

Choosing the ideal InduSoft Web Studio runtime edition solution for your project

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 for each platform

Platforms		Runtime Editions			
		Full Runtime	EmbeddedView	CEView	IoTView ⁽²⁾
Operating System	Windows Server 2016	Supported	NOT Supported	NOT Supported	NOT Supported
	Windows Server 2012	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 10 IoT Enterprise	Supported (8.0)	Supported (8.0+SP1)	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)
System Requirements	Minimum storage memory needed	2GB	128MB	64MB	64MB
	Minimum RAM memory needed	1GB	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 Comparison:

InduSoft Web Studio offers 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, the product offers different runtime editions suitable for technical and commercial constraints on each platform: Full Runtime, EmbeddedView, CEView, and IoTView. This table focuses only on the main differences between the runtime editions supported by the product. The vast majority of features are supported by all runtime editions for Windows, so they are not illustrated in this table.

Feature		Full Runtime	EmbeddedView	CEView	IoTView
General	Run applications designed in the same IDE	Supported	Supported	Supported	Supported (8.0)
	Run as a Service	Supported	NOT supported	NOT supported	NOT supported
	Email (SMTP Client)	Supported	Supported	Supported with limitations ⁽¹⁾	NOT supported
	Create tags programmatically during the runtime	Supported	NOT supported	NOT supported	NOT supported
	Create screens programmatically during the runtime	Supported	NOT supported	NOT supported	NOT supported
	Create reports in PDF format	Supported	NOT supported	NOT supported	NOT supported
	Built-in functions	Supported	Supported with limitations ⁽²⁾	Supported with limitations ⁽²⁾	Supported with limitations (8.0) ⁽²⁾
	Tag Integration (Shared Tags)	Supported	Supported	Supported	NOT supported
Global	Project Tags, System Tags, Classes and Arrays	Supported	Supported	Supported	Supported (8.0)
	Security System	Supported	Supported	Supported	Supported with limitations (8.0) ⁽¹⁶⁾
	Procedures	Supported	Supported	Supported	NOT supported
	Event Logger	Supported	Supported	Supported	NOT supported
	Translation	Supported	Supported	Supported	NOT supported
Tasks	Alarms	Supported	Supported	Supported	Supported with limitations (8.0) ⁽¹⁷⁾
	Trend	Supported	Supported	Supported	Supported with limitations (8.0) ⁽¹⁸⁾
	Recipes	Supported	Supported	Supported	NOT supported
	Reports	Supported	Supported	Supported	NOT supported
	ODBC	Supported	Supported with limitations ⁽³⁾	Supported with limitations ⁽³⁾	NOT supported
	Math	Supported	Supported	Supported	Supported with limitations (8.0+SP1)
	Script	Supported	Supported	Supported	NOT supported
	Scheduler	Supported	Supported	Supported	NOT supported
	Database/ERP	Supported	Supported	Supported	Supported with limitations (8.0+SP1) ⁽²⁵⁾
Communication	Drivers	Supported	Supported with limitations ⁽⁵⁾	Supported with limitations ⁽⁵⁾	Supported with limitations (8.0) ⁽⁵⁾
	OPC DA 2.5 Client	Supported	Supported	Supported with limitations ⁽⁴⁾	NOT supported
	OPC DA 2.5 Server	Supported	Supported	Supported with limitations ⁽⁴⁾	NOT supported
	OPC XML/DA Client	Supported	NOT supported	NOT supported	NOT supported
	OPC UA Client	Supported	Supported	Supported with limitations ⁽¹⁾	Supported
	OPC .NET Client	Supported	NOT supported	NOT supported	NOT supported
	TCP/IP Client	Supported	Supported	Supported	NOT supported
	TCP/IP Server	Supported	Supported	Supported	NOT supported
	Mobile Access Runtime	Supported	Supported	Supported	Supported (8.0)
	DDE and NetDDE Client	Supported	NOT supported	NOT supported	NOT supported
