IBM Content Foundation V5.2.0 delivers full content lifecycle and extensive document management capabilities for digital content

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At a glance

IBM® Content Foundation V5.2.0 provides:

- Tools and APIs supporting custom application development
- Comprehensive, enterprise-class document management
- Components to facilitate platform consolidation
- Social content management capabilities
- Enterprise manageability and improved consumability
- Enhanced value and lower total cost of ownership

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

Overview

IBM Content Foundation is designed for small, medium, and large companies that need rapid deployment to reduce total cost of ownership (TCO) and also need enterprise class capabilities such as scalability, security, and stability to deliver better control of its enterprise content. IBM Content Foundation brings new ease-of-use capabilities that can reduce cost and complexity making Enterprise Content Management (ECM) more accessible than ever before. Based on the world-class, industrial strength, and proven technology of IBM FileNet® P8, but in a more affordable, more accessible, more consumable package, IBM Content Foundation offers the power of FileNet P8 made nimble, affordable, and more consumable.

Features in IBM Content Foundation V5.2.0

Custom application development

- Java™, .Net, and web services APIs
- IBM Content Navigator toolkit
- Content Management Interoperability Services (CMIS) API

Document management

- Extensive object model
- Document versioning
• DITA standards support

Platform consolidation
• IBM FileNet Content Federation Services
• IBM Content Integrator

Social content management
• User comments on managed objects
• Social tagging of managed objects
• Tracking number of downloads for a document
• Ability for users to recommend a managed object

Enterprise manageability
• Support for wide variety of operating systems, databases, web application servers, and directory services solutions
• Enterprise-level systems management
• Content search services
• Support for mobile computing
• Flexible storage options
• Multilanguage support
• Security
• Scalability
• IBM Content Engine Bulk Import Tool for IBM Content Foundation
• Add-on for IBM Content Manager Enterprise Edition

Enhanced value and lower TCO
• With new, aggressive pricing combined with legendary enterprise-class capabilities, IBM Content Foundation is a highly competitive offering that delivers a compelling value proposition that will be appreciated by all companies, regardless of size.

Key prerequisites
For details, refer to the Technical information section.

Planned availability date
June 14, 2013: Electronic availability
July 12, 2013: Media availability

Description
IBM Content Foundation V5.2.0 is a new enterprise content management (ECM) solution designed to promote wider adoption of ECM, with appeal for small, medium, and large companies. IBM Content Foundation provides a cross-industry ECM solution for common document management, custom application development, and ECM consolidation.

IBM Content Foundation provides enterprise-class scalability, performance, security, and stability, and leverages leading edge mobile and social technologies that can
extend access to content anywhere, so you can enhance your ability to gain insights from the content you access.

Based on years of ECM expertise, you get a solution with a smaller footprint that still offers maximum operational flexibility. The new, lighter footprint helps speed and simplify installation and configuration, while world-class enterprise manageability features make it nimble, contributing to a low total cost of ownership (TCO).

With legendary enterprise-class capabilities and cost-effective pricing, IBM Content Foundation is a highly competitive offering that is designed to deliver a compelling value proposition to be appreciated by companies of all sizes.

**Features and benefits**

**Custom application development**

IBM Content Foundation is open and flexible. By using the provided APIs described below, users (including business partners) can create custom applications to deliver a wide range of business benefits.

- Java, .Net, and web services APIs provide complete access to capabilities of the IBM FileNet Content Platform Engine. Users can leverage these APIs to deliver solutions that provide very specific and fine-grained control over content.
- The IBM Content Navigator toolkit aids in the rapid development and deployment of applications by delivering a rich toolkit for building user interfaces and has an extensive palate of dynamic visual ECM components based on the Dojo standard.
- IBM Content Foundation delivers both Content Management Interoperability Services (CMIS) client and server support enabling its users to span multiple vendors' repositories and off-the-shelf third-party applications.

**Document management**

IBM Content Foundation delivers an extensive set of capabilities that support the spectrum of document management and publication requirements, from the most simple to the extremely large and complex. You get the flexibility to drive document publication processes for electronic content authoring. In addition, IBM Content Foundation provides rich versioning and lifecycle capabilities to support control, security, and consistency of documents throughout their publishing processes.

