

**Product Line:** Siemens ALN  
Controllers

**Distribution:** Multichannel

**Date:** April 01, 2015

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## Field Panel Web Server V3 for Siemens APOGEE PXC Modular and PXC Compact Controllers



### Product Description

The Field Panel Web Server is the browser-based graphical user interface that allows you to monitor and control the system using a graphical Web-based interface. The solution also allows setting up, monitoring and controlling the Siemens Field Panel. It includes a comprehensive set of free tools. Custom graphics can be added using a licensed option, that provides a cost effective Siemens PXC based solution for small Building Automation Systems.

The new Field Panel Web Server V3 (part of Firmware 3.3.1) adds the following functionality:

- Kiosk mode for optional enhanced custom graphics (additional license required).
- Application Monitoring and Control System Tool (AppMC) with default graphics for PTEC and ATEC applications.

### Unique Selling Points

- System graphical user interface with state of the art graphics.
- Free intuitive default graphics for most PTEC and ATEC applications with the AppMC.
- Improved graphics setup and management efficiency.
- Anywhere, anytime Web-based system access with PXC Modular or PXC Compact 36.

### Reason for Release

Added functionality with Firmware 3.3.1

### List of Key Product Features

- Free default graphics for PTEC and ATEC applications.
- Enhanced custom graphics creation tool with new licensing.

# Sales Release

<b>Name</b>	Field Panel Web Server
<b>Delivery Release/Orders Accepted Date (month)</b>	March 2015
<b>Delivery Time/Lead Time</b>	Available through SAP.
<b>Sales Channels/Regions Where Product is Sold</b>	SSP and VAP APOGEE system channels in U.S., Canada, Asia Pacific, Latin America, and United Kingdom
<b>Price Information</b>	Please refer to the reference price information in the current price list.
<b>Embargo Designator (ECCN, AL, and so on)</b>	EAR99

## References

### Sales Documentation

Document	Part Number	Comments
Initial Sales Release	SR-785	Available Electronically
Technical Specification Sheet	149-835	Available Electronically
Installation Instructions	550-106	Available Electronically
Startup Procedures	140-0977	Available Electronically

### Product Documentation

Document	Part Number	Comments
<a href="#">Field Panel Web Server User Guide</a>	125-3584	Available Electronically
<a href="#">BACnet ALN Field Panel User's Manual</a>	125-3020	Available Electronically
<a href="#">Field Panel Web Server Quick Start Guide</a>	125-3585	Available Electronically
<a href="#">Field Panel Web Server Technical Specification Sheet</a>	149-1000	Available Electronically
<a href="#">Field Panel Configuration and Sizing Guidelines</a>	145-214	Available Electronically
<a href="#">Field Panel Web Server Technical White Paper</a>	149-1003	Available Electronically
<a href="#">FPWeb and Kiosk demo site training slide deck</a>	n/a	Available Electronically

A FPWeb and FIN Builder Kiosk graphics [demonstration site is available](#) for internal training, or to show to customers, consulting engineers, or ePXC. It is available at:

Demo Site IP address	<a href="http://194.138.216.36/wsroot/index.html">http://194.138.216.36/wsroot/index.html</a>
Log in User Name	GST
Password	Guest@2014

## Product Description

The new version of the Field Panel Web Server includes support for the Kiosk graphics built using the FIN Builder graphics tool (can be downloaded for free from Standard Apps; see link at Order Information and Pricing), and is designed to be used with the Siemens PXC Compact and PXC Modular controller. The FIN Builder tool provides a comprehensive library of vivid, animated 3D graphical *smart objects* and elements, providing you with a visually appealing graphical interface experience. The custom graphics created by the FIN Builder tool are activated using BACnet IP PXC Compact and/or BACnet IP PXC Modular controller licensing.

The solution includes:

- **Application Monitoring and Control (AppMC)**

A license free tool, that allows the automatic generation of system navigation trees and provides interactive default graphics for most Siemens PTEC and ATEC controller applications, thus increasing the functionality and value, and decreasing the installed cost of the PXC Compact and PXC Modular based system.

