

Epson Device USB Agent Setup Guide

Contents

Epson Device USB Agent

Introduction. 3

Configuration of Information Acquisition. 3

 Starting Periodic Acquisition and Setting the Acquisition Interval. 3

Getting Started. 4

 1. Customizing the installer. 4

 2. Setting up the computer for the device connected by USB. 6

 3. Configuring Device Status Agent. 6

Checking the Setup. 6

Changing Settings After Installation. 7

Uninstalling. 7

Operating Restrictions. 7

Operating Guarantee. 7

Installer customized settings file. 8

Copyright and Trademarks. 9

Epson Device USB Agent

Introduction

This manual is a setup guide for acquiring information over USB in Device Status Agent. This setup guide is for operators who are setting up Device Status Agent.

To collect device information over USB in Device Status Agent, you need to install Epson Device USB Agent on the computer to which the device is connected. However, supported devices and items that can be acquired differ from when acquiring over a network.

See the Device Status Agent Setup Guide for details on setting up and configuring the Device Status Agent.

Configuration of Information Acquisition

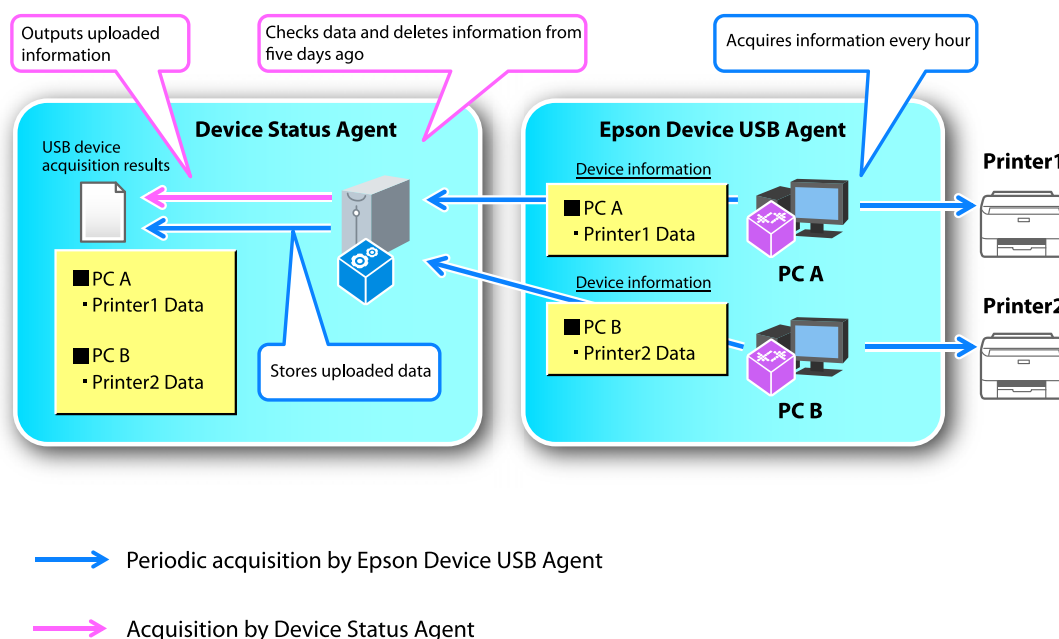
Epson Device USB Agent periodically collects information from devices connected by USB, and uploads the information to Device Status Agent.

Starting Periodic Acquisition and Setting the Acquisition Interval

When the computer boots, the Epson Device USB Agent service starts automatically and begins periodic acquisition. The normal acquisition interval is once every hour, however you can change this using the installer customized settings file. If a device is connected by USB while the Epson Device USB Agent service is running, information on the device is acquired and uploaded at that point, and the next acquisition is performed one hour later. Device Information acquisition is only performed when the device connected by USB is turned on.

Epson Device USB Agent

Device Status Agent stores the information uploaded from Epson Device USB Agent as USB device acquisition results. When the specification method for the device list is based on the MAC address or serial number, corresponding information is searched from the USB device acquisition results at a time when Device Status Agent acquires the information and outputs the acquisition results for devices if any is found. Information uploaded from Epson Device USB Agent is stored for five days. When data is checked every three hours, and there have been no uploads from Epson Device USB Agent for more than five days, the acquisition results for the relevant device are deleted from the USB device acquisition results.



Getting Started

Follow the three steps below to get started.

