





سازمان اسناد و کتابخانه ملی جمهوری اسلامی ایران

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دائرة اسناد و کتابخانه ملی جمهوری اسلامی ایران  
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(IUL)196-C/1/2026/46

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31 شهریور 1385

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## Requirement and Scope of Work for Supply, Installation, Configuration and Integration of Hybrid Archive Case and CCTV Recording Storage

### 1. Summary

#	Item	Quantity
1	Hybrid Archive Case and CCTV Recording Storage	1
2	Installation, Configuration and Integration of Hybrid Archive Case & CCTV Recording Storage	1

### 2. Specification for Hybrid Archive Case and CCTV Recording Storage

#	Feature	Minimum Specification	✓
1	Features	<ul style="list-style-type: none"> <li>- High-quality recorder capable of storage and adopts multiple advanced technologies, including direct streaming video and picture technology</li> <li>- Support scheduled backup function, allow the configuration of schedule to transfer historical recordings from IPC/NVR devices to network storage.</li> </ul> <p>Support multiple recording types, including continuous recording, manual recording, main, sub stream recording; motion recording, sensor alarm recording etc.</p>	
2	Form Factor	4U Rack-mount Chassis	
3	Controller & Cache	<p>Controller: Single controller with 64-bit multi-core processor.</p> <p>Cache: 16 GB (extendable to 64 GB)</p>	
4	Installed HDD Capacity	10 × 16TB Surveillance HDDs configured in RAID6	
5	HDD Slots & Interface	24 slots supporting hot-swappable SATA HDDs (4TB to 20TB)	
6	Supported RAID Levels	RAID 0, 1, 3, 5, 6, 10, 50, Hot-Spare	
7	Network Interfaces	Data: 4 × 1GbE, Management: 1 × 1GbE.	
8	External Interfaces	4 × USB 3.0, 2 × USB 2.0	
9	Supported Protocols	iSCSI, RTSP, ONVIF	
10	Recording Management	<p>Recording mode: Timing recording, event recording</p> <p>Video protection: Lock key video, video loss detection and alarm</p> <p>Searching mode: Search by time and event</p>	
11	Performance (Video)	500 channels at 2 Mbps stream rate	
12	Management	Web-based GUI, serial port CLI	
13	Power Supply	Redundant 550W power supplies	
14	Warranty	1 Year	

## 3. Scope of Work

The supplier shall be responsible for the complete commissioning and integration Hybrid Archive Case and CCTV Recording Storage at PGO. The following detailed tasks must be executed:

### 3.1 Installation, Configuration and Integration of Hybrid Archive Case and CCTV Recording Storage

#### a. Storage Architecture Design

- The recording storage appliance shall be configured with 10 × 16TB surveillance-grade HDDs in RAID6 configuration, providing approximately 128TB usable storage
- **Central Site Recording:** Create and allocate appropriate LUN for direct recording from central office cameras
- **Remote Site Archiving:** Create and allocate appropriate LUN for centralized archiving of video from remote sites
- **Central Archiving:** The recording storage shall serve as the primary archive repository, synchronizing video from remote sites
- **Case Archiving:** Provide a secure, dedicated, and long-term repository for case-related digital records, separate from operational CCTV recording LUNs. The system shall support storage and retrieval of mixed-content data. Archive Case Storage must prevent automatic overwrite and allow retention based on organizational policy. Access shall be restricted to authorized personnel only, with protection against accidental deletion or modification. The solution shall support manual and system-based ingestion, reliable search and retrieval.

#### b. Physical Installation & Setup

- Install the recording storage in the designated server room rack position
- Install redundant power supplies
- Install power cabling, management cabling and data cabling
- Power on the system and update firmware to latest stable version compatible with the existing HikCentral VMS platform
- Configure RAID6 array with hot-spare drive
- Initialize storage pool
- Configure storage pool alerts: disk failure, RAID degradation, temperature warnings

#### c. Network Configuration & Integration

- **Data Interfaces:** Configure 2 × 1GbE ports in LACP bond for video recording traffic, assigned to relevant VLAN

