

SHAPING INTELLIGENCE

MEET AIOT.
TOUCH THE FUTURE.

Vertical Ecosystem Practices – Retail

Carabao Group





ถูก·ดี
มีมาตรฐาน

Carabao Group



BUSINESS MODEL

TD Tawandang



Current Solution

5,200 stores

41,600 Cameras



HikCentral Connect Supports us to Reduce Cost and Accelerate Operations Digitalization

The Background and Pain Points

As franchised stores' scale rapidly increases, more and more risk from **internal fraud & loss** by stealing goods or pocketing the money

Cameras and DVR have been deployed in shops but **no centralized VMS** was available. The stores continue to expand. Central remote VMS becomes more and more urgent.



POS Data



Onsite Inventory



- Mismatching of POS sales & inventory checking
- 150 -200 stores per month
Cost 100,00 THB per month for onsite



- Live view/ Playback
- Video footage download
- Cashier and store management

HikCentral Connect Supports us to Reduce Cost and Accelerate Operations Digitalization

The Challenges



Large number of stores
Expanding rapidly



Wide Franchised Coverage
Central CCTV Management
Remote Fraud Audit
Remote Operation Management



High initial investment for 40,000
channels if traditional on premise
system



Complicated deployment
Maintenance burden if on premise

Sever? Software? Network? Electricity?
Control Center? Maintenance? ...



HikCentral Connect

VSaaS Platform for Unified Security Management



**Cloud-based
IT Investment → Service Subscription**

HikCentral Connect Supports us to Reduce and Accelerate Operations Digitalization



HikCentral Connect

Connected Security, Ready to Go



Camera



DVR



- Monitoring & Dashboard
- Playback , Live view , Download
- User authorization
- Mass configure
- System on Cloud

Main Benefit



Budget Friendly



Easy to Deploy



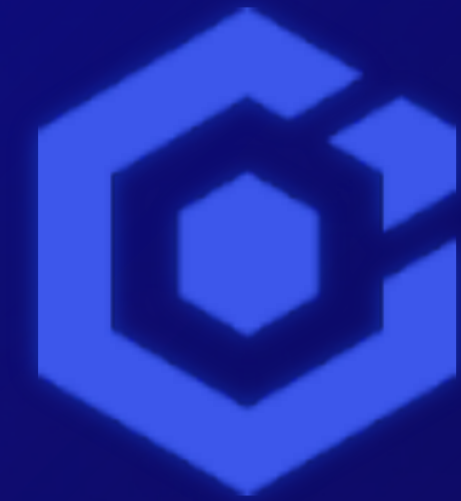
Highly Scalable



Secure and Reliable

HikCentral Connect Supports us to Reduce and Accelerate Operations Digitalization

Current Progress and Performance



HikCentral Connect

- Now build up a centralized VMS with > 40,000 channels.
 - Audit and Event Handling **Efficiency** Improved

Carabao can add cost data or estimate

Before

After



Event search and audit

No Remote Audit
Can only go on-site

Central, Online & Remote VMS
Remote search, playback,
download
30 min



Time for event audit per shop

2-4 hour (including travel)

30 min

↑ 8x



Audit branch per auditor in one day

2-3 shops

12-16 shops

↑ 8x



Time for event audit for all branch

2 month (estimate 20% has event,
xxx auditors total)

1 week

Travel cost for on-site audit

\$xxx/ per month

Near zero



Device maintenance event handling

Only go on-site

Online & Remote Audit



To be Solution



8,000 stores

64,000 Cameras

AI camera for Fraud detection

Fraud detection



Log CCTV - > 09:00

09:00 < - Transaction Bill

Log CCTV - > 09:10

09:10 < - Transaction Bill

Log CCTV - > 09:22

Fraud ??

Log CCTV - > 09:41

09:41 < - Transaction Bill

Log CCTV - > 09:57

09:57 < - Transaction Bill

Log CCTV - > 10:05

Fraud ??

Log CCTV - > 10:10

10:10 < - Transaction Bill

Log CCTV - > 10:16

10:16 < - Transaction Bill

Log CCTV - > 10:25

10:25 < - Transaction Bill

Log CCTV - > 10:40

10:40 < - Transaction Bill

Log CCTV - > 10:53

10:53 < - Transaction Bill

Bill



HikCentral Connect Supports us to Reduce Cost and Accelerate Operations Digitalization

Future Planning

- AI Fraud Audit: Event Video + POS Transaction Data

Queue Detection



Workflow

- Queue Detection Camera Event (over time threshold)
- HCC Event API and Video API
- Event and POS Data Comparison If POS data missing or cancelled, as Risky Fraud Order;
- Verify Event Video and Get Result.



