

StruxureWare™ Building Operation



**The journey continues
New features in release 1.2**

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Overview of StruxureWare Building Operation v1.2

- Increased scalability
- Support for Web Services
- Support for EcoStruxure™ Web Services
- New Energy Report Pack
- Support for NETWORK 8000 transition (Phase 2 of 2)
- Support for 64-bit environments
- Additional enhancements

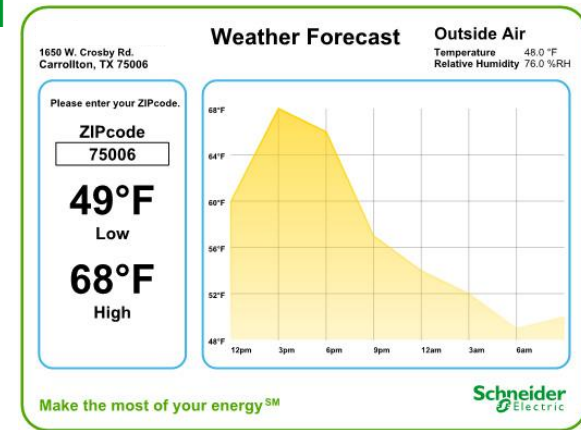
Increased scalability

- Maximum number of Automation Servers Increased to from 10 to 32 per Enterprise Server. Represents a 300%+ increase in scalability
 - 1 Enterprise Server per system
 - Number of field controllers supported remains the same
- Number of concurrent users increased
 - Up to 10 concurrent operator users per Automation Server or Enterprise Server
 - Operators monitor the system and make value changes to existing objects – e.g. temperature values, schedules
 - Up to 2 concurrent engineering users per Automation Server or Enterprise Server
 - Engineering users create objects, edit object configuration, and create/edit programs and graphics

Support for Web Services (Generic Consume)

- General web services implementation to bring in third party data into StruxureWare Building Operation

- Ideal when reading from and writing to third party systems
 - Connect to both SOAP and POX/REST web services
- Two approaches:
 - Binding tool, Script programming based



- IT-friendly and flexible

- Opens systems to exchange data beyond industry-specific protocols
- Because web services use IT standards-based communications methods, integration is platform independent

- Use case examples:

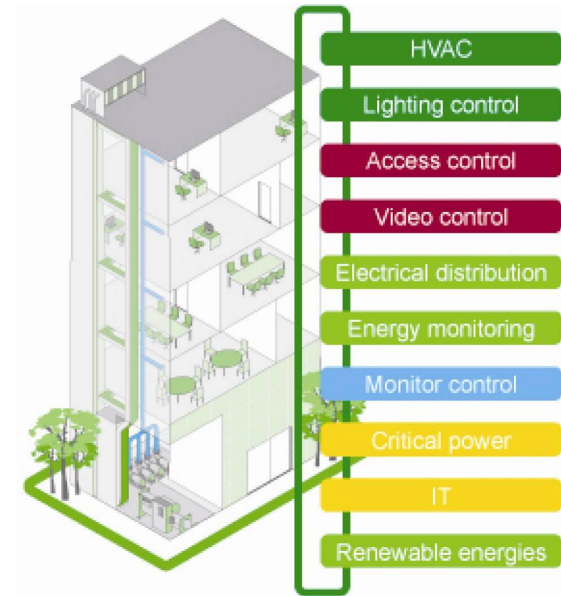
- Use data from a weather service to automatically adjust heating /cooling programs and blind control to save energy.
- Use data regarding fluctuating utility costs to load balance energy usage to save money

- Benefits:

- Customize, adjust and control site based on incoming information for greater efficiency

