
# WHAT'S NEW IN FAZZT® 8

With **Fazzt 8**, KenCast has expanded its line of **EdgeSpan®** appliances, introduced the new Fazzt Contribution Server, and incorporated many new features and performance enhancements into its suite of content delivery products. Further extensions to support mobile offerings have been added in support of video applications.

- **New Contribution Server**. A new server product has been added to the Fazzt lineup. The Fazzt Contribution Server allows content providers to contribute content to the Fazzt Enterprise Server while taking advantage of all of Fazzt's innovative network technologies.
- **Blazeband™**. For accelerated file delivery on two-way networks, Fazzt 8 introduces Blazeband. KenCast's Blazeband technology (patent pending) provides a new mechanism for accelerating content delivery over IP networks. Blazeband works on point-to-point links to maximize the bandwidth utilization while maintaining the reliability that is the cornerstone of KenCast's solutions. Blazeband allows file transfers to be performed several times faster than traditional methods such as FTP or HTTP. Blazeband can accelerate content delivery on the Internet, wireless networks, and corporate WANs.
- **Major Extensions to Fazzt FEC**. Fazzt Forward Error Correction (Fazzt FEC®) has been extended to provide additional options for optimizing system performance with improved reliability.
    - For file transmissions, Fazzt FECv2 provides improved reliability and efficiency.
    - Two new FEC algorithms for file transmissions, Compound FEC and Braided FEC, allow reliable transmission of large files across networks with high levels of random packet loss. Encoding and decoding are performed on-the-fly in memory for a simple workflow with minimal latency.
    - For streams, enhancements allow reduced latency and the option to change the amount of protection overhead on-the-fly. A new Version 3 algorithm provides improved reliability without increasing overhead.
    - In a major breakthrough, FEC can now be applied at the channel level, allowing protection to extend across multiple transmissions. This is particularly advantageous for applications transmitting large numbers of small files.
- **Performance Improvements in Missed Packet Collection**. The new version provides major improvements in efficiency and scaling. Compression of acknowledgment reports results in big

savings in bandwidth on the back-channel. Delivery of reports over HTTP extensions allows for simplified firewall management. In-memory processing of reports provides large performance improvements in systems with many receive sites. Advanced options for filtering "bad" sites provide the administrator more control over the bandwidth used for retransmissions.

- **Distribution Center Enhancements**. New features have been added to the Fazzt Distribution Center, giving it a new look and feel, along with added functionality in support of content management and retrieval, particularly for signage applications.
- **Additional EdgeSpan Appliances**. The EdgeSpan product line has been extended to include custom-tailored appliances for digital signage networks and for digital cinema systems, with corresponding additions to the Fazzt server software.
- **Professional Client**. The Professional Client, KenCast's solution for standalone user receive sites, has remote management capability, a convenient Web interface and easy-to-use configuration tools.
- **New Unicast Delivery Options**. New transport protocols, advanced filtering options, and better integration with streaming and high-level applications are among the new features and enhancements introduced with Fazzt 8.
- **Enhancements to Existing IP Multicast Channels**. Fazzt 8 provides performance improvements and new features for IP Multicast channels through improved bandwidth computation and other enhancements.
- **Enhanced Receive Site Management**. Improvements have been incorporated in management tools for remote sites, including alarms, receive site issue tracking, publisher access, license management, etc.
- **Support for Windows Server 2008 and Red Hat Enterprise Linux 5**. Fazzt 8 supports the latest platforms and includes enhancements for 64-bit versions of Windows and Linux. On Windows, Fazzt 8 defaults to SQL Server 2005 Express, and includes better support for named instances. Fazzt 8 runs under Windows 2000, XP, 2003, Vista and 2008, as well as Red Hat Enterprise Linux 3, 4 and 5.
- **Improvements for Developers and Advanced Users**. Detailed status and diagnostic information has been added to many modules to aid in troubleshooting network issues. The Web-based Development Tools Add-On includes additional tools for profiling performance and querying the internal Fazzt database. Web services have been enhanced to improve interoperability and include additional functionality.
- **Other Performance Improvements**. Fazzt 8 also provides performance improvements in the Web Server and Scripting Engine, among others.
- **Updated Online Documentation**. All components of the online documentation provided with Fazzt have been updated: Online **Help**, online **Scripting Guide** and **Scripts Library**, online **Administrator's Guide**, online version of **Frequently Asked Questions about Fazzt**, and the set of online **Tutorials**. Full PDF versions of the Administrator's Guide and the Scripting Guide are now included on the software media.


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