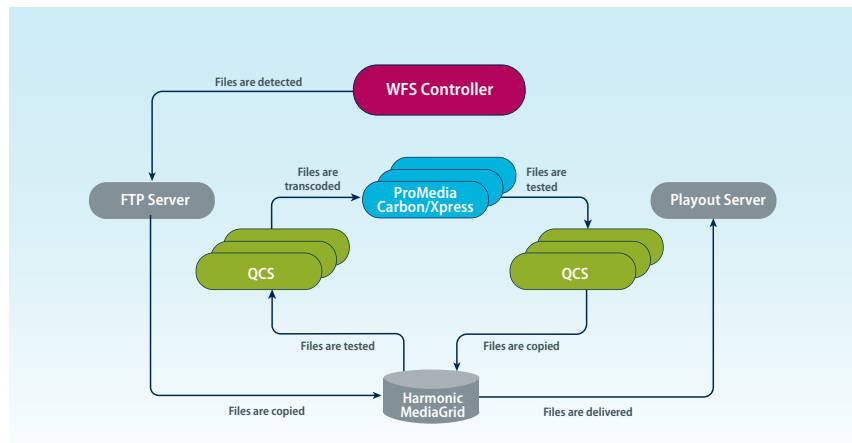


### HIGHLIGHTS

- Enterprise-class workflow engine with full visibility into the entire transcoding process
- Built from the ground up as a file-based workflow engine
- Supports failover to a backup system in case of a system outage or physical server failure
- Can transfer files over FTP, HTTP, and CIFS
- Monitors FTP and CIFS storage locations to trigger new workflow event
- Can send e-mail, invoke web scripts, or command line calls at any step of the way through the workflow process
- .NET based API for easy integration with existing systems
- Integration with Microsoft SQL Enterprise Database for reporting and statistic gathering beyond the interface and API
- Controls ProMedia Carbon and ProMedia Xpress transcoding farms

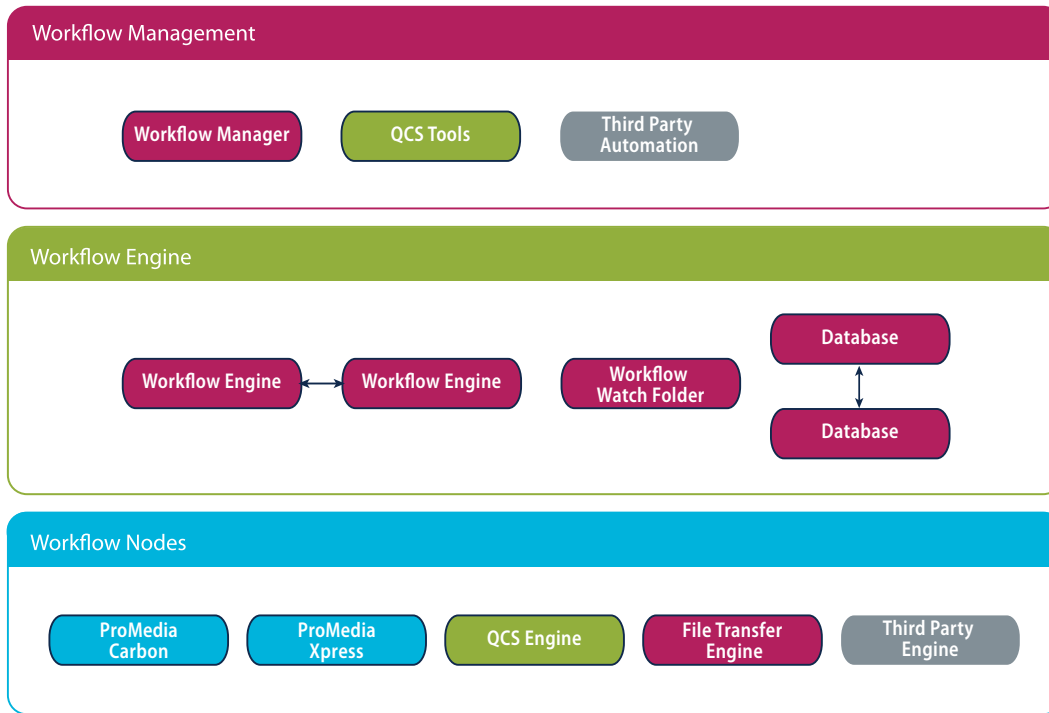
Harmonic's WFS™ is an open and extensible task-based engine ideal for managing video-centric workflows. WFS enables control of multiple ProMedia™ Carbon or Xpress nodes as a transcoding farm. With the addition of the Quality Control System (QCS) automated quality control engine, customers can add an automated and scalable video verification process to their transcoding farm. The distributed nature of WFS grants reliability and scalability while allowing the automated processing of transcoding tasks, failover support, job distribution management, job prioritization, load balancing, file transfer, status monitoring, and job notification.



### FEATURES

- **New Architecture** – WFS separates the workflow and automation processes from the transcoder, allowing a much more robust and scalable architecture than previously available. An open API allows traditional outside integration, as well as the ability for third-party applications to integrate into WFS.
- **Integration & Management** – WFS is a true enterprise-class workflow engine. It allows a set of tasks to be executed in any order with full visibility into the entire process. WFS can be used for the simplest tasks, such as retrieving files from varied locations, to very complicated workflows, including multiple transcodes, multiple quality checks, file transfers, triggering external scripts and notifications.
- **File-Based Workflow** – WFS is a file-based workflow engine centered on the acquisition, transformation and delivery of files. It can move files over FTP, HTTP and CIFS.
- **Included Capabilities** – WFS includes a broad range of built-in functionality, including the ability to monitor FTP and CFS storage locations to trigger new workflow events, notification at any step in the workflow process via email, web scripts or command line calls, and a .NET-based API for easy integration with existing systems.





**WORKFLOW MANAGER**

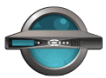
The Workflow Manager (WFM) is built on the Workflow System API which provides complete control over creation, manipulation, and execution of workflows. WFM allows for remote management and monitoring of rendering farms controlled by WFS. The WFM also provides a common interface for third party applications and is backward compatible with the Carbon 3.0 API.

**WORKFLOW ENGINE**

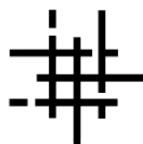
The Workflow Engine manages the workflow and database communication in a task-based format through our enterprise class database. The Engine also provides failover support to a backup system in case of a system outage or physical server failure. Additionally, the Workflow Engine uses Microsoft Enterprise SQL Server for task management and leveraging best-in-breed database reliability, scalability and open interfaces for third party reporting and statistic gathering.

**WORKFLOW NODE**

The Workflow nodes control the other services in the WFS software suite, including ProMedia Carbon, ProMedia Xpress and QCS. Workflow nodes utilize an open API to programmatically control workflow and connect to third party systems. Workflow nodes take work from the Workflow Engine for load balancing and scale.



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