



FileCatalyst[®]
reinventing file transfer

FileCatalyst

Direct

FileCatalyst
Direct



FileCatalyst®

reinventing file transfer

Secure Accelerated File Movement over
Including the Internet

THEN THERE WERE TWO

TECHNOLOGY AND ENGINEERING EMMY® AWARD

Presented to Unlimi-Tech Software
Secure Accelerated File Movement over IP
Including the Internet

2014 SPORTS EMMY® AWARD

The George Wensel Technical Achievement Award
The XXII Olympic Winter Games
"Maximum Access" - NBC
Christopher Bailey, Innovator
Elton Carneiro, Innovator



- Send files at speeds of up to 10Gbps
- Reliable delivery with checkpoint restart and integrity check
 - Industry standard 256-bit AES encryption
- Watch folders / automation and web browser integration
- Integrated with leading broadcast workflow and MAM solutions
 - Tightly integrated with leading cloud storage providers

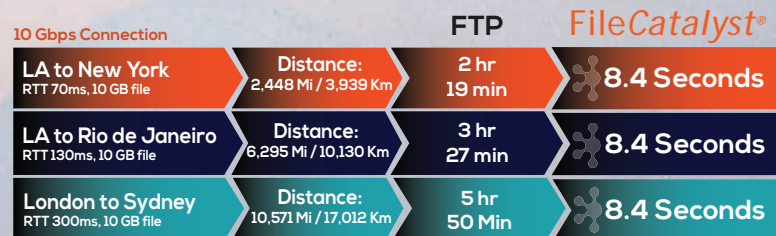
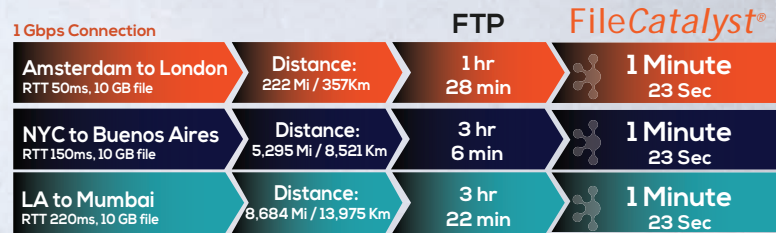
THE FILECATALYST PLATFORM

Moving files is a critical process for your organization. FTP can be slow and unreliable, a combination that causes lost productivity and frustration. International file transfers are especially problematic, frequently disconnecting and almost never reaching full line speed. Predictability and “guaranteed file delivery” are virtually impossible with FTP.

Eliminate slow file transfers and send big data fast with the FileCatalyst accelerated and managed file transfer platform. FileCatalyst provides FTP alternatives that enable you to send files of any size or format at full line speed, that are hundreds of times faster than FTP, while ensuring the secure and reliable delivery of files with sizes into the terabytes. All products in the FileCatalyst suite also integrate seamlessly with each other for perfect interoperability.

Each FileCatalyst product serves a unique set of organizational file transfer needs and works across a variety of industries. On its own, FileCatalyst Direct uses the FileCatalyst Server and the full suite of client options for point-to-point transfers. Combining FileCatalyst Direct with FileCatalyst Workflow provides a complete accelerated web-based solution. Finally, using FileCatalyst Central will allow you to monitor your organization's entire FileCatalyst deployment by offering a consolidated web based view of file transfers on your network.

FILECATALYST WORLD SPEED CHART



“Our file transfers are now much faster and more secure than with our previous server. We also needed a new, simpler approach to file transfer that users of any level could understand and FileCatalyst was able to deliver that.”

- Bell Media -



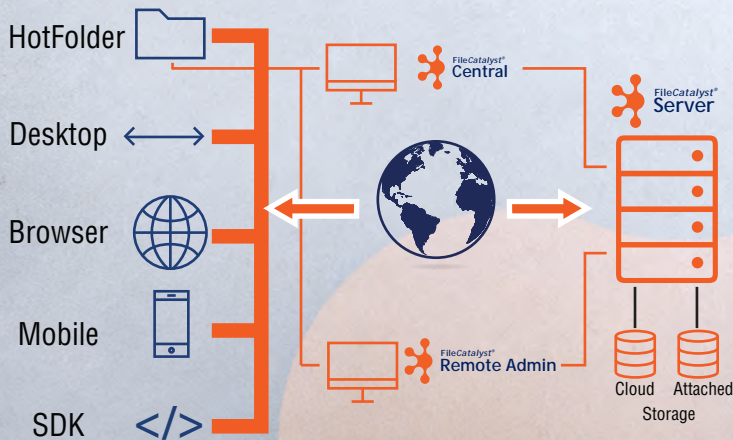
- Transfer files hundreds of times faster than FTP
 - 10 Gbps transfer speeds and beyond
 - Industry standard 256-bit AES encryption
 - Guaranteed delivery with checkpoint restart

