



# Success Story

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## Industry: Building Controls - HVAC

## Customer: Mohegan Sun (Johnson Controls)

Created by the Mohegan Tribe of Indians of Connecticut, Mohegan Sun is a legendary gaming and entertainment destination, renowned for exceptional service, hospitality and excitement. Featuring an extraordinary Mohegan-themed design unlike any other in the industry, Mohegan Sun is one of the most unique casinos in the world.

## ICONICS Software Deployed

Johnson Controls Metasys Workstation Software (OEM)

## Project Summary

Johnson Controls provided the building controls for the entire Mohegan Sun Casino operations in Uncasville, Connecticut.

## Key Features

This facility may include a world-class casino, but the customer did not want to gamble on the comfort of their guests. That's why they chose Johnson Controls and the Metasys Workstation software to monitor and control the entire complex.

The site includes:

- A 34-story hotel featuring 1,176 luxury guest rooms
- 300,000 square feet of gaming excitement
- Thirty-two different dining options
- Over thirty fine shops and boutiques
- A performance theatre
- An Arena
- The Sky Dome - the world's largest, most spectacular planetarium dome, which bathes the casino in an ever-changing display of sparkling constellations.



**Home Screen**



**Boiler Plant**



***Kitchen Status***



***Air Handling Unit - Normal***



***Air Handling Unit - Smoke Mode***



***Mohegan Sun Shops***

Johnson Controls M-Graphics (GraphWorX32) monitors the status of these areas, as well as the chillers, boilers, and other behind-the-scene systems.

The system uses approximately 250 VAV boxes, about 60 air handling units (AHU's), 30 exhaust fans, a dozen fan coil units, and a host of temperature and humidity readings.

An interesting aspect of this project is the AHU's deployed for the Arena. There are four fans moving 200,000 cubic feet per minute of air. Normally these are used to air condition the facility for the spectators. However, in case of a fire, the smoke detector system puts these AHU's into "Smoke Mode": instead of bringing air into the Arena, dampers change and these pull the smoke out of the area, making it easier for fire-fighters to enter the building. An example of the graphics used to show this status change is shown to the left.

"The custom graphic interface that can be developed by using M-Graphics gives more knowledge to the user/operator, thus creating an environment for success," says Tracy Patterson of TAKK Associates – project leader on the graphics design for the Mohegan Sun project.

"We were able to go beyond just text-based information, instead developing recognizable graphics, bridging the gap between Metasys equipment and operator interaction," Tracy adds. "This enhances the decisions that the operators make by visually illustrating the equipment and its operating conditions."

As with other successful projects where Johnson Controls has teamed up with TAKK Associates, this project follows a "web-based" look-n-feel. Users instantly understand how to navigate through the system, and have commented on how easy it is to manage the environment for their customers.

## **Conclusion**

Deploying state-of-the-art alarming and graphics using M-Alarm (AlarmWorX32) and M-Graphics (GraphWorX32) provided a "best in class" system for this high-profile project. While your luck at the gaming tables may vary, the management system running this fabulous destination is a sure bet!