DATASAT COMMUNICATIONS

Fast and secure Managed File Transfer

The File Transfer System from Datasat Communications is designed to facilitate the fast and secure distribution of large files from a central source to multiple sites throughout the world. Transmission protocol and data format independent, it transfers all data, audio and video files as well as broadcasting live streams.

Unlike many managed file transfer solutions that have been developed to overcome the shortcomings of FTP, this File Transfer System is engineered to successfully distribute large amounts of multimedia information. Developed to address the evolving needs of 3D digital cinema distribution, the system combines almost limitless capacity, multi-tier error handling and an advanced scheduling engine that allows for large files – and large file variants – to be requested and distributed.

The scheduling engine is the heart of the system. Large files are stored within the engine and either transmitted automatically or scheduled for specified release. Driven by a web-based administration or customer log-in, distribution can be controlled centrally or 'as-required' by satellite offices and remote users.

Users can be grouped as the business need requires and multiple versions of a file can be stored and made available on demand. A remote office or user can 'order' the file they need and have it delivered to their schedule. Extensive management reporting and auditing facilities ensure that every party is aware of the current status of files and where they are in the distribution process.

› Key Features

- 1:1 & 1:many distribution capabilities
- Supports data, voice, video and live streams
- No file size limit
- Transmission Protocol independent
- Advanced scheduling engine
- Bespoke File Delivery Mechanism
- Multi-tiered error detection and correction
- Centralised file ordering process
- Advanced reporting and auditing facilities
- Satellite, internet & broadband channels supported

A bespoke File Delivery Mechanism (FDM) allows almost limitless amounts of data to be transferred and re-assembled using extremely small packet-sizes.
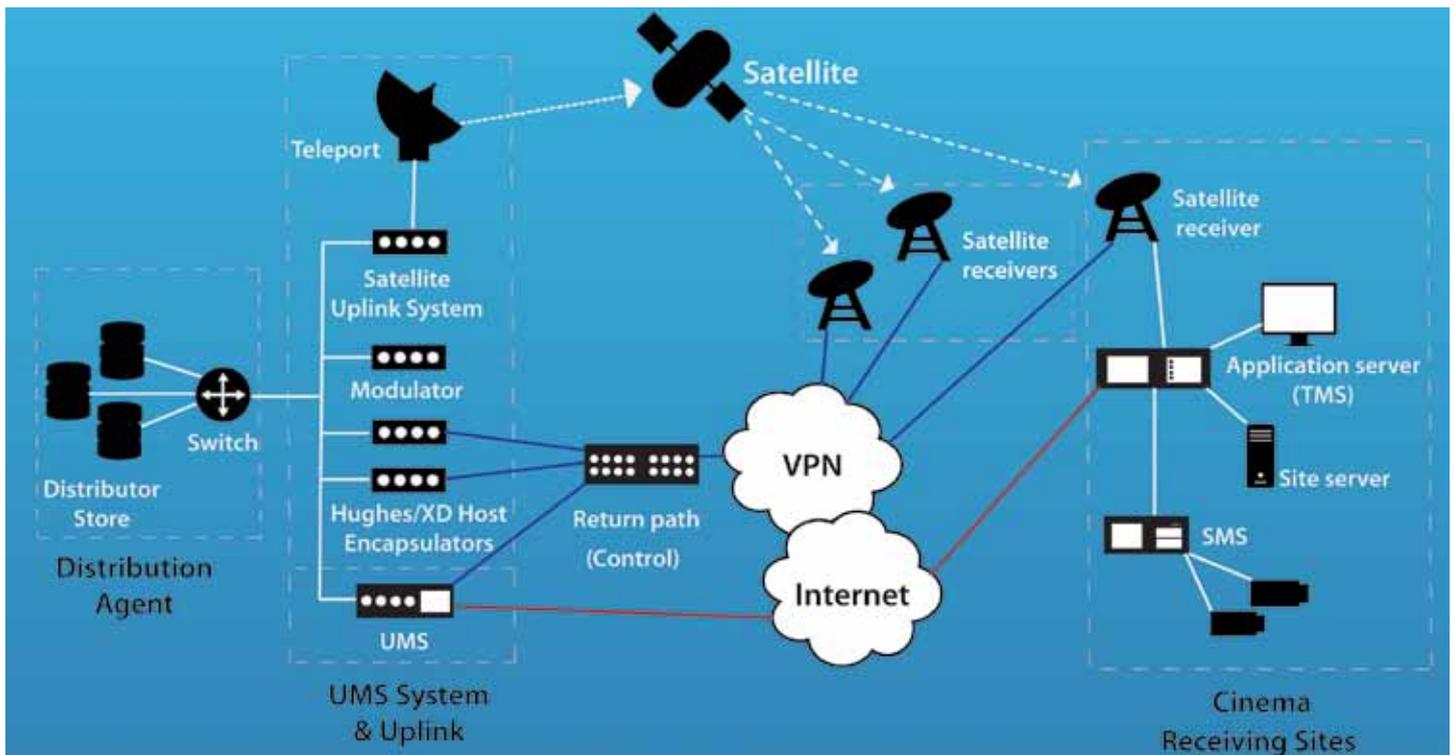
Figure 1: Schematic of MFT system for Digital Cinema

Designed initially for distribution via a satellite channel, the File Transfer System combines the Quasi Error Free (QEF) capabilities of DVB-S with three further layers of error detection and prevention.

In addition to extensive Forward Error Correction (FEC), the system has a bespoke File Delivery Mechanism (FDM) that allows large amounts of data to be transferred and re-assembled using extremely small packet-sizes. Finally, the receiving end interrogates the file to ensure that it has been successfully transferred and automatically sends an acknowledgment to the central distribution hub. Any file errors or data corruption are notified via a secure 'site to sender' back channel. This approach ensures very low error rates and that, under the worst circumstances, only small data frames will need to be re-transmitted.

The File Transfer System from Datasat Communications supports not only satellite but Internet and broadband channels allowing organisations to select the optimum distribution approach for their files. Unlike many similar solutions, it's construction enables the streaming of live information - as well as static data and video files – to almost anywhere on the globe.

Contact us today with your communications requirements on +44 (0)1707 667 320 or email us at sales@datasat.com

> **Case study**

The Managed File Transfer system from Datasat Communications was the solution selected for secure distribution by the European Union's 2020 3D Media project. It allowed 3D audio and visual digital content to be ordered, scheduled and delivered to cinemas, public spaces and home users worldwide, from a single central source. Initially implemented over a satellite channel, it demonstrated how standard Digital Cinema Initiative (DCI) content could also be quickly and securely transmitted via internet or broadband transfers.

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