

Digital Archiving on Removable Media

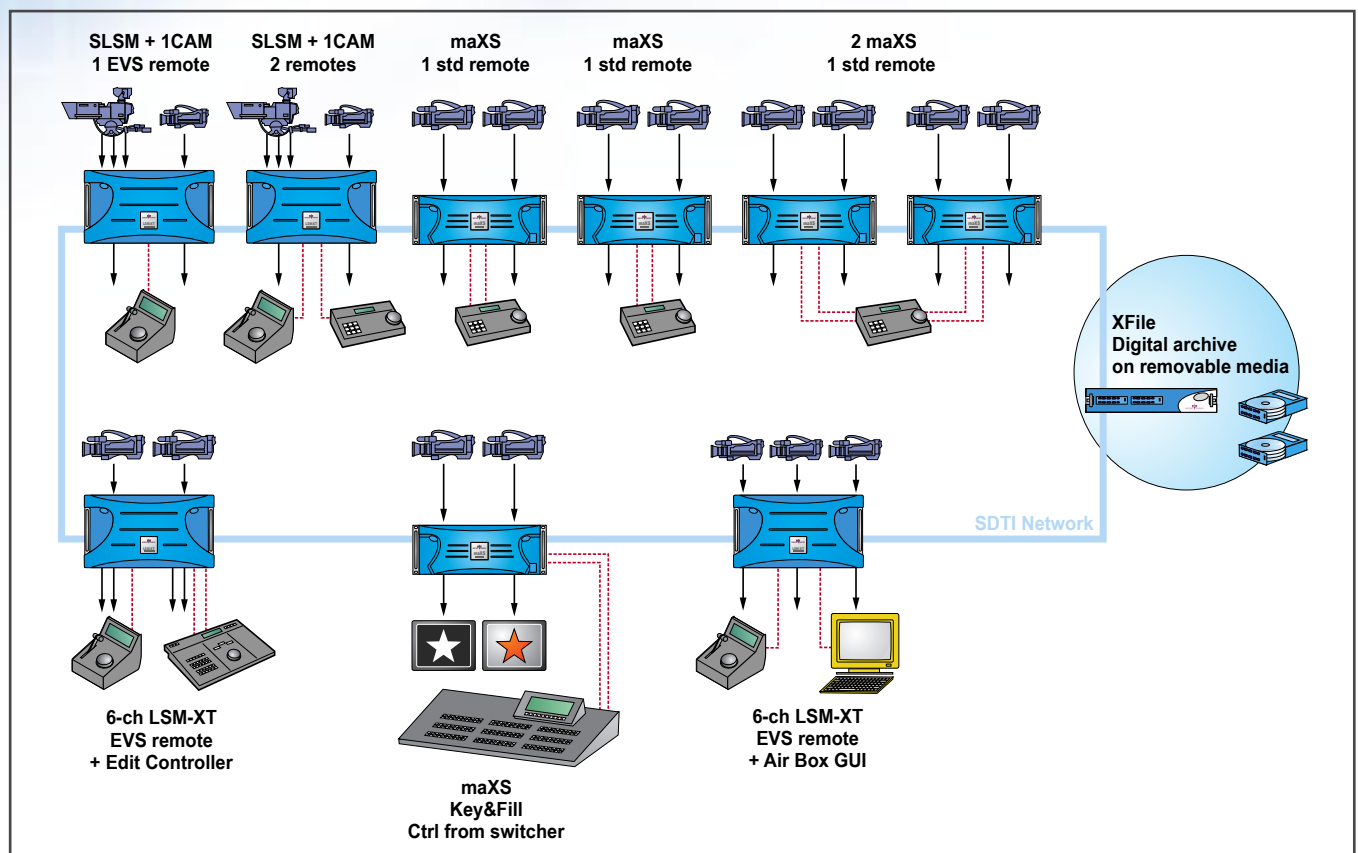
This robust 2RU frame contains 2 "off-the-shelf" IDE drives and accesses the media and playlists on **XT-servers** via the **SportNet** SDTI network. A copy is made automatically onto the removable hard disks inside the XFile whenever a clip is being created on any of the servers. The process is pure data copying; no recoding takes place at any point, preserving the original quality of all footage. Also the particular nature of Super-motion footage is maintained. XFile features on VGA preview of archived content and also enables pre-loading of a server with pre-produced material just minutes before the beginning of a show.

Automatic Background Archiving

The copy process occurs in the background, and has a lower priority on the network than any exchanges related to remote playback, in order to avoid any disturbance of the ongoing production. The transfers to the removable media will occur much faster than real-time whenever the network is not very busy. But the backup process is slowed down as soon as broadcast related transfers are requested on the network, in order to free enough bandwidth to guarantee priority traffic to pass uninterrupted.

Metadata Management

Each clip is saved as a separate file on the removable media, including video, audio and time code information as well as all metadata associated with that clip: name, descriptors, creation date, original location (server s/n, register), etc.



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Removable Media – The speed of disks, the mobility of tape.

The XFile is equipped with 2 removable hard drives, working in mirrored mode. This provides security against a drive failure, and also offers the possibility to carry content to 2 different locations after the event. Each removable disk offers a capacity of 250GB meaning 18 hours of footage at standard bit rate or 6 hours of **High Definition** content.

SportNet Content Backup and pre-load

The XFile also adds redundancy to the production network: in case of accidental deletion of sequences, or if a server needs to be removed from the system before the end of the production, then clips can be restored swiftly onto any other server within the **SportNet**. Similarly is it now real quick and easy to pre-load any **XT-server** with pre-produced material before the beginning of a televised event.

Super-Motion content restored to native format

XFile also stores all Super-motion clips created on any networked LSM-XT, amongst the normal files. The special 75 or 90 fps nature of such material is maintained and these shots are restored in a single pass without alteration. Restored Super-motion footage can be re-used as such (playback at 33%) or as standard material (variable speed) just as if it was captured straight of the Super-motion camera.

The combination of **XT-severs** and XFile, interconnected by means of **SportNet**, forms the basic architecture enabling the migration from a predominantly tape-dependent production to a totally disk-based environment. The type of removable drives used is widely available and inexpensive enough so that the cost per stored hour of content can be compared reasonably with digital videotape.



XFile - Key Features

- XT clips transfer (archive & restore) via SportNet SDTI network
- 2 Removable drives in 2RU chassis - Full mirror redundancy
- Off-the-shelf 250 GB IDE drives - 18 hours @ 30 Mbps or 6 hours in HD
- VGA preview, Metadata management
- Automatic background archiving - Variable Bit-rate transfer
- Quality integrity; process is free from re-coding
- Super-motion clips restored to Native format