	DDE and NetDDE Server	Supported	NOT supported	NOT supported	NOT supported
	OPC HDA Server	Supported	NOT supported	NOT supported	NOT supported
	Graphical interface	Screens	Supported	Supported	Supported
Screen Group		Supported	Supported	Supported	Supported (8.0)
Graphic Script		Supported	Supported	Supported	NOT supported
Local Viewer		Supported	Supported	Supported	NOT supported
Server for SMA Thin Clients (HTML5)		Supported	Supported	Supported with limitations (8.0) ⁽⁶⁾	Supported (8.0)
Server for Secure Viewer Thin Clients		Supported	Supported	Supported	NOT supported
Server for Web Thin Clients		Supported	Supported	Supported	NOT supported
Support for CGI Web Servers		Supported (8.0)	Supported (8.0)	Supported (8.0)	Supported (8.0)
Screen Scripts		Supported	Supported	Supported	Supported with limitations (8.0) ⁽²⁰⁾
Shapes		Supported	Supported	Supported	Supported (8.0)
Active Objects		Supported	Supported	Supported	Supported with limitations (8.0) ⁽²¹⁾
Data Objects (Alarm/Event, Trend, Grid)		Supported	Supported	Supported	Supported with limitations (8.0+SP1) ⁽²⁴⁾
Libraries - Project Symbols		Supported	Supported	Supported with limitations ⁽¹⁹⁾	Supported with limitations (8.0) ⁽¹⁹⁾
Libraries - Linked Pictures		Supported	Supported	Supported with limitations ⁽⁹⁾	Supported (8.0)
Libraries - .NET Controls		Supported	NOT supported	NOT supported	NOT supported
Libraries - ActiveX Controls		Supported	Supported	Supported with limitations ⁽²²⁾	NOT supported
Libraries - Custom Widgets		Supported (8.0+SP1)	Supported (8.0+SP1)	NOT supported	Supported (8.0+SP1)
Auto screen scaling		Supported	Supported with limitations ⁽⁷⁾	Supported with limitations ⁽⁷⁾	Supported (8.0)
Fill effects		Supported	Supported with limitations ⁽⁸⁾	Supported with limitations ⁽⁸⁾	Supported with limitations
Background Picture		Supported	Supported with limitations ⁽⁹⁾	Supported with limitations ⁽⁹⁾	Supported (8.0)
Ellipse Style Types		Supported	Supported with limitations ⁽¹⁰⁾	Supported with limitations ⁽¹⁰⁾	Supported with limitations (8.0) ⁽¹⁰⁾
Hint (Tooltip)		Supported	Supported with limitations ⁽¹¹⁾	Supported with limitations ⁽¹¹⁾	Supported with limitations (8.0) ⁽¹¹⁾
Command events		Supported	Supported with limitations ⁽¹²⁾	Supported with limitations ⁽¹²⁾	Supported with limitations (8.0) ⁽²³⁾
Rotation animation		Supported	Supported with limitations ⁽¹³⁾	Supported with limitations ⁽¹³⁾	Supported (8.0)
Trend Control > Export to Ie		Supported	NOT supported	NOT supported	NOT supported
Trend Control > Points > Pen Style > Fill		Supported	NOT supported	NOT supported	NOT supported
Enhanced graphics (anti-aliasing, gradual transparency)		Supported	NOT supported	NOT supported	Supported (8.0)
Multi-touch gestures	Supported	Supported with limitations ⁽¹⁴⁾	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	150, 300, 1500, or 4000
	Number of Thin Clients	Unlimited ⁽²⁶⁾	Unlimited ⁽²⁶⁾	Unlimited ⁽²⁶⁾	Unlimited ⁽²⁶⁾
	License Server	Supported	NOT supported	NOT supported	NOT supported
	USB Hardkey	Supported	Supported with limitations ⁽¹⁵⁾	Supported with limitations ⁽¹⁵⁾	NOT supported

⁽¹⁾ Encryption supported by Full Runtime 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⁾ 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). 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.

⁽²⁴⁾ Trend Control Object supported on SMA with Tagname Data Source only. Grid Control supported with Database Data source only. See Tech Ref for supported features.

⁽²⁵⁾ Sub-set of DB/ERP functions supported. DB/ERP Worksheet not supported. See Tech Ref for details.

⁽²⁶⁾ Limited by license and external and physical constraints (hardware and operating system).