Alarm Server Software

- In-video and discreet alarms
- Flexible response options
- Multi-protocol support:
  - Modbus TCP
  - OPC
  - HTTP
  - others
- Integrates with:
  - SCADA
  - Discreet Alarm Sensors
  - Process Sensors
  - Video Analytics
  - Software generated events
  - Access Control
  - Perimeter Security

Alarm management and integration tool

Alarm Management is a key function of any sophisticated process monitoring or security system. The capability of automating alarm detection and response is particularly critical in complex, multi-camera, multi-product systems. A system must not only get the attention of system operators manning a viewing console, but it must have the capability to automatically initiate appropriate activities before the viewer even notices the alarm.

IVC's Alarm Server is an alarm system integration tool and, along with the IVC View Station client software, a rules-based alarm management product. The Alarm Server enables users to create a reliable and flexible alarm management system.

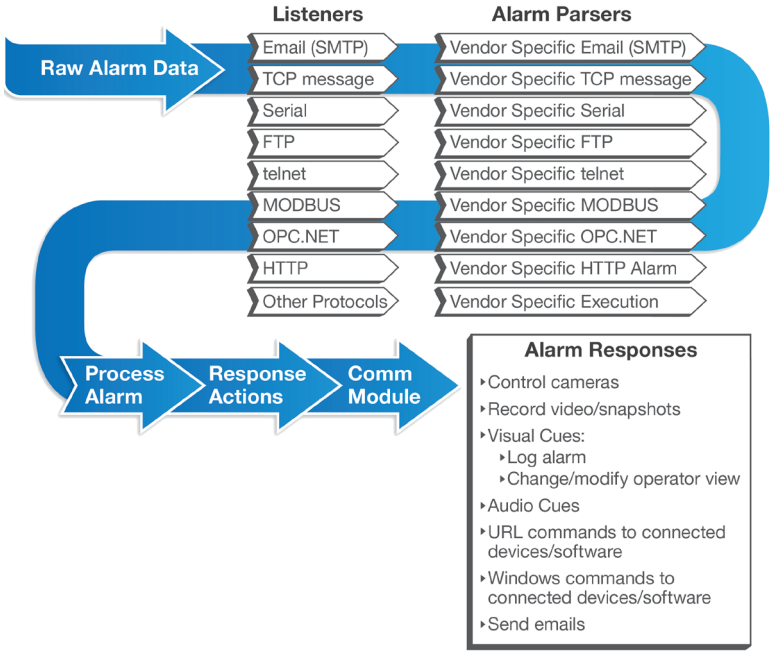
IVC's Alarm Server component offers a powerful, scalable solution for most critical process monitoring and surveillance applications. Since the software is based on state-of-the-art, standards-based interfaces, it provides an extremely flexible environment for alarm management. It is a valuable product for those customers looking for powerful alarm management capabilities. For our technology and integrator partners, the Alarm Server is an indispensable integration tool.

Alarm Server

As depicted in the functional diagram here, the Alarm Server can “listen” for alarm messages from any source connected to the network where it resides. The Alarm Server is able to understand a variety of standard protocols and can be easily modified to parse messages sent in other standard or proprietary protocols. IVC uses this facility to integrate other components into our video system. We have helped customers integrate access control devices, perimeter security systems, as well as leak sensing devices, radar-based detection systems, and other industrial sensors with their IVC video system.

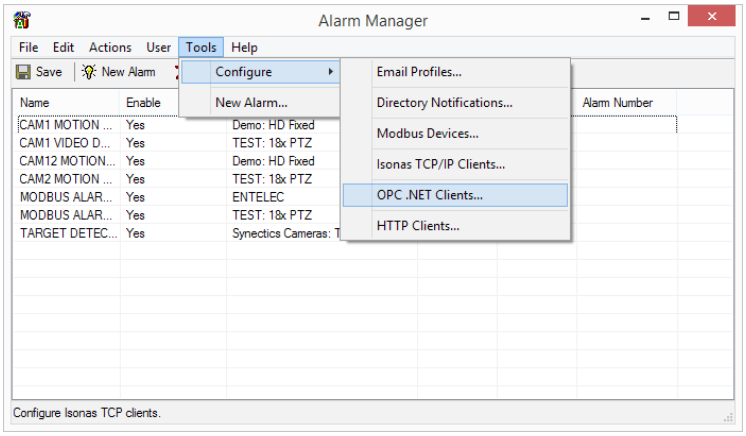
Configuring alarm responses is equally flexible. In addition to camera actions, the Alarm Server can send control messages in a variety of protocols to other hardware and software on the network. This may include activating or deactivating devices or sending messages to facility security personnel and first responders. For those customers that already have sophisticated alarm management provided by their SCADA system, the IVC Alarm Server can be useful as a bridge between the video system and its related components to the facility’s control system.

Alarm Server Architecture



Alarm Manager

The configuration and control interface for the Alarm Server is provided by the Alarm Manager. The Alarm Manager is used to define alarm conditions for which the Alarm Server should listen and to define response actions should a defined alarm condition occur. The Alarm Manager also includes tools to:



- Configure the Alarm Server as an OPC, MODBUS, or HTTP client in order to accept alarms from other process elements.
- Create software alarms by identifying specific activity in the system’s file structure as an alarm source.
- Create email notifications for alarm responses. In addition to the email subject, distribution addresses, and body text, these notifications may include variables that provide details about the alarm in addition to attached video snapshots or recorded clips.
- Define alarms from specific devices such as leak detectors, radar, and access control equipment.

