

Aspera *fasp* file transfer software can be used in desktop, network-based, and web applications in place of FTP, HTTP, or custom TCP-based copy protocols. The SDK includes several interface options for initiating and managing Aspera *fasp* transfers.

INTERFACE OPTIONS	
Aspera Web Services (SOAP API)	Aspera Web Services allow a local or remote application to initiate and monitor transfers using its SOAP API.
	<b>Target Application</b> — Local applications or network applications on remote hosts.
	<b>GUI</b> — 3rd Party Own. Transfer jobs are submitted in silent mode, allowing the application to provide its own user interface or to run in the background. An observer API allows applications to monitor transfer status and progress from initiator or server using polling or asynchronous notification.
	<b>API</b> — XML SOAP interface. WSDL definitions and example code for several major languages are provided.
Aspera Web Services (Javascript API)	Aspera Web provides a browser-based platform for integrating <i>fasp</i> transfers into web applications. JavaScript methods are used to initiate multi-item (file and directory) downloads and uploads from within web browsers such as Internet Explorer, Safari, and Firefox.
	<b>Target Application</b> — Web-based. Uses the browser plug-in component to translate JavaScript calls to transfer job requests submitted to Aspera Connect.
	<b>GUI</b> — Aspera Provided. Has a built-in user interface for transfer management and monitoring, including progress reporting, on-the-fly rate control, automatic retry, etc.
<i>fasp</i> Manager	<b>API</b> — Javascript API for single file or directory and multiple item uploads and downloads is provided. Includes applet API for automatic download and installation within a running browser.
	Provides a programming language specific library that exposes an API to initiate, control and monitor transfers. Libraries are provided for C++, Java and .NET. Fully embeddable and redistributable client and server (native, all OS's).
	<b>Target Application</b> — Local desktop, embedded server or embedded client.
	<b>GUI</b> — 3rd Party Own. The application can query transfer statistics either by subscribing to asynchronous notifications or by by polling for the statistics. The application can also provide its own user input controls to set transfer speeds, bandwidth sharing policies, etc.
<i>fasp</i> -AIR™ (Beta)	<b>API</b> — Language specific API exposed by the provided libraries. Example code is provided with all language libraries (C++, Java and .NET).
	Provides a programming language specific library that exposes an API to initiate, control and monitor transfers for mobile applications. Libraries are provided for C and Objective-C.
	<b>Target Application</b> — Embedded clients on mobile devices.
<i>fasp</i> -Automation	<b>GUI</b> — 3rd Party Own. The application can get transfer statistics either by subscribing to notifications or by by polling for the statistics. The application can also provide its own user input controls to set transfer speeds, bandwidth sharing policies, etc.
	<b>API</b> — Language specific API exposed by the provided libraries, both for uploader and downloader applications. Example code is provided with all libraries.
<i>faspex</i> ™ Automation	REST API for automating <i>faspex</i> usage, including sending packages, downloading from inbox and interacting with address book.
Aspera URL protocol handler API (Upcoming)	Provides a programming language specific library that exposes an API to register a URL protocol handler plugin to URL handling systems, as part of both <i>fasp</i> SDK and <i>fasp</i> -AIR SDK.
<i>fasp</i> command-client API	<b>API</b> — Provides a language specific API (C++, Java, .NET) for secure execution of remote file system operations (over a secure SSH connection), such as listing files and directories, move, copy, and rename, query disk usage, etc. Can be used to integrate remote file browsing and management operations.

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FEATURES	
Portable embedded <i>fasp</i> -based client with numerous deployment options	Native implementation on all operating systems, and portable to embedded OSs such as MIPS-Linux, mobile/handheld. For integration in support of many transfer paradigms: desktop GUI, command line (can write scripts using <i>ascp</i> ), mobile platforms (e.g. iPhone), automation and synchronization, consumer download (e.g. set top box).
Multiple third-party integration examples	Web 2.0, workflow engines, embedded system (both server and client), DAM systems, playout servers, pitcher/catcher, near-line and archive, SAN/NAS storage and data management systems, cloud services.
Complete web services API	Remote, services transfer control, monitoring, reporting and authorization.
Browser-based integration	Javascript API for flexible integration in web applications.
Security	All <i>fasp</i> security features, including FIPS 140-2 compliance.
Persistent sessions	Allow on-the-fly addition of new files and sectional sources to an active transfer.
<i>fasp</i> core portability	Portable to virtually any modern operating system and many embedded systems.
Automation toolset	Synchronization for uni, bi, and N-directional with upcoming Aspera Sync.
	Workflow Automation Composition System (upcoming), integrated with Aspera Console.
	Automatic forwarding of files on arrival ("aspera-forward").
	Automatic transfers based on a manifest ("aspera-manifest").
	Automatic transfer via watch folders ("simplesync").
Custom post-processing actions.	
mySQL database for long-term history reporting	Aspera Enterprise Server and Aspera Point-to-Point software can optionally log all transfer transactions, file attributes, user, and performance details, to an SQL database. The database is integrated with the Aspera management Console and can be queried directly to build any type of transfer history or billing report, or as an alternative to the Java <i>fasp</i> manager and web-services API to query for real-time progress.
Comprehensive multi-platform support	Windows, Mac, Linux, Solaris, One FS, AIX, HP-UX, Embedded OS's (iPhone, MIPS-Linux). Native IPv6 support.
LICENSING OPTIONS	
SDK Basic	<ul style="list-style-type: none"> <li>• 1 developer; 2 licenses</li> <li>• APIs for servers and clients</li> <li>• 1 introductory web meeting to review the ADN (Aspera Developer Network online resources)</li> <li>• Aspera SDK developer support by phone and email</li> <li>• Covers basic server and/or client integration, limited to ES, CS, CL, P2P, Connect Client or embedded and mobile client</li> </ul>
SDK Advanced	<ul style="list-style-type: none"> <li>• 5 developers; 8 licenses</li> <li>• APIs for servers and clients, plus Console</li> <li>• 1 introductory web meeting to review the ADN (Aspera Developer Network online resources)</li> <li>• Priority Aspera SDK developer support by phone and email</li> <li>• Covers basic server and/or client integration, limited to ES, CS, CL, P2P, Connect, embedded, Mobile, Cargo clients and Console</li> </ul>
SDK Enterprise	<ul style="list-style-type: none"> <li>• 10 developers; 20 licenses</li> <li>• APIs for servers and clients, plus Console</li> <li>• 2 introductory web meetings to review the ADN (Aspera Developer Network online resources)</li> <li>• Supports multiple locations and development teams</li> <li>• Priority Aspera SDK developer support by phone and email</li> <li>• Advanced server and/or client integration, limited to ES, CS, CL, P2P, Connect, embedded, Mobile, Cargo clients, Aspera Console, and Console-workflow API when available</li> </ul>
ASPERA DEVELOPER NETWORK	
ADN online resources	Aspera Developer Network (ADN) is a valuable on-line tool repository for developers using the Aspera <i>fasp</i> SDK. The resources include guides, reference information and sample code, and are available to assist developers with the process of integrating Aspera technology into their own applications. ( <a href="http://developer.asperasoft.com/overview.html">http://developer.asperasoft.com/overview.html</a> )