



Integrating Central Plant Data with 75F & ACE IoT Solutions

SOLUTION

Accessing most central plant equipment data can be costly and time consuming. With 75F, customers can unlock and analyze near real-time data from their legacy air handlers, boilers, and chillers within 75F® Portfolio Analytics Manager™ (PAM), the data analytics dashboard feature of user portal Facilisight. Combined with data from 75F devices, this offering delivers holistic insight and control over all your facility's most critical HVAC equipment, out of the box.

OVERVIEW

75F works in tandem with ACE IoT Solutions to provide legacy central plant equipment data in a scalable and affordable way. ACE IoT Solutions is a software company that leverages the Pacific Northwest National Lab-developed, open-source Eclipse VOLTTRON to acquire and trend data securely. 75F's PAM ingests desired data directly from ACE IoT's managed cloud platform, and customers can access, analyze, and share this data in near real-time.

Eclipse VOLTTRON is deployed via an industrial PC — or gateway — with dual ethernet connectivity and multiple expansion options to enable reliable data acquisition in campus, building and factory environments. The gateway connects directly to the legacy equipment or to a Building Automation System that connects to the legacy equipment. One gateway is deployed onsite at each location where legacy equipment data is to be acquired.

KEY FEATURES

— **Works out of the box.** Having the gateway deployed onsite provides for more robust data collection and a rapid and simple setup process for all parties. Like all 75F solutions, this feature is designed to work out of the box. Legacy equipment data will be accessible via 75F Portfolio Analytics Manager the same day the ACE IoT gateway is deployed.

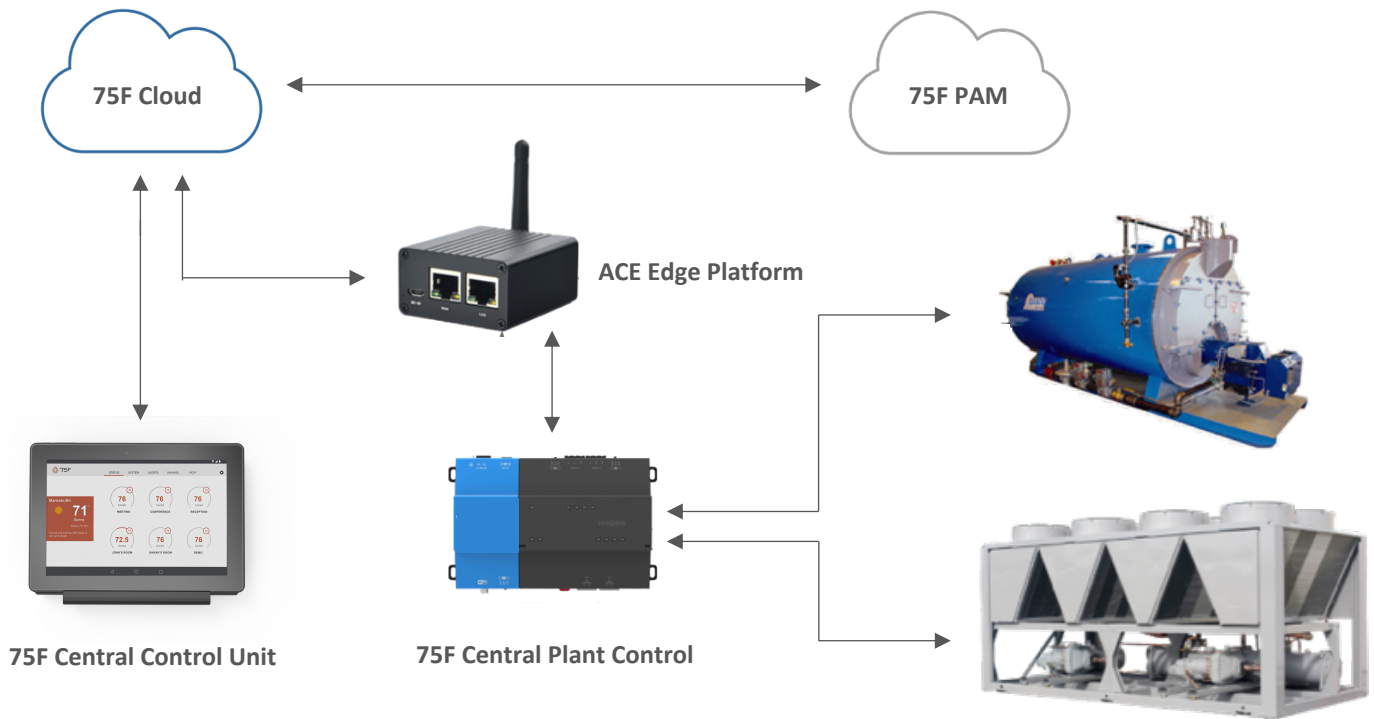
— **Security.** The ACE IoT gateway uses two ethernet connections: one to the legacy equipment or to a BAS Local Area Network, and the second to the Internet. A secure overlay network enables a point-to-point connection between the edge computer and the ACE IoT Managed Cloud. The overlay intelligently selects from multiple NAT traversal options, enabling plug-and-play connectivity in the majority of networks without complex firewall rules.



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HOW IT WORKS



75F® PORTFOLIO ANALYTICS MANAGER™

Portfolio Analytics Manager (PAM) is 75F's solution for all user data analytics and monitoring. Part of our building intelligence suite of web and mobile apps, Facilisight, PAM gives users dynamic insight into energy data across their portfolio and flexible control over the information they see through customizable, shareable dashboards and widgets. The PAM platform is where 75F users will be able to access and analyze their central plant data provided by the ACE IoT Solutions Edge Platform.

The PAM dashboard comes pre-packed with powerful data charts that give facility managers a deeper understanding of their portfolio's relationship with energy. From a 3D terrain chart that tracks energy consumption to a chart that documents your carbon footprint reduction, facility managers have instant access to multiple visual perspectives and data sets.

Users are in control of what they see — build custom-filtered widgets to display energy data in the chart view that works best for you, or create new charts using any data available with 75F's building intelligence solution for a user-tailored PAM experience.

