

## **Richards-Zeta introduces the industry's revolutionary "Controls Vendor Free", Controls System**

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Traditionally building control systems have been defined by the manufacturer and the manufacturers' brand of controls systems. Today, with the launch of a "controls vendor free" control system, the industry is seeing a paradigm shift. Building owners and facility managers now have the ability to select building systems by a "best of breed" approach. No longer limited by the technology that the manufacturer is willing to provide, building owners and facility managers can decide on the best technology in circulation. RZ calls this the Intelligent Building Systems (IBS) architecture.

With the inception of perfectHOST™ in 1988, Richards-Zeta introduced an innovative approach to entering application data and program information into a building automation system; graphical programming. Users create a schematic drawing of the control system on a computer screen using templates, which flow through inputs, through processing logic, to outputs. When the drawing is complete, the application is then downloaded into the BAS hardware.

Coupled with the establishment of the internet and subsequent standards, Richards-Zeta introduced the RZ Mediator as a powerful, intelligent middleware solution comprised of both hardware and software which allows for the convergence of multiple disparate building systems and IT. This domain and protocol agnostic integration framework is able to communicate with a number of disparate protocols and normalizes both IP and legacy serial based protocols. This normalization in turn allows for intra-protocol communication, the uniform application of services such as logging, and the common presentation of information that is sourced from the array of intelligent machines found in buildings.

By combining these two powerful technologies RZ provides for full, closed loop control service to be applied to any connected system or device regardless of manufacture or protocol resulting in this revolutionary "controls vendor free", control system.

By installing the RZ Mediator infrastructure, users have the ability to easily install, network and integrate any third party controllers, systems and/or devices into the Mediator framework and combine further value by adding supervisory control strategies and additional control logic. With the Mediator architecture, any manufactures' devices and systems which support open protocol standards (XML, HTTP, BACnet/IP, Modbus, SNMP, LonWorks, etc.) or numerous systems with proprietary protocols (RZ currently supports <65), now become an integral part of the fully integrated Intelligent Building Systems (IBS).

The Mediator by design is an open source (Linux and Python based) embedded internet appliance. Its powerful Multi-Protocol eXchange (MPX) framework provides the enabling technology for building owners and facility managers to actively pursue and obtain the "best of breed" technology systems. Since all building systems data is normalized, the possibilities are endless and the implementation of fully integrated IBS systems is obtainable. Services such as advanced building systems analytics, energy management, automated demand response (ADR), automated fault detection and diagnostics (AFDD), computerized maintenance management systems (CMMS), work order systems, tenant billing, database management and global schedules are integrated within the building management systems.

### **About Richards-Zeta (RZ)**

Richards-Zeta Building Intelligence, Inc. (RZ) possesses over 20 years of BAS (Building Automation Systems) expertise, which is not only essential to understanding the market opportunity posed by migrating building systems to an IP centric solution, but is also critical to the development of this multi-billion dollar industry. RZ is a manufacturer of a complete line of DDC Controls as well as the RZ Mediator Multi-Protocol Exchange (MPX) platform which, as middleware, provides for the convergence of multiple disparate building systems onto the IP network. Richards-Zeta has a legacy of first to market innovations, including *perfectHOST*®, the industry's first all in one graphical programming and graphical user interface package, now an integral component of the Mediator's OMEGA® platform, a web-based graphical user interface. For more information on Richards-Zeta please go to: [www.richards-zeta.com](http://www.richards-zeta.com).

