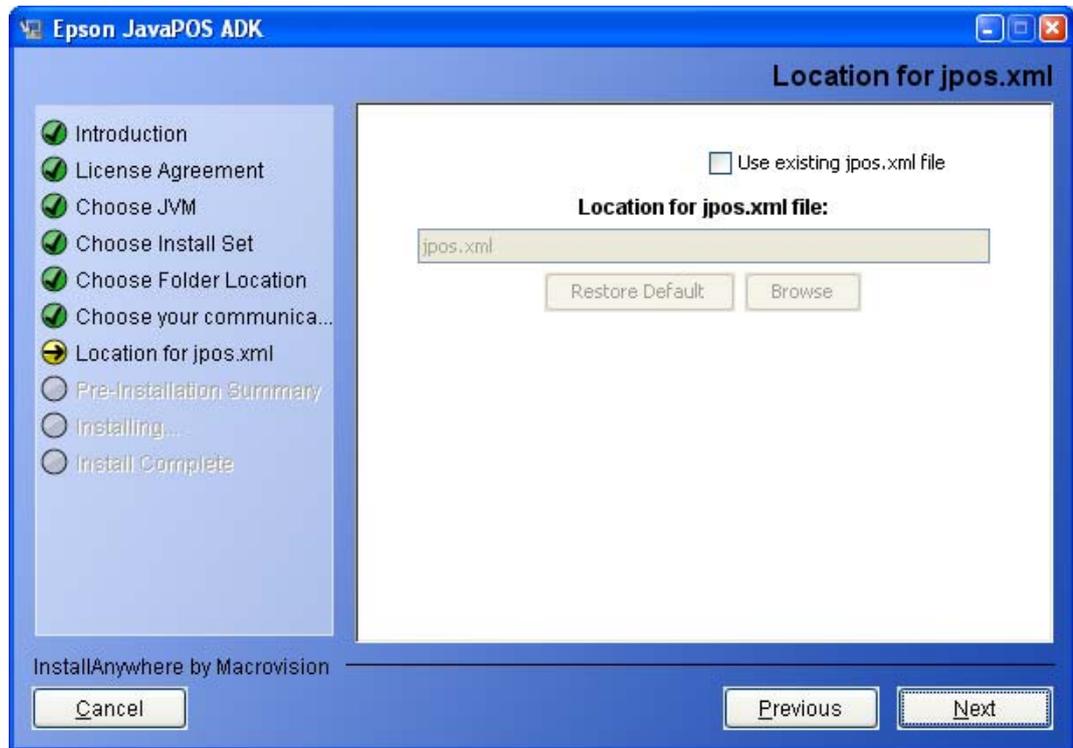
If USB is selected, TMUSB is installed.(Windows only)

You can select multiple connection methods.



## 2.15 Location for jpos.xml

The location for jpos.xml screen is used to import an existing jpos.xml file, a file that contains the configuration information for devices. If you want to use an existing file, check the Checkbox to enable the file chooser and then select the jpos.xml file to use.



To import device configuration settings

1. Select to use "Location for jpos.xml file" during installation.
2. After installation, copy and overwrite the communication properties file in the appropriate location.

