



ALLIED UNIVERSAL[®], SECURITY SOLUTIONS - UNIFIED SECURITY PLATFORMS

The Unified Security Platform encompasses the next generation of software products developed by Allied Universal[®] NSSC for the nuclear market. This includes the major product lines of NSMART, IVMS, Video Capture, and AVSS as well as some specialized products within each line.

NSMART was developed as a combined access control and alarm management system designed specifically for the nuclear industry. The system is widely deployed in the United States and initially put into service in 1999 with significant updates and enhancements during the last 17 years. NSMART is designed to retrofit existing security systems while minimizing changes to infrastructure and field components.

The IVMS product provides for an integrated video approach that combines the functions of surveillance, recording and assessment on a single platform. Unlike any commercial installations, the focus within nuclear power is on rapid assessment of events and the IVMS system incorporates an assessment technology that NSSC pioneered over two decades ago called Video Capture. The principle behind Video Capture is to quickly display the video from immediately prior to, during, and after an alarm event and loop that playback until the operator could complete their assessment.

This approach greatly streamlined the assessment as the operator did not have to locate and start or restart playback of the video manually. This approach became an industry standard and the use of a video assessment system eventually became a regulatory requirement in 2009.

Allied Universal NSSC has combined these two major products (NSMART and IVMS) under a common platform to offer cost savings for materials, installation, and maintenance. This effort resulted in the USP product which offers a modular architecture for licensing and deploying the products.

The security system interfaces have been designed with extensive cooperation and feedback from the security force within the nuclear industry. The HMI modules fall into the roles below with a workstation being able to support more than one role (subject to configuration).

- **Alarm/Event Management and Status** – The primary interface for the alarm station operator, this combines all alarm management functions with ready access to the status and detailed information of all the security system elements (devices, areas, personnel, etc.). Short-term transaction history is available and automatically refreshing as well as continuous indicators for key system functions (i.e. server status). Badge data may be added or edited without interfering with the other displays.
- **Video Management** – The video management interface provides status and control information for video monitors in the alarm station. All video surveillance, assessment, and recording functions can be controlled through these displays. While the system is designed to integrate video assessment from the alarm/event display, this interface provides augmented video assessment capabilities.
- **Reporting** – Access to system status, configuration, and transaction (historical) data is available through the reporting interface.
- **Badging** – Badge data management and badge design and fabrication may be deployed together or on separate workstations based upon the system architecture. This group of interfaces is loosely grouped together as the “Badging” workstation. Biometric user enrollment may also be managed from this interface. This interface supports the primary data entry and typically relies upon CAS or SAS to provide validation before a badge is “operational” within the system. In some cases, no separate badging workstation may be included and all badging activities may be performed at the alarm station.

The alarm stations will be configured with industry standard features and controls for the security computer system and video capture technology. The video display and camera control functions from the Video Switcher will be mapped to equivalent functionality within the USP. A list of the most commonly used system features is below:

- > Alarm Management Interface
- > Status and Configuration Displays
- > Critical Systems Continuous Status Display
- > Predefined Reports (Activity, Configuration, Auditing)
- > User customizable Reports
- > Auto Video Assessment Callup (live and pre/post alarm)
- > Patrol Tour Management
- > Badge Personnel and Visitor Management
- > Video Display Status Control
- > PTZ Camera Controls
- > Live Video Display
- > Device Status and Error Notification