aspera
an IBM® company

Aspera Software Development Kit

Integrate high-speed file transfer in your own systems and applications

AT A GLANCE

Key Features

- Easily integrate Aspera FASP™ transfer technology into your applications.
- Leverage the Aspera FASPManager API for Java, .NET, and C++ to embed Aspera transfer technology into your client, server, and embedded applications.
- Transfer byte-stream data using Aspera FASPStream to enable in-memory access.
- Incorporate Aspera high-speed transfers into your cloud applications with the Aspera Platform on Demand
- Develop mobile applications using the Aspera iOS and Android SDKs.
- View best practices and code examples on the Aspera Developer Network, including fully functional online web application examples.

Key Benefits

- Enable high-speed transfers with Aspera FASP technology.
- Support the business needs of any environment including web, desktop, or mobile applications using Aspera's comprehensive set of APIs.
- Develop new and differentiating business models using secure, high-speed transfer of large files and data sets to geographies or on devices that were previously inaccessible.
- Enable developers to quickly integrate Aspera technology by taking advantage of existing skills in popular languages to quickly develop custom applications using the rich set of Aspera APIs.

Aspera helps organizations move big data around the world at high-speed, regardless of file size, transfer distance and network conditions. To support customers who want to integrate Aspera into custom applications and services, Aspera has created a comprehensive Software Development Kit (SDK).

The Aspera SDK offers a complete set of Application Program Interfaces (APIs) with supporting documentation and sample code to help developers integrate Aspera technology into applications as a replacement for traditional TCP-based protocols such as FTP or HTTP. The Aspera SDK includes web service APIs (REST and SOAP) as well as native libraries for Java, .NET, and C++.

As part of the SDK, developers have access to Aspera's developer portal, the Aspera Developer Network (ADN). The ADN is filled with documentation, guides, tips, tricks, and sample code to help developers identify the right APIs for their implementation needs.

ASPERA SDK INTERFACE OPTIONS

Aspera offers a variety of SDKs to enable the integration of Aspera technology into custom applications. The Aspera SDK is organized around Web APIs, Transfer SDK, Mobile SDK, and Application SDKs. Aspera continues to develop new APIs and tools to support emerging technologies.

WEB APIS

Node API: The Node API consists of a set of RESTful interfaces to provide control of the Aspera transfer server environment including the ability to ping and query information about an Aspera Node; create, delete and rename files on an Aspera Node; perform searches within the node file system; and prepare for transferring files utilizing Aspera technology.

***faspex*™ Web API**: The Aspera *faspex* Web API provides a set of RESTful web services to enable browsing, publishing, sending, and receiving *faspex* packages while leveraging Aspera FASP high-speed transfer technology.

Console: The Aspera Console API provides full control over Aspera transfer sessions including initiation, queuing, management and control through a set of RESTful interfaces.

SOAP Web Services: Aspera offers SOAP web services to allow local or remote applications to initiate, monitor, and control FASP-based transfers. The SOAP API is useful for server-to-server job submissions and retrieving transfer information.

TRANSFER SDK

FASPManager: The Aspera FASPManager SDK is used to develop custom applications that embed Aspera transfer technology. The Aspera FASPManager SDK includes native bindings for Java, C++, and .NET.

Aspera Software Development Kit

LICENSING OPTIONS

SDK Basic

- 1 developer; 2 licenses
- APIs for servers and clients
- 1 introductory web meeting to review the Aspera Developer Network (ADN) online resources
- Aspera SDK developer support by phone and email
- Covers basic server and/or client integration, limited to Enterprise Server, Connect Server, Point-to-Point Client, Connect Client, Mobile, or embedded client

SDK Advanced

- 5 developers; 8 licenses
- APIs for servers and clients, plus Console
- 1 introductory web meeting to review the ADN online resources
- Priority Aspera SDK developer support by phone and email
- Covers advanced server and/or client integration, limited to Enterprise Server, Connect Server, Point-to-Point Client, Connect Client, Connect, Mobile, Cargo, embedded client options, Console, and all multi-node transfer management and reporting APIs

SDK Enterprise

- 10 developers; 20 licenses
- APIs for servers and clients, plus Console
- 2 introductory web meetings to review the ADN online resources
- Supports multiple locations and development teams
- Priority Aspera SDK developer support by phone and email
- Covers advanced server and/or client integration, limited to Enterprise Server, Connect Server, Point-to-Point Client, Connect Client, Connect, Mobile, Cargo, embedded client options, Console, and all multi-node transfer management and reporting APIs

FASPStream: The Aspera FASPStream API enables developers to bypass the file system and directly access the Aspera high-speed FASP "pipe" from within their applications. By utilizing the FASPStream interface, data being generated or captured can be transferred before written to disk and/or incoming data can be processed as soon as bytes are received. The FASPStream API supports .NET, Java, and C++.

Connect Client: The Connect JavaScript API allows for the integration of FASP-based file transfer technology directly into web application for a completely in-browser user experience. Developers can define how users initiate and control transfers (with an optional drag-and-drop interface between desktop and the browser), how transfer progress is presented to the users within their web application, and how various user actions and error conditions are handled by the application.

Multicast: The Multicast API is a Java class library that allows initiation and management of IP multicast-based data transmissions using Aspera FASP-MC.

MOBILE SDK

Developers who wish to embed high-speed file transfer into mobile applications can leverage the Aspera Mobile SDKs for iOS and Android. The Aspera Mobile SDK offers a queue-based API for initiating, managing and monitoring high-speed FASP transfers between mobile devices and Aspera transfer servers.

Android SDK: The Aspera Android SDK provides a Java API to transfer files using FASP on Google Android-powered mobile devices.

iOS SDK: The Aspera iOS SDK provides an Objective C API to transfer files using FASP on iPhone and iPad devices.

APPLICATION APIS

Java *faspex* Client: The Aspera Java *faspex* Client SDK provides a comprehensive, easy-to-use API to access Aspera *faspex* services. This SDK brings together the *faspex* REST API and the actual transfer of files using FASP. It allows developers to build a functional *faspex* client with only a few lines of code.

ASPERA DEVELOPER NETWORK

The Aspera Developer Network is a valuable online resource for developers using the Aspera SDK. Guides, reference information, and sample code are available on the ADN to assist developers in the process of integrating Aspera technology into their own applications.

http://developer.asperasoft.com

About Aspera

The creator of next-generation transport technologies that move the world's data at maximum speed regardless of file size, transfer distance and network conditions. Based on its patented FASP™ protocol, Aspera software fully utilizes existing infrastructures to deliver the fastest, most predictable file-transfer experience. Aspera's core technology delivers unprecedented control over bandwidth, complete security and uncompromising reliability. Organizations across a variety of industries on six continents rely on Aspera software for the business-critical transport of their digital assets.

Learn more at www.asperasoft.com