POINT-TO-POINT TRANSFERS

FileCatalyst Direct is a suite of server and client applications that enable point-to-point accelerated file transfers at speeds of up to 10Gbps. Utilizing a patented UDP-based file transfer technology, FileCatalyst overcomes the issue of slow file transfers caused by network impairments such as latency and packet loss.

FLEXIBLE DEPLOYMENT OPTIONS

The FileCatalyst suite of applications has a wide array of options for deployment. Pick and choose the options that fit your file transfer needs.



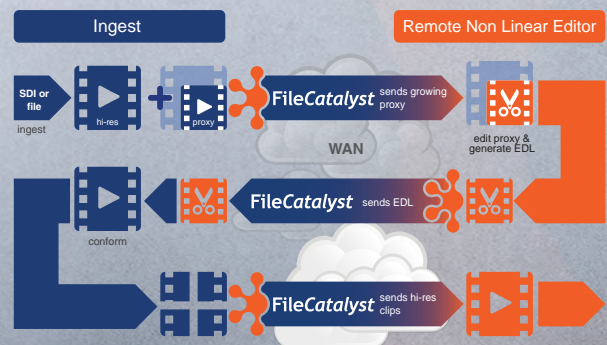
ONE-TO-MANY DISTRIBUTION

Deploy FileCatalyst Direct to distribute content from a central site to locations around the globe.



LIVE EVENT PRODUCTION WORKFLOW

FileCatalyst Direct has been used to enable remote editing for some of the world's largest sporting events. Its unique ability to transfer files that are growing, combined with the ability to transfer hundreds of concurrent files, makes it the ideal choice for live event production.



SECURE AND RELIABLE

FileCatalyst employs military grade encryption, and advanced reliability features like automatic retry, checkpoint restart, and file integrity checks. With perfect rate control and advanced congestion control capabilities, FileCatalyst will not interfere with your other crucial business applications.

“The issues we were experiencing using FTP to transfer our files including lengthy and incomplete transfers and poor asset management were immediately solved with FileCatalyst. FileCatalyst sinks its teeth into the line to ensure the file gets to where it needs to go on time.”

- Matthew Westrup, Travel Channel -



- Choice of file transfer client tools & applications
- Transfer directly to private and public clouds
- Web-based transfer and administration tools
- SDK/API capabilities to integrate into your application



FILECATALYST LINK

FileCatalyst Link is an easy to use feature that allows users to send files of any size to any email address, using only a web browser, at the maximum possible speed. The recipient simply clicks the link and downloads the files.



SIMPLE USER INTERFACE

For scenarios requiring nothing but simple file transfer, the FileCatalyst suite includes a no-frills 2-panel application. As a standalone application, we call the product FileCatalyst Express. The same functionality is available from within the FileCatalyst HotFolder automation tool as an on-demand “connect” function.



HOTFOLDER / AUTOMATION

By far, our most commonly used tool for scheduling and automation is FileCatalyst HotFolder. HotFolder is a desktop application that is installed on the end user’s machine and allows you to schedule automated tasks.



IN-BROWSER FILE TRANSFER

FileCatalyst TransferAgent enables any web application to add accelerated file transfer capabilities without the use of plugins. It provides a pure HTML5 web interface for both uploads and downloads, and has a feature rich REST API that can be leveraged by 3rd party developers.



MOBILE

FileCatalyst Upload, our mobile client, is a streamlined upload application developed for iOS and Android devices. Now any user “in the field” can easily send media files to FileCatalyst servers. iOS and Android APIs are also available for 3rd party integration.



COMMAND LINE INTERFACE

The CLI client exposes all of the functionality of the FileCatalyst Client API via a command prompt. This opens up some impressive and important functionality such as command line ad hoc transfers, initiate transfers from a script and initiate transfers from an application.