- 1 Customizing the installer
- 2 Setting up the computer for the device connected by USB
- 3 Configuring Device Status Agent

1. Customizing the installer

Epson Device USB Agent uploads the periodically acquired results to Device Status Agent. Therefore, you need the access point information of Device Status Agent for the target upload. Enter this information in the installer customized settings file (EDUSBAgent.exe.config) that comes with the installer. When you install using this settings file, you can skip making settings for Epson Device USB Agent for each computer.

The following shows the file configuration of the installer for Epson Device USB Agent.

Epson Device USB Agent

setup.exe	Installer executable file
EDUSBAgentSetup.msi	msi file (32 bit version)
EDUSBAgentSetup_x64.msi	msi file (64 bit version)
EDUSBAgent.exe.config	Installer customized settings file

The content for the installer customized settings file 32 bit version and the 64 bit version are the same and are provided in XML format. The access point information for the Device Status Agent changes the following attributes on the "EDUSBAgent" tag.

	Description	Default Value
ServerIP	Access point information for the Device Status Agent. Enter the IP address. Make sure you set this attribute when installing Epson Device USB Agent.	-
ServerPort	Port on the Device Status Agent for communicating with Device Status Agent. If ports are not restricted, use it in this status.	4121
ListeningPort	Port on the Epson Device USB Agent for communicating with Device Status Agent. If ports are not restricted, use it in this status.	64122

You need to open ports on the computer to allow the Device Status Agent and Epson Device USB Agent to communicate.

Open the following ports.

Ports on Computer	Port Number
Computer on which Device Status Agent is installed	ServerPort for Device Status Agent ^(*1)
Computer on which Epson Device USB Agent is installed	ListeningPort for Epson Device USB Agent

(*1) When changing the value for the ServerPort, you need to change the Device Status Agent settings. For more information, see [Device Status Agent Configuration Screen] - [Agent] in the Device Status Agent Setup Guide.

When correcting the installer customized settings file, you can change the interval at which acquisition results are uploaded in Device Status Agent. On the "ConfigurationObjects" tag, the "Name" attribute on the "Property" tag changes the "Value" attribute for "Frequency".

	Description	Default Value
Name	Attribute name. Cannot be corrected.	Frequency
Type	Attribute type. Cannot be corrected.	System.Int32
Value	Interval for periodic acquisition. Specify units in seconds. Example: Enter 3,600 if you want to acquire information every hour.	3600

You can also change the value specified in the installer customized settings file after installation from the Epson Device USB Agent settings screen on each computer.

2. Setting up the computer for the device connected by USB

Install the drivers for the device on the computer, connect the device to the USB, and place it in a ready status. Next, install Epson Device USB Agent. Run setup.exe from the installation image to start installation. For 32 bit operating systems, execute the 32 bit version setup.exe, and for 64 bit operating systems, execute the 64 bit version setup.exe. If .Net Framework 2.0 to 3.5 is not installed, a message is displayed prompting you to install .Net Framework 2.0 to 3.5. When this installation is complete, execute setup.exe.

In the following situations, the operating system needs to be rebooted after installing Epson Device USB Agent.

- (1) When the device is connected for the first time by USB after installing the driver for the device.
- (2) When the device is connected to a USB port for which the device has never been connected after installing the driver for the device.
- (3) When the driver for the device has been reinstalled under the conditions stated in (1) or (2).

USB connection for the device indicates that the device being connected is turned on. Connection is not performed when the device is connected while it is turned off.

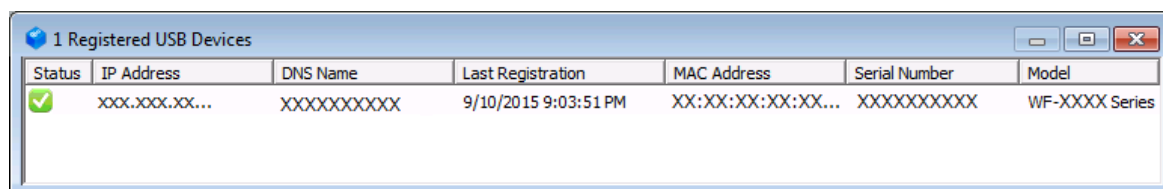
3. Configuring Device Status Agent

To acquire information from the device over USB, specify the MAC address or serial number of the device in the printer list. Specify the MAC address or serial number in [Type], and then set information on the device specified with the printer ID in [Type].

Checking the Setup

You can use Device Status Agent to check if the acquisition results for Epson Device USB Agent can be uploaded correctly to Device Status Agent.