- **Management Interface:** Configure dedicated 1GbE port on Management VLAN for web-based GUI and SNMP monitoring
  - **iSCSI Interface:** Enable iSCSI protocol on data interfaces for VMS integration, configure MPIO for load balancing
  - Enable jumbo frames on all storage network interfaces
- d. HikCentral VMS Platform Integration
- Configure direct storage protocol integration, enable automatic storage provisioning
  - **Protocol Support:** Enable RTSP and ONVIF protocols for direct camera recording compatibility
  - **Recording Configuration:** Set recording mode to "Timing Recording" for continuous 24/7 operation with event-based video protection
- e. Remote Site Archiving Configuration
- Set up automated archive tasks: transfer video files from remote sites to central the storage appliance
  - Configure bandwidth throttling
  - Configure automatic retry mechanism for failed archive transfers
  - Set up alerts for incomplete archive jobs: email notification to administrators
- f. Retention & Overwrite Policies
- Configure auto-overwrite for recordings older than 90 days
  - Set video lock protection for alarm events: locked videos retained
- g. Network Security Integration
- Change default admin credentials and disable default accounts
  - Enable HTTPS/SSL for all web management access (TLS 1.2 or higher)
  - Configure IP whitelist: allow VMS servers and management workstations only
  - Disable unused services: FTP, SNMP v1/v2, Telnet
  - Enable audit logging: all access and configuration changes logged to syslog server (if applicable)
  - Integrate with the existing Fortinet Network Security Infrastructure
- h. Monitoring & Alerting Integration
- Configure SNMP for monitoring system integration
  - Set up SNMP traps for: disk failure, RAID degradation, power supply failure, temperature exceedance
  - Configure email alerts for critical events
  - Set up HikCentral VMS dashboard integration: display storage health status in VMS client

i. Testing & Commissioning

- Verify the HikCentral VMS platform successfully records to the recording storage
- Test video retrieval from the recording storage
- Validate remote site video archiving
- Test video lock functionality

j. Acceptance Criteria

- Storage capacity verification
- RAID health status: Optimal with 1 hot-spare drive active
- Network connectivity: All interfaces reachable, LACP bond active, jumbo frames
- HikCentral VMS integration: All camera recording paths active, no video loss
- Archive sync: Sync for all remote sites

k. Documentation Requirements

- Storage pool configuration report with RAID layout and disk assignments
- Network configuration document: IP addresses, VLANs, LACP settings, MPIO paths, network security policies
- Retention policy configuration
- Archive sync schedule and bandwidth configuration details
- Physical connectivity diagram to network, and VMS servers
- Network integration diagram: VLANs, interfaces, and traffic flows in CCTV environment







- מנע מכל אדם להשתמש במידע זה לצורך אישור או סירוב (35) או להשתמש בו לצורך אחר (למעט אם יאושר על ידי השר). (למעט אם יאושר על ידי השר או על ידי מי שהוא ממונה על ידי השר).
- אין להשתמש במידע זה לצורך אישור או סירוב (5) או להשתמש בו לצורך אחר (למעט אם יאושר על ידי השר).

**תקנון 1**

<p><b>1. מטרת המסמך</b></p>	
<p>המטרה של המסמך היא: (להגדיר את המונחים)</p> <p>.....</p>	
<p>המטרה של המסמך היא: (להגדיר את המונחים)</p> <p>.....</p>	
<p>המטרה של המסמך היא: (להגדיר את המונחים)</p> <p>.....</p>	
<p>המטרה של המסמך היא: (להגדיר את המונחים)</p> <p>.....</p>	
<p><b>2. הגדרת המונחים</b></p>	
<p>המונחים המוגדרים במסמך זה הם:</p> <p>.....</p>	
<p>המונחים המוגדרים במסמך זה הם:</p> <p>.....</p>	
<p>המונחים המוגדרים במסמך זה הם:</p> <p>.....</p>	
<p>המונחים המוגדרים במסמך זה הם:</p> <p>.....</p>	
<p><b>3. אישור המסמך</b></p>	
<p>המסמך אושר על ידי: (השר או מי שהוא ממונה על ידי השר)</p> <p>.....</p>	
<p>המסמך אושר על ידי: (השר או מי שהוא ממונה על ידי השר)</p> <p>.....</p>	
<p>המסמך אושר על ידי: (השר או מי שהוא ממונה על ידי השר)</p> <p>.....</p>	