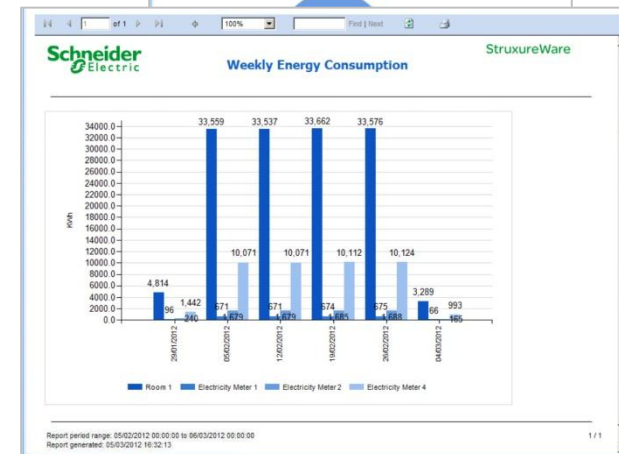
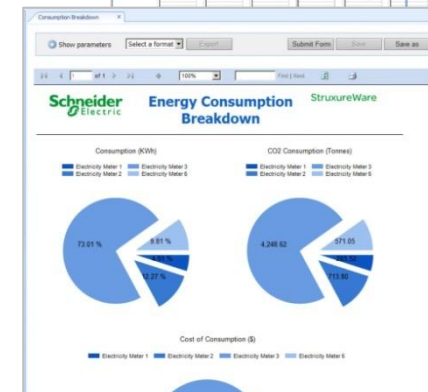
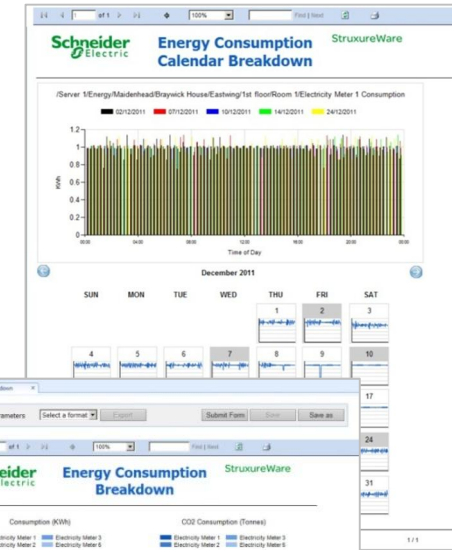
Support for EcoStruxure Web Services

- Consistent web services standard for Schneider Electric products implementing web services functionality
 - Common and easy integration into other Schneider Electric systems
 - Reduce time to market & complexity
- Additional web services functionality available when integrating multiple Schneider Electric systems
 - Functionality defined: **Serve** and **Consume**
 - Browse the other system's directories
 - Read/Write real time values
 - Receive and acknowledge active alarms
 - Read historical (trend log) data
- Secure log on with system user name and password
- Manage access to system directories and data
- Can be used with third parties (if third party supports the EWS standard)



