IVM

Service Overview

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1 Service Overview

Industry Video Management (IVM) offers a variety of cloud-based features for Huawei devices, including cameras (SDCs and IPCs), network video recorders (NVRs), and intelligent video storage (IVS), as well as third-party devices. These features allow for cloud-based video access, management, and storage, live video viewing, recording playback, and video intelligent analysis with device-cloud synergy. Additionally, software vendors can develop applications such as intelligent chain stores and smart logistics solutions using IVM.

Figure 1-1 Product architecture
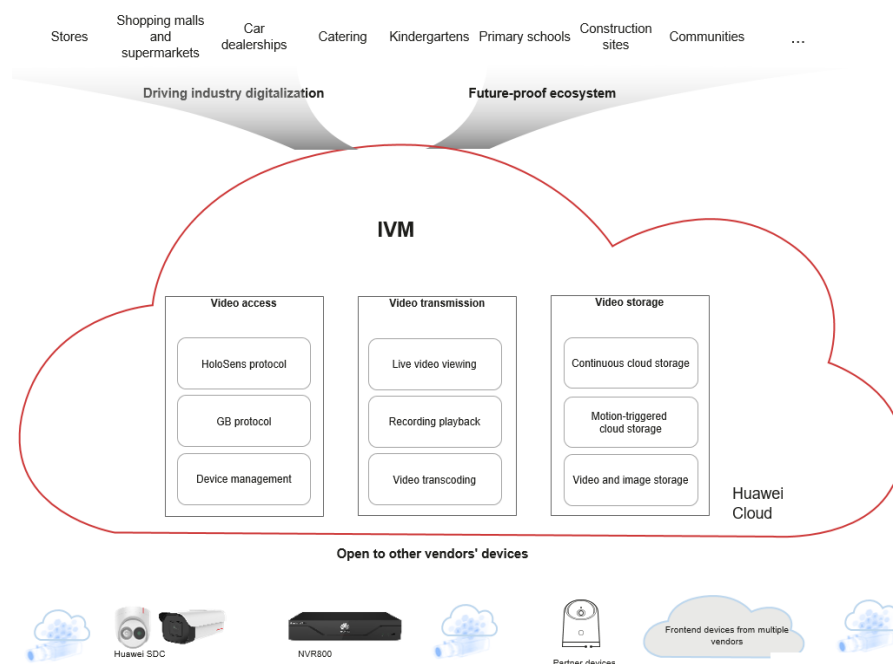
2 Security Features

IVM complies with security regulations, adheres to service boundaries, and will never monetize customer data.

Access Control

IVM authenticates users' access to devices, media data, and alarm data, to prevent data and privacy breaches.

Encrypted Transmission

Signaling and media are encrypted for transmission between devices and IVM. Your accesses to IVM APIs adopt secure channels for requests and responses.

Encrypted Storage

Storage services (including image, media, and data storage) provided by IVM encrypt sensitive and private data before storage.

Data Deletion

After a user is deregistered, all data related to the user is deleted and cannot be restored.

If you stop using this service, any backup data for disaster recovery will be deleted within seven days.

3 Product Functions

Table 3-1 Product functions

| Function	Description
Video access	Supports connection to cameras, intelligent video storage, and video security platforms of various manufacturers to realize efficient device management and configuration.
Video storage	Offers secure and reliable cloud-based video storage with a large capacity.
Video transmission	Allows users to access live video, recordings, device information, and alarm data from anywhere on the network at any time.

4 Application Scenarios

Intelligent Chain Store

Intelligent chain store companies use IVM to manage, store, and analyze video footage from cameras and NVRs. This enables them to create applications like video-based store inspections, spot checks, and appraisals. These solutions can be applied across a range of intelligent chain store solutions, such as smart shopping malls, supermarkets, stores, car dealerships, and catering establishments.

Figure 4-1 shows the architecture.

Figure 4-1 Intelligent chain store scenario (using stores as an example)
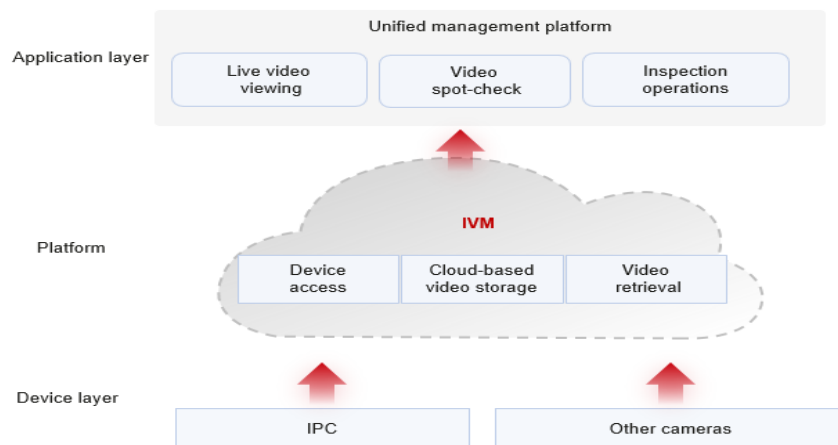
5 Product Advantages

Open Access

- Quick access of heterogeneous devices
- Standard APIs that enable upper-layer ISV application innovation
- Device upgrade on the cloud with flexible device parameter configuration

Intelligent Ecosystem

- Cloud-edge synergy of intelligent algorithm data
- Openness and sharing of intelligent algorithm data

Security and Trustworthiness

- Encrypted data transmission and storage and video watermarking
- Dynamic privacy mask
- E2E traceability

Consistent Experience

- Unified architecture and consistent service experience on the Huawei Cloud and hybrid cloud
- Efficient and reliable access to live and recorded videos
- Enhanced E2E encryption for video transmission
- Cloud-based video storage with all-scenario DR