Fraud Audit & Verification Platform:
Queue Event + Video + POS Linkage



Open API (Event + Video)



HikCentral Connect



Shop 1



Shop N

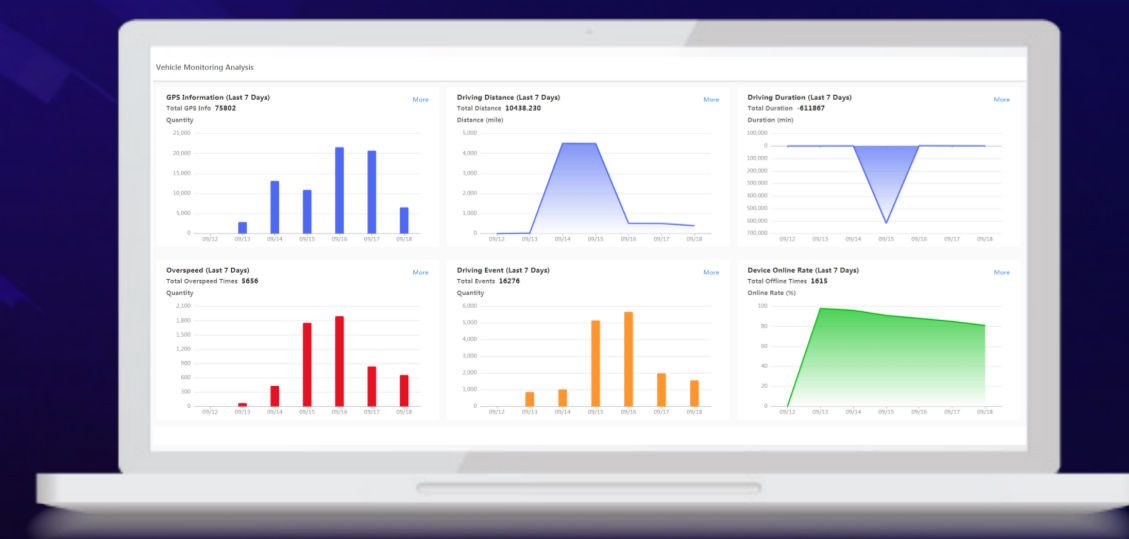


POS
System

HikCentral Connect Supports us to Reduce Cost and Accelerate Operations Digitalization

Future Planning

Logistics Fleet Line Haul: Vehicle Tracking and Management



Main Applications

Monitor

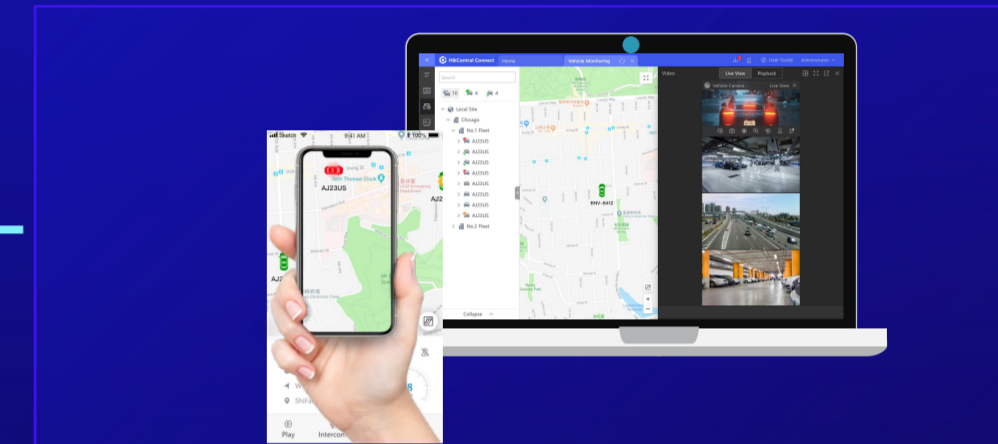
- HD real-time monitoring
- GPS location tracking
- Video backup

Active Alarm

- ADAS/DBA alarm
- Device abnormal alarm
- Quick alarm handling

Operation

- Multi-dimension analysis



WAN





THANK YOU