

WHITE PAPER

Adobe Acrobat Services APIs Security Overview

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Adobe

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About Adobe Acrobat Services APIs

Adobe Acrobat Services APIs help developers automate the generation, manipulation, and transformation of document content via a set of modern cloud-based web services. There are four (4) main Acrobat Services APIs:

1. Adobe PDF Services API

The Adobe PDF Services API is a cloud-based service that allows developers to manipulate PDFs in document workflows. Using the PDF Services API, you can:

- Convert files from other formats to PDF files (e.g., HTML to PDF) and PDF files to other formats (e.g., PDF to Microsoft Word)
- Compress PDF files
- Combine multiple PDFs into a single PDF file or split a single PDF file into multiple PDFs
- Perform OCR to create searchable and editable PDF files
- Rotate or delete pages in a PDF file
- Add encryption to, restrict permissions, or remove password protection on a PDF file

2. Adobe PDF Extract API

Bundled with the Adobe PDF Services API, the PDF Extract API leverages the Adobe Sensei AI and machine learning platform to automatically extract text, tables, images, and document structure from PDF documents — native or scanned — and output the content in a structured JSON format.

3. Adobe Document Generation API

Also bundled with the Adobe PDF Services API, the Document Generation API is a cloud-based web service that enables you to produce high-fidelity PDF and Word documents from Word templates and JSON data, or even merge JSON data with Word templates to create dynamic documents.

Developers can embed the PDF Services API in any application via the PDF Services SDKs for Java, .NET, Node.js, and Python.

4. Adobe PDF Embed API

The Adobe PDF Embed API allows developers to embed a PDF viewer into any web application and natively display their PDF in a controlled environment, enabling users to interact with and collaborate on PDFs within the application.

With the PDF Embed API, you can:

- Embed PDFs without forcing users to download additional plug-ins

- Provide a rich PDF viewing experience within web applications
- Enable digital collaboration and document analytics

Developers embed PDFs into applications using web-based JavaScript code and in-page JS options, with support for React and Angular frameworks.

For a complete list of functionality and other details for these APIs, please refer to the [product documentation](#).

Adobe Acrobat Services APIs Hosting and Security

All server-side components of PDF Services API and PDF Embed API are hosted in the data centers of leading cloud hosting providers in US-East (Virginia) and EMEA (Ireland). Customers can choose the region where their documents will be processed. PDF Services APIs may be used worldwide except from embargoed or otherwise restricted geographies, per Adobe's licensing terms.

Publicly accessible and downloadable components, such as the PDF Services SDKs and the PDF Embed API JavaScript library are hosted on providers relevant to the component, such as library repositories and CDNs.

Data Encryption

All content in transit is encrypted using TLS 1.2 or greater.

PDF Services API Security

Authentication

The PDF Services API supports Service Account authentication. For more information on this authentication type, please refer to the [Adobe I/O Authentication Overview](#).

User-Generated Content Storage

PDF Services API accepts and returns user-generated content (UGC). This content is uploaded to Adobe Document Cloud and temporarily cached as part of normal service operations.

PDF Embed API Security

Authentication

PDF Embed API is a client-side JavaScript- and WASM-based library and does not make any calls to cloud-based services. There are only three purposes for which the API makes network calls:

Validating the client ID specified in JavaScript code upon loading;

- Logging event data for out-of-the-box analytics and a pre-configured analytics dashboard, if given an Adobe Analytics report suite ID by the PDF Embed API integrator; and
- Logging anonymous usage data in Adobe Analytics for internal use by Adobe for product improvement and feedback.

Iframe Security

The core functionality of PDF Embed API is contained within a sandboxed HTML iframe, which helps prevent any vulnerabilities in the library from affecting the host website and vice versa. It also prevents unintended document object model (DOM) access and manipulation across the iframe boundary.

Content Security Policy (CSP)

Content loaded in the iframe is governed by CSP directives that help protect against certain kinds of attacks, including cross-site scripting (XSS).

Content Storage

The PDF Embed API does not manage content in cloud storage. Its primary functionality is restricted to loading and rendering PDF files supplied by the customer and, when asked to, saving a copy of the loaded file to local drives or external storage. Any controls or storage of the documents are dependent on either the website or the access controls of the browser to the PDF file.

Questions?

For more information about Adobe's operational, application, and enterprise security processes, compliance certifications, incident response program, security training and awareness program, and business continuity and disaster recovery program, please see the [Adobe Trust Center](#).