FILECATALYST SDK

FileCatalyst provides many options for integration into third party applications and workflows. Our SDK boasts a full range of components for a variety of development languages and environments, including Java, C++, .NET, and a full compliment of REST APIs.

“The biggest benefit of FileCatalyst has been the ability to send large file sizes quickly and allowing outside parties to send files to us, without the hassle of being limited to file size. The BFI is now able to transfer files securely, without risking compromised or leaked files during transit and it’s easy to add and manage multiple users.”

- British Film Institute -

CASE STUDY: AFRAME

INDUSTRY

- Media & Broadcast

PRODUCTS

- FileCatalyst Direct
- FileCatalyst API

CHALLENGES

- Slow Transfers using FTP

RESULTS

- Faster file transfers noticed immediately
 - Preserved data structures
 - Increased transfer security
-

PROFILE

Aframe is a powerful video collaboration platform in which team members can manage and store their high-resolution, multi-format professional video and broadcast masters. Aframe's cloud infrastructure allows globally dispersed teams to collaborate cross platform to leverage their video content and maximize its value and potential reach. By creating a central point in the workflow, Aframe streamlines acquisition, media asset management, content creation, and delivery into one phase. Aframe provides a real-time central hub into which video can be tagged, shared, reviewed, and approved, which allows global teams to focus on the highest quality content, and complete productions in record time.

CHALLENGES

Whether for television, film, news, sports, commercials, or corporate, global collaborators have, in the past, shared their production video files one by one over HTTP, or sent files through FTP using a third party client (Cyberduck, Filezilla, etc.). Transferring large video files (80GB+ single files) over these outdated methods caused latency and bloated transfer times, as well as lengthy dropouts in the client connection, which triggers a premature ingest of assets. Aframe's users also wanted increased transfer security using AES or a similar standard.

SOLUTIONS

The FileCatalyst API was embedded into the Aframe desktop app, which talks to the FileCatalyst server instances housed in Aframe's private data centres. Users can set up watch folder workflows to both upload and download to and from their Aframe projects, using accelerated UDP file transfer technology. All data structures are now preserved, and data is encrypted in transit using the AES 128-bit standard, and this transfer is completed in excellent time.

RESULTS

FileCatalyst removes many of the challenges Aframe's clients experienced, which are inherent in creating modern video content. By providing instant online access to footage at every stage in video content creation Aframe's clients can remove the traditional silos, complexity, and cost of managing high-resolution video, thus enabling faster and more fluid collaboration. Depending on network conditions (firewalls, ISP network shaping, etc.), Aframe's clients have seen increased speed in transfer, due to the integration of FileCatalyst. The controlled connection FileCatalyst provides also allows Aframe's servers to be certain of when to trigger the ingest process, ensuring total data integrity from the source, all the way to completion. Users of Aframe are conscious that it is a professional tool for secure rapid global transfer of large video files.

It was quite a simple decision in the end. Out of all the providers we approached, FileCatalyst were very responsive from the first point of contact, and got what we were trying to achieve
- David Peto, CEO Aframe -

CASE STUDY: NBC OLYMPICS

INDUSTRY

- Media & Broadcast

PRODUCTS

- FileCatalyst Direct
- FileCatalyst Central

CHALLENGES

- Optimize global 5Gbps link
- Handle very high concurrency
- Handle dynamic MXF files
- Monitor global deployment

RESULTS

- Full line speed optimization
 - Scaled to 100 concurrent transfers
 - Seamlessly handled dynamic MXF files
 - Integrated with other production technology
-

PROFILE

Since 2002, NBC has owned the American rights to broadcast the Olympics and deliver coverage from each event and medal ceremony across the United States via cable television and online. From February 9 to 25, 2018, NBC Sports Group, renowned for its unsurpassed award-winning production, presented the 2018 Winter Games from PyeongChang, South Korea. The PyeongChang Winter Games featured live coverage of 102 events across 15 sports.

CHALLENGES

While covering events in multiple venues, NBC Sports Group needed to deliver video files over a global 5 Gbps link to their headquarters in Stamford, Connecticut, where the footage was edited. Archived footage also had to move from Stamford to PyeongChang, and across the various event locations for editorial purposes.

