Video Analytics Serving based on OpenVINO™ DL Streamer
OpenVINO™ DL Streamer – Edge AI Extension

Video Ingestion Client (e.g., Azure Video Analyzer) \(\xrightarrow{\text{Video Frames}}\) OpenVINO™ DL Streamer – Edge AI Extension

- Biz Logic
  - Json Resp.
  - gRPC API
  - Detection
  - Classification
  - Tracking

Intel - Video Analytics Serving (uService)

Json Resp. (meta data)

OpenVINO™ Inference Engine

Open Model Zoo

Intel® Hardware

Intel® Xeon

CPUs

Accelerator Cards

README: https://github.com/intel/video-analytics-serving/tree/master/samples/lva_ai_extension

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Edge to Cloud

OpenVINO™ Toolkit + Live Video Analytics → Azure IoT

**Intel at the Edge**
- Biz Applications & Other Containers
- Live Video Analytics (Video Ingestion Client)
- Azure IoT Edge Runtime

**Heterogeneous Architecture Choices**
- Kits
- Accelerator Cards

**Operating System**

**Cloud**
- Azure IoT Hub or Azure IoT Central
- Device Provision & Control
- Stream Analytics
- Power BI
- Web Server

**Azure**
- Azure ML (Train, Develop AI)

**Dashboard**

**Edge to Cloud**
- OpenVINO™ Toolkit + Live Video Analytics
- Azure IoT Hub or Azure IoT Central

**OpenVINO™ DL Streamer**


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Accelerate Prototype to Production & Solution Deployment

DEVELOPER KITS
Intel® Distribution of OpenVINO toolkit

DEVELOP ON HOST SYSTEM
E.g.: AAEON UP Squared AI Vision Developer Kit
IEI Tank AIoT Developer Kit

DEVELOP USE CASE SPECIFIC OFFERS
Developer optimization & use case specific applications

INCREASE PERFORMANCE
Intel® Vision Accelerator Design Products
Intel® Movidius™ Myriad™ X VPU
Intel® Arria® 10 FPGA

SCALE
Deploy solution & solve business problems, and scale with Intel® IoT Solution Aggregators & Ecosystem

DEVELOP USE CASE SPECIFIC OFFERS
Intel® RFP Ready Kits

& TEST on Intel® DEVCloud for the Edge

Intel® AI: In Production
www.intel.com/ai-in-production

Intel/MSFT Joint Solution Site
www.theintelligentedge.com

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Useful Links for Intel® Devices

- Developer Kits for IoT (intel.com)
- Recommended Device Catalog
- Intel® IoT RFP Ready Kits - Intel® Solutions Marketplace
- Detailed info from Build to Scale using Intel Devices
  - Intel® DevCloud
  - RFP Ready Kits
  - Market Ready Solutions
  - Developer Kits, Accelerator cards