

6SS ACCR® is state-of-the-art automatic container code recognition software designed to efficiently extract and identify container codes such as ISO 6346, BIC, ILU, and ACCR_USA. With the growing volume of commercial transportation and international trade, the ability to quickly and accurately read container codes is becoming increasingly critical. This software improves efficiency for airport and harbour logistics, border control, customs, security monitoring, and inventory management.

6SS ACCR® integrates seamlessly with the Milestone XProtect family, allowing users to access all container code details, related video sequences, reports and statistics directly from the Smart Client interface.

Data Flow

1. The CCTV camera video is streamed to the Recording Server.
The Multi-Streaming and Multi-Threading between the Recording Server and 6SS ACCR Server which processes the video for ACCR Analysis. The 6SS ACCR® Server is in a listener state for all ACCR queries.
2. The processed results from the 6SS ACCR® Server are stored in the SQL database.
3. The Smart Client retrieves data from The SQL database and processes the alarms triggered when a container code is matched with a Blacklisted container code or a Whitelisted container code on the Event Server. The 6SS ACCR® plugin on the Smart Client reads the data from the SQL server and displays it to the user, along with the corresponding video playback.

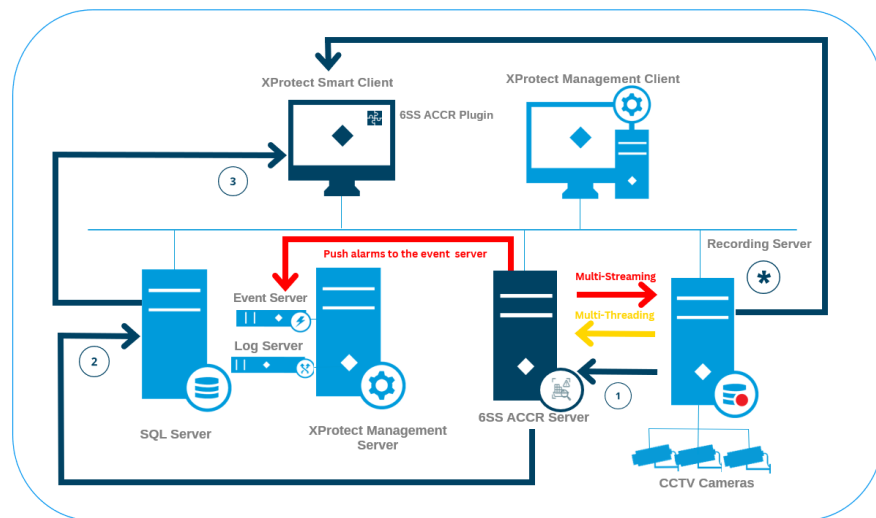


Figure 1 System Architecture

* The Recording Server maintains a direct connection with the Smart Client for any Video inquiries.

*CCTV Cameras should support HTTP/HTTPS protocol.

*Alarm generated from 6SS services to the event server.

Functionality

The ACCR Container Codes software provides shipment tracking by accurately extracting and reading ISO/ILU/MOCO container codes. The extracted information can be stored in a database. The core component of the system is the 6SS ACCR® service, which uses Optical Code Recognition to analyze video streams. This service is installed on a dedicated server to communicate with the XProtect Recording Server and retrieve the video streams. After the recognition process, the results are stored in a SQL database. When a client requests to view the results on the XProtect Smart Client, the 6SS plugin retrieves the data from the SQL database and displays it.

Main Benefits

- Cost effective solution.
- User-friendly interface & easy configuration.
- High Processing speed saves time and improves efficiency.
- Accurate recognition of ISO 6346 (BIC), MOCO, and ILU codes globally.
- Centralized control through the XProtect Smart client for easy monitoring.
- Versatile application with multiple use cases.
- Tailored features to meet specific customer needs.
- Camera-independent system for flexible deployment.

6SS ACCR Features

- Seamlessly integrated with XProtect Plus versions.
- Accessed via the Smart Client interface.
- Integrated with XProtect Central Search feature for investigation.
- English language support only.
- Capable of recognizing owner code, serial number, code length, product group (ISO shipping containers, container-related equipment, trailers).
- Capable of recognizing container length and height
- Capable of recognizing container type (General purpose, refrigerated, open top, platform, and tank containers).
- Ability to recognize both horizontal and vertical codes.
- Ability to recognize up to three row codes.
- Real-time hotlist alarm triggers.
- Support MJPEG and H.264 image formats.
- Generate daily and monthly reports and dashboards with customizable tailored statistics and dashboards.
- Export data with one-click in Excel and PDF formats.

Additional Features

Ability to filter based on:

- Time & date range
- Camera name
- Product Group
- Container Height
- Owner Code
- Container Code
- Character Color
- Character Background Color
- Container Type
- Container Length
- Confidence
- Code Length

Applications



Inventory management



Container surveillance systems



Truck loading



Automated tunnel security systems



Airport and harbor logistics



Commercial vehicle applications



Smart city ITS systems

Business Value

The 6SS ACCR® software offers an efficient solution to the growing demand for reliable and automated container code recognition. With a vast number of containers in circulation, manual tracking and recording of container movements can lead to inaccuracies and potential security risks. 6SS ACCR® eliminates these challenges by providing a fast and accurate recognition process for ISO 6346 (BIC), ILU, and ACCR_USA codes. This software can be integrated with various applications such as airport and harbor logistics, border control, customs, security monitoring, and inventory management, allowing for seamless and centralized control through the XProtect Smart Client. The software also offers user-friendly configurations and flexible filtering capabilities, along with the ability to export data in various formats and customizable data retention period handling. 6SS ACCR® is a cost-effective solution that helps companies increase revenue, reduce labor costs, and enhance security and safety in the transportation and trading industry.