Dahua Cloud Storage
Big data, Best choice

ExtremeStor™

Home & SME Cloud Surveillance

Web-based cloud storage and video services, a new profit recourse for SIP

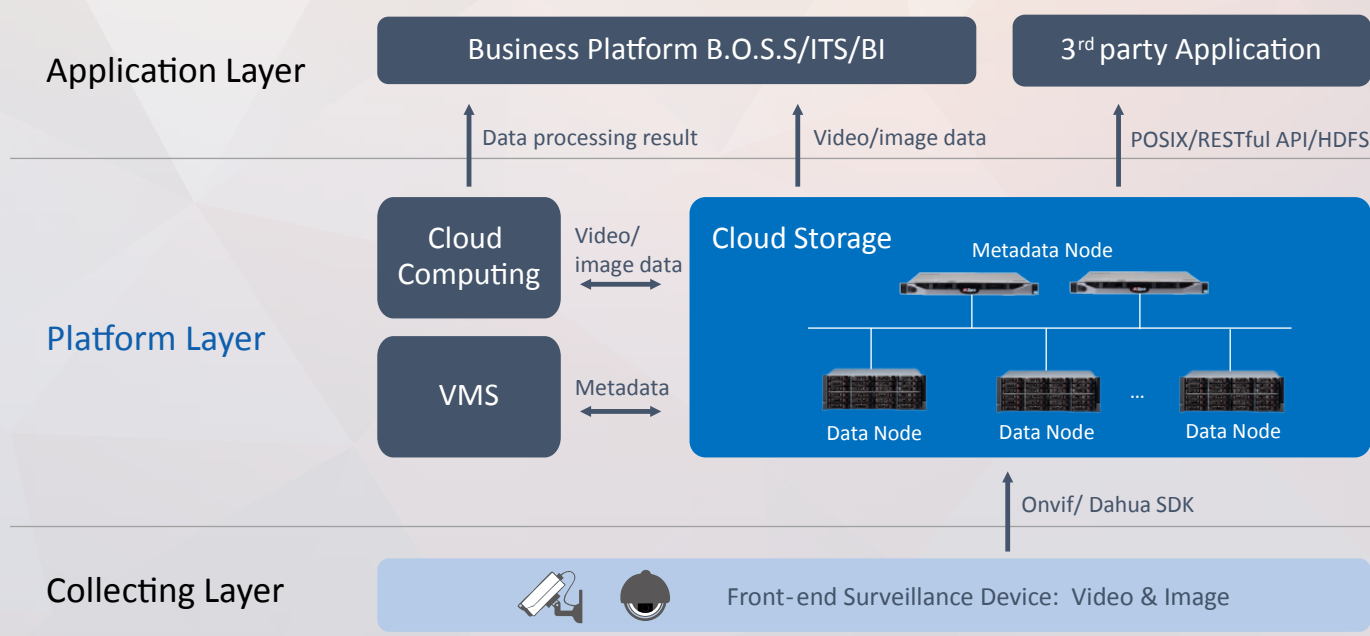## Safe City Cloud Surveillance

Massive storage capacity with high availability and efficiency

Intelligent Traffic Surveillance

Combined with cloud structured analysis, enabling fast vehicle and individual targeting

System Framework >>

Application Layer	Business Platform B.O.S.S/ITS/BI	3rd party Application

Data processing result   Video/image data   POSIX/RESTful API/HDFS

Platform Layer

Cloud Computing

Video/image data

Cloud Storage   Metadata Node

VMS

Metadata

Data Node   Data Node   ...   Data Node

Onvif/ Dahua SDK

Collecting Layer

Front-end Surveillance Device: Video & Image

Key Features >>

Dahua Extremstor cloud storage featuring an object storage architecture that delivers unparalleled performance and linear scalability, is able to meet the requirement of massive data storage and provide a fundamental platform for data mining.

Easy for Surveillance

Store video stream directly, saving the cost for 3rd media server
Advanced key-frame extraction technology, saving the TCO in a long term

High Performance

Achieve full concurrent access to multiple nodes by separating between control flow and data flow, and dynamic load balancing mechanism
High read/write performance with a minimum of 4GB/s bandwidth by 6 nodes, enhancing the capability of video analysis and data processing dramatically

High Reliability

Achieve device-level fault tolerance by means of state-of-the-art erasure coding technology
File-level fault tolerance, extreme recovery speed to 3TB/h

Easy to Expand

Online capacity expansion by simply adding storage node without interrupting business running.
Achieve linear scalability by increasing the read/write performance at the same.

Technical Specifications >>

Metadata Node

Model	DHI-CSS5100X	DHI-CSS9046X
Appearance		
Form Factor	1U rack server	1U rack server
Processor	Intel Xeon V3 4 core	2 x Intel Xeon V3 6 core
Chipset	Intel C222	Intel C610
Memory	32GB DDR3 ECC	64GB DDR3 ECC
Storage	Enterprise SATA, SAS, SSD	Enterprise SATA, SAS, SSD
Communications	Broadcom 5720 4x 1Gb Base-T adapter	Broadcom 5720 4x 1Gb Base-T adapter

Data Node

Model	DHI-CSS7124S	DHI-CSS7136S	DHI-CSS7148S
Appearance			
Form Factor	4U rack server	4U rack server	8U rack server
Processor	Intel IvyBridge 4 core	Intel IvyBridge 4 core	Intel IvyBridge 4 core
Memory	8GB DDR3	8GB DDR3	8GB DDR3
Storage	24 x 2.5''/ 3.5'' SATA / SAS Hot -swap	36 x 2.5''/ 3.5'' SATA / SAS Hot -swap	48 x 2.5''/ 3.5'' SATA / SAS Hot -swap
Communications	4 x 1Gb Base-T adapter; 2 x 10Gb Base-T adapter optional; Load Balance		
Power Consumption	Dual power 200W	2 + 1 redundant power 200W	2 + 1 redundant power 200W

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