



Yorkland Controls

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ENVIRONMENTAL
SOLUTIONS

NEW
NEW *Product Release*

Announcing: Facility Explorer Asset Protection by Yorkland Controls Ltd.



Facility Explorer Asset Protection

Yorkland Controls Ltd. is excited to announce a significant addition to the Facility Explorer product platform. Facility Explorer Asset Protection is a comprehensive security system consisting of products used to safeguard facilities, equipment, and people. Facility Explorer Asset Protection consists of all relevant capabilities, including the following three major components:

- Access Control
- Video Surveillance
- Alarm Management and Monitoring

The Facility Explorer Asset Protection system architecture is modular and scalable, allowing you to meet your project's requirements cost effectively by adding only necessary components. In addition, Facility Explorer Asset Protection products were developed using open standards and protocols such as Transmission Control Protocol/Internal Protocol (TCP/IP), Niagara^{AX}, and Wiegand® standards. This provides many benefits including:

- open integration into existing Information Technology (IT) infrastructure
- seamless connectivity to FX40 Supervisory Controller and FX Server
- the flexibility to incorporate third-party security end devices into the system

This new addition supplements Facility Explorer's existing Heating, Ventilating, and Air Conditioning (HVAC) and Building Automation capabilities with Asset Protection. This opens up opportunities for you and your customers to expand your business by bidding additional projects or by increasing your project content.

Access Control

The Facility Explorer Access Control system is designed to detect and prevent unauthorized entry to secure areas. It consists of the following components:

- Access Controllers
- Extension Modules
- FX Access Software
- readers and keys
- peripheral devices

Access Controllers connect to Extension Modules to interact with a variety of inputs and outputs, including door contact switches, door locks, readers, Request-to-Exit (REX) switches, and elevator controls. Four types of Extension Modules are available: Door, Elevator, Input, and Output. Access Controllers are networked together via TCP/IP Ethernet and are networked to the Extension Modules via an RS-485 bus. This topology allows each component to be mounted at its appropriate location with minimal wiring effort.

The Access Control software suite resides on a dedicated server and contains applications and utilities that allow the configuration, administration, and operation of the Access Control hardware. Once configured, each Access Controller runs its corresponding portion of the software to operate its area of the access control system. Each Access Controller contains enough memory to support up to:

- 90,000 keys
- 36,000 buffered events
- 2 doors
- 2 readers
- 2 door strikes
- 2 door switches
- 2 REXs
- 250 schedule/2,500 entries

Identity Readers and Keys and Door Hardware

The Facility Explorer Access Control's open architecture allows it to interface with a wide variety of identity readers and keys and door hardware. Johnson Controls has established supplier agreements with selected third-party security end device manufacturers and distributors to provide our ABCS with access to their products.

We have selected suppliers that provide the most widely used brands of these types of devices in the security industry. This allows you to order identity readers and cards, door locks, request-to-exit switches, and other peripheral devices directly through Johnson Controls, resulting in a one-stop shopping experience. These devices include:

- HID Corporation 125 kHz proximity readers and cards
- HID Corporation 13.56 MHz iClass® readers and cards
- Dallas Semiconductor® iButton® readers and buttons
- Security Door Controls 50 Series electric strikes, 7800 Selectric™ locksets, and Hi/Shear® electromagnetic door locks
- Securitron® electric strikes and electromagnetic door locks
- Various other devices such as door contact switches, request-to-exit sensors and switches, power supplies, and alarm annunciators

