**OpsSafety v2 - Live Streams for PPE Compliance, Action Monitoring, Fire & Smoke Detection, Zone Monitoring**

**Demo Narrative (WIP)** **March 2025**

**Armada’s goals & differentiation**

* Reduce alert noise & minimize false positives
* Increase ability to contextualize criticality of issues, just-in-time alerting and reporting for customer’s operational conditions.
* Leverage existing camera infrastructure or discover opportunities to optimize to support your proactive monitoring needs.
* In Cloud or Edge
* Comprehensive safety and security solution that can support range of use cases: monitoring actions of interest or that require attention, fire & smoke detection, ensuring PPE compliance, zone monitoring, and slip/trip/fall hazards detection.

**OpsSafety can automatically detect or monitor**

* **PPE Compliance:** PPE (hard hats, vests, gloves, and/or boots)
* **Action Monitoring**: People’s Actions that may indicate an unsafe or security issue
* **Fire & Smoke**: instances of Fire & Smoke
* **Slip, Trip, Fall (STF) Hazards** (to come):
* **Restricted & Exclusion Zones**
  + **Static**
  + **Dynamic** (to come)

**Accounts**

* “Armada” account has Industrial scenarios
* “Armada PubSec” account has Public Sector scenarios

**Pre-loaded data for demos**

* Live streams from:
  + Galleons in Seattle and Houston.
* Uploaded videos for:
  + Mining
  + Oil & Gas
  + Emergency Response
  + DoTs
  + Ports & Logistics
  + Railroad
  + Recycling Facilities Waste Pits
  + Airports

The following are pre-seeded samples for data and use cases that are available as of Feb 2025 for anyone to use for demos:

A screenshot of a web page

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**Features**

* **Video data sources: Live streams** can be added via protocols like RTSP and RTMP or by **uploading video** from Azure Storage or device.
  + *In demo, Armada team members can use following sample streams:*
    - Seattle Galleon: rtsp://root:armada@156.146.96.218:34150/axis-media/media.amp
    - Houston Galleon: rtsp://root:armada@65.59.58.194:7199/axis-media/media.amp
    - rtmp://mock-rtsp-server.antmedia.svc.cluster.local:1935/stream3
  + *In demo, Armada team members can upload videos from Armada Azure storage for samples from industries such as: ports & maritime services, mining, and recycling facilities waste pits.*
* **Incidents/alerts:** Users can see running, live log of incidents/alerts for across all of the live and recorded videos or per data source.
  + The Incident Details Page provides a clip showing the detected issues.
  + Severity level of the alerts can be defined by the customer.
* **Analytics:** Per live stream or uploaded video, you can see the counts and distribution of the incidents.
* **Reports:** Users can receive reports and notifications via email. Can view and download reports in portal.
  + Support for additional notifications methods to come via Commander platform.
* **Audit logs** include events such as upload/deletion of videos, report downloads.
* **AI Assistant** can support with information about what the OpsSafety product does and supports.

**Detailed Steps & References**

* **Add a Live Stream**
  + Select “Connect camera” A screen shot of a device

    AI-generated content may be incorrect.
  + Add RTSP URL as provided: A screenshot of a device

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  + Select Use Case for which to detect issues in the selected video stream A screenshot of a video call

    AI-generated content may be incorrect. A screenshot of a phone

    AI-generated content may be incorrect. A screenshot of a phone

    AI-generated content may be incorrect.A screenshot of a computer

    AI-generated content may be incorrect.
  + Specify frequency of reports to be generated for the live feed and who receives the reports.
  + As it is live and processed, you can see incidents being added to the overall feed on landing page and per feed. The incident details can be seen per incident. A screenshot of a video chat

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* **Upload a Video**
  + Select “Upload Videos” A screenshot of a video recording

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  + Choose to add Video(s) (up to 6 at a time) from device or Azure storage A screenshot of a video game

    AI-generated content may be incorrect.
  + Pick folder and video files based on industry or use case type for demo A screenshot of a computer

    AI-generated content may be incorrect. A screenshot of a video downloading

    AI-generated content may be incorrect.
  + Select Use Case for which to detect issues and incidents in the video to be uploaded, like for live stream.
  + (Optional) Specify who should get a report by email of the processed video A screenshot of a chat

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  + Name the analysis/report for the uploaded video. Confirm and save. A screenshot of a report

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  + Uploaded video in “Processing” state should show up immediately as shown below. But sometimes the page may need to come back or be refreshed. A screenshot of a video recording

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  + After it is processed, it will visually show the incidents/alerts (which can contain multiple detections). A person in a helmet and hardhat in a tunnel

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  + For the uploaded video, incidents/alerts for it can be seen by selecting it. And by clicking on the incident leads to the details page which include the relevant clip. A screenshot of a computer

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