

# Five benefits you're missing if your BAS is out of date.

An out-of-date building automation system (BAS) can cost you significant opportunities to save energy, extend equipment life and improve occupant comfort. The newest *Metasys*® release includes features and benefits unheard of just a decade ago—helping facility managers do more with less, protect building systems and quantify return on investment.



- 1 Increase productivity
- 2 Save time
- 3 Minimize security vulnerabilities
- 4 Find energy and operational savings
- 5 Get more out of your investment

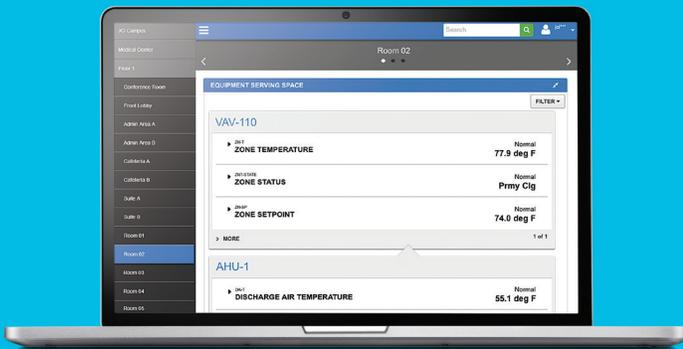
## IS YOUR OUTDATED BAS PUTTING YOU AT RISK?

An older BAS can cause inefficiencies for both operators and equipment, increasing costs over time. It may be incompatible with new technologies, making integration with new components difficult or costly. Moreover, out-of-date systems can be targets for hackers, leaving organizations open to cybersecurity risks.

Understanding the newest BAS benefits can help operators evaluate their systems and know when it's time to upgrade, reduce risks and capitalize on efficiencies.

1

## Increase productivity with intuitive interfaces



*The Metasys interface offers space-based navigation with visuals and graphical representations.*

BAS interfaces have been updated to be more intuitive and easy to use. The *Metasys* interface, for example, is based on the facility manager's natural workflow and uses "space-based navigation," displaying information using floor plans and equipment graphics instead of spreadsheets. Users can reach critical information with 85 percent fewer clicks, for faster navigation, easier alarm management and quicker troubleshooting. The intuitive graphical design cuts training time and increases productivity.

2

## Save time with fully mobile access

With building operators spending only 20 percent of a typical workday at their desk, most building automation systems (BAS) have long offered some kind of mobile capability. Remember the Palm Pilot? But as mobile technology has evolved at a dizzying pace, the BAS industry has made equally dramatic improvements in both the amount of information available and the ease with which that information can be accessed. With responsive design, the full power of the BAS is now available anywhere, on any device, without installing applications.



3

## Minimize security vulnerabilities with current systems

Gone are the days of “security through obscurity.” Data breaches and hacking attacks have dominated the popular media, making the security of building data much more of an issue than it was five or ten years ago. Upgrading or updating software is one of five key security countermeasures recommended by the Department of Homeland Security Control Systems Security Program<sup>1</sup>. Modern BAS follow IT best practices including better management of user password processes and hashing schemes, dormant user account reporting, and securing and encrypting communication, like HTTPS communication. Staying current with your BAS software is the only way to ensure you benefit from these critical features—and have continuing access to minor updates and security patches.



4

## Find energy and operational savings through advanced analytics and visualizations



Metasys advanced analytics using intuitive displays.

Building automation systems have always generated huge amounts of data. Today’s leading systems help facility managers use that data *effectively*. For instance, fault detection and diagnostics tools gather data from sensors and equipment, then apply complex algorithms to uncover potential problems before they’re detectable through traditional alarms. Such applications not only alert staff to an impending issue, but also identify the issue’s cause and use easy-to-understand visual displays that help technicians quickly zero in on a preventative solution. This can dramatically reduce baseline energy consumption, capital costs and equipment wear. Some systems even help prioritize events by cost-saving potential, so staff can tackle the problems with the greatest impact on the bottom line.

5

## Get a bigger return on system investments

The platforms and operating systems underlying BAS can become quickly outdated as technology advances. Leading BAS protect customers from the risk of obsolescence by offering clear and easy paths to migration and modernization, ensuring systems are up to date and enhancing longevity. Interoperability and openness also support longer system life. With continued commitment to BACnet support, the industry-preferred communications protocol, leading BAS offer customers easy integration, maximizing ROI over the system's lifespan.



### IN SHORT, UPGRADING OLDER BAS AND KEEPING SYSTEMS CURRENT HELPS INCREASE SECURITY, LONGEVITY AND OPERATIONAL EFFICIENCY.

What's more, a 2015 Pacific Northwest National Laboratory survey of more than 100 buildings over eight years showed that almost all buildings could reduce energy use 5 to 30 percent with simple changes to their controls<sup>2</sup>. Upgrading to the newest *Metasys* release provides greater flexibility and control, with the opportunity to take full advantage of these potential savings. And by staying current on system enhancements, which is easier than ever with *Metasys* software subscriptions, you can better control maintenance costs and promote peak system performance.

Visit the Johnson Controls website to get a sneak peak at what's next, or call us for more information on the benefits of updating your building automation system to the latest *Metasys* release.

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<sup>1</sup> ICS-CERT Recommended Practices: <https://ics-cert.us-cert.gov/Introduction-Recommended-Practices>

<sup>2</sup> Pacific Northwest National Laboratory (PNNL), Re-tuning Commercial Buildings: <http://buildingretuning.pnnl.gov>

*Metasys* is the world's smartest building automation system. Its advanced technology provides essential instrumentation and control, which saves energy, lowers operational costs and enables productive and secure environments. It provides information to make better building management decisions and save organizations money.



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