

Choosing between InduSoft Web Studio, EmbeddedView, CEView, and IoTView for your HMI Application

InduSoft Web Studio is an integrated development environment, which allows you to design, develop, troubleshoot, and maintain HMI/SCADA applications and deploy them into different platforms (operating systems). Even though the development environment (and the application) is the same for any platform, InduSoft offers different runtime editions suitable for technical and commercial constraints on each platform: InduSoft Web Studio (full) runtime, EmbeddedView runtime, CEView, and IoTView runtime.

Runtime Editions - Platforms and System Requirements

		Runtime Editions (8.0)			
		InduSoft Web Studio	EmbeddedView	CEView	IoTView ⁽²⁾
Operating System	Windows Server 2012	Supported	NOT Supported	NOT Supported	NOT Supported
	Windows Server 2008	Supported	NOT Supported	NOT Supported	NOT Supported
	Windows 10	Supported (8.0)	NOT Supported	NOT Supported	NOT Supported
	Windows 8	Supported	NOT Supported	NOT Supported	NOT Supported
	Windows 7	Supported	NOT Supported	NOT Supported	NOT Supported
	Windows 7 Embedded Standard	Supported	Supported	NOT Supported	NOT Supported
	Windows 8 Embedded Standard	Supported	Supported	NOT Supported	NOT Supported
	Windows Embedded Compact 5 ⁽¹⁾	NOT Supported	NOT Supported	Supported	NOT Supported
	Windows Embedded Compact 6 ⁽¹⁾	NOT Supported	NOT Supported	Supported	NOT Supported
	Windows Embedded Compact 7 ⁽¹⁾	NOT Supported	NOT Supported	Supported	NOT Supported
	Windows Embedded Compact 2013 ⁽¹⁾	NOT Supported	NOT Supported	Supported	NOT Supported
	Linux	NOT Supported	NOT Supported	NOT Supported	Supported (8.0)
	VxWorks	NOT Supported	NOT Supported	NOT Supported	Supported (8.0)
Typical System Requirements	Minimum storage memory needed	1GB	128MB	64MB	64MB
	Minimum RAM memory needed	256MB	64MB	32MB	32MB

⁽¹⁾ "Windows Embedded Compact" was formerly known as "Windows CE".

⁽²⁾ IoTView's source-code is platform-agnostic. Therefore, it could be compiled to different operating systems, as long as the target platform compiler is available.