**Note:**

- The AppMC requires at least one BACnet IP based PXC Compact 36 and/or PXC Modular controller on the network to host the graphics files.
- In its current version, it can only access FLN devices on the local FLN of the controller it is installed on.

- **Siemens Connector for FIN Builder Graphics**

The Siemens Connector is designed to connect FIN Builder based graphics with the Siemens PXC Compact and PXC Modular controllers. The solution is designed for easy implementation of highly functional and visually impressive graphics. Using custom graphics (graphics other than those provided with the AppMC) built with FIN Builder tool requires at least one BACnet IP based PXC Compact 36 and/or PXC Modular controller on the network to host the graphic files, along with a license.

With the Field Panel Web Server, AppMC, and the new Kiosk graphics mode, the overall installation, commissioning and setup cost of any project can be drastically reduced. In addition, the custom FIN Builder Kiosk graphics will result in greater customer satisfaction and added value to the overall system without requiring a computer-based management station.

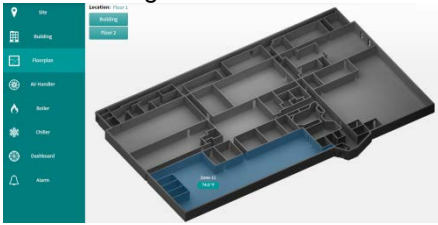
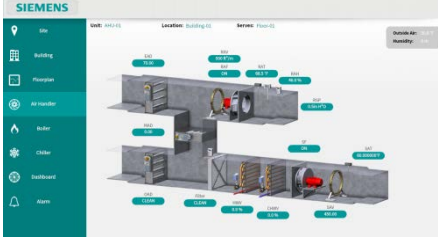
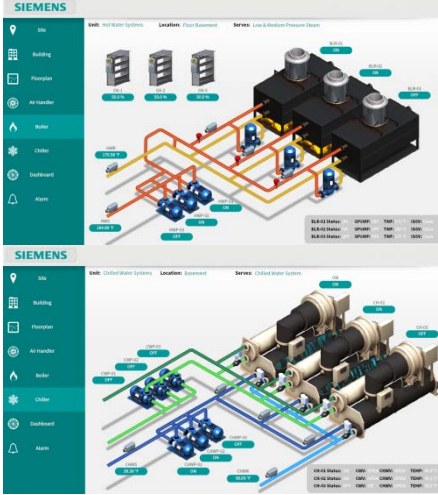
**NOTE:** The new FIN Builder based Kiosk and AppMC graphics are not currently compatible with the Siemens Launch Pad solution; however, the original FIN Lite based Field Panel Web Server graphical user interface can be used with the Siemens Launch Pad on any PXC Compact and PXC Modular controller. When using the browser-based Field Panel Web Server solution, at least one BACnet IP based PXC Compact 36 and/or PXC Modular controller on the network is required to host the graphics files.



All Field Panel Web Server Browser based graphics including Kiosk graphics are accessed using a computer, laptop or tablet with a standard Web browser such as Internet Explorer, Chrome, FireFox, or Safari which also has Adobe Flash capability.

The FPWeb UI, AppMC and FIN Builder graphics require BACnet IP PXC controllers. This functionality is currently not available on BACnet MS/TP PXC controllers or PXC with proprietary communication (P1/P2).


