This abstract briefly describes the ShotPoint Exacq Application.

The ShotPoint acoustic gunshot detection and localization system has been integrated with the Tyco Exacq system. ShotPoint is intended to assist local emergency responders improve response time and decision-making in an active shooter scenario. In many cases, there are surveillance cameras in place. ShotPoint notifications can enable those nearby cameras to cue the observation of the shooting event in real time. This means that responders can instantly observe the situation and react when a shooting occurs. ShotPoint has been integrated with the Tyco Exacq system in order to provide this capability to responders in an active shooting event.

ShotPoint is a completely automated system designed to detect gunfire with extremely high reliability. ShotPoint performs well indoors and outdoors provided the sensors are deployed throughout the area requiring coverage. When it is determined that a shot has occurred, the software pushes a shot report that includes a time-stamp and a coordinate to the pre-determined list of subscribers associated with the area the sensors were deployed.

The shot report includes shot zones that identify the specific area each shot occurred. These zones are associated with the cameras in the deployment area by a look up table created during the setup of the system. Customers who have implemented an Exacq Vision system to manage their video surveillance cameras can enable the ShotPoint camera cueing feature

Shot reports can be directly annotated with an associated camera stream. Credentials for users that are able to view shot reports for a particular zone are applied to grant permission to view camera data associated with the shot reports. Shot reports may be sent as a notification or viewed on a map or floor plan display.

The ShotPoint cueing application starts integrates with the Exacq web client. When a gunshot occurs, ShotPoint locates the zone from where the shot emanated. The application instantly searches the lookup table that associates the Squad's Exacq Camera IDs with the zone. The first Camera ID on the list associated with the zone is activated and a JPEG image is retrieved. This JPEG image is immediately uploaded to the shot reports viewer and made available to users that have shot viewing privileges. The application simultaneously requests a video clip from all the cameras in the shot zone, the frame rate and duration of which are define in the application set up. The video clips are retrieved and stored, and links to the clips are pushed to the shot reports viewer.

The solution that links the instantaneous shot detection capability with the situational information that can only be obtained from camera imagery, enables first responders, security personnel, and even the public to have accurate information in real time about a shooter emergency, that in turn, facilitates the most efficient and effective response.

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