For Windows XP, the file is located at

`%APPDATA%\EPSON\portcommunicationservice\pcs.properties`

For Windows Vista or later, the file located at

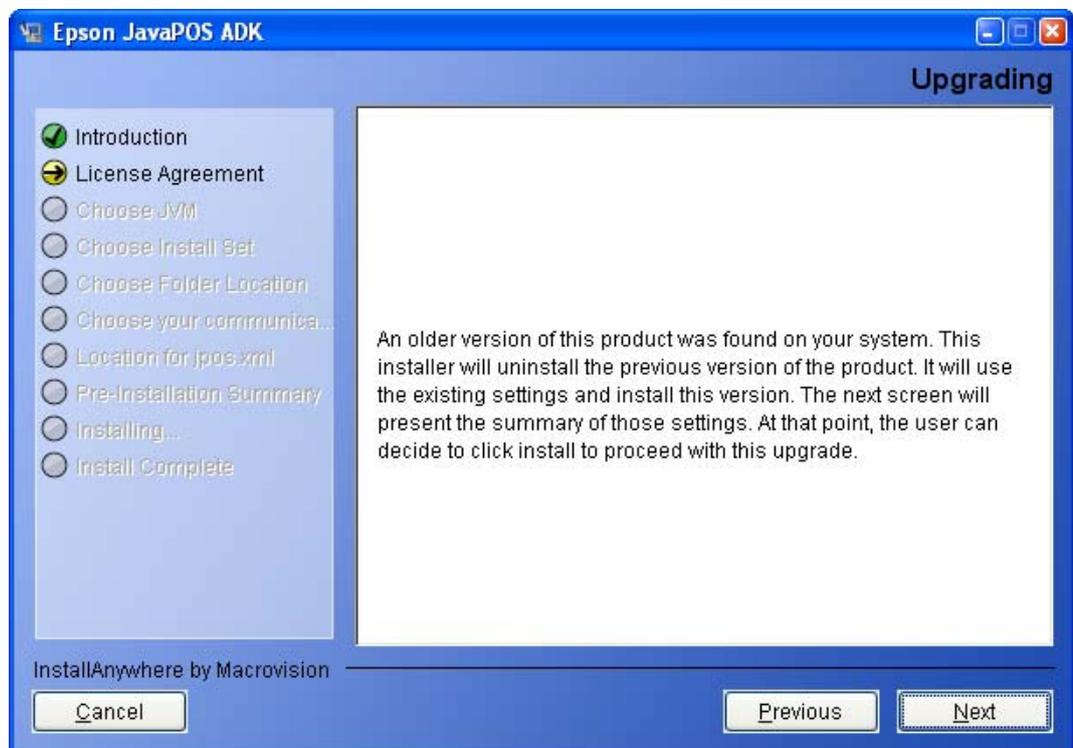
`%ALLUSERSPROFILE%\EPSON\portcommunicationservice\pcs.properties`

## 2.16 Upgrading

If the installer detects an older version of this application, it will copy the settings from the previous install. It will not display the screens from section [2.9](#) to [2.15](#). After the user clicks Next, the Pre-Installation Summary screen will be displayed with settings from the previous install.

If the user clicks Install on that screen, the installer will uninstall the previous install. It will then install the latest version with the settings from previous version.

The user can choose to click cancel, un-install the application and then install this version. The user can then customize the settings.



### Note:

When installing this version on a system where EPSON JavaPOS ADK 1.13.20 or older is installed and the following devices are registered, be sure to re-register the devices after installation is complete.

#### **POSPrinter**

For Windows:

