



**Northwest Museum
of Arts & Culture**

Taking what's there and making it better.

Founded in 1916, the Northwest Museum of Arts & Culture (MAC) is one of the inland Northwest's oldest cultural organizations. As a state-run facility, it serves the Spokane region with exhibits featuring every-thing from local Native American artifacts to works by the great Masters, like Dega, Monet and Renoir. As with every museum, the MAC's varied collections and exhibit schedules required precise, high-performing climate control to preserve its treasures.



“ It just doesn't make sense to expend the energy to maintain an entire building just to provide the proper temperature and humidity to an exhibit that occupies a fraction of the overall space. We needed precise control. ”

*Mark Webber
Facilities Manager, Northwest Museum of Arts & Culture
Spokane, WA*

The Goals

- Increase functionality by integrating systems onto single platform
- Control building from one location
- Control individual rooms based on specific exhibit schedule
- Manage climate control in key exhibit areas
- Optimize energy savings
- Utilize existing components and systems if possible

Honeywell Products Installed

- WEBS-AX™ building automation software
- WEBS-AX 600 controller
- Spyder® controllers
- Tridium Niagara^{AX} Framework®

The Results

- Used existing components and sensors—WEBS-AX 600 backbone central control
- Ability to control rooms based on meeting and exhibit schedules
- Flexibility of the system to manage specific areas and maximize energy savings
- Scheduling around peak load times now possible
- Achieved significant energy savings even when raw energy costs went up
- Obtained energy savings on project by taking advantage of local utility incentives
- Reduced cost on maintenance and service now that 90 percent can be managed remotely

Honeywell Contractor

Pro Mechanical Services, Inc.
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Functional becomes fantastic.

Many climate control challenges faced the MAC. The original method of manual adjustment and “always on” was not an economical or practical way of maintaining the exhibits through their automation system. In order to preserve the contents and maintain the building automation system, the MAC facility staff had to set the entire building to “occupy” regardless of foot traffic, or boiler controls had to be manually accessed, which was inconvenient to say the least. No set backs were allowed with the old system. There was a drastic need for improvement — timing and Honeywell proved to be the catalyst.

The right people. The right solution. The right time.

The MAC knew that in order to be fiscally prudent, they needed a plan to reduce their expenditures on energy but not break the bank to do it. Enter Pro Mechanical Services, Inc., where a typical service call turned into a conversation that spawned a concept, and soon a plan was developed to give the MAC the control it needed.

The plan.

The plan was simple. Use an open architecture platform that could utilize as many of the existing components and sensors as possible – and they did with the Honeywell WEBs 600 controller. In fact, when combined with the programmability of Spyder and WEB’s controllers, they didn’t need to remove any actuators or sensors, and that’s the beauty of WEB’s vast flexibility. The concept began by identifying the MAC’s goals to reduce energy using existing components and provide centralized and precision control over various areas and specific rooms building-wide. The seamless integration of the system with Lon, BACnet® and others is exactly what was needed for success. The ability to continually diagnose and fine-tune the system was also of great importance. For example, Honeywell’s continual monitoring and diagnosing revealed the fire dampers were not operational. Without these efforts they may have never been discovered until it was too late.



Putting it all together.

The initial installation process was three months from start to finish. The new system has been in place for nearly three years and as a result, all of the exhibit and meeting rooms can be controlled from one centralized location. This is important because the museum can now manage specific areas and generate energy savings based on schedules of exhibits and meetings – down to the room. The MAC now has the ability to have late start-up times to avoid peak grid loads. Over time, there has been a significant drop in energy expenditures even though energy costs went up. And, working with Pro Mechanical Services, Inc., the MAC was able to access local utility incentives during implementation. Those cost savings continue considering that Pro Mechanical Services, Inc. can now handle 90 percent of the service and maintenance remotely. Now that’s a plan.





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For more information, please contact your Honeywell sales representative, call **1-800-466-3993** or visit us at **www.customer.honeywell.com**.

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