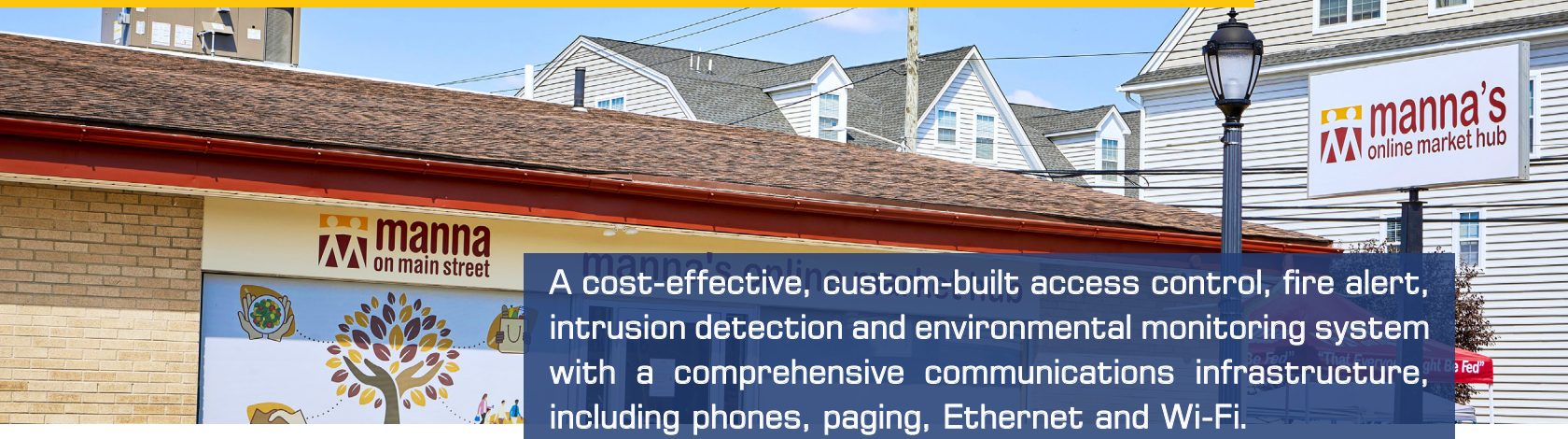


Tech Services & Security Solutions

Project: Manna On Main Street



A cost-effective, custom-built access control, fire alert, intrusion detection and environmental monitoring system with a comprehensive communications infrastructure, including phones, paging, Ethernet and Wi-Fi.

Background

Founded in 1981, Manna on Main Street is a non-profit organization committed to ending hunger in its local community. Over its 40 years, Manna on Main Street has grown its programs to respond to increasing community needs. Most recently, the organization purchased a 3,300 sf property with the goal of developing it as an Online Market Hub. The new Hub allowed Manna to:

- Expand fulfillment of online orders of groceries
- Increase in-person grocery shopping hours
- Scale delivery of groceries directly to homes in the region

With the development of the new property, Manna required a unique solution for communications, security, and environmental monitoring— one that leveraged integrated technologies to ensure that the organization could remain focused on its mission, not on system maintenance.

Challenges

As with any organization, cost effectiveness, ongoing maintenance, and staffing considerations were primary considerations in designing the system for Manna.

Since the project was funded by a private technology grant, the total system cost had to fit within budgetary guidelines. Additionally, the system needed to be built on an open-platform, enabling future expansion and integration with other systems and technologies as needs evolved.

Results

Rather than looking at an off-the-shelf system, CM3 chose to leverage a variety of best-in-class products to create a comprehensive security, life safety, and communications system. This custom-built solution satisfied Manna's immediate facility needs, while also leaving room for future expansion.

Each component of the solution was integrated into a self-monitored system from Sensaphone Sentinel. The allowed Manna to avoid costly recurring fees with cloud-based systems and with those requiring a central monitoring station.

Key components of the system include:

- Access Control
- Fire Detection
- Intrusion & Motion Detection
- Panic Alarm
- Phones, Paging, and Walkie-Talkies
- Temperature Monitoring
- Visitor Intercom
- Network (Ethernet & Wi-Fi)

Solutions

With a goal of avoiding costly recurring fees, CM3 opted for on-premise, independent, yet integratable systems.

- There are no costly software service agreements or other ongoing monthly fees; just a minimal annual service fee.
- No additional servers or computers were required for operation or management of system.
- Intuitive system management enabled Manna to operate the system relatively independently.
- A facility-wide communications infrastructure was also installed leveraging Ubiquiti products (Ethernet and Wi-fi).



Continental
Access

Access Control

- Most existing keyfob and card credentials may be used with this system.
- Bluetooth credentials (Mobile Phones) are supported at no additional cost.
- System may be managed and via a web browser or phone app (iOS/Android).



Honeywell
i3 Series

Monitored Smoke Alarm

- Flexible/ various mounting options.
- Nuisance alarm reduction with algorithm based intelligence.
- Visual status inspection with red and green LEDs.



Optex Sensors



GRI

Intrusion and Motion Detection

- This intelligent alarm system automatically arms itself, if it's not done manually. It integrates with the access control system, enabling users to disarm the system with their ID badge.
- Door contact monitoring on perimeter doors for intrusion detection.
- Works in conjunction with Optex 360 motion detection and wall mounted motion detection.
- High-grade detection using microwave and PIR technology.
- Additional Reolink 4K motion detection cameras provide enhanced coverage.



Sensaphone

Temperature Monitoring

- Wired sensor with external probes.
- Built-in radio transmitter.
- Accurate to $\pm 1^\circ\text{F}$ | $\pm .56^\circ\text{C}$.
- Suitable for refrigerators, freezers or other harsh environments.
- Rechargeable battery-backup system provides 8-hours of continuous monitoring and alerting in the event of power outage.



Grandstream

Communications

- 16-line phone with video conferencing and touchscreen capabilities.
- WiFi phone with push-to-talk functionality (walkie talkie).
- Video intercom for visitors for remote door entry approval.
- Auto-attendant feature for inbound calls.

System Management

Alarm Panel



DMP Security

- Intuitive programming.
- Customizable zones.
- Expansion capabilities.
- Visual and audible alarm notification.
- Built-in diagnostics for ease of service.
- Distinct fire, burglary, zone monitor, and pre-warn tones.

System Monitoring



Sensaphone

- Flexible alarm delivery system with unlimited customization.
- Notifies an unlimited number of people by email, text, & phone in the event of an alarm.
- Real-time status updates.
- Cloud-based datalog protects against data loss and provides limitless information storage.

