



6SS ACCR® is an Automatic Container Code Recognition Software that was developed by 6SS lead Software Engineers in order to automate the extraction and identification of the unique Codes of ISO containers which is becoming more and more critical with each passing day due to the increased volume of commercial transportation and international trade. This code contains all the needed information such as the owner and the type/category of the container as well as its unique serial number. The software's ability to read the ISO codes of shipping containers makes harbor, port, and logistic hubs much more intelligent and it can be used in multi-purpose applications, involving airport and harbor logistics, border control, customs, security monitoring and inventory management. 6SS ACCR® is fully integrated with all Milestone XProtect versions where all the details including Container Codes, Reports and Statistics will be accessed directly from the Smart Client interface.

Functionality

The two main components of the system are management and recognition. Each system will have one Management Server and one or more Recognition Servers depending on the project size. These two applications can be installed on the same physical server if needed.

The Cameras will send the streams to the Recording Server and there will be a multi-streaming between the Recording Server and the Recognition Server which will be listening to all ACCR query streams and storing the results in the database and triggering alarms depending on the configuration. All the results will be sent and displayed in the Smart Client.

Main Benefits

- Cost effective
- Increased reliability
- Easy to use and configure
- Very fast processing speed
- Automation of Container Code Recognition
- ISO 6346/MOCO/ILU container standards
- Faster and more accurate inventory tracking
- Saving time and energy in manual data entry
- Decreasing data entry errors
- High accuracy and recognition rates
- Increased security and safety
- Centralized control through the Smart client
- Multiple applications and use cases
- Development team is always available to add customer-tailored features in case needed



Features

- Supports all camera types that are compatible with Milestone VMS (approximately 8351)
- Fully integrated with All Milestone XProtect versions
- Accessed from the Smart Client interface
- Fully integrated with Maps
- Parallel handling and processing of unlimited camera inputs
- Multi-language support: Latin, Arabic, Cyrillic, Chinese, Korean, Thai and many more
- Automated ISO 6346/MOCO/ILU container code reading
- Owner, country code, size, type and equipment category recognition
- Ability to recognize both horizontal and vertical codes
- Ability to recognize two or three row codes
- Recognition on multiple images for the most reliable result
- Color coding for faster search
- Compatible with any image source: analog, digital, still images and MPEG video streams
- Server side ACCR processing
- Can handle distorted images
- High accuracy and recognition rates
- Very fast processing speed
- Filter through ACCR history based on various criteria
- Flexible search functionality by from-to date, owner, country code, size and type and category
- List of all captured container codes including owner, country code, size, type, category and date
- Option to view a playback video for the period when the container was scanned
- Scheduled reports on a daily, weekly or monthly basis
- Customizable dashboards and statistics
- Alarming capabilities (Email, SMS)
- Regular expression alerting
- Configurable actions in case of container code recognition
- Hotlist alarming capabilities
- One click data export in Excel format
- Automatic data retention period handling
- Easy installation and operation
- Customizable upon request

System Components

- Windows OS 8.1 or above
- SQL Server 2012 or above
- Milestone XProtect Management Client (2016 or above)
- Milestone Smart Client (2016 or above)
- 6SS ACCR® Recognition Server
- ARH Carmen ACCR

Applications

- Airport and Harbor logistics
- Border control management
- Inventory management
- Container surveillance systems
- Traffic movement databases
- Traffic security monitoring

Business Value

Containers are widely used by transportation and trading companies owing to their safety and efficiency. There are over 17 million containers in the world, and each one has a unique code consisting of four characters, six numbers, and a check digit for identification. Keeping track of container movement is almost impossible without the use of an automated computer software. 6SS ACCR® can be used in all applications where automatic container code recognition is needed especially inventory management, logistics and security monitoring. Using this application will assist in reducing the time and manpower needed for manual entry and will assure error-free input which will lead to higher security, increased revenue and benefits, and decreased labor cost.