Adobe® LiveCycle® Rights Management ES for CATIA for multiformat design collaboration

Rights-manage sensitive design information and enforce version control across the supply chain and throughout the design cycle

Use Adobe LiveCycle Rights Management ES for CATIA to:

- Reduce the risk of theft and misuse of intellectual property and increase supply chain agility, while exchanging sensitive engineering information with partners and suppliers globally

- Enhance the security of existing information systems by maintaining the capability to protect, manage, and monitor the use of sensitive documents outside the system

- Eliminate costly design errors by extending version control beyond the enterprise and throughout the supply chain

To stay competitive in today's global economy, manufacturers and design-focused organizations face intense pressure to produce and deliver better products faster and more cost-efficiently than the competition. To achieve this imperative, manufacturers and designers are forced to take greater risks: They have to share sensitive information electronically, and they have to expand their supply chains to include partners and suppliers in emerging economies who can deliver quality products at a lower cost, but who may not share their intellectual property laws and culture. Collaborating electronically in an age of outsourcing, as manufacturers can attest, reduces development costs and accelerates time to market, but it also carries the risk of theft or misuse of proprietary information with costly consequences for the manufacturer and its ability to compete and be profitable.

Rights-protect sensitive design information beyond the enterprise

With the Adobe LiveCycle Rights Management ES for CATIA solution, you can maintain control over your sensitive engineering and design information and help safeguard your intellectual property against theft and misuse as you build an ecosystem of suppliers and partners with whom you can exchange information in an extended managed environment. With this solution, you can encrypt all your sensitive CATIA V5 and Adobe PDF files and apply tailored policies that are designed to enable you to persistently protect and dynamically control access to and use of your engineering data and information— anytime and anywhere, regardless of where the information is stored or how it has been distributed. Built on industry-standard technologies, the Adobe LiveCycle Rights Management ES for CATIA solution also integrates easily with your existing information systems as well as your engineering business processes and workflows—to help ensure cost-effective, centralized, and effective document security and administration.

Maximize supply chain competitiveness

Organizations involved in the design of complex products are hesitant to exchange information early in the design cycle because of the risks involved. Yet information sharing is essential to be able to move quickly from concept to design to finished product and distribution—the earlier you can involve partners and suppliers in your design cycle the shorter the time to market for your product. With Adobe LiveCycle Rights Management ES for CATIA, you can accelerate development cycles and time to market by collaborating with suppliers and partners early in the design process. You can engage with confidence in electronic document-based processes, because you can apply persistent rights management policies that enable you to maintain greater control over your sensitive design and engineering documents. You can use these policies to specify who

has access to a document, when the access rights will expire, and how the protected document can be used, including whether the recipient is allowed to print, extract, or copy and paste its contents. You can even disable the functionality of certain CATIA features (including Instantiate from Selection, Duplicate Geometrical Set, and Create Part from Product) to help prevent the misuse of shared content. These access and usage rights can be revised or revoked at any time, even if the document has been distributed outside the organization, providing you with greater assurance that only current authorized individuals can access and use your information, providing your organization with the required agility to compete.

Ensure the proper use of sensitive information

Adobe LiveCycle Rights Management ES for CATIA complements and leverages your existing document management and security infrastructure by extending your ability to control and monitor the use of documents at all times outside your company's firewall. You can monitor who is using your files and capture all document activity (including when documents are opened, printed, and saved) in detailed audit logs—so you can generate reports on how your sensitive information and intellectual property is used. If you suspect that someone in your supply chain is using the files or your information inappropriately, you can revoke that supplier's access to the files at any time.

Eliminate costly design errors

Complex designs require the collaboration of thousands of engineers and designers who make constant changes. Ensuring that collaborators obtain and work with the most current versions can make the difference between a profitable product or costly redesigns. Adobe LiveCycle Rights Management ES for CATIA enables you to extend document version control beyond your managed environment. It enables you to track and manage versions throughout the design process and across the entire supply chain, no matter where the documents reside. When an engineering file is revised, access to the outdated file can be revoked and a link to the updated version seamlessly provided. When collaborators request access to the outdated file, they are redirected to the current version of the document. This helps avoid potential costly design errors and changes that result from designing or manufacturing to old specifications.

Collaborate with confidence

Collaborating with partners electronically is risky—it requires maintaining the confidentiality of and control over sensitive information beyond the enterprise and being able to revoke all design documents after the product launch is complete. The Adobe LiveCycle Rights Management ES for CATIA solution, in conjunction with partner solutions, enables you to extend your business processes more securely outside your corporate network. It is designed to protect your sensitive information against theft and misuse and gives you greater assurance that only authorized individuals can access the information and use it only as prescribed by preset usage rights. It also enables you to manage the availability of documents, including the ability to provide always up-to-date information. This protection allows you to engage with confidence in complex, sensitive document-based processes and collaborate more securely and efficiently with suppliers and partners around the world.

