

DEMS Deployment Scenarios

Standalone

DEMS is running on a single computer. Cameras and docking stations are connected directly to this computer. Media files can be stored either on this computer or on external storage.

Advantages:

- Minimal technical expertise
- Minimal maintenance required
- No network connectivity required

Standalone



Implications:

- 18 cameras can be connected and uploading to DEMS at any time
- Single computer only - evidence cannot be viewed across a network
- Evidence may not be held at a central, secure location

Ideal for:

This is the simplest deployment model and is ideal for small organizations, as well as for larger organizations running proof-of-concept and small pilot projects.

System Requirements

Supported Operating System:

- Windows XP SP3 and above
- Windows 8 recommended

Recommended Network Connectivity:

- None required

Required Pre-Installed Software (comes with DEMS):

- Microsoft .NET Framework 2.0 and 4.0
- Microsoft SQL Server 2008 R2 Express
- Visual C++ Runtime
- RS3 codecs for Windows XP
- IMAPI Service for Windows XP

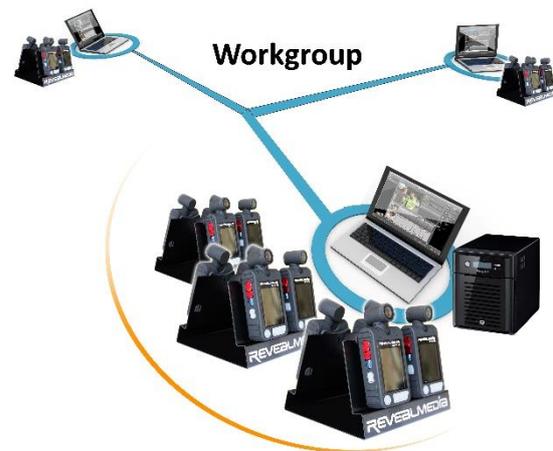
Hardware Requirement

- Intel/AMD CPU 2Ghz,
- 4 GB of Memory
- DVD±RW (for DVD burning)
- Hard drive (Size dependent on usage, RAID 5 array highly recommended)
- 4 x USB2 ports (for uploading up to 18 cameras using docking stations)
- Video card capable of playing HD video



Workgroup

DEMS runs on multiple networked computers. One of these computers also acts as the DEMS server, hosting the DEMS database and media file repository. Media files can be stored either on this computer or on external storage. Video content can be accessed and viewed from any of the DEMS clients network



Advantages:

- Only basic technical expertise
- Minimal maintenance required
- Network access to evidence

Implications:

- Up to 18 cameras can be connected to any computer running DEMS.
- Evidence may not be held at a central, secure location
- Single location only.

Ideal for:

The Workgroup model is suitable for organizations that require the ability to upload or access media content at multiple workstations.

System Requirements

Supported Operating System:

- Windows XP SP3 and above
- Windows 8 recommended

Recommended Network Connectivity:

- 100 Mbps Ethernet typically required

Required Pre-Installed Software (comes with DEMS):

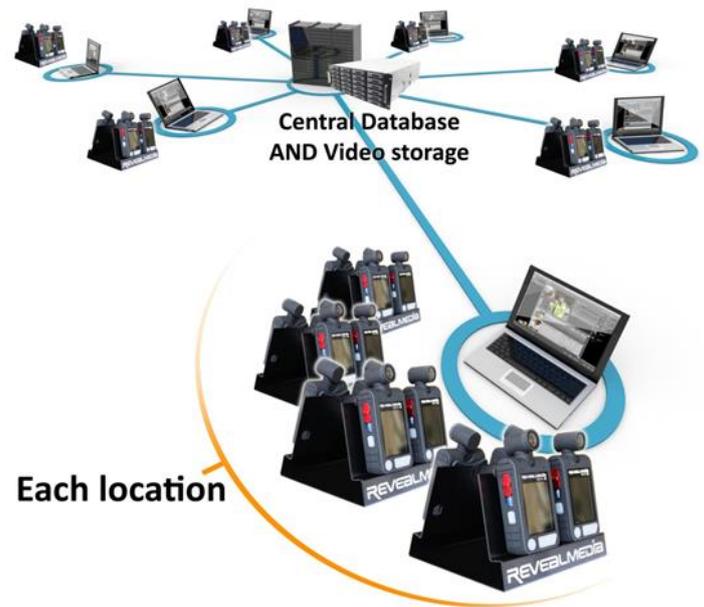
- Microsoft .NET Framework 2.0 and 4.0
- Microsoft SQL Server 2008 R2 Express
- Visual C++ Runtime
- RS3 codecs for Windows XP
- IMAPI Service for Windows XP

Hardware Requirement

- Intel/AMD CPU 2Ghz,
- 4 GB of Memory
- DVD±RW (for DVD burning)
- Hard drive (Size dependent on usage, RAID 5 array highly recommended)
- 4 x USB2 ports (for uploading up to 18 cameras using docking stations)
- Video card capable of playing HD video

Enterprise

DEMS is running on multiple client computers connected to a single, central server over a wide area network. The DEMS content database is co-located with a central media file repository on this central server.



Advantages:

- Central control, reporting and audit of all evidence, users and cameras
- View any videos anywhere
- Upload any camera at any location
- No practical limit on number of cameras to be managed
- Active directory support allows single sign-on
- All evidence held centrally

Implications:

- The installation process requires IT skills
- IT skills needed to maintain the system and to carry out future upgrades
- Files need to be transferred over the corporate network – sufficient bandwidth must be available.

Ideal for:

The Enterprise DEMS deployment model is ideal for multi-site organizations that want to be able to manage and view video content from any location and have sufficient wide area network (WAN) capacity to support the upload of video files to a central content repository.