TM-H6000II, TM-H6000III, TM-T88III, TM-T88IV, TM-T70, TM-T90, TM-L90,

TM-U220A, TM-U220B, TM-U220D

**LineDisplay**

All Devices

**CashDrawer**

All Devices

**MICR**

All Devices

**Checkscanner**

All Devices

**ElectronicJournal**

All Devices

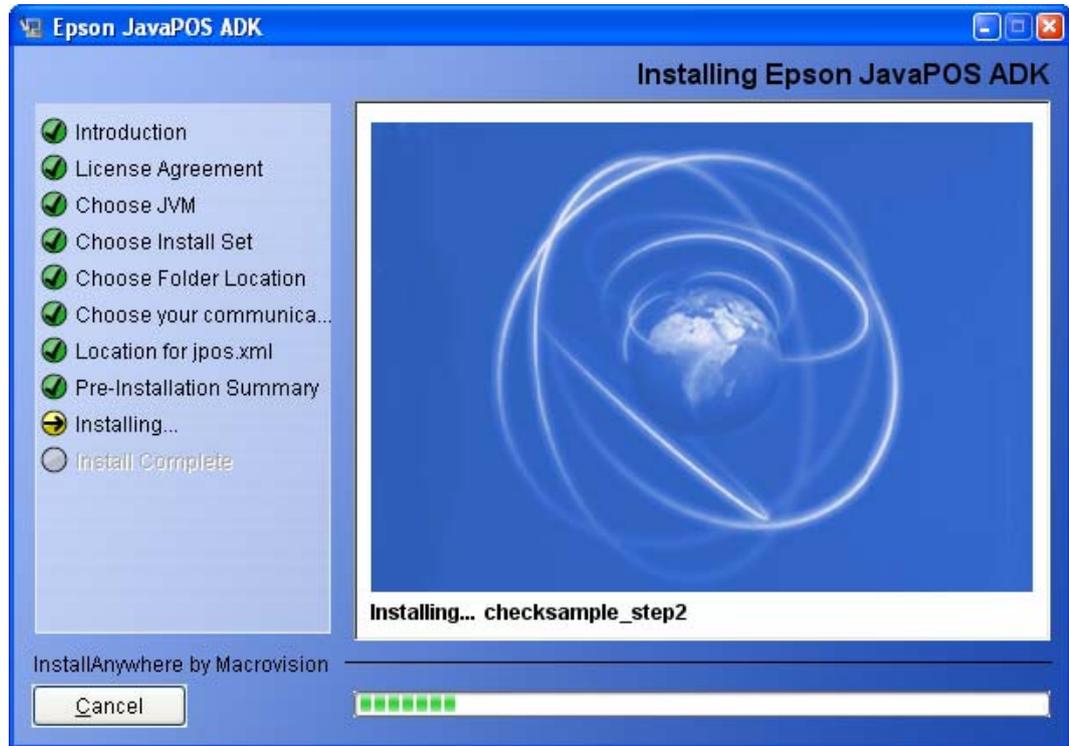
## 2.17 Pre-Installation Summary

A summary screen to show the options selected before installing files.

If the settings are correct, click Install.



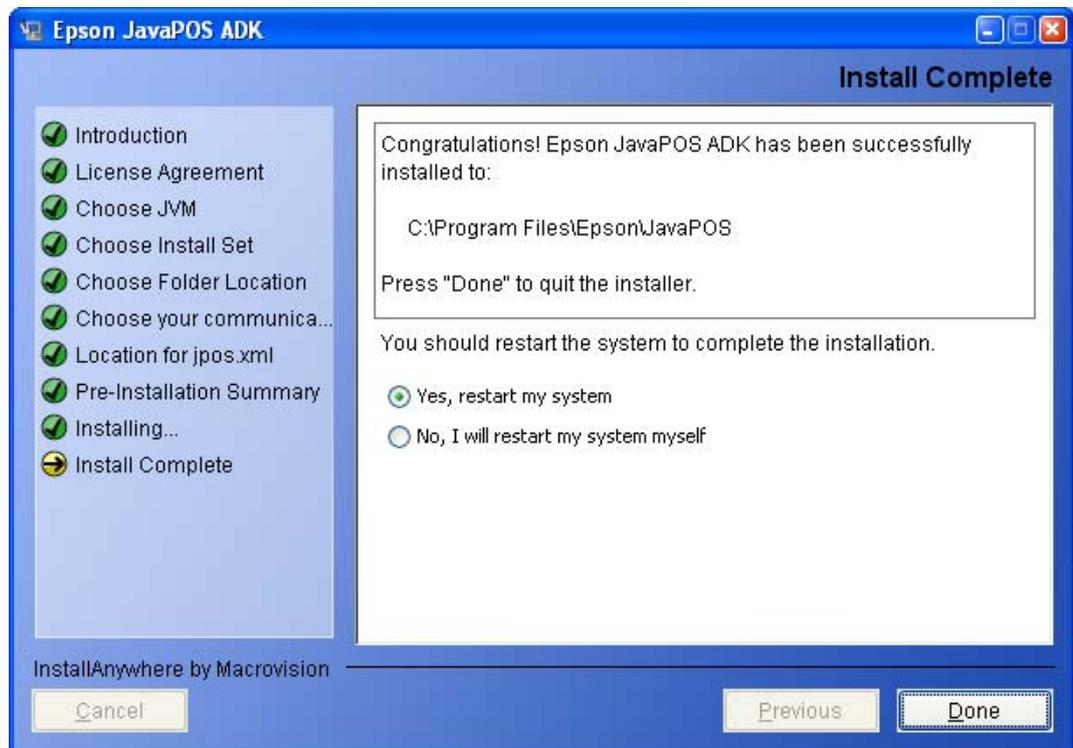
Installation starts, and progress is shown on the status bar.



When the installation is complete, the completion screen appears.

## 2.18 Completion

This completes the installation. Click Done to exit the installer.



If library files are renewed because of the installation, rebooting of system may be requested. This screen would then have options to select the rebooting options. Select “Yes, restart my system” and then click Done.

To restart the system later, select “No, I will restart my system myself” and click Done. After restarting the system, you can use EPSON JavaPOS ADK 1.14.1.

