



Softage LLC Case Study

Traffic Control System

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Challenge

Our customer needed a software system allowing automated road traffic monitoring and facilitating finding stolen cars. The system was requested by police department of a European Union country. An ideal solution would support a large network of video cameras installed across the country.

Solution

According to the customer's specifications, Softage has developed an automated traffic control system which allows:

- MPEG4 video encoding from a camera
- Storing of encoded video on Hard Drive
- Broadcasting and playback of encoded and stored video
- Transmitting of recognized license plate numbers inside the media stream
- Transmitting of a sound alarm when the number belonging to a stolen car is recognized
- Updating of the archive of stolen cars
- Downloading of all license plate numbers recognized by the plate recognition software
- Searching for data by date and time

Also a Web-base application was designed consisting of the following:

- Thumbnails of all cameras installed
- Camera image page - clicking on a thumbnail displays an image of the camera
- On the camera image page an operator can explore a number of pre-set camera positions or move the camera manually in a desired direction. Zoom-in and zoom-out functions are supported.

Tools and technologies: Microsoft Media Encoder 7 SDK, Borland C++ 5, MS VC6, ATL, ActiveX, DCOM