yuuvis®

OPTIMAL SYSTEMS
A KYOCERA GROUP COMPANY

Software für Macher.

Innovation Case Study Smart Security Systems
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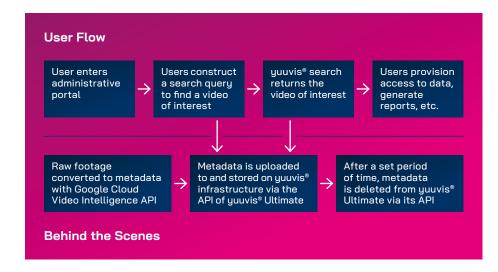
SMART SECURITY SYSTEMS

Optimize security footage archival, search and analysis

Smart Security Systems runs security footage from multiple video streams through a video processing algorithm, tagging video content before storing the video metadata in yuuvis® database. This metadata can then be stored for a long time, easily queried with filters and tags, shared based on specific parameters (e.g., only videos that match a suspect description), and used to generate insightful incident briefings and reports.

The Challenge Large businesses are producing an extraordinary amount of untagged security footage every day. It's hard to store in a format that can be queried on-demand in a way that scales as the amount of the security footage archive grows. Companies also have a difficult time provisioning access to interested 3rd-party stakeholders, including police, lawyers and insurance companies.

The Solution With valuable features like the ability to detect location and time, the Google Cloud Video Intelligence API converts raw video into metadata. This metadata is pulled into the yuuvis® database using the yuuvis® Ultimate and is stored in a much more time, space and cost-efficient manner than storing complete video footage. Using yuuvis®, one can easily perform queries to obtain the exact snippet of metadata (and thus the associated video) based on various tags and filters using the Elasticsearch functionality.

Privacy: Share only relevant data with 3rd parties

Cut costs: Store metadata, not data, to lower long-term storage fees

Quickly uncover valuable information: With automatically generated tags and powerful search functionality

User Flow

| User enters administrative portal | → | Users construct a search query to find a video of interest | → | yuuvis® search returns the video of interest | → | Users provision access to data, generate reports, etc. |

| Raw footage converted to metadata with Google Cloud Video Intelligence API | → | Metadata is uploaded to and stored on yuuvis® infrastructure via the API of yuuvis® Ultimate | → | After a set period of time, metadata is deleted from yuuvis® Ultimate via its API |

Behind the Scenes

Technology

- yuuvis® Ultimate for metadata search & storage

- Google Cloud Video Intelligence API

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