# New Features, Functions and Benefits

## FIN Builder Graphics


Features	Functions	Benefits
<p>FIN Builder Graphics Tool Support for Graphics</p>	<p>The Field Panel Web Server now supports the FIN Builder graphics tool and allows you to create and build industry leading animated graphics and dashboards, and publish the graphics to the PXC Compact 36 or PXC Modular controller as a Field Panel Web Server Kiosk solution.</p>	<p>The FIN Builder tool is easy to use and understand with a complete graphics object library and smart objects that allow graphic designers to quickly build standard graphics and templates.</p>
<p>Create Navigation</p> 	<p>With FIN Builder, you can create powerful navigation for your entire graphics project quickly and efficiently.</p>	<p>Navigation is an important element of the user experience since the user navigates on a daily basis. The ease of implementation will help you satisfy and retain more customers, at a lower design and installation cost.</p>
<p>Create Air Handler graphics</p> 	<p>With FIN Builder and its library of smart objects, you can make Air Handler graphics faster than ever before.</p>	<p>By simply dragging-and-dropping 3D smart objects from the FIN Builder library of objects representing ducts, coils, fans and sensors, it is simple to create a typical air handler.</p>
<p>Create Central Plant graphics</p> 	<p>FIN Builder has a special feature, called <i>Central Plant Builder</i>, which provides new way of building central plant graphics.</p>	<p>Create 3D plant graphics without complicated 3D drawing packages.</p> <p>Design central plant graphics with 3D piping, complete with fittings and even shadows, faster than any tool on the market. Drag-and-drop live sensor data to get dynamic variable associated color changes of the piping graphics in real-time.</p>

<p>Create Custom Dashboards</p> 	<p>Build custom dashboards quickly and easily using the library of smart objects, icons, gauges and other visual elements and components using FIN Builder.</p>	<p>Create dashboards to meet your customer's specifications to visualize energy data, control system information and other key system operations indicators.</p> <p>Use FIN Builder to incorporate screens from other applications, if required.</p> <p>Provide a custom built solution to meet the exact needs of your customer.</p>
<p>Reuse Created Graphics</p> 	<p>Use the FIN Builder library repository to create graphics once and then share them as a company standard.</p>	<p>Reuse the graphics time and again with little or no modification; saving time, effort, and preventing mistakes by using proven solutions.</p>

## Kiosk

Features	Functions	Benefits
<p>Kiosk</p> 	<p>New graphics libraries in the FIN Builder tool provide industry leading custom graphics, smart objects and elements; and AppMC based default graphics using the Field Panel Web Server solution for smaller project sites and to enhance larger sites.</p>	<p>Improved system graphics using the Field Panel Web Server provides a fantastic customer experience with industry leading graphics in a very cost effective package, without the need for dedicated computers, software, and installation costs associated with a workstation solution. Intended for smaller sites with one to ten BACnet IP controllers on a single network. The Field Panel Web Server also enhances larger sites by providing specific tailored access to system segments.</p>

## Application Monitoring and Control, AppMC

Features	Functions	Benefits
<p>AppMC</p> 	<p>Application MC is the PXC Compact and PXC Modular based Appliance that supports FIN Builder based PTEC and ATEC default graphics. Create the system FLN database and a navigation tree for Siemens PTEC and ATEC devices.</p> <p>Contains free standard graphics for PTEC and ATEC standard applications and their</p>	<p>Provides dynamic default graphics for the most popular PTEC and ATEC applications with streamlined implementation and no additional license fees. The included and license free default graphics allow visualization and interaction with the PTEC and ATEC standard application points. Where appropriate, a balancer tool is also included. The graphics also include the application specification sheets which can be accessed clicking a</p>

	documentation. No license required for the default graphics.	button on the graphic. AppMC graphics can be used as templates for other applications by editing them in FIN Builder. An edited or customized AppMC graphic requires a license.
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## Highlights

- Introduction of FIN Builder graphics that allows creating highly functional, visually stunning graphical representations of the BAS.
- Kiosk mode to deposit and access FIN Builder graphics on a PXC-36 or PXC Modular controller with the appropriate license.
- Free AppMC tool including default graphics and application specification sheets for most PTEC and ATEC applications.
- AppMC graphics can be used as templates to create new application graphics by editing them in FIN Builder. An edited AppMC graphic requires the appropriate license.
- Ability to use graphics created with FIN Builder on a PXC Modular or PXC-36 with the appropriate license.

## Technical Information

The Field Panel Web Server (FPWeb) tools (not including Kiosk graphics) are an integral part of the Siemens APOGEE BACnet IP PXC controller's firmware and do not require a license. Some higher graphical functions, such as the ability to display FIN Builder or FINLite Graphics, do require a license and at least one PXC Modular or PXC-36 on the ALN network.