If there were any errors during the installation, a message will indicate the location of the error log (Epson\_Installer\_log.txt). It is created in the same folder from which the installer was launched. If the installer was run from a read-only medium like a CD-ROM, the log file will not be created.

## Chapter 3 Uninstalling

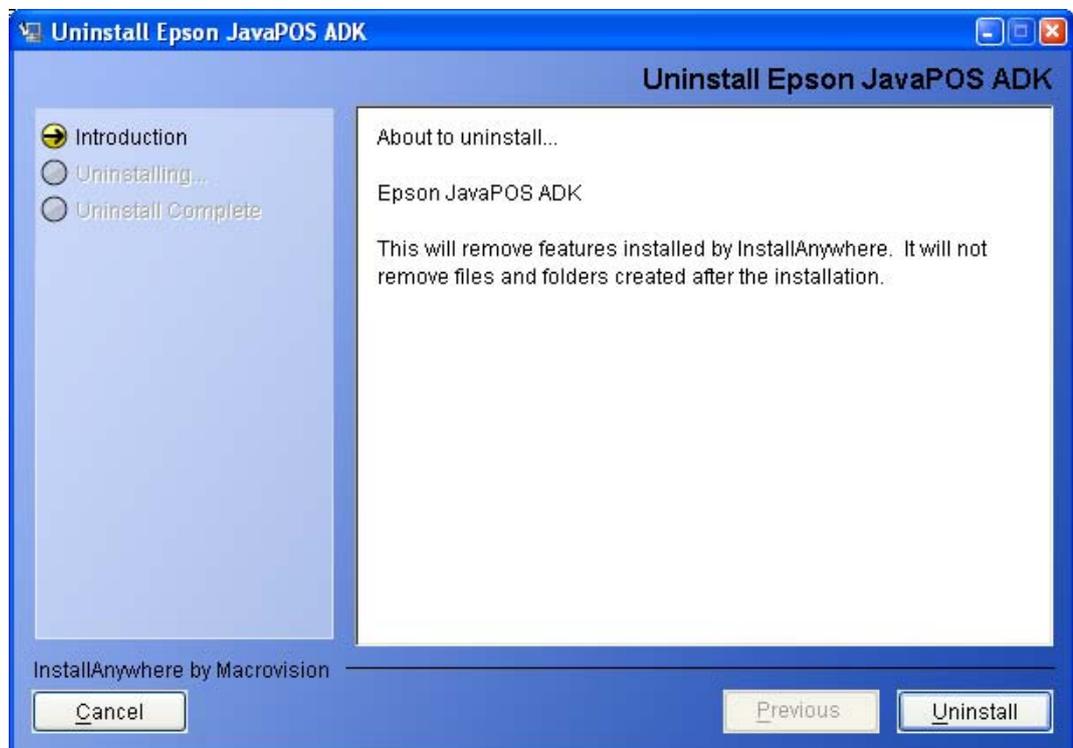
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### 3.1 Changing Installed Items and Starting Uninstall

Double-click the Add or Remove Programs icon in Control Panel, and click Change or Remove for EPSON JavaPOS ADK 1.14.1.

### 3.2 Confirm uninstallation

Click Uninstall button to start uninstalling.