Integrating the Adobe rights-management solution in your workflow

The Adobe LiveCycle Rights Management ES for CATIA solution enhances the value of existing information systems by extending your ability to protect, control, and monitor the use of documents through persistent rights management policies. These policies can be applied manually by IP owners through a drop-down menu from within the authoring environment, or through an automated back-end process when pulling files from a content management or product management system in response to a system-generated event (for example, an RFQ). The figure outlines the steps involved in rights-managing engineering information while exchanging CATIA and design-related Adobe PDF files—from content creation through consumption.
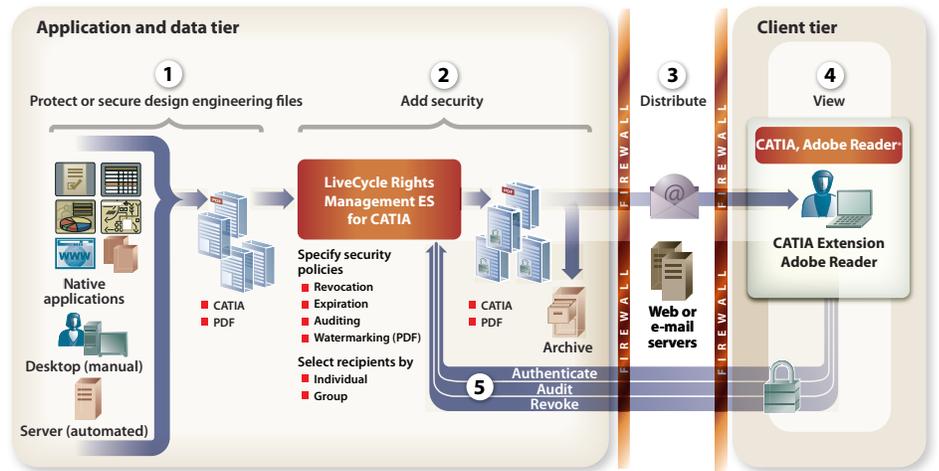
LiveCycle Rights Management ES for CATIA helps mitigate the risk of exchanging proprietary engineering information electronically.

Protecting proprietary documents manually

The following steps detail how the Adobe LiveCycle Rights Management ES for CATIA solution can help collaborators and designers rights-protect sensitive documents:

1. An engineer or designer creates or contributes to a design contained in a CATIA file. With Adobe LiveCycle Rights Management ES for CATIA, the individual can rights-protect this CATIA file and any information extracted from this file and stored in Adobe PDF files.

2. From within the native application, the engineer or designer selects a predefined security policy from a drop-down menu, applies it to the CATIA file, and saves the now rights-protected document.

3. The engineer or designer distributes the protected file by e-mail or on a CD-ROM, or posts it to a website with the confidence that only designated collaborators have access to the file. No matter how the document is delivered or where the file is stored, the policy access and usage rights are automatically enforced.

4. When attempting to open a rights-protected file, the client software pings the policy server to check for the current policy usage and access rights. The server authenticates the recipient against credentials stored in the organization's authentication directory. Only after successful authentication can a recipient use the file or document, limited to the usage rights established in the current policy.

5. Adobe LiveCycle Rights Management ES for CATIA captures an audit trail of all document activities, including the printing and opening of the protected document. This enables management to monitor how the information is used and to demonstrate compliance with corporate policies.

Protecting system-generated documents

The following steps detail how the Adobe LiveCycle Rights Management ES for CATIA solution can help you rights-protect documents generated in response to third-party requests. In this case, the LiveCycle Rights Management ES for CATIA solution is integrated with other LiveCycle ES solution components and the organization's PDM system, which can produce PDF files of sensitive engineering information or engineering-related files on the fly and on demand in response to third-party requests through a protected content portal. For example:

1. Using Adobe LiveCycle PDF Generator 3D, a document is created as an Adobe PDF file in response to a systemgenerated event (for example, a remote user with VPN access rights requests an RFQ through an intranet page by clicking a file link on a document list page that triggers the system to generate and prepare for delivery the requested information). The document contains confidential design information, requiring a policy that has been predefined for this use case with specific access and usage rights.

2. Adobe LiveCycle PDF Generator 3D automatically pings Adobe LiveCycle Rights Management ES for CATIA for the appropriate policy, which is automatically applied to the document.

3. After the policy is applied, the user receives the requested information as an attachment by e-mail or, in the case of large files, an e-mail that contains a link to download the file through an FTP server or web page.

4. Prior to opening the rights-protected file, the client pings the server to check for the policy's current access and usage rights based on current authentication status. This helps prevent unauthorized users from accessing confidential information, even if the e-mail is accidentally forwarded or someone gains unauthorized access to the e-mail account. After the server authenticates the recipient, the recipient can use the protected information in accordance with the usage rights established in the current policy.

5. Adobe LiveCycle Rights Management ES for CATIA generates an audit trail of the partner's or collaborator's actions to keep track of how the information is used.

For more information

For more details about how Adobe LiveCycle Rights Management ES for CATIA can help you keep proprietary design information and engineering data confidential and partners accountable, go to *www.adobe.com/go/rm.*

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