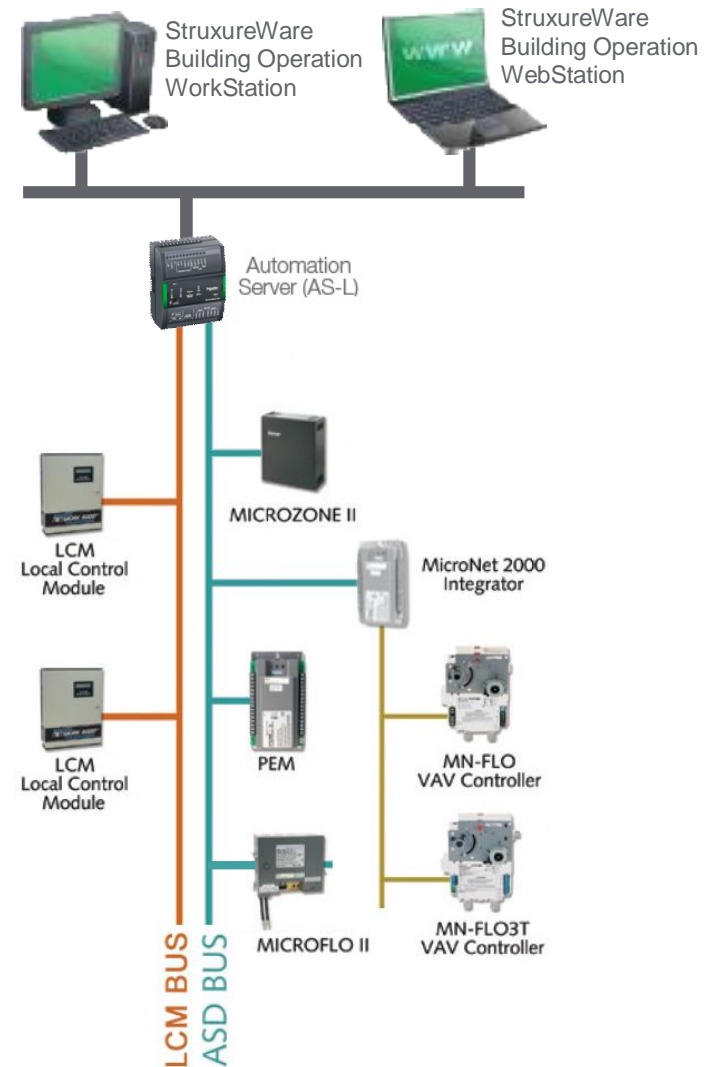
New Energy Report Pack

- New site and meter objects
 - Easily organize a site into logical sub-sections and collect consumption data
 - Create reports to compare meters and/or sites
- New energy consumption report templates:
 - Energy Consumption Report
 - Comparing meters and sites by time interval – e.g. daily, weekly
 - Energy Consumption Calendar Breakdown
 - Comparing the same meter or site on select days
 - Energy Consumption Breakdown
 - Estimating energy costs



Support for NETWORK 8000 transition (Phase 2 of 2)

- Adds support for Local Control Module (LCM) field bus directly under an Automation Server
- Includes SIGNAL Graphics conversion to Enterprise Server TGML Graphics
- Phase 1 included (and is still available in v1.2):
 - Support for ASD (Application Specific Device) field bus directly under an Automation Server
 - Global Control Module (GCM) controller database conversion service available
- Minimum NETWORK 8000 GCM controller version required for database conversion: v4.2




Support for 64-bit environments

- v1.2 introduces support for the following:
- Operating systems (64-bit environments):
 - WorkStation and the Enterprise Server
 - Microsoft Windows 7 Pro
 - Microsoft Windows Server 2008 R2
 - Reports Server
 - Microsoft Windows Server 2008 R2
- SQL database versions (64-bit):
 - Reports Server
 - Microsoft SQL Server 2008 R2 Express with Advanced Services
 - Microsoft SQL Server 2008 R2 Standard

Additional enhancements

- Secure communication

- Encrypted communication by default between Server(s) and WorkStation
- HTTPS supported on WebStation (for MS Internet Explorer v8 & Firefox v4 and later)



The screenshot shows a login window titled "Welcome to StruxureWare". It contains three input fields: "User name:", "Password:", and "Domain:". Below these fields is a checkbox labeled "Remember me". A green "Log on" button is located in the bottom right corner of the form.

- Microsoft Windows credential log on in systems with an Enterprise Server

- Use the same user name and password to log into WorkStation as used for the operating system
 - Users can log on to WorkStation using a different Windows account than the one currently logged into the operating system
- Reduces user and password management complexity

- Spreadsheet support for Modbus

- Create and edit multiple Modbus objects in a tabular format at once
- Ideal as a multi-editing and configuration tool

Additional enhancements, continued

- Unit conversion exceptions in WorkStation
 - Assign unit conversion exceptions to override automatic conversions accomplished by localization in WorkStation
- Optimize graphics to update visible values much faster
 - Disable/enable value updates in graphics
 - Hidden values can be configured to not consume bandwidth
- New WebStation features
 - Workspace selection maintained between log ons
 - Support to display stored document objects in servers
 - Support for Event Views
 - Support for more event types in Schedules and Calendars

Additional enhancements, continued

- New alarming features
 - Disable alarms upon creation and identify disabled alarms more easily
 - Allow emailing on all changes of state
- Web browser versions supported
 - Added support for:
 - Microsoft Internet Explorer v9
 - Firefox v4 (and later)
- Microsoft Visio versions supported (for MNL controller configuration)
 - Added support for Microsoft Visio 2010 SP1 for WorkPlace Tech Editor

Make the most of your energy



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