Edge storage
New possibilities to design flexible and reliable recording solutions.

Edge storage is a concept in Axis network cameras and video encoders that allow them to record video directly to a storage device such as an SD/SDHC card. When integrated with video management software (VMS), edge storage helps create more robust and flexible video surveillance systems for mission-critical installations, remote locations, or mobile situations.

Edge storage allows a network video device to create, control and manage recordings either locally to an SD/SDHC card, or to network shares such as Network-Attached Storage (NAS).

Edge storage works as a complement to central storage. It can record video locally when the central system is not available, or continuously record in parallel. When used together with video management software (VMS), missing video clips resulting from network disruptions or central system maintenance, can later be retrieved from the camera and merged with the central storage, ensuring the user gets uninterrupted video recordings.

Additionally, edge storage can improve video analysis for systems with low network bandwidth where video cannot be streamed at highest quality. By supporting low bandwidth monitoring with high quality local recordings, users can optimize bandwidth limitations and still retrieve high quality video from incidents for detailed investigation.

Edge storage can also be used to manage recordings in remote locations and other installations where there is intermittent or no network availability. On trains and other rail bound vehicles, edge storage can be used to record video onboard and then transferred to the central system when the vehicle stops at a depot.
Specifications – Edge storage

<table>
<thead>
<tr>
<th>Application examples</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Redundancy during network disruptions or system maintenance</td>
<td>Uninterrupted video recordings. Central VMS can retrieve and merge local video recordings seamlessly when network connection is restored.</td>
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<td>Low bandwidth environments</td>
<td>Local recording of high quality video for detailed identification of objects, persons and incidents to support low bandwidth monitoring.</td>
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<td>Remote installations</td>
<td>High-quality video recordings even if no network connection is available at the camera’s location.</td>
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<tr>
<td>Mobile surveillance</td>
<td>Easy to retrieve on-board recording storage in mobile environments such as public transport.</td>
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</tbody>
</table>

**System redundancy example**

![Image of video storage system]

**Edge storage video merged after failure**

**Component** | **Description**
---|---
Axis network cameras and video encoders | Edge storage for system redundancy is supported in a number of Axis network cameras and video encoders. For the latest update, please visit [http://www.axis.com/techsup/firmware.php](http://www.axis.com/techsup/firmware.php).


Storage media: Network-Attached Storage (NAS) | Edge storage for redundancy is compatible with the majority of Network-Attached Storage (NAS) products.

Video management software from Axis ADP partners | Edge storage is supported by leading Axis’ Application Development Partners including Aimetis, Genetec, Milestone, OnSSI and SeeTec (not all software support all application examples). See also [http://www.axis.com/partner/adp_program/index.htm](http://www.axis.com/partner/adp_program/index.htm).

AXIS Camera Station | Edge storage for redundancy (Fail over recording) is supported by AXIS Camera Station, see [http://www.axis.com/products/cam_station_software/](http://www.axis.com/products/cam_station_software/).

More information is available at [www.axis.com](http://www.axis.com)