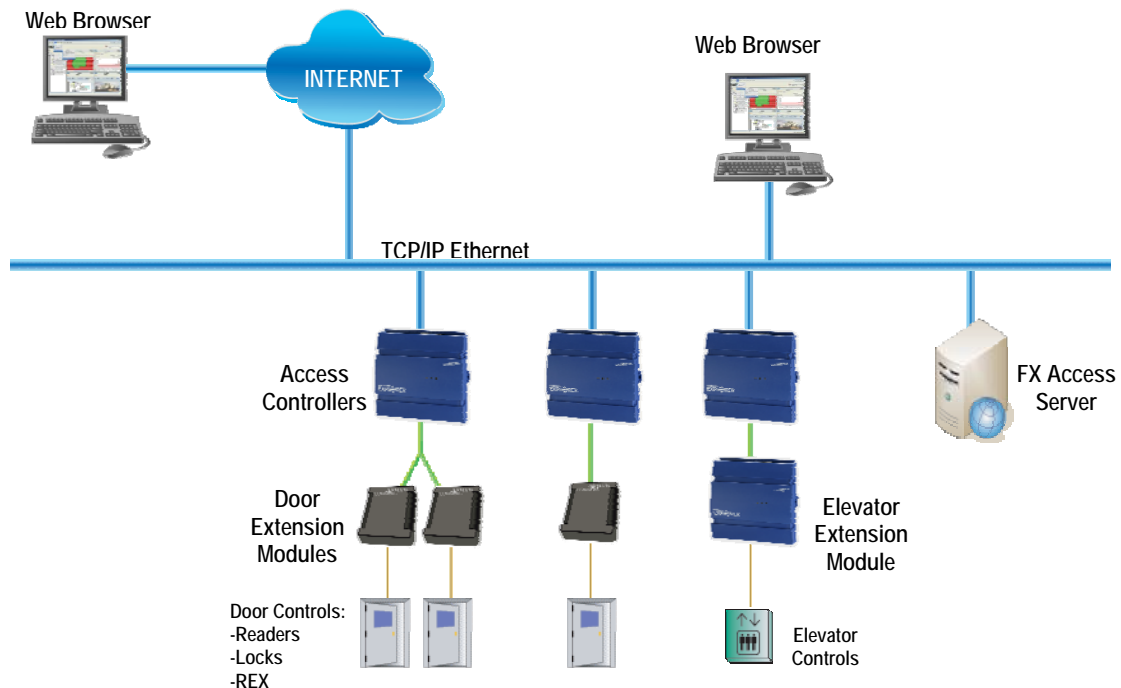


Figure 1: Access Control Architecture

Video Surveillance

The Video Surveillance component of Facility Explorer Asset Protection includes analog and/or IP-based video cameras, FX Video Digital Video Recorders/Network Video Recorders (DVRs/NVRs), and software to provide an additional means of asset protection. This component provides the ability for security personnel to visually monitor and record events and activities in their facility.

The FX Video software features advanced capabilities to help security personnel efficiently manage the large amount of video that is saved to the hard disk, including:

- continuously recording to capture video **before** an event occurs
- synchronizing the capture of video with alarm-based or motion-triggered events
- attaching information to the video clips so that they may be searched for and replayed at a later date
- cycling out old clips to make room for new video

Three distinct FX Video DVR/NVR configurations are available to meet a variety of performance requirements:

- Standard DVR/NVR: can record video from analog and/or IP-based cameras.
- Enterprise-Level DVR/NVR: can record video from analog and/or IP-based cameras operated and incorporates hot-swappable drives for increased performance and reliability.
- Enterprise-Level NVR: can record video from IP-based cameras and incorporates hot-swappable drives for increased performance and reliability.