Sharing files effectively during the games was imperative, and this required a solution that could accelerate and facilitate concurrent transfers. During peak hours, NBC Sports Group sent up to 100 large video files concurrently, amounting to 10 TB of transferred data daily. NBC Sports Group also needed a solution that could concurrently transfer MXF files while they were being encoded or growing.

Additionally, NBC Sports Group administrators needed to monitor their deployment and administer transfer nodes remotely and in real-time.

SOLUTIONS

To accelerate their global delivery process, and meet the other specified objectives, NBC Sports Group used FileCatalyst's accelerated and managed file transfer platform. From the opening to closing ceremonies, FileCatalyst's technology ensured that every transfer was fast, reliable, and secure.

The platform's ability to accelerate transfer speeds, deal with concurrent transfers, and seamlessly transfer dynamic video files made for a streamlined workflow that saved significant time. New features were developed for their unique challenges, such as the ability to handle files that were growing and changing while being encoded. The solution handled and transferred up to 80 growing MXF proxy videos and 20 hi-res MXF video files currently - and delivered them in real-time.

FileCatalyst's central management solution, FileCatalyst Central, provided NBC Sports Group with near real-time reporting, as well the ability to remotely administer transfer nodes from a browser.

RESULTS

FileCatalyst successfully and seamlessly accelerated the transfer of digital content (*Over 90TB of data moved, and over 35000 files over the course of the games*) for the 2018 Winter Games. Additionally, FileCatalyst enabled NBC Sports Group to break new ground in live sports production by handling very high concurrency, overcome the problem of transferring dynamically changing MXF files, as well as administer and monitor the deployment in real time remotely.

"Year after year, FileCatalyst rises to the challenge of transferring our media assets, enabling our many workflows. They continue to deliver new features that provide real value and maximize our efficiency."

- Jim Miles, NBC Sports Group -

CORPORATE OVERVIEW

ABOUT UNLIMI-TECH SOFTWARE INC.

FileCatalyst is an Emmy® Award winning world leader in file transfer acceleration technology. Founded in 2000, the company has over one thousand clients in media & entertainment, energy & mining, gaming, and printing as well as many Fortune 500 companies and Government/Military organizations. In addition, FileCatalyst has over one million users of its software-based file transfer solutions which are designed to accelerate and optimize file transfers across global networks. Being immune to packet loss and latency, FileCatalyst can send files hundreds of times faster than traditional methods such as FTP, HTTP or CIFS, while adding security and reliability.

Our core values outline our most important goals and provide guidance for daily activities and corporate initiatives.

CONTINUAL, FOCUSED INNOVATION

We commit ourselves to evolving our core transport technology to continuously enhance how we serve our customers. By incorporating customer feature requests into our product roadmaps and conducting thorough market research, we constantly improve the results achieved with the FileCatalyst platform.

CUSTOMER SUCCESS

We are dedicated to ensuring customers exceed goals related to moving their data efficiently and securely. We pride ourselves on delivering responsive and thorough customer support from initial evaluation through to production deployment by providing clients with full access to developers and high-level support engineers.

STRATEGIC PARTNERSHIPS

We form strategic partnerships to extend the reach of FileCatalyst. By partnering with worldwide resellers and software vendors, our goal is to make accelerated file transfer omnipresent and simple.

GLOBAL RESPONSIVENESS

We operate on a global scale and have transferred files of all types and sizes across every continent. We are agile and able to respond quickly to customer demands and adapt to new circumstances.

FileCatalyst is a privately owned company located in Ottawa, Canada.

To learn more please visit www.filecatalyst.com.

SOME OF OUR CUSTOMERS

Aberdeen Broadcast Services
Asia TV USA
ATP Media
Bell Media
British Film Institute
CBS Newspath
Charter communications
CNBC
Czech Television
Danish Broadcasting
Distribuidora Digital de Futbol
Dorna
Eastern TV
Ericsson Media Solutions
Express Media Group
Fotokem
Fujifilm Recording Media
Golf Channel
Grey Juice Labs
Leading the Way
NBC News
NBC Sports
Nintendo
PGS
PPL
Radiotelevisione italiana
Royal Media
Scripps Media
Sky Sports
Sony Pictures
Tata Communications
Televisa News
Travel Channel
TV 2 Denmark
TV 2 Norway
TV Valencia
Viacom 18
Vice Media
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[@filecatalyst](https://twitter.com/filecatalyst)

www.FileCatalyst.com

info@filecatalyst.com

+1.613.667.2439