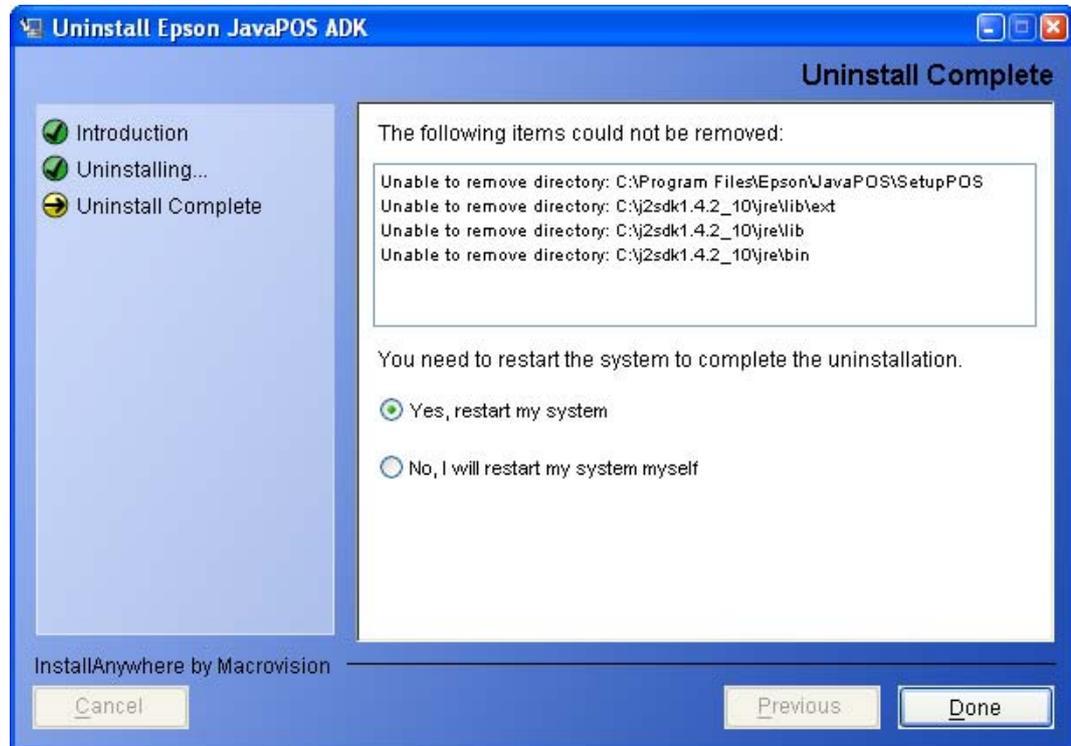


Once the uninstallation procedure is done, the summary screen appears.

This screen would then have options to select the rebooting options.

Select 'Yes, restart my system' and then click Done.

To restart the system later, select 'No, I will restart my system myself' and click Done.



### 3.3 Delete Electronic Journal data files

The uninstaller does not remove data files created for the Electronic Journal. If these files have been created, they must be deleted manually.

# Chapter 4 Silent Installation/Uninstallation

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## 4.1 Silent Installation Process

Silent installation involves the following steps.

1. Preparing Device Registration Information
2. Creating an Installation Script
3. Running Installation

## 4.2 Preparing Device Registration Information

Device registration information is required to perform a silent installation. Use the following procedure to collect the information.

1. Using SetupPOS, register the devices that will be used.
2. Use the information collection tool (CollectCopyInstallModules) to collect the device registration information. The tool is located in the installation destination folder.

### Example :

For Windows:

```
<System Drive>:\ProgramFiles\EPSON\JavaPOS\  
CollectCopyInstallModules.bat
```

When you run the tool, a folder named EpsonCopyInstallModules is created in the same directory as the tool. The following files used in silent installation are stored in the folder.

For Windows:

```
jpos.xml  
pcs.properties  
jpos1141.jar  
SetModules.bat
```

### 4.3 Creating an Installation Script

Run the installer.

On the Introduction screen, select 'Generate Silent Install' button.

Continue through the installation and customize the settings for the silent install.

Once the user clicks on the "Install" button on the Pre-installation summary screen, the installer checks to see if a silent.properties files has already been created.