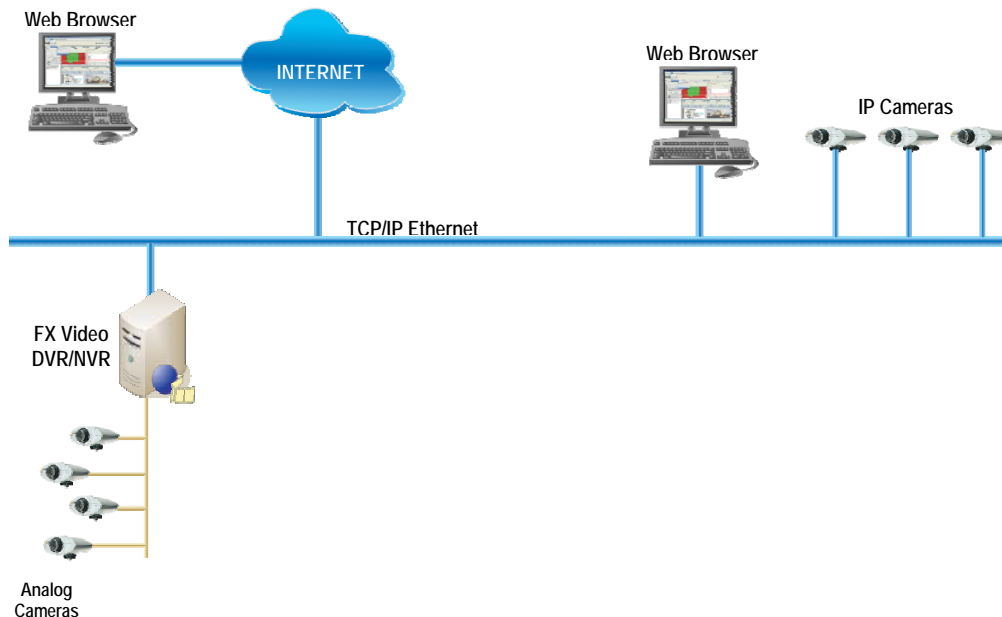


Figure 2: Video Surveillance Architecture

Alarm Management and Monitoring

The Alarm Management and Monitoring component ties together the Access Control and Video Surveillance components of Facility Explorer Asset Protection. FX Asset Protection Manager is a software only component that provides an integrated view of alarms and events generated by the Access Control system along with the images recorded by the Video Surveillance system. It is TCP/IP enabled, providing the ability to monitor events from anywhere on the network using a standard Web browser.

The graphical user interface is easily configured by dragging and dropping pre-configured icons onto a floor plan view or other image of the facility. Once configured, changes in status are automatically and instantly reflected to the icons. Hot links can be created allowing one-click access to additional information, which can provide the security personnel with a complete view of events and their relationship to other activities. Information can be stored long term and easily retrieved to understand the history of an event.

In addition, FX Asset Protection Manager is built on Niagara^{AX} allowing direct integration to FX40s and FX Server.

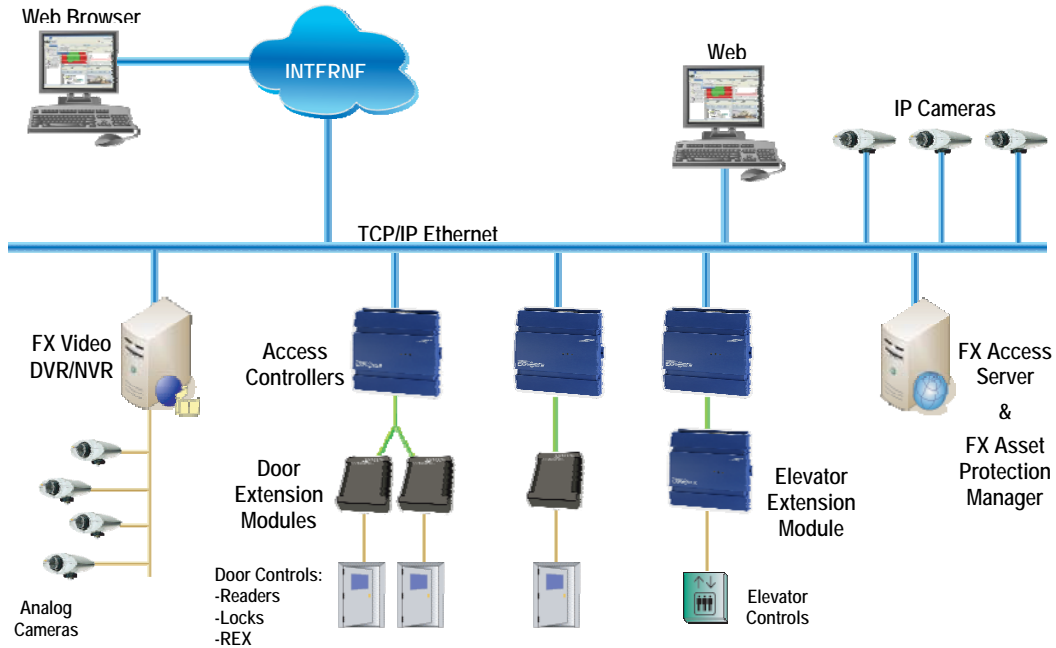


Figure 3: Full Facility Explorer Asset Protection Architecture