Select [Show Registered USB Devices] from the context menu of the task tray icon for Device Status Agent to display a list of registered USB devices. If setup has been performed correctly, information for the connected devices is displayed as a list.



Status	IP Address	DNS Name	Last Registration	MAC Address	Serial Number	Model
✓	xxx.xxx.xx...	XXXXXXXXXX	9/10/2015 9:03:51 PM	XX:XX:XX:XX:XX...	XXXXXXXXXX	WF-XXXX Series

Column Name	Description
IP Address	Displays the IP address for the computer to which a USB device is connected.
DNS Name	Displays the DNS name for the computer to which a USB device is connected.
Last Registration	Displays the time uploaded to Device Status Agent.
Mac Address	Displays the MAC address for the device.

Epson Device USB Agent

Column Name	Description
Serial Number	Displays the serial number for the device.
Model	Displays the model name.

The status row always displays the same icon.

Click a column to sort.

Changing Settings After Installation

You can change settings on the Epson Device USB Agent settings screen. You need administrator authority to access the settings screen. To access the settings screen, run EDUSBAgentConfiguration.exe in the installation folder. (If you did not change this when installing the software, it is located in "C:\Program Files\EPSON\Epson Device USB Agent".) When the Epson Device USB Agent settings screen opens, select the "Agent" tab, change the settings, and then click the Save button.

Uninstalling

Select [Add or Remove Programs] on the Control Panel. Select [Epson Device USB Agent] from Programs, and then uninstall.

Operating Restrictions

When connecting an unsupported device by USB, information acquisition is not guaranteed. Information may be acquired depending on the device, but operation is not guaranteed.

Operating Guarantee

Operation is guaranteed for the following.

Device Status Agent

Number of devices for which information can be acquired: 2,000

When acquiring information for more than 2,000 devices, setup multiple Device Status Agent, and then specify the upload target in Epson Device USB Agent.

Installer customized settings file

The installer customized setting file is described as shown below. The settings specified in "Customizing the installer" chapter are indicated in red.

```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
  <configSections>
    <section name="DSSModules" type="Epson.PCC.ModuleConfigurationSection, Epson.PCC.Interfaces" />
    <section name="DSUSBAgent" type="Epson.PCC.PCCAgentConfigurationSection, Epson.PCC.Interfaces" />
    <section name="ServiceConfiguration" type="Epson.PCC.ServiceConfigurationSection, Epson.PCC.Interfaces" />
    <section name="ConfigurationObjects" type="Epson.PCC.ConfigurationObjectSection, Epson.PCC.Interfaces" />
    <section name="log4net" type="log4net.Config.Log4NetConfigurationSectionHandler, log4net" />
  </configSections>

  <DSSModules Version="1.0.0000">
    <Modules>
      <module AssemblyPath="Epson.PCC.Agent.USB.dll" />
    </Modules>
  </DSSModules>
  <EDUSBAgent Logging="ErrorOnly"
    ServerIP=""
    ServerPort="4121"
    ListeningPort="64122"
  />

  <ServiceConfiguration>
    <Services>
      <Service ID="d68bcc63-8851-4d21-a4cd-c81e28dee040" Type="Epson.PCC.Agent.RegistrationService"
        ConfigurationID="fda50b61-d90e-4ea5-a6b6-a4d048d29ed7"/>
    </Services>
  </ServiceConfiguration>

  <ConfigurationObjects>
    <Objects>
      <Object ID="fda50b61-d90e-4ea5-a6b6-a4d048d29ed7"
        Type="Epson.PCC.Agent.RegistrationServiceConfiguration">
        <Properties>
          <Property Name="Frequency" Type="System.Int32" Value="3600" />
        </Properties>
      </Object>
    </Objects>
  </ConfigurationObjects>
```


Epson Device USB Agent

```

<log4net>
  <appender name="RollingFileAppender" type="log4net.Appender.RollingFileAppender">
    <param name="Encoding" value="utf-8" />
    <param name="File" value="Logs\DSUSBAgent_error.log" />
    <param name="AppendToFile" value="true" />
    <param name="MaxSizeRollBackups" value="10" />
    <param name="MaximumFileSize" value="1MB" />
    <param name="RollingStyle" value="Size" />
    <param name="StaticLogFileName" value="false" />
    <layout type="log4net.Layout.PatternLayout">
      <param name="ConversionPattern" value="%d [%t] %-5p - %m%n"/>
    </layout>
  </appender>
</root>
  <level value="INFO" />
  <appender-ref ref="RollingFileAppender" />
</root>
</log4net>

</configuration>

```

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