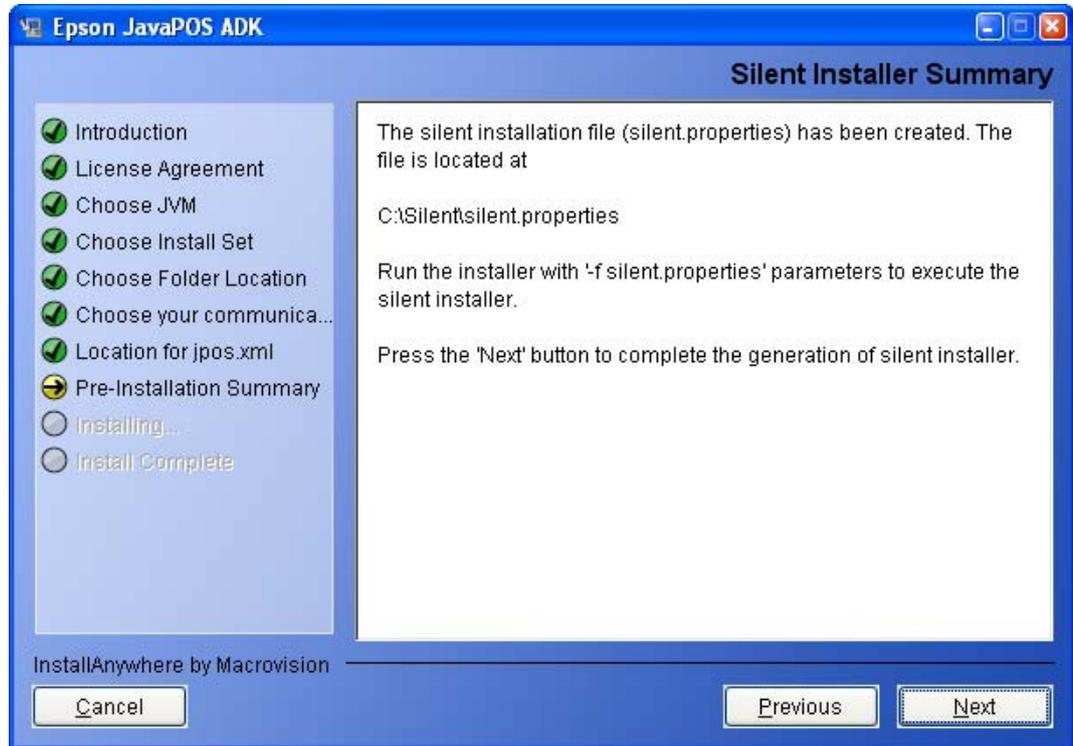
If a silent.properties files already exists in the target location, the following confirmation dialog is displayed.



Press "Yes" to overwrite the existing silent.properties files, or press "No" to keep the existing silent.properties file. A new silent.properties file cannot be generated unless the previous file is moved, deleted, or overwritten.

**Note:** *On Chinese language Operating Systems, only the default installation folders are supported for silent installation.*

After the Pre-installation summary screen, the Silent Installer Summary screen is displayed. This has the location for where the silent.properties file has been created.



## 4.4 Running Installation

1. Place the files stored in the EpsonCopyInstallModules folder described in "4.2 Preparing Device Registration Information" in the same location as the installer executable.
2. Using the command prompt, append "-f silent.properties" to the installer file and run it.

**Example:**

**Epson\_JavaPOS\_ADK\_1141.exe -f silent.properties** (for Windows)

3. Execute the file by typing:  
**SetModules.bat** (for Windows)

**Note:**

- **If library files are renewed because of the silent installation, the system may be rebooted.**

## 4.5 Running Uninstallation

Uninstallation runs silently if the installation was silent.

**Example:**

Uninstall from "Add or Remove Programs" (for Windows)

## Chapter 5 Forced Uninstall

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### 5.1 Using the Forced Uninstall option

In some cases it may not be possible to reinstall the JavaPOS ADK. The Forced Uninstall option can be used to resolve this issue. To use this option, run the installer with the parameter “-DUNINSTALL=TRUE”.

**Example:**

**Epson\_JavaPOS\_ADK\_1141.exe -DUNINSTALL=TRUE** (for Windows)

When this is complete, run the installer again without this parameter to reinstall JavaPOS.

Force Uninstall option is not available on 64bit operating systems.

# Chapter 6 Windows Information

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## 6.1 Configuring environment variables

Some environment variables need to be set on Windows for application development. Note that the exact procedure for setting these variables depends on the version of windows that is being used.

1. Select the “Control Panel” from the “Start” menu.  
In the case of Windows 8 or 8.1, click Settings on the Charms Bar after the desktop is displayed.
2. Select “Performance and Maintenance”
3. Select “System”.
4. Select the “Advanced” tab.
5. Press the “Environment Variables” button.
6. Search for “Path” in “System variables”.
7. Select “Path” and press the “Edit” button. The “Edit System Variable” dialog is displayed.
8. Add the following path to the “Variable value:” field:  
    <Your JRE install folder>/bin  
    (e.g. “C:\Program Files\Java\jre7\bin”)
9. Press the “OK” button to close the “Edit System Variable” dialog.
10. Press the “OK” button to close the “Environment Variables” dialog.
11. Press the “OK” button to close the “System Properties” dialog.

If you open a new Command Prompt window, these settings will be applied. After the environment variables are set, the java version can be confirmed by typing the following in a Command Prompt window:

```
java -version
```