The FIN Builder graphics creation tool does not require licensing for Siemens employees and Siemens partners. It can be downloaded from the Standard Apps Drive. The required Siemens connector, the connector to allow data from a PXC controller to be used on a FIN Builder Graphic, can also be downloaded from the Standard Apps Drive and installed into FIN Builder with no license. A license is required if a graphic created with FIN Builder is loaded onto a PXC Modular or PXC-36. The new licenses are as follows:

### **LSM-FPWEBPLHST – Field Panel Web Server FIN Builder Graphic Host License**

This license allows the deployment of FIN Builder graphics and its usage on a PXC Modular or PXC-36 controller (a USB Memory device is also required on Drive B of the controller). Any points in the database (including supervised MS/TP FLN devices) of the controller that the license is deployed to, can be used with FIN Builder graphics.

### **LSM-FPWEBPL – Field Panel Web Server FIN Builder Graphic Service License**

This license allows the data of additional Siemens BACnet IP PXC Compact and/or PXC Modular controller(s) on the ALN (Automation Level Network) to be accessed by the graphic Host controller, and therefore support live data updates on the FIN Builder based graphics.

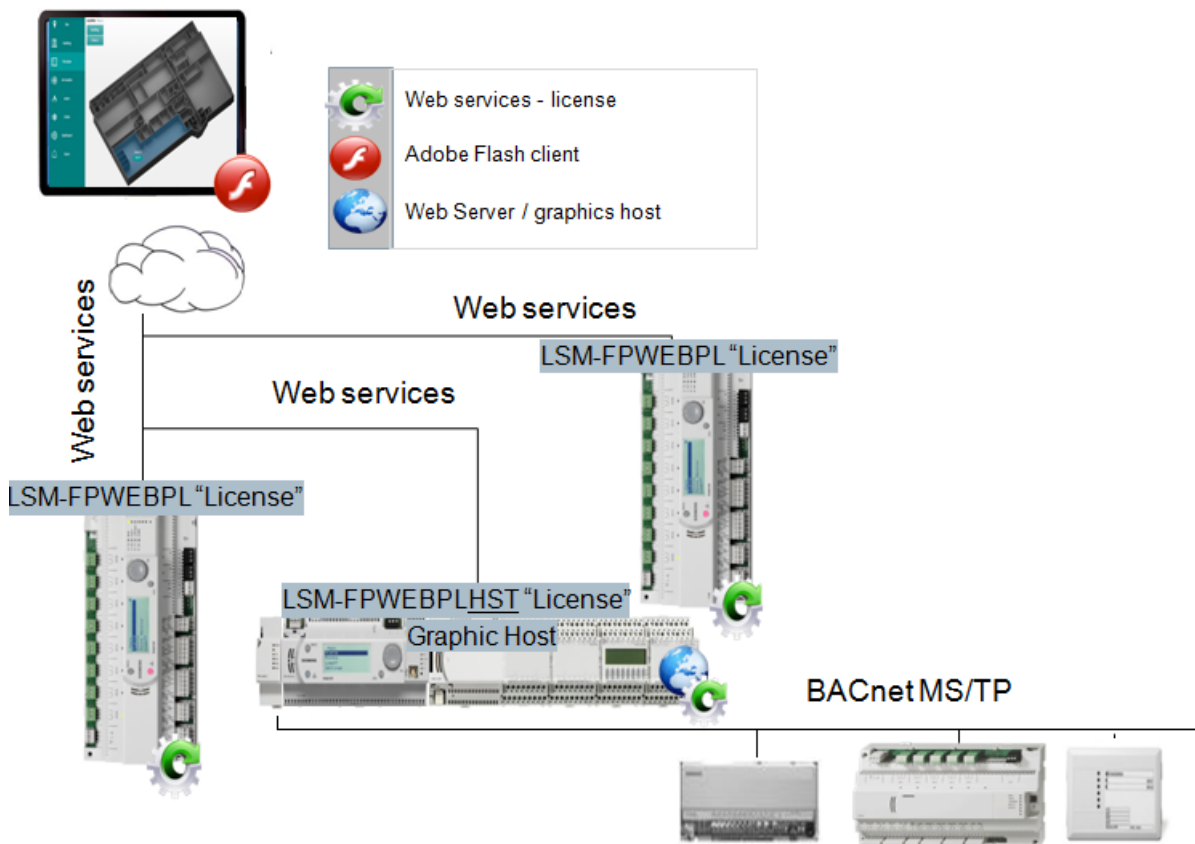
The following example shows a system with four PXC Compact controllers on the BACnet IP ALN (Automation Level Network). Of the four PXC Compact controllers, one is the graphic host controller (User Interface Files hosted on controller USB memory stick) and the other three PXC Compact controllers are Web service enabled controllers (serve data to the graphics hosted on the host controller). In this case, the required licensing is as follows:

BACnet IP PXC Compact Controllers	License required
PXC-36	LSM-FPWEBPLHST
PXC-24	LSM-FPWEBPL
PXC-16	LSM-FPWEBPL
PXC-16	LSM-FPWEBPL
FPWebUI Tools	No License required
AppMC	No License required



# System Configuration

## Sample System Diagram



## Field Panel Web Server User Interface (FPWeb UI) and AppMC

The following tables show the requirements for using the free Field Panel Web Server User Interface (FPWeb UI) and the AppMC on a Siemens PXC Modular controller or Siemens PXC compact controller.

- Single controller system  
An ALN with only one BACnet IP PXC controller.
- Multiple controller system  
An ALN with multiple BACnet IP PXC controllers of which one is configured as the FIN Builder graphics Host controller and the remaining, as required, configured as the FIN Builder graphics Service controller.

Field Panel Web Server Connection Options for a Single Controller System				
Controller	Access Using a Browser	Access Using Launch Pad	FPWEB UI AppMC	Comment
PXC Modular	Yes	Yes	No License required	FPWebUI files must be deployed to the controller for browser-based access.
PXC-36	Yes	Yes	No License required	FPWebUI files must be deployed to the controller for browser-based access.

Field Panel Web Server Connection Options for a Single Controller System				
Controller	Access Using a Browser	Access Using Launch Pad	FPWEB UI AppMC	Comment
PXC-24	No	Yes	No License required	The FPWebUI files are installed on the accessing computer with the Siemens Launch Pad.
PXC-16	No	Yes	No License required	The FPWebUI files are installed on the accessing computer with the Siemens Launch Pad.

**NOTE:** A license is required for custom made FIN Builder or FINLite graphics.

Field Panel Web Server Connection Options for Multiple Controller System				
Controller	Access Using Browser-based User Interface	Access Using Launch Pad-based User Interface	FPWEB UI AppMC	Comment
PXC-Modular	Yes	Yes	No License required	FPWebUI files must be deployed to the controller for browser-based access.
PXC-36	Yes	Yes	No License required	FPWebUI files must be deployed to the controller for browser-based access.
PXC-24	*Only indirect through a PXC-36 or PXC Modular	Yes	No License required	The FPWebUI files are installed on the accessing computer with the Siemens Launch Pad.
PXC-16	*Only indirect through a PXC 36 or PXC Modular	Yes	No License required	The FPWebUI files are installed on the accessing computer with the Siemens Launch Pad.

Once you are logged onto a Siemens controller, all controllers on the ALN network can be accessed using the FPWebUI. Therefore, if browser-based access is required, one PXC-36 or PXC Modular on the network is sufficient to access all other PXC controllers (including PXC-24 or PXC-16) through the PXC-36/PXC Modular.



## FIN Builder Graphics

The following tables show the availability and requirements for using custom made FIN Builder graphics on a Siemens PXC Modular controller or Siemens PXC Compact controller.

BACnet IP Controller	FIN Builder Graphic Host Controller	FIN Builder Graphic Service Controller	USB Memory Device Support for Graphics	Capable to be licensed with:
PXC Modular	Yes	Yes	Yes (required for the Host Controller)	LSM-FPWEBPL (Service) LSM-FPWEBPLHST (Host)
PXC 36	Yes	Yes	Yes (required for the Host Controller)	LSM-FPWEBPL (Service) LSM-FPWEBPLHST (Host)
PXC 24	No	Yes	not available	LSM-FPWEBPL (Service)
PXC 16	No	Yes	not available	LSM-FPWEBPL (Service)

## Sales

### Sales Objectives/Sales Strategy

The Field Panel Web Server provides considerable savings in the initial cost of the project, as well as during the installation, by providing considerable installation labor time savings. It also provides added value with its extensive functionality and the optional enhanced graphics.

