

The InduSoft Hardware Certification Program

Developing Embedded Devices?

Let InduSoft test your hardware for compatibility with InduSoft CeView, EmbeddedView, or IoTView. The InduSoft Hardware Certification program was designed to allow you certify your hardware for compatibility with InduSoft Web Studio. Send us your embedded hardware for free testing to ensure that your embedded products will be able to reliably run InduSoft SCADA/HMI software targeted for embedded devices.

Our tests allow us to certify multiple operating systems, including:

- Windows Embedded Compact, Windows CE or WEC7
- Windows Embedded Standard (WES7)
- Linux
- VxWorks

Why Certify your Hardware?

Certifying your hardware for compatibility with InduSoft software has many benefits. Are you an OEM or Value Added Reseller who plans to ship multiple machines running HMI applications built with InduSoft CEView or EmbeddedView? Are you working on IoT-ready products and want to run software on devices using Linux or VxWorks? The InduSoft Hardware certification program is a fast and free way to ensure compatibility with InduSoft products.

How Can I Get Started?

Getting your hardware certified is a simple process. Just email us at **Info@InduSoft.Com** or fill in the online form on the hardware certification page. We will get in touch with you to arrange shipment of the device for testing.

To speed the process along, here are a few things we will need to know:

- Device Model
- OS Type and Version
- Any user and passwords required to access the device
- Any known limitations (such as a lack of UI, no Keyboard interface, etc.)
- Any helpful information on using the product, such as hints on opening UIs, running applications, opening Remote Desktop connections, etc.

How Long Does Hardware Certification Take, and What will it Tell Me?

Hardware certification takes approximately four weeks from the time we get your hardware to the time we are able to give you a detailed report of our certification tests. You'll receive a pass/fail for compatibility with your device, as well as notes on which tests failed compatibility checks and why.

What Do We Test?

Hardware

Description
Serial interface RS232 – DB9 connector
Serial Interface RS485
RAM – 1GB RAM or higher
Ethernet interface – RJ45 connector
Embedded Wireless Ethernet interface
CF Card Type II slot
USB interface
Embedded display
Touch Screen
Video output
Mouse / Keyboard interface – Mini-DIN connection

Software

Component	Description
Internet Explorer v10 or higher	Web Browser used for Web Thin Clients.
COM and DCOM	These components are used for many tasks of InduSoft Web Studio. 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 EmbeddedView.
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 7 or higher	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. Also, for the Mobile Access feature, it requires a more specific configuration described below.
TAPI	Telephone 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.
.Net Framework 3.5.1, 4.5	This is not mandatory for the runtime to work. However, if you want to use .Net Controls or Mobile Access, we will need both versions of the .Net Framework to be installed.

What Versions of WinCE and Windows Embedded are Supported?

CEView version	WinCE version	Processor Type
V7.x	V5.0, v6.0, v7.0	ARMV4I, MIPISII, MIPISII_FP, MIPISIV, MIPISIV_FP, Pocket2003-ArmV4, SH4, SmartPhone2004-ArmV4, x86, XScale
C8.0	V5.0, v6.0, v7.0	ARMV4I, MIPISII, MIPISII_FP, MIPISIV, MIPISIV_FP, Pocket2003-ArmV4, SH4, SmartPhone2004-ArmV4, x86, XScale

- Note:** The CEView program compiled for WinCE v5.0 (.NET) is supported by WinCE v5.x, WinCE v6.0 and WinCE v7.0

Windows Embedded platforms supported by each version of EmbeddedView

EmbeddedView version	Operating System	Notes
V7.0, V7.1	Windows Embedded Standard (XPe,7)	X86
	Windows Embedded POSReady (XPe)	x86
	Windows Embedded Enterprise (XPe, 7)	x86, x64 (Win7 only)
V8.0	Windows Embedded Standard 7, Windows Embedded Standard 8 (except Pro version)	x86, x64

Installing IoTView

Check Procedure	
Create a home directory for IoTView	Creating a home directory for IoTView
Copy Remote Agent from a Pen Drive or Network to the device's home directory for IoTView, from the product's <i>C:\Program Files\Wonderware InduSoft Web Studio vX.Y\Redist\IoTView\Linux\x86-2.12.2-6.0.14\RemoteAgent</i>	Install "Remote Agent"
Use the below commands: cd ~/iotview \$ sudo chmod a+x RemoteAgent	Change the permissions on the Remote Agent program file to make it executable. You may be prompted for your password.
Execute Remote Agent: \$./RemoteAgent	Check if Remote Agent runs on the device

Check Procedure	
Use the Remote Management tool to connect to the Remote Agent program on the target device and then install the rest of the IoTView runtime software	Check if the rest of IoTView can be installed using Remote Agent
After the installation, stop Remote Agent using the Ctrl+C command on Console	Check if you can stop Remote Agent on the Console
Run the installation script:	Check if you can successfully run the Installation Script, that will take care of installing Apache, extensions, and preparing Remote Agent to start automatically
Restart the device and check if you can connect to the Remote Agent using the "Remote Environment" window on the development environment	Check Remote Agent is started automatically

IoTView Runtime

Description
Run Remote Agent.
Run Startup (Runtime)
Connect Remote Agent from Studio via Ethernet interface.
Execute Send to Target command from Studio via Ethernet interface.
Install a valid license from Studio via Ethernet interface.
Communication Driver via serial interface (MODBU driver).
Communication Driver via Ethernet interface (MOTCP driver).
Visualization via an HTML5-ready browser
Test screen Static Objects (Open Polygon, Closed Polygon, Line, Ellipse, Rounded Rectangle, Rectangle, Button and Text).
Test screen Dynamics (Command, Bargraph, Text I/O, Color, Position, Size and Dynamic Rotation).
Test screen Active Objects (Combo Box, Check Box, Radio Button).
Local Thin Client support on Firefox or Chrome
Check the memory allocation after running the Runtime (running for over 24 hours).