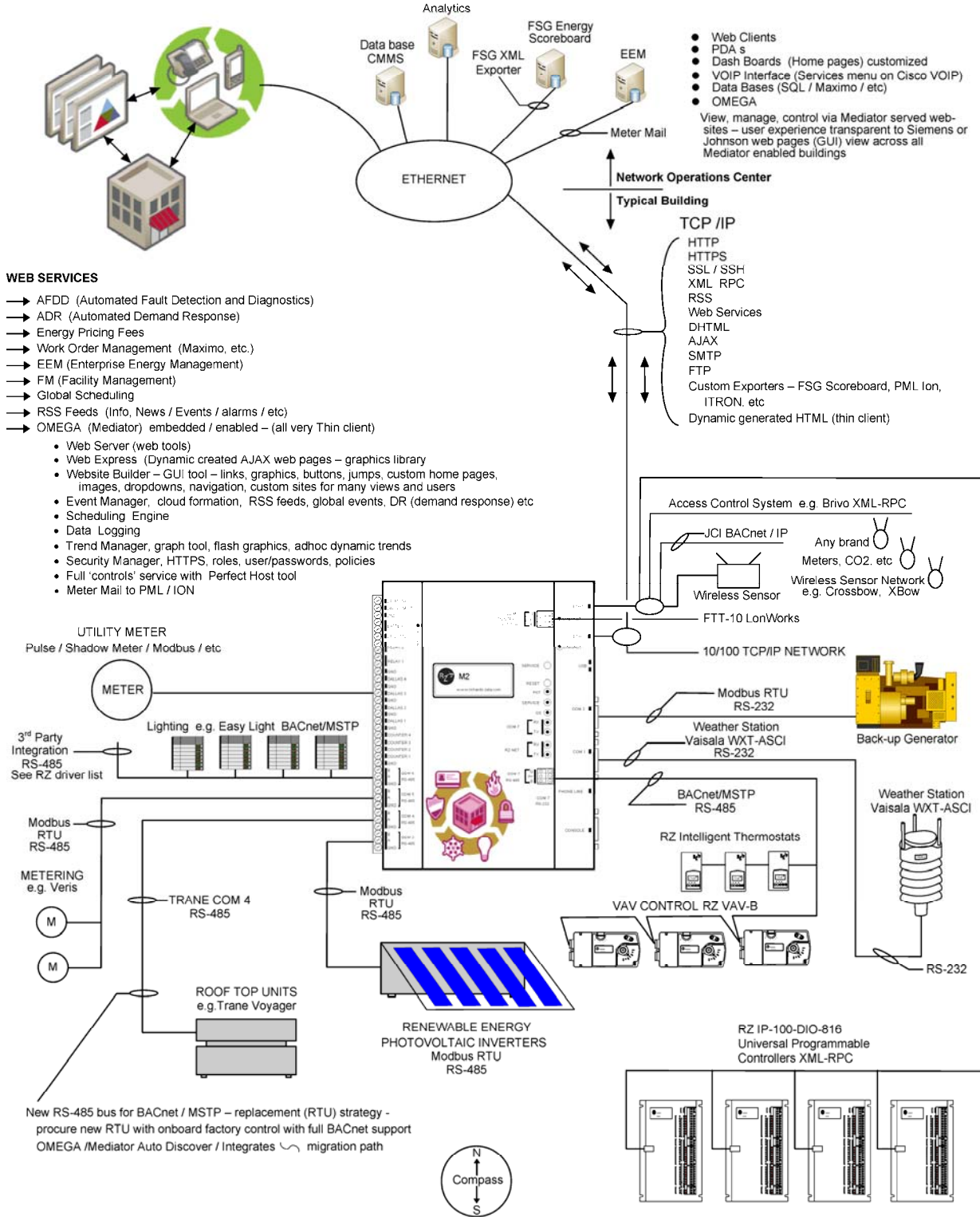
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# Intelligent Building System (IBS) Architecture



## WEB SERVICES

- AFDD (Automated Fault Detection and Diagnostics)
- ADR (Automated Demand Response)
- Energy Pricing Fees
- Work Order Management (Maximo, etc.)
- EEM (Enterprise Energy Management)
- FM (Facility Management)
- Global Scheduling
- RSS Feeds (Info, News / Events / alarms / etc)
- OMEGA (Mediator) embedded / enabled – (all very Thin client)

- Web Server (web tools)
- Web Express (Dynamic created AJAX web pages – graphics library)
- Website Builder – GUI tool – links, graphics, buttons, jumps, custom home pages, images, dropdowns, navigation, custom sites for many views and users
- Event Manager, cloud formation, RSS feeds, global events, DR (demand response) etc
- Scheduling Engine
- Data Logging
- Trend Manager, graph tool, flash graphics, adhoc dynamic trends
- Security Manager, HTTPS, roles, user/passwords, policies
- Full 'controls' service with Perfect Host tool
- Meter Mail to PML / ION

New RS-485 bus for BACnet / MSTP – replacement (RTU) strategy - procure new RTU with onboard factory control with full BACnet support OMEGA / Mediator Auto Discover / Integrates migration path