

Assignment specification:

Build a SOA-style system consisting of a motion detection logger, a web service that provides motion logs, and a client that is able to request motion logs from the Axis camera (via the web service), and display the motion log in a nice way using an online charting service.

Solution:

The presented solution has the following architecture:

`logger.c`: an ACAP application that subscribes to motion events detected by an Axis camera and saves them to the system log within the camera's file system.

`log_parser.py`: a Python script that parses the system log of the camera and extracts motion detection events in JSON format

`restws.py`: a Python script that creates a RESTful web service allowing to get motion detection data for a specified time interval

`chart.html`: an HTML file that exemplifies the consumption of the aforementioned web service, and visualizes the motion intervals using a timeline chart from Google.