

Adobe document integration solutions for PLM

Adobe® LiveCycle® ES (Enterprise Suite) software can be integrated with product lifecycle management (PLM) systems and a wide range of enterprise applications



Adobe partners

While the benefits of PDF and LiveCycle ES solutions to a manufacturing company are universal, the PLM and enterprise application architectures of manufacturing companies can vary widely. To help organizations take better advantage of the benefits of LiveCycle ES solutions and PDF, integration and development expertise is available through the Adobe enterprise partner community. Adobe enterprise partners can assist manufacturing companies in assessing and delivering an optimal solution with LiveCycle PDF Generator 3D.

For more information, contact your Adobe representative or visit www.adobe.com/enterprise/partners.

To design and develop products efficiently, manufacturers need to improve access to product information. The challenge is to enable the flow of detailed and accurate product data across PLM and other enterprise systems, including diverse files types such as CAD designs, drawings, engineering change orders, and part lists. The ability to share product information across extended teams, which can include design, engineering, purchasing, and marketing, can result in shorter development times and higher product quality.

LiveCycle ES for manufacturers

With LiveCycle ES, manufacturing companies can now improve how they share product information. LiveCycle ES is an integrated J2EE server solution that blends document generation, electronic forms, document process management, and digital rights management. LiveCycle ES components and solutions can help manufacturing companies improve processes such as design collaboration, RFQ/RFP management, work instructions, supply chain management, and field service.

Integrating LiveCycle ES

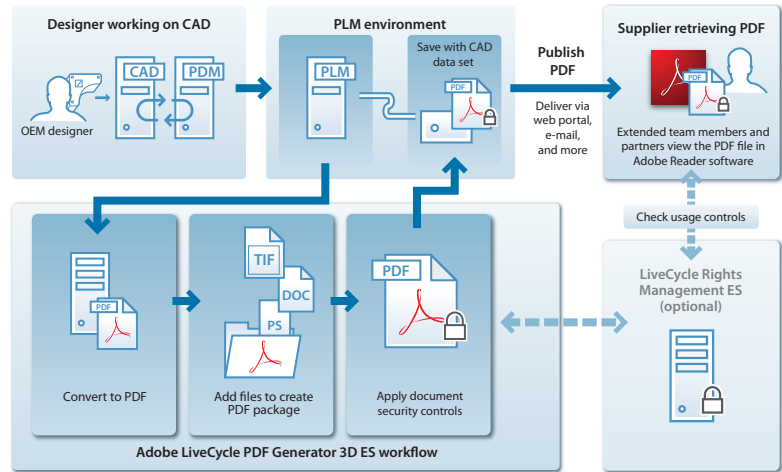
Adobe LiveCycle ES components can be used to develop enterprise applications, or they can be integrated as services with other enterprise applications. When integrated as services, LiveCycle ES components may be invoked through simple interfaces such as e-mail or Watched Folders; or through direct, on-demand API calls using Java™ or web services. For example, Adobe LiveCycle PDF Generator 3D ES may be invoked through the Watched Folder interface to automate the conversion of 3D formats to PDF. More advanced interactivity may also build upon other LiveCycle APIs to provide additional services, including the generation or verification of digital signatures, compound document assembly, or application of security and rights management. Exactly how an organization chooses to deploy LiveCycle depends on the nature of the organization's current systems, processes, and requirements. The Adobe enterprise partner community includes numerous member companies who's experience with LiveCycle and manufacturing processes can help organizations determine and deliver the best solution for their environment.

2D & 3D content in PDF

Adobe introduced 3D PDF with Adobe Acrobat® 3D software (now Acrobat 9 Pro Extended), an extended version of Acrobat that allows users to create 3D PDF files from common CAD applications on the desktop. Now, LiveCycle PDF Generator 3D ES further extends 3D PDF generation to enterprise applications.

LiveCycle PDF Generator 3D ES is a new member of LiveCycle ES that enables server-based automation of PDF creation from 3D designs. LiveCycle PDF Generator 3D ES provides centrally managed PDF generation, facilitating the sharing of product data across an organization.

For more advanced compound documents, LiveCycle PDF Generator 3D ES supports document templates to enable the creation of standard format PDF datasheets that can include 3D models, Product Manufacturing Information (PMI) data, and interactive interface elements.



Adobe LiveCycle ES solution components:

LiveCycle PDF Generator 3D ES

Convert virtually any CAD file to a highly compressed 3D PDF file.

LiveCycle Rights Management ES

Manage usage rights to protect sensitive documents.

LiveCycle Forms ES

Create and deploy interactive XML-based forms as HTML, PDF, or SWF.

LiveCycle Digital Signatures ES

Automate the creation and verification of digital signatures in PDF documents.

LiveCycle Process Management ES

Streamline human-centric business processes across your firewall.

LiveCycle Reader Extensions ES

Fill in, sign, comment on, or save Adobe PDF files using only Adobe Reader software.

Simple application integration options

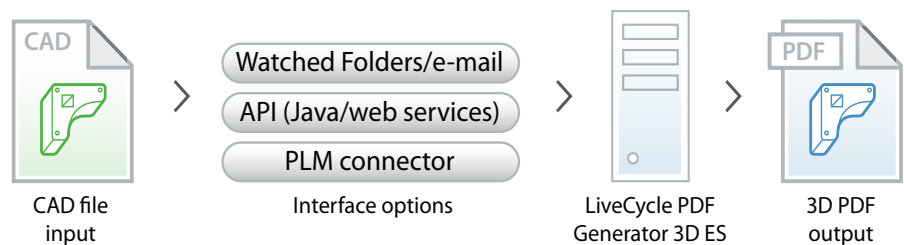
The most basic methods of integrating LiveCycle ES components such as PDF Generator 3D ES into existing enterprise systems are through a web portal, e-mail-based initiation, or Watched Folders. For Watched Folder integration, LiveCycle ES can be configured to launch a process when it detects the presence of a file in a specified folder. For example, you can configure LiveCycle PDF Generator 3D ES to automatically convert a CAD part or assembly to PDF and place the result in a specified output location when the CAD file is placed in the specified folder. CAD conversion settings can be customized so that individual folders can use different settings to perform conversions. Watched Folder-based integrations can be ideal for loosely coupled system architectures or for batch-type PDF conversion operations. Similar to Watched Folders, e-mail invocation converts CAD e-mail attachments received at a specified e-mail address, and then returns the result via e-mail or places it in a specified output location.

Application integration with APIs

Organizations wishing to more closely integrate LiveCycle ES components and services with other applications (such as PLM systems) may opt to use the LiveCycle APIs for Java, J2EE, or SOAP/HTTP. These interfaces allow developers to link LiveCycle processes and services to events (such as check-in or status change) in PLM or other enterprise systems. LiveCycle ES components can then be used to perform on-demand services such as conversion and assembly of CAD and other formats to PDF with LiveCycle PDF Generator 3D ES; application of document access and permissions control with LiveCycle Rights Management ES; enabling commenting and collaboration in PDF with LiveCycle Reader® Extensions ES; or applying digital signatures for document integrity with LiveCycle Digital Signatures ES.

For more information

For more details about Adobe LiveCycle ES., visit www.adobe.com/products/livecycle.



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For more information on building applications with LiveCycle ES and LiveCycle APIs, visit www.adobe.com/devnet/livecycle.

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