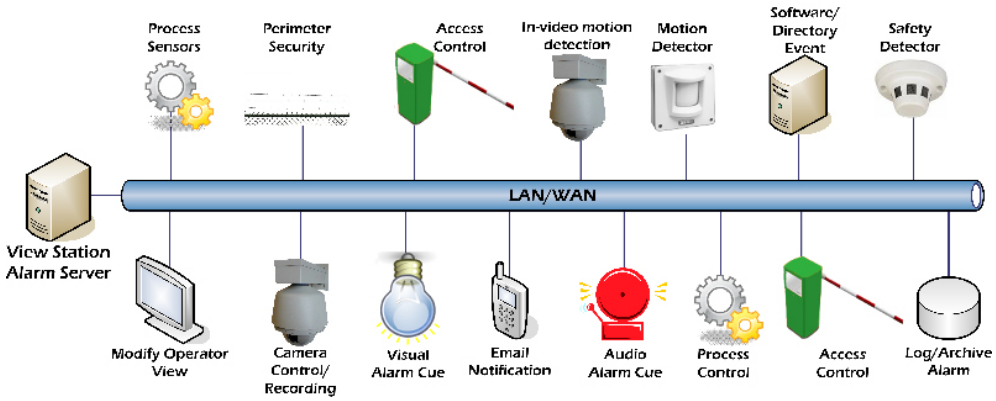
Event-based Automation

View Station's Alarm Server is an alarm system integration tool. It can listen for multiple alarm message types from a variety of devices including cameras. As the diagram illustrates below, users have the flexibility to choose any number of standard and custom responses.

Supported Alarm Message Protocols

- TCP
- SMTP
- FTP
- Telnet
- MODBUS
- IPASCII
- OPC.NET
- HTTP
- Other

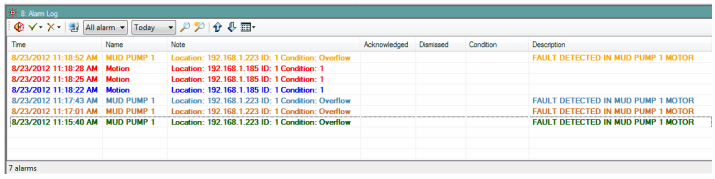
Alarm Sources



Alarm Responses

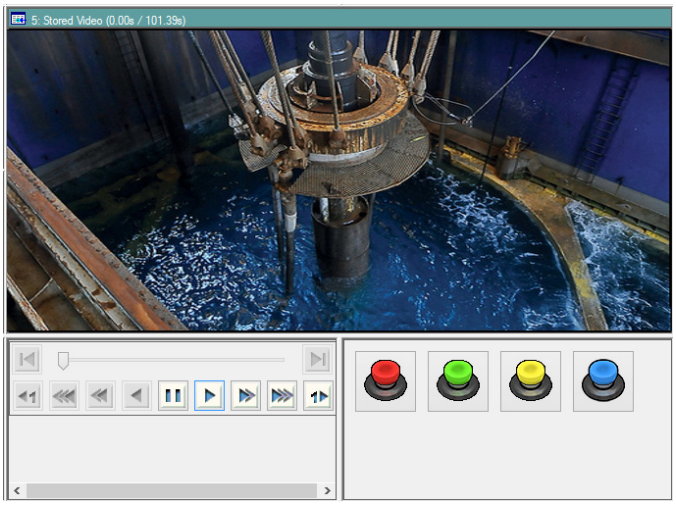
Alarm Log

The IVC Alarm Log provides operators a visual cue of alarm events that have occurred. Logged alarms can be color-coded by type with user-definable colors. Colors may also be used to indicate the status of the alarm (new alarm vs. acknowledged alarm). The Alarm Log may be configured into a View Station view or displayed separately.



The contents of the Alarm Log may be saved to a SQL database for later retrieval back into the log.

Since an alarm definition can be associated to a camera connected to your video network, an operator can instantly replay the last video clip recorded for the associated camera by simply clicking on the alarm of interest.



Single click instant replay from Alarm Log provides quicker response to events.

Full-Featured Video Solutions

Alarm Server is one component of a comprehensive suite of industrial video monitoring products from IVC. For over 15 years, IVC has been designing and manufacturing quality camera hardware and software targeted to the industrial market. If our off-the-shelf offering does not quite fit your requirements, our technical staff will work with you to define a custom solution that exactly meets your needs.

Let IVC's technical team help you design a comprehensive video monitoring system that exactly meets your needs.

IVC cameras

IVC offers a broad range of video cameras to fit most environmental or application requirements. Our fixed, PTZ, zoom-only, and thermal cameras are designed to consistently deliver high-quality video. IVC's durable enclosures are used in all kinds of settings; from benign indoor environments to harsh, even hazardous, outdoor locations. Our cameras are used in applications that require certification for use in inherently dangerous environments.

If our standard product offering does not suit your needs, IVC engineering professionals will work with you to design a camera that best fits your application.

ordering information

Alarm Server is included as a component of the IVC View Station. View Station software includes all the tools necessary to create views, camera scans, tours, and user-defined buttons. The software is licensed based on the number of cameras that can be simultaneously connected from one or more Relay Servers.

To simplify your installation, IVC offers computers pre-configured with the appropriate View Station software. Ask your IVC representative about this option.

ISO 9001 Certified MADE IN THE USA

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IVC INDUSTRIAL VIDEO & CONTROL