CASE STUDY

New York Mets
Citi Field
Flushing, NY

ABOUT The New York Mets National League ballpark, named Citi Field, is located in Flushing Meadow, NY. The enormous Citi Field stadium expands over 1.2 million square feet and houses 42,000 people in its seating and entertainment areas. Built originally in 1964 as Shea Stadium, the New York Mets and Citigroup Inc. rebuilt the stadium for its grand debut in 2009. The new Citi Field required a state-of-the-art, intelligent NOTIFIER fire security solution that could coordinate mass notification and evacuation protocols to keep their fans and staff safe.

CHALLENGE The size and complexity of the compound required a robust and scalable fire system that could network together quadrants of the stadium into one central networked location. Facilities managers had to be able to deploy mass notification and evacuation orders for individual local sections, yet also be able to survey and manage emergencies from one overarching central location. In addition, the fire system needed to be compatible with, but not disrupt, the Building Management System (BMA) and the Public Address system (PA) already approved by the New York Fire Department.

SOLUTION A NOTIFIER ONYXWorks® fire system was chosen for its ability to scale across large, complex structures. It could provide the level of transparency and control to keep 42,000 people informed and safe. Strategically placed NOTIFIER ONYX® Series NFS2-3030 panels with integrated Digital Voice Command (DVC) stations were linked through NOTI-FIRE-NET™. This solution provided:

› A state-of-the-art, scalable fire security system spread across 1.2M square feet

› Multiple fire security sections that can be monitored individually or combined

› Ability to poll thousands of devices in under five seconds

› Customizable voice commands for targeted actions across all structures

› Strobes that could deploy simultaneously across entire facility

› Easily testable and intuitive for facilities managers to operate

› Digital Voice Command that could override the ball park's PA system

› Superior service from best-in-class local distributors

> ❞ We've been very pleased with the (fire alarm) system. The system itself has interesting features that I've never seen before in a fire alarm system. Because of the scalability potential, I am confident that it will meet our needs well into the future.
>
> Pat McGovern,
> Vice President of Operations, Citi Field

NOTIFIER®
by Honeywell

Centralized Life Safety Management

Citi Field partnered with John Beers of Cross-Fire & Security Co., an authorized Engineered Systems Distributor (ESD) headquartered in Brooklyn, New York. At the heart of the fire system, Cross-Fire placed NOTIFIER ONYXWorks®, a single-point-of-control workstation for centralized life safety management. Its intuitive, graphical interface showcases floor plans, maps, evacuation routes, etc. This allows facilities personnel to rapidly identify and respond to alarm events with minimal operator training. ONYXWorks can scale from large, singular complex structures to worldwide installations.

Networked Intelligence Across 1.2 Million Square Feet

Cross-Fire divided the stadium into four quadrants, placing over 2000 initiating devices, mostly smoke and duct detectors, throughout the stadium. Twenty-seven ONYX® Series NFS2-3030 control panels were installed throughout the quadrants to monitor the devices. NFS2-3030s are intelligent fire alarm control panels designed for large-scale facilities, and network into the centralized ONYXWorks control center. These fire alarm control panels can poll thousands of devices within 5 seconds, yielding a highly rapid and coordinated response time. Each panel features a large 640-character Liquid Crystal Display (LCD) that presents

details of a fire situation, fire progression, floor plans, etc. During an event, facilities personnel can zero in on the activated device, and quickly initiate appropriate life saving protocols.

Prioritizing and Compartmentalizing Communications

Next, Digital Voice Command (DVC) stations were chosen for their ability to integrate with ONYXWorks, as well as third party audio and public address (PA) systems. DVCs are full-featured audio command centers that provide voice evacuation for Emergency Communications. NOTIFIER DVCs can network together to cover large areas. They are easily programmable to deliver 8 unique and simultaneous messages from each station. This allows the system to deliver the right message to the right people at the right time, expediting evacuation and minimizing mass confusion. When necessary, they override the bowl's PA system to broadcast live emergency communications throughout the ballpark.

"There was a lot of integration. We had to integrate with the BMS on site as well as the PA system in the bowl," says Senior Systems Engineering Manager, John Beers. "We received final approval from the New York Fire Department to use the PA system to broadcast alarm signals throughout the ballpark."

Tying It All Together for One Ultra-Networked Solution

Cross-Fire used NOTI-FIRE-NET™ to ultimately interconnect all data panels, DVCs and other command/control devices into one cohesive fire system. It allows for continued operation even if a panel's connection is lost with the head-end panel, making NOTIFIER ONYX® Series a highly reliable and effective networked solution.

"A big benefit of the ONYX Series is that there are very few wires that run between each node and the main fire alarm control head-end. Unlike many other systems, we didn't have to install a ton of cables to accommodate the 2,000+ initiating devices, warden phones, graphic command stations and other command and control equipment," states John Beers.

"We've been very pleased with the (fire alarm) system," says Pat McGovern, vice president of Operations at Citi Field. "The system itself has interesting features that I've never seen before in a fire alarm system. Because of the scalability potential, I am confident that it will meet our needs well into the future."

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