Xerox® DocuShare®
Development Network

Advanced development with DocuShare.

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Extend and integrate DocuShare capabilities

Xerox DocuShare is engineered to support the development of customized applications and solutions to meet specific content and process management needs. Built on the highly extensible Java 2EE platform, DocuShare offers open and comprehensive Software Developer Kits (SDKs) that enable developers to extend DocuShare, integrate it with third-party applications, or develop complete systems that leverage DocuShare's document management, Web publishing, collaboration, and workflow capabilities
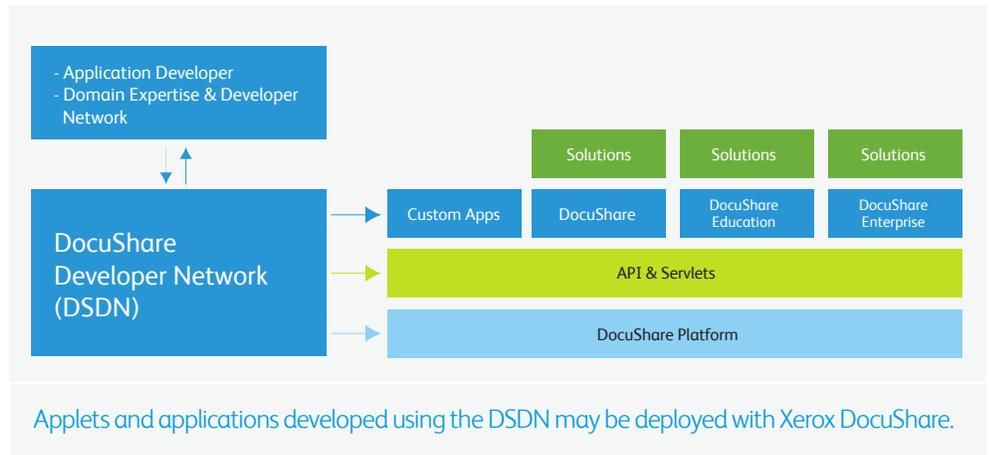
Xerox DocuShare Development Server

The Xerox DocuShare Development Server license enables a single DocuShare Enterprise server for use with the development of custom applications. When combined with the DocuShare Software Development Kit, it delivers a comprehensive environment to extend the DocuShare application, or in which entirely new document-centric business applications may be created.

Xerox DocuShare Software Development Kit (SDK)

The Xerox DocuShare SDK contains numerous APIs, code samples, applications, and the source code for off-the-shelf connectors to third-party applications. All functions of DocuShare are exposed through a full set of APIs.

Documentation on all DocuShare APIs, and customization tools, plus directions on system configuration and optimization are included.

Diagram elements:
- Application Developer
- Domain Expertise & Developer Network

DocuShare Developer Network (DSDN)

Solutions | Solutions | Solutions
Custom Apps | DocuShare | DocuShare Education | DocuShare Enterprise
API & Servlets
DocuShare Platform

Applets and applications developed using the DSDN may be deployed with Xerox DocuShare.

The kit includes:

- DocuShare Java API
- DocuShare HTTP/XML Interface
- DocuShare Enterprise Workflow SDK
- DocuShare Connectors
  - Kofax Export Connector
  - Content Intake Manager Configuration Tool
- DocuShare Web UI Customization
  - JSP/Servlet Customization
  - Wiki/Weblog Customization
  - VDF Customization

It is expected that developers using the SDK have programming experience with Java, JavaScript, Windows COM, CSS, and database development.

DocuShare Developer Network

The DocuShare Developer Network (DSDN) provides access to the DocuShare SDK, development resources, and an active online community of DocuShare developers. The Web site, at docushare.xerox.com/dsdn, is the "one-stop-shop" for developers who are engaged in the creation and delivery of solutions based on DocuShare. The DSDN is a comprehensive, interactive Web site where developers access the latest software components, custom code, FAQs, support documents, and links to many other resources. Many developers read and contribute to the DocuShare blog and wiki to share information, post questions, and interact with other like-minded developers. The DocuShare APIs and programming guides (including SDK documentation) can be accessed by users at no charge once they complete a simple online registration form. However, to participate in the discussion groups, access code samples and tools, and receive developer support, purchase of a DocuShare Development Server or a DocuShare Developer Support package is required. The required annual maintenance agreement for a DocuShare Development Server includes a year of unlimited online access to the DSDN.

