

# Choosing the ideal InTouch Edge HMI runtime edition solution for your project

InTouch Edge HMI is an integrated development environment, which allows you to design, develop, troubleshoot, and maintain SCADA/HMI/Edge applications and deploy them into different platforms (operating systems). You can use the same development environment (IDE) to create all projects, and run each project with the runtime edition most suitable for the technical and commercial constraints of each platform: InTouch Edge HMI Full Runtime for SCADA projects, EmbeddedView runtime for full featured HMIs, CEView for embedded HMIs, and IoTView runtime for IoT edge devices solutions.

## Runtime Editions for each platform

Platforms		Runtime Editions			
		Full Runtime	EmbeddedView	CEView	IoTView <sup>(2)</sup>
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 (LTSC/LTSC)	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 6 <sup>(1)</sup>	NOT Supported	NOT Supported	Supported	NOT Supported
	Windows Embedded Compact 7 <sup>(1)</sup>	NOT Supported	NOT Supported	Supported	NOT Supported
	Windows Embedded Compact 2013 <sup>(1)</sup>	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:

InTouch Edge HMI 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
<b>General</b>	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 <sup>(1)</sup>	Supported <sup>(27)</sup>
	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 <sup>(2)</sup>	Supported with limitations <sup>(2)</sup>	Supported with limitations (8.0) <sup>(2)</sup>
	Tag Integration (Shared Tags)	Supported	Supported	Supported	NOT supported
	ITHEViewApp object for System Platform	Supported	Supported	NOT supported	NOT supported
<b>Global</b>	Project Tags, System Tags, Classes and Arrays	Supported	Supported	Supported	Supported (8.0)
	Security System	Supported	Supported	Supported	Supported with limitations (8.0) <sup>(16)</sup>
	Procedures	Supported	Supported	Supported	NOT supported
	Event Logger	Supported	Supported	Supported	NOT supported
	Translation	Supported	Supported	Supported	NOT supported
<b>Tasks</b>	Alarms	Supported	Supported	Supported	Supported with limitations (8.0) <sup>(17)</sup>
	Trend	Supported	Supported	Supported	Supported with limitations (8.0) <sup>(18)</sup>
	Native Integration with Wonderware System Platform	Supported	Supported	NOT supported	NOT supported
	Native Integration with WW Historian (on premise)	Supported	Supported	NOT supported	NOT supported
	Native Integration with WW Online (on the cloud)	Supported	Supported	NOT supported	NOT supported
	Recipes	Supported	Supported	Supported	NOT supported
	Reports	Supported	Supported	Supported	NOT supported
	ODBC	Supported	Supported with limitations <sup>(3)</sup>	Supported with limitations <sup>(3)</sup>	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) <sup>(25)</sup>	
<b>Communication</b>	Drivers	Supported	Supported with limitations <sup>(5)</sup>	Supported with limitations <sup>(5)</sup>	Supported with limitations (8.0) <sup>(5)</sup>
	OPC DA 2.5 Client	Supported	Supported	Supported with limitations <sup>(4)</sup>	NOT supported
	OPC DA 2.5 Server	Supported	Supported	Supported with limitations <sup>(4)</sup>	NOT supported
	OPC XML/DA Client	Supported	NOT supported	NOT supported	NOT supported
	OPC UA Client	Supported	Supported	Supported with limitations <sup>(1)</sup>	Supported
	OPC UA Server	Supported	Supported	NOT supported	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)
	OPC HDA Server	Supported	NOT supported	NOT supported	NOT supported
<b>Graphical Interface</b>	Screens	Supported	Supported	Supported	Supported (8.0)
	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) <sup>(6)</sup>	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) <sup>(20)</sup>
	Shapes	Supported	Supported	Supported	Supported (8.0)
	Active Objects	Supported	Supported	Supported	Supported with limitations (8.0) <sup>(21)</sup>
	Data Objects (Alarm/Event, Trend, Grid)	Supported	Supported	Supported	Supported with limitations (8.0+SP1) <sup>(24)</sup>
	Libraries - Project Symbols	Supported	Supported	Supported with limitations <sup>(19)</sup>	Supported with limitations (8.0) <sup>(19)</sup>
	Libraries - Linked Pictures	Supported	Supported	Supported with limitations <sup>(9)</sup>	Supported (8.0)
	Libraries - .NET Controls	Supported	NOT supported	NOT supported	NOT supported
	Libraries - ActiveX Controls	Supported	Supported	Supported with limitations <sup>(22)</sup>	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 <sup>(7)</sup>	Supported with limitations <sup>(7)</sup>	Supported (8.0)
	Fill effects	Supported	Supported with limitations <sup>(8)</sup>	Supported with limitations <sup>(8)</sup>	Supported with limitations
	Background Picture	Supported	Supported with limitations <sup>(9)</sup>	Supported with limitations <sup>(9)</sup>	Supported (8.0)
	Ellipse Style Types	Supported	Supported with limitations <sup>(10)</sup>	Supported with limitations <sup>(10)</sup>	Supported with limitations (8.0) <sup>(10)</sup>
	Hint (Tooltip)	Supported	Supported with limitations <sup>(11)</sup>	Supported with limitations <sup>(11)</sup>	Supported with limitations (8.0) <sup>(11)</sup>
	Command events	Supported	Supported with limitations <sup>(12)</sup>	Supported with limitations <sup>(12)</sup>	Supported with limitations (8.0) <sup>(23)</sup>
	Rotation animation	Supported	Supported with limitations <sup>(13)</sup>	Supported with limitations <sup>(13)</sup>	Supported (8.0)
Trend Control > Export to File	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 <sup>(14)</sup>	Supported with limitations <sup>(14)</sup>	NOT supported	
<b>Licensing</b>	Number of Tags	500, 1K, 3K, 60K, Unlimited	100, 500, 1K, 2K, 3K	100, 500, 1K, 2K, 3K	100, 500, 1K, 2K, 3K
	Number of Thin Clients	Unlimited <sup>(26)</sup>	Unlimited <sup>(26)</sup>	Unlimited <sup>(26)</sup>	Unlimited <sup>(26)</sup>
	License Server	Supported	NOT supported	NOT supported	NOT supported
	USB Hardkey	Supported	Supported with limitations <sup>(15)</sup>	Supported with limitations <sup>(15)</sup>	NOT supported

<sup>(1)</sup> Encryption supported by Full Runtime and EmbeddedView, but not supported by CEView.

<sup>(2)</sup> 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".

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

<sup>(4)</sup> The image of the operating system must support Remote DCOM.

<sup>(5)</sup> 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.

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

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

<sup>(8)</sup> Fill effects are supported for Rectangle objects.

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

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

<sup>(11)</sup> 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.

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

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

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

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

<sup>(16)</sup> Local Mode only. Distributed and LDAP modes not supported.

<sup>(17)</sup> Alarm Online only. Alarm History not supported.

<sup>(18)</sup> History Format Database and Wonderware Online (CSV/JSON) only. History Format Proprietary not supported.

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

<sup>(20)</sup> Built-in language only.

<sup>(21)</sup> Pushbutton, ListBox and Smart message are supported now. See Tech Ref for details of individual feature support

<sup>(22)</sup> The ActiveX control must be compiled to the target platform.

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

<sup>(24)</sup> 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.

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

<sup>(26)</sup> Limited by license and external and physical constraints (hardware and operating system).

<sup>(27)</sup> Email (SMTP Client) is supported by IoTView via Exec() built in function calling a CURL script.