Feature	Runtime Editions for Windows			
	InduSoft Web Studio	EmbeddedView / CEView	IoTView	
General	Run applications designed in InduSoft Web Studio IDE	Supported	Supported	Supported (8.0)
	Run as a Service	Supported	NOT supported	NOT supported
	Email (SMTP Client)	Supported	Supported with limitations ⁽¹⁾	NOT supported
	Create tags programatically during the runtime	Supported	NOT supported	NOT supported
	Create screens programatically during the runtime	Supported	NOT supported	NOT supported
	Create reports in PDF format	Supported	NOT supported	NOT supported
	Built-in functions	Supported	Supported with limitations ⁽²⁾	Supported with limitations (8.0) ⁽²⁾
	Tag Integration (Shared Tags)	Supported	Supported	NOT supported
Global	Project Tags, System Tags, Classes and Arrays	Supported	Supported	Supported (8.0)
	Security System	Supported	Supported	Supported with limitations (8.0) ⁽¹⁶⁾
	Procedures	Supported	Supported	NOT supported
	Event Logger	Supported	Supported	NOT supported
	Translation	Supported	Supported	NOT supported
Tasks	Alarms	Supported	Supported	Supported with limitations (8.0) ⁽¹⁷⁾
	Trend	Supported	Supported	Supported with limitations (8.0) ⁽¹⁸⁾
	Recipes	Supported	Supported	NOT supported
	Reports	Supported	Supported	NOT supported
	ODBC	Supported	Supported with limitations ⁽³⁾	NOT supported
	Math	Supported	Supported	NOT supported
	Script	Supported	Supported	NOT supported
	Scheduler	Supported	Supported	NOT supported
	Database/ERP	Supported	Supported	NOT supported
	Drivers	Supported	Supported with limitations ⁽⁵⁾	Supported with limitations (8.0) ⁽⁵⁾
Communication	OPC DA 2.5 Client	Supported	Supported with limitations ⁽⁴⁾	NOT supported
	OPC DA 2.5 Server	Supported	Supported with limitations ⁽⁴⁾	NOT supported
	OPC XML/DA Client	Supported	NOT supported	NOT supported
	OPC UA Client	Supported	Supported with limitations ⁽¹⁾	NOT supported
	OPC .NET Client	Supported	NOT supported	NOT supported
	TCP/IP Client	Supported	Supported	NOT supported
	TCP/IP Server	Supported	Supported	NOT supported
	Mobile Access Runtime	Supported	Supported	Supported (8.0)
	DDE and NetDDE Client	Supported	NOT supported	NOT supported
	DDE and NetDDE Server	Supported	NOT supported	NOT supported
Graphical interface	OPC HDA Server	Supported	NOT supported	NOT supported
	Screens	Supported	Supported	Supported (8.0)
	Screen Group	Supported	Supported	Supported (8.0)
	Graphic Script	Supported	Supported	NOT supported
	Local Viewer	Supported	Supported	NOT supported
	Server for SMA Thin Clients (HTML5)	Supported	Supported with limitations (8.0) ⁽⁶⁾	Supported (8.0)
	Server for Secure Viewer Thin Clients	Supported	Supported	NOT supported
	Server for Web Thin Clients	Supported	Supported	NOT supported
	Support for CGI Web Servers	Supported (8.0)	Supported (8.0)	Supported (v8.0)
	Screen Scripts	Supported	Supported	Supported with limitations (8.0) ⁽²⁰⁾
	Shapes	Supported	Supported	Supported (v8.0)
	Active Objects	Supported	Supported	Supported with limitations (8.0) ⁽²¹⁾
	Data Objects (Alarm/Event, Trend, Grid)	Supported	Supported	NOT supported
	Libraries - Project Symbols	Supported	Supported with limitations ⁽¹⁹⁾	Supported with limitations (8.0) ⁽¹⁹⁾
	Libraries - Linked Pictures	Supported	Supported with limitations ⁽⁹⁾	Supported (8.0)
	Libraries - .NET Controls	Supported	NOT supported	NOT supported
	Libraries - ActiveX Controls	Supported	Supported with limitations ⁽²²⁾	NOT supported
	Auto screen scaling	Supported	Supported with limitations ⁽⁷⁾	Supported (8.0)
	Fill effects	Supported	Supported with limitations ⁽⁸⁾	Supported (8.0)
	Background Picture	Supported	Supported with limitations ⁽⁹⁾	Supported (8.0)
	Ellipse Style Types	Supported	Supported with limitations ⁽¹⁰⁾	Supported with limitations (8.0) ⁽¹⁰⁾
	Hint (Tooltip)	Supported	Supported with limitations ⁽¹¹⁾	Supported with limitations (8.0) ⁽¹¹⁾
	Command events	Supported	Supported with limitations ⁽¹²⁾	Supported with limitations (8.0) ⁽²³⁾
Rotation animation	Supported	Supported with limitations ⁽¹³⁾	Supported (8.0)	
Trend Control > Export to file	Supported	NOT supported	NOT supported	
Trend Control > Points > Pen Style > Fill	Supported	NOT supported	NOT supported	
Enhanced graphics (anti-aliasing, gradual transparency)	Supported	NOT supported	Supported (v8.0)	
Multi-touch gestures	Supported	Supported with limitations ⁽¹⁴⁾	NOT supported	
Licensing	Number of Tags	150, 300, 1500, 4000, 16K, 32K, 64K, 512K, or 10M	150, 300, 1500, or 4000	150, 300, 1500, or 4000
	Number of Thin Clients	0, 1, 2, 4, 8, 16, 32, 64, or 128	0, 1, 2, 4, or 8	0, 1, 2, 4, or 8
	License Server	Supported	NOT supported	NOT supported
	USB Hardkey	Supported	Supported with limitations ⁽¹⁵⁾	NOT supported

