

Accenture 5G Cloud Box Quality Inspection with Video Analytics



Problem

During car manufacturing process a logo shield may be wrongly placed causing delay on production time, quality problems and sometimes the need to repaint the vehicle



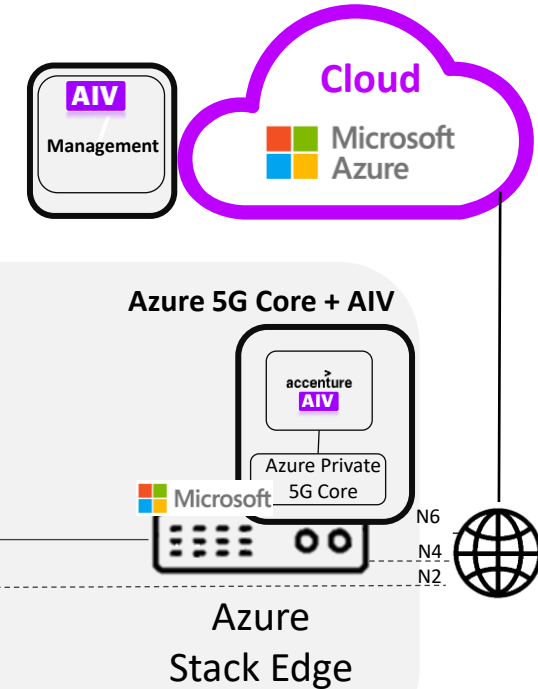
5G Applicability

Implement a **video analytics solution** transmitting images in real-time over the 5G network, so the monitoring team can be alerted as soon as a wrong logo shield is detected, allowing them to take action to fix the issue



Expected Results

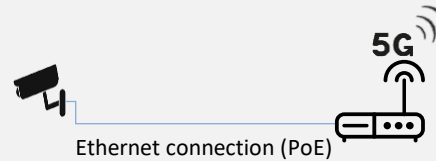
- Process Automation
- Improve data capture and analytics information regarding the production line



On-Premise Private Network



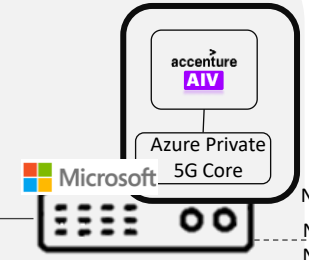
Manufacturing Line



Ethernet connection (PoE)



Azure 5G Core + AIV



Azure Stack Edge

Number of cars inspected on Nov 13th – total of 1.148 cars
Statistics per hour and per vehicle model



AI Based Video Analytics Platform - Results

Analysis detail for a specific vehicle showing logos/tags identified, Model & Version of the vehicle, reliability level of AI model, and date & time

Detecções	Quantidade total	Nível de confiança
Compass	18	79.77%
Renegade	16	84.70%
Toro_M	14	93.89%

Detailed Statistics of pre-selected date and hour showing how many detections of each model were performed and the reliability level of the AI model



Detecção de Siglas



Detetado em: 13/11/2021 01:34:53
Versão(s): TPJ, 1PM

Nível de confiança: 97.66%
Siglas: Toro_M, Fiat, Toro, 270 Turbo, Endurance