#### Project Cost Savings:

##### Free System Management Tools:

Can be used by the end user to manage the system during the live cycle, saving cost for an additional system management tool.

##### Installations Savings:

- **Free System Setup Tools**  
Allows for a more efficient system installation and diagnostic saving time during the installation.
- **Auto detection of FLN devices**  
No need to 'walk' to every FLN device on the FLN trunk saving time during the installation
- **Includes standard graphics**  
Offers a prebuilt graphical user interface to most PTEC and ATEC applications for efficient set up and monitoring which saves time during the installation and commissioning.

##### Added Value:

Offers a highly functional, intuitive user interface for system diagnostics and system management, including scheduling, trending, point control and more.

## Order Information and Pricing

Product Description	Part Number	SSN (Siemens Sach Number)	U.S. List \$	Weight of Unit	Size of Unit	Material Description
Field Panel Web Server Host license	LSM-FPWEBPLHST	P55801-Y108	\$2,490	n/a	n/a	Enables a Siemens Modular or Compact 36 controller to host FIN Builder Graphics.
FIN Builder Graphics Service license	LSM-FPWEBPL	P55801-Y109	\$1,523	n/a	n/a	Enables any Siemens ALN controller to supply the host controller with data for FIN Builder graphics.
Field Panel Web Server	n/a	n/a	<a href="#">Free download from Standard Apps</a> <a href="#">Beacon stdapps</a>	n/a	n/a	System setup, monitoring and management tool.
FIN Builder	n/a	n/a	<a href="#">Free download from Standard Apps</a> <a href="#">Beacon stdapps</a>	n/a	n/a	Graphics creation tool
Siemens Connector	n/a	n/a	<a href="#">Free download from Standard Apps</a> <a href="#">Beacon stdapps</a>	n/a	n/a	Connector between PXC controller and FIN Builder. Must be installed in FIN Builder
Kiosk	n/a	n/a	Installed with AppMC	n/a	n/a	Installed with the deployment of AppMC
AppMC	n/a	n/a	<a href="#">Free download from Standard Apps</a> <a href="#">Beacon stdapps</a>	n/a	n/a	System setup, monitoring and management tool.
Siemens Launch Pad	n/a	n/a	<a href="#">Free download from Standard Apps</a> <a href="#">Beacon stdapps</a>	n/a	n/a	Thick client to use the Web Server graphics on any PXC controller.

<b>Order information</b>	<b>Domestic Orders</b>  Domestic Customer Support:  Phone: 1-800-516-9964  Email: <a href="mailto:bgcustomersupport.industry@siemens.com">bgcustomersupport.industry@siemens.com</a>	<b>International Orders</b>  <b>ARE – 439N</b>  <b>Org ID:</b> A1202186- E1P  Email: <a href="mailto:sbt_intlcustomer.service.industry@siemens.com">sbt_intlcustomer.service.industry@siemens.com</a>  Fax: 1-973-461-4300  Phone: 1-800-516-9964
<b>Return Items</b>	Requests and inquiries:  Email: <a href="mailto:rpo.regreturncenters.industry@siemens.com">rpo.regreturncenters.industry@siemens.com</a>  Phone: 1-800-516-9964  Physical Return: Siemens Industry Building Technologies 1000 Deerfield Parkway Buffalo Grove, IL 60089	Requests and inquiries:  Email: <a href="mailto:rpo.regreturncenters.industry@siemens.com">rpo.regreturncenters.industry@siemens.com</a>  Phone: 1-800-516-9964  Physical Return: Siemens Industry Building Technologies 1000 Deerfield Parkway Buffalo Grove, IL 60089

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Printed in the USA  
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