System Requirements

Supported Operating System:

For Server Computer:

- Windows server 2003 R2 family (except Web Edition) and above
- Windows 2008 R2 Server SE recommended

For Client computers:

- Windows XP SP3 and above
- Windows 8 Enterprise recommended

Recommended Network Connectivity:

- 100 Mbps connectivity typically required between clients and central server.

Required Pre-Installed Software:

For Server Computer:

- Microsoft .NET Framework 2.0 and 4.0
- Microsoft SQL Server 2008 R2 Express with Management Studio
- Microsoft IIS
- Visual C++ Runtime

For Client Computers:

- Microsoft .NET Framework 2.0 and 4.0
- Visual C++ Runtime
- IMAPI service for Windows XP computers
- RS3 codecs for Windows XP computers

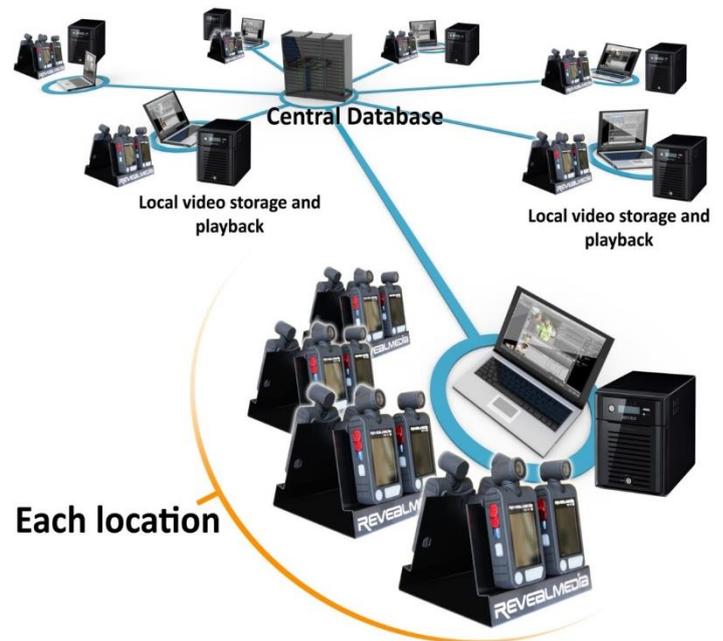
Hardware Requirement

- Intel/AMD CPU 2Ghz,
- 4 GB of Memory
- DVD±RW (for DVD burning)
- Hard drive (Size dependent on usage, RAID 5 array highly recommended)
- 4 x USB2 ports (for uploading up to 18 cameras using docking stations)
- Video card capable of playing HD video



Hybrid

In the Hybrid deployment model, the DEMS metadata and management database is hosted on central server. However, media files are stored in local content repositories hosted on the computer at which they were uploaded (called "Gateways"). The Hybrid model avoids the need to transfer large media files over the network. DEMS automatically generates reduced-resolution preview copies of video files. These files can be streamed across networks with limited bandwidth. The Hybrid deployment model delivers almost all of the advantages of the Enterprise scenario but without utilising significant wide area network bandwidth.



Advantages:

- Central control, reporting and audit of all evidence, users and cameras
- View any video content at any location
- Upload any camera at any location
- No practical limit on number of cameras to be managed
- Active directory support allows single sign-on

Implications:

- The installation process requires IT skills
- IT skills needed to maintain the system and to carry out future upgrades
- Evidence may not be held at a central, secure location

Ideal for:

The Hybrid deployment model for DEMS has been designed for multi-site organizations that need to capture, upload, manage and view video content at a number of locations. This model requires wide area network connectivity to each of these locations. However, the network bandwidth requirements for the Hybrid model are lower than for the fully-centralized Enterprise model.

System Requirements

Supported Operating System:

For Server Computer:

- Windows server 2003 R2 family (except Web Edition) and above
- Windows 2008 R2 Server SE recommended

For Gateway and Client computers:

- Windows XP SP3 and above
- Windows 8 Enterprise recommended

Recommended Network Connectivity:

- 100 Mbps connectivity typically required between local clients and gateway computers.
- 10 Mbps connectivity typically required between clients and servers/gateway computers that are remote to each other.

Required Pre-Installed Software:

For Server Computer:

- Microsoft .NET Framework 2.0 and 4.0
- Microsoft SQL Server 2008 R2 Express with Management Studio
- Microsoft IIS
- Visual C++ Runtime

For Gateway and Client computers:

- Microsoft .NET Framework 2.0 and 4.0
- Visual C++ Runtime
- IMAPI service for Windows XP computers
- RS3 codecs for Windows XP computers

Hardware Requirement

- Intel/AMD CPU 2Ghz,
- 4 GB of Memory
- DVD±RW (for DVD burning)
- Hard drive (Size dependent on usage, RAID 5 array highly recommended)
- 4 x USB2 ports (for uploading up to 18 cameras using docking stations)
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Cloud

In terms of overall architecture, The Cloud DEMS deployment model is very similar to the Centralized DEMS model. The key difference is that the central content database and content repository are deployed on cloud-based infrastructure. This straightforward approach provides the optimal solution in terms cost, security and scalability. Benefits of this approach include:

- **Choice:** Reveal customer are free to select the cloud infrastructure vendors that meet their security requirements and provide the best value for money. Many public sector and government clients have already established preferred vendors for cloud infrastructure - and Reveal does not impose any change.
- **Transparency and Control:** unlike vertically-integrated SAAS solutions - which can have high recurring fees - our open approach provides customers will full visibility into their infrastructure costs. Reveal customers can also take advantage of the downward trends in the cost of cloud storage and server capacities.
- **Flexibility:** Reveal customers have the flexibility to migrate to different cloud service providers of their choice - maintaining maximum flexibility.