Feature Comparison:

InduSoft Web Studio is an integrated development environment, which allows you to design, develop, troubleshoot, and maintain HMI/SCADA applications and deploy them into different platforms (operating systems). Even though the development environment (and the application) is the same for any platform, InduSoft offers different runtime editions suitable for technical and commercial constraints on each platform: InduSoft Web Studio (full) runtime, EmbeddedView runtime, and CEView runtime. This table focus only on the main differences between the runtime editions supported by InduSoft Web Studio. The vast majority of features from InduSoft Web Studio are supported by all runtime editions for Windows, so they are not illustrated in this table.

⁽¹⁾ Encryption supported by InduSoft Web Studio and EmbeddedView, but not supported by CEView.

⁽²⁾ The vast majority of the built-in functions are supported by all Runtime Editions. However, specific functions are not supported on specific platforms. The complete reference is available in the Technical Reference manual at "Appendix: Built-in Scripting Language > List of available functions".

⁽³⁾ Even though the ODBC worksheets (legacy) are not supported, the Database/ERP worksheets are supported.

⁽⁴⁾ Multi-thread not supported (single thread supported). Moreover, the image of the operating system must support Remote DCOM.

⁽⁵⁾ The vast majority of the native communication drivers are supported by many Runtime Editions. However, specific native drivers are not supported on specific platforms. The complete reference is available through the actual product (Project Explorer > Comm > Drivers > Add/Remove Drivers) and at the InduSoft web site (www.InduSoft.com > Products and Downloads > Drivers). Moreover, IoTView supports Main Driver Sheets only.

⁽⁶⁾ Studio Mobile Access Tabular supported for both EmbeddedView and CEView. Studio Mobile Access (HTML5) supported by EmbeddedView, but not by CEView.

⁽⁷⁾ The screens can be converted to a different resolution by using the command "Home > Convert Resolution".

⁽⁸⁾ Fill effects are supported for Rectangle objects.

⁽⁹⁾ The following formats are supported: BMP, JPG, and PNG, as long as the image of the device supports these formats as well.

⁽¹⁰⁾ The style type Ellipse is supported, but the style types Arc, Chord, and Ring are not supported.

⁽¹¹⁾ The Hint field will update the Hint System Tag. The graphical tooltip will not be automatically displayed on CEView runtime nor on SMA Thin Clients.

⁽¹²⁾ The Command Events "On Down", "While Down", and "On Up" are supported. The remaining Command Events are not supported.

⁽¹³⁾ The rotation animation is supported for Closed Polygons, but not for Pictures.

⁽¹⁴⁾ CEView does not support "Zoom and Pan gestures on project screens" and "Gestures with Rotation animation".

⁽¹⁵⁾ The Hardware from the WiBu manufacturer is supported by all Runtime Editions. The Hardkey from Sentinel is not supported by EmbeddedView/CEView.

⁽¹⁶⁾ Local Mode only. Distributed and LDAP modes not supported.

⁽¹⁷⁾ Alarm Online only. Alarm History not supported.

⁽¹⁸⁾ History Format Database only. History Format Proprietary and Historian not supported.

⁽¹⁹⁾ Project Symbols are supported, as long as their shapes, active objects, and/or animations are supported by the target platform.

⁽²⁰⁾ Built-in language only.

⁽²¹⁾ Pushbutton, ListBox, and Smart Message not supported. Minor limitations in other objects (e.g.: Push-like not supported for Radio Button and Check Box).

⁽²²⁾ The ActiveX control must be compiled to the target platform.

⁽²³⁾ Built-in language, Open/Close Screen, and Set/Reset/Toggle Tag supported. VBScript not supported.