Tech Note – InduSoft Web Studio (IWS) under Windows XP Embedded (XPe)

Introduction

This document describes the requirements and the procedure to install InduSoft Web Studio (IWS) under Microsoft Windows XP Embedded (XPe).

The information in this document is accurate for IWSv6.1+SP4 and Windows XPe+SP2, which are the current versions available when this document was written. Future versions of the operating system or of InduSoft Web Studio might change or invalidate some information provided here.

It is important to keep in mind that Windows XPe is designed for specific small-to-medium applications with minimum hardware requirements. Therefore, if your application has higher requirements for performance or data storage, we recommend using a platform with the appropriated hardware configuration and Windows XP Professional (or equivalent).

System Requirements

Software

When installing Windows XPe, it is possible to customize it, including or removing modules from its installation, according to the needs of your project. Most of the components required by IWS are part of the main core of Windows XPe. Some of the important components required for IWS are listed below:

Component	Description
Internet Explorer v7.0 or higher	Web Browser used for Web Thin Clients.
COM and DCOM	These components are used for many tasks of IWS. The DCOMcnfg.exe program should also be available to configure the DCOM security settings, when necessary.
MFC, OLEDB, and ATL	Operating system libraries (classes) used by IWS.
Regsvr32.exe	Utility to register controls
TCP/IP Drivers	Used for communication with remote stations and also for communication between some tasks in the local station.
IIS	Internet Information Services, including the Web Server (HTTP Server). This component is necessary if the application should work as a Web Server for remote Thin Clients, via HTTP.
TAPI	Telphone Application Program Interface libraries. This component is necessary if the application should use any modem or telephone-based feature.
Device Drivers	Hardware-specific drivers for any peripheral available in the computer, such as communication boards, serial ports, USB ports, and so forth.

Hardware

The better the hardware configuration, the higher the performance and autonomy for data storage for the application. The following table describes the minimum requirement for typical applications, but some settings might need to be upgraded depending on the application's needs. For instance, depending on the size (bytes) of the application files and depending on the period of time required for the local history data, you might need to upgrade the capacity of the Storage Card.
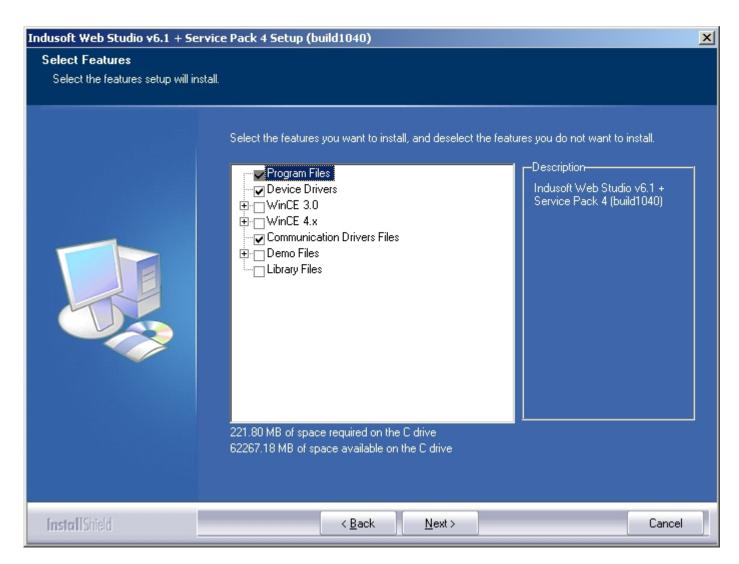
Component	Description
Processor	X86 1GHz or higher
RAM	256 MB or higher
Storage Card (typically CF Card)	2GB or higher
Microsoft-compatible pointing device	mouse, trackball, or touch-screen
Ethernet Port	It is required at least one valid Ethernet port on the device

Installation

The InduSoft Web Studio installation files for Windows XPe and Windows XP Home/Professional are the same. However, when installing the application under Windows XPe, it is recommend disabling (un-checking) the installation of the components that are not necessary to run your application (e.g.: Help, Documentation, Runtime files for Windows CE platforms, Demo applications, and so forth).

You can use a CD-ROM or any other media to install IWS on the Windows XPe device. Just run the **Setup.exe** program to launch the install wizard. Follow the wizard windows until you reach the **Select Features** window.

Uncheck the following options to install only the minimum components to run applications under Windows XPe and optimize the usage of the Storage Card:
-    WinCE 3.0
-    WinCE 4.x
-    Demo Files
-    Library Files

Only the following options should be checked: Program Files, Device Drivers, and Communication Drivers Files.

Note: By the time that this document was written, the minimum components mentioned above use approximately 250 MB from the Storage Card where the product is installed.

After installing IWS, reboot your computer.

Copy your application to the Windows XPe device. Run the development environment (<Start> → All Programs → InduSoft Web Studio vX.Y → InduSoft Web Studio vX.Y). Select the menu **File** → **Open Project** and select the <ApplicationName>.APP file from your application's directory. Close the development environment.

Execute the **Startup** program to run your application (<Start> → All Programs → InduSoft Web Studio vX.Y → Startup). You can create a shortcut to this program on the Windows Startup folder (<Start> → All Programs → Startup) to run the application automatically whenever you reboot the device.

Tip: InduSoft Web Studio provides remote management and remote engineering tools. Just run the **Remote Agent** module on the Windows XPe device (<Start> → All Programs → InduSoft Web Studio vX.Y → Remote Agent). Then, from a remote computer with IWS (development environment), you can connect to the Windows XPe device and execute commands such as: Download the application to the XPe device, Upload the application from the XPe device, Run the application remotely, Stop the application remotely, and so forth.

Map of Revision

Revision	Author	Date	Comments
A	Fabio Terezinho	November 30, 2007	▪ Initial Revision