

# Web Studio Runtime Features Comparison

There are 4 Web Studio Runtime editions:

- Full Runtime - Windows/Windows Server installations
- EmbeddedView - Windows Embedded installations
- CEView - WindowsCE installations
- IoTView - embedded Linux installations

Most features are supported across all runtime editions. Therefore, normally the decision of which runtime edition depends on the selected hardware and size (requirements) of the application, including the number of tags.

However, even though the same development environment is used to create applications for all Runtime Editions, there are a few features supported by specific runtime editions, summarized in the table below.

Additional limitations apply to IoTView, which are changing as the product evolves. Please contact SoftPLC Corporation or the product documentation for more information.

This table was last updated to reflect version 8.0 SP1.

Feature	Full	Embedded/ CEView	IoTView
<b>General</b>			
Run applications designed in Web Studio IDE	Supported	Supported	Supported
Run as a Service	Supported	NOT supported	NOT supported
Email (SMTP Client)	Supported	Supported with limitations (1)	NOT supported
Create tags programmatically during the runtime	Supported	NOT supported	NOT supported
Create screens programmatically 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 (2)
Tag Integration (Shared Tags)	Supported	Supported	NOT supported
<b>Global</b>			
Project Tags, System Tags, Classes and Arrays	Supported	Supported	Supported
Security System	Supported	Supported	Supported with limitations (16)
Procedures	Supported	Supported	NOT supported
Event Logger	Supported	Supported	NOT supported
Translation	Supported	Supported	NOT supported

Feature	Full	Embedded/ CEView	IoTView
<b>Tasks</b>			
Alarms	Supported	Supported	Supported with limitations (17)
Trend	Supported	Supported	Supported with limitations (18)
Recipes	Supported	Supported	NOT supported
Reports	Supported	Supported	NOT supported
ODBC	Supported	Supported with limitations (3)	NOT supported
Math	Supported	Supported	Supported with limitations
Script	Supported	Supported	NOT supported
Scheduler	Supported	Supported	NOT supported
Database/ERP	Supported	Supported	Supported with limitations (25)
<b>Communication</b>			
Drivers	Supported	Supported with limitations (5)	Supported with limitations (5)
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)	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
DDE and NetDDE Client	Supported	NOT supported	NOT supported
DDE and NetDDE Server	Supported	NOT supported	NOT supported
OPC HDA Server	Supported	NOT supported	NOT supported
<b>Graphical Interface</b>			
Screens	Supported	Supported	Supported
Screen Group	Supported	Supported	Supported
Graphic Script	Supported	Supported	NOT supported
Local Viewer	Supported	Supported	NOT supported
Server for SMA Thin Clients (HTML5)	Supported	Supported with limitations (6)	Supported
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	Supported	Supported
Screen Scripts	Supported	Supported	Supported with limitations (20)
Shapes	Supported	Supported	Supported
Active Objects	Supported	Supported	Supported with limitations (21)
Data Objects (Alarm/Event, Trend, Grid)	Supported	Supported	Supported with

Feature	Full	Embedded/ CEView	IoTView
			limitations (24)
Libraries - Project Symbols	Supported	Supported with limitations (19)	Supported with limitations (19)
Libraries - Linked Pictures	Supported	Supported with limitations (9)	Supported
Libraries - .NET Controls	Supported	NOT supported	NOT supported
Libraries - ActiveX Controls	Supported	Supported with limitations (22)	NOT supported
Libraries - Custom Widgets	Supported	Supported (26)	Supported
Auto screen scaling	Supported	Supported with limitations (7)	Supported
Fill effects	Supported	Supported with limitations (8)	Supported with limitations
Background Picture	Supported	Supported with limitations (9)	Supported
Ellipse Style Types	Supported	Supported with limitations (10)	Supported with limitations (10)
Hint (Tooltip)	Supported	Supported with limitations (11)	Supported with limitations (11)
Command events	Supported	Supported with limitations (12)	Supported with limitations (23)
Rotation animation	Supported	Supported with limitations (13)	Supported
Trend Control > Export to Excel	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
Multi-touch gestures	Supported	Supported with limitations (14)	NOT supported
<b>Licensing</b>			
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	Unlimited (27)	Unlimited (27)	Unlimited (27)
License Server	Supported	NOT supported	NOT supported
USB Hardkey	Supported	Supported with limitations (15)	NOT supported

## Notes:

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

(2) The vast majority of 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.

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

(4) Multi-thread not supported (single thread supported). Also, the O/S image must support Remote DCOM.

(5) The majority of communication drivers are supported by many Runtime Editions. However, specific drivers are not supported on specific platforms. The complete reference is available through the actual product and at the SoftPLC website. 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) BMP, JPG, and PNG are supported, 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) Supported by EmbeddedView, but not CEView.

(27) Limited by hardware and operating system.