DocuShare Developer Support: Email Support

DocuShare Developer Support includes personalized email-based support. Two developer support cases are included with the DocuShare Development Server. Additional support can be purchased in packs of eight cases.

DocuShare Developer Training

The optional, five-day, instructor-led DocuShare Developer Training course provides in-depth information and programming-level instruction about DocuShare. Information presented in this course is intended to aid students in customizing DocuShare, developing applications for use with DocuShare, and integrating third-party applications with DocuShare.

About the Xerox DocuShare SDK

DocuShare Java API

DocuShare offers a complete Java API, which includes a collection of Java libraries and methods that enable external systems to communicate with DocuShare. This API lets developers integrate DocuShare with third-party applications running on the Java platform, and offers the most direct interface to the DocuShare server.

DocuShare HTTP/XML Interface

All DocuShare Clients communicate with the mid-tier server via the HTTP/XML Interface. This includes:
- Windows Client
- Outlook Client
- PaperPort Link

The HTTP/XML interface is used for read/write transactions with the DocuShare server using HTTP/1.1 protocol and XML data format. Any language that has HTTP protocol access, such as Perl, Java, VB, or VC++ can use this interface to communicate with DocuShare. Please refer to the HTTP/XML guide for details on this interface.

The HTTP/XML interface also supports the WebDAV protocol, which allows users to collaboratively edit and manage files on remote Web servers. DocuShare follows these standards, enabling both Mac OS X and Windows applications to map a DocuShare server. Any development language that uses HTTP protocols can communicate with DocuShare using this interface.

Please refer to www.webdav.org for general WebDAV standards and documentation.

DocuShare: Platform for Document Applications

DocuShare is an ideal platform for the development and deployment of your document-centric business applications. Some of the capabilities of DocuShare include:

- Rich set of APIs
- Proven platform in use at thousands of customer installations
- Flexible user levels provide the exact combination of access your customers need
- Direct integration to multiple scan devices
- Cross platform application available for Windows, Linux, or Solaris
- Flexible database integration to Oracle, Microsoft SQL Server, or PostgreSQL
- Support for a wide range of browsers
- Secure system supporting SSL, LDAP, Netegrity, and other enterprise authentication standards

The DocuShare Enterprise Workflow SDK includes the Workflow Design Studio, Workflow Manager (pictured above) for monitoring, administering, and optimizing workflows, and Workflow Resource Manager for integrating enterprise workflow user, group, and role data with DocuShare Access Control Lists (ACLs).

DocuShare Enterprise Workflow SDK

DocuShare Enterprise Workflow is a comprehensive, Java-based business process management (BPM) and workflow application, designed to streamline and accelerate document-centric business processes in the enterprise. DocuShare includes the workflow engine as part of the core application, minimizing the amount of system integration and migration work required to create sophisticated workflows for use by content rules and in enterprise solutions.

DocuShare Enterprise Workflow features:

• Conditional loops, time-based events, dynamic workflow instantiation, workflow sub-routines

• Enablement on deployment servers via license key with no additional software installation required

• Complete toolset for VARs /system integrators to design, run, monitor, and report on vertical or line-of-business workflows

DocuShare Connectors

DocuShare Connectors are working examples of applications implemented using the DocuShare SDK.

Kofax Export Connector

This connector, together with a Content Intake Manager Scanning System socket instance, allows Kofax to release scanned documents or images to DocuShare.

Content Intake Manager Configuration Tool

The DocuShare Content Intake Manager (CIM) enables a high-volume of content to be brought into DocuShare from third-party scanning applications, production scanning systems, electronic forms, and more. Using the CIM Configuration Tool, developers can map scanned document metadata to DocuShare document properties, configure metadata-driven collection hierarchies for document destinations, and assign collection permissions. The CIM Configuration Tool outputs an XML file that is used to set up the Content Intake Manager for a Scanning System.

DocuShare Web UI Customization

JSP/Servlet Customization

DocuShare supports integration with JSP. JSP/Servlet allows customization of the DocuShare Web interface as well as third-party integration. Developers can also deploy the servlet into DocuShare for specific business needs.
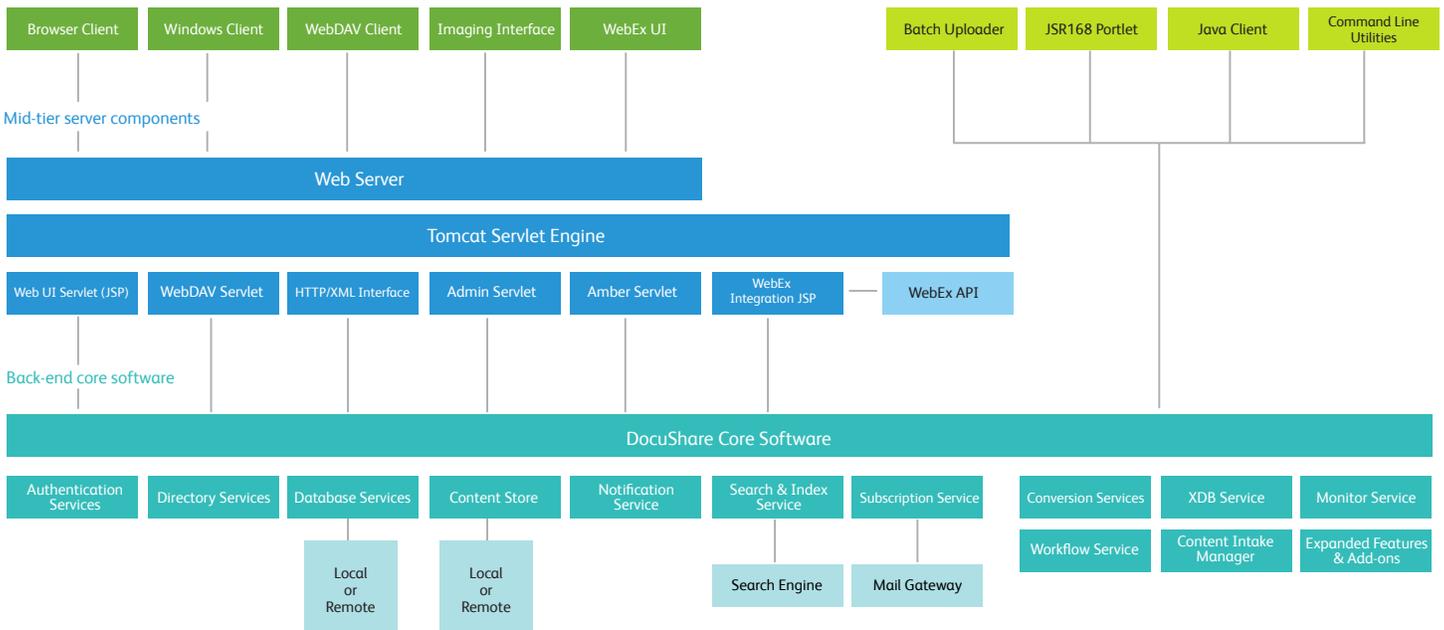
Wiki/Weblog Customization

Wikis and weblogs can be customized easily with Cascading Style Sheets (CSS). Documentation and samples are available on the DSDN Web site to further assist developers with these types of customizations.

View Definition Format Customization

View Definition Format (VDF) is the standard XML-based Web UI templating environment used in DocuShare and provides simple syntax for developers who wish to customize the DocuShare Web Interface. The VDF Reference Guide is included in all copies of DocuShare, as well as in the DSDN. Please refer to this guide for further details and sample code.

DocuShare Enterprise Content Platform

Front-end client components

| Browser Client | Windows Client | WebDAV Client | Imaging Interface | WebEx UI | | Batch Uploader | JSR168 Portlet | Java Client | Command Line Utilities |

Mid-tier server components

Web Server

Tomcat Servlet Engine

| Web UI Servlet (JSP) | WebDAV Servlet | HTTP/XML Interface | Admin Servlet | Amber Servlet | WebEx Integration JSP | WebEx API |

Back-end core software

DocuShare Core Software

| Authentication Services | Directory Services | Database Services | Content Store | Notification Service | Search & Index Service | Subscription Service | Conversion Services | XDB Service | Monitor Service |

Local or Remote | Local or Remote | Search Engine | Mail Gateway | Workflow Service | Content Intake Manager | Expanded Features & Add-ons

The DocuShare architecture diagram provides a simplified overview of the relationships between the major DocuShare components. DocuShare core software is broken into a series of long-running processes that handle main server tasks, with mid-tier server components handling web requests and generating the UI. The front-end client components provide an HTTP/XML interface that allows a wide range of clients to communicate with DocuShare.

For more information, call 1.800.735.7749 or visit docushare.com

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