IBM Content Foundation supports an extensive object model to:

- Manage complex taxonomies using extensive metadata, organize content into folders, or use flexible links and relationships between documents while maintaining integrity.
- Support document types including Microsoft Office documents, web pages, photos, voice data, images, process definitions, templates, and others.
- Support advanced document management such as the creation of technical publications. With the DITA standard, hundreds or even thousands of subject matter experts can collaborate in the creation of complex documents intended for subsequent publication.
- Support a framework for time and event-based retention, disposal, and preservation:
  - ECM administrators can set default retention periods for each document class within the system, and can perform retention-based bulk updates and deletions from administrative applications.
  - Management of policies, legal holds, and the delivery of user actions to participate in these processes are managed through add-on offerings specialized for this purpose, for example, offerings provided by IBM Global Retention Policy and Schedule Management, and IBM Atlas eDiscovery Process Management.

**Platform consolidation**

By providing a foundation for content federation, which is the connection of content silos, IBM Content Foundation supports visibility, access, and interoperability
with diverse business process and storage systems. IBM Content Foundation also supports use cases for transactional content, business content, and pervasive content. As enterprises tackle the challenge of unifying and consolidating their disparate systems that have developed over time, IBM Content Foundation presents a single solution for managing content from multiple repositories across the enterprise.

IBM Content Navigator and CMIS

- Users are able to search, browse, and use documents in third-party repositories, which support CMIS alongside IBM Content Foundation managed documents. This enables users and applications to begin the IBM Content Foundation adoption process before considering unifying metadata models or migrating content.

IBM FileNet Content Federation Services

- FileNet Content Federation Services provides a single, unified metadata model in IBM Content Foundation for enterprise content residing in multiple repositories.
- FileNet Content Federation Services federates content from multiple repositories into the IBM Content Foundation Enterprise Catalog.
- FileNet Content Federation Services for Content Services federates content with FileNet Content Services into IBM Content Foundation.
- FileNet Content Federation Services for Content Manager OnDemand federates content with IBM Content Manager OnDemand into IBM Content Foundation.
- FileNet Content Federation Services for Image Services federates content with IBM FileNet Images Services into IBM Content Foundation. FileNet Content Federation Services for Image Services also supports bidirectional federation.
- Bulk move for storage area migration
  - IBM Content Foundation provides a new storage area management capability, which enables moving managed documents from one managed storage area to another. This includes moving content files between file stores, database stores, and supported protected storage devices.
  - It also allows the migration of content files from FileNet Content Federation Services connected repositories to IBM Content Foundation native storage as the last phase of repository consolidation.

IBM Content Integrator

- A nonchargeable license for IBM Content Integrator is available if integration or federation services are limited to six IBM ECM repositories (Image Services, Content Services, Content Manager OnDemand, IBM Content Manager Enterprise Edition, FileNet Content Manager, and IBM Content Foundation).
  - Note: License fees are applicable if integration or federation is done against content residing in EMC Document or OpenText repositories.

Social content management

IBM Content Foundation is a rich platform for developing social ECM solutions and applications that gives users the ability to access content from anywhere and leverage the business’s collective stream of knowledge. The following capabilities are provided in the APIs to enable the repository to track and manage social interaction around managed content. These capabilities are not visible through the IBM Content Navigator user interface at this time.

- Document comments provide users with the ability to add comments to documents managed by IBM Content Foundation. Users can add multiple comments or view the discussion associated with any managed object.
- Social Tagging provides users with the ability to add social tags to documents managed by IBM Content Foundation. Social tags make it easier for users to contribute to the classification and grouping of documents, thereby, improving their ability to discover relevant information. Users can add tags, view the tags associated with any managed object, or find documents using tags.
• Document Download Tracking provides users with the ability to see how many, and which, users are downloading specific documents from the repository. This enables document owners to understand the audience of documents they manage.

• Recommend Documents provide users with the ability to recommend individual documents in the repository and to see the aggregate of multiple recommendations in order understand how the document is rated by its consumers.

• Document Thumbnail services provide users with an option to see thumbnails alongside document properties when viewing folder content and search results, providing more contextual information and allowing for a more efficient and simplified discovery process.

Enterprise manageability

IBM Content Foundation is a true enterprise class ECM platform, which provides capabilities required for enterprise manageability including the easy scalability to meet the demands of the world’s largest enterprises. IBM Content Foundation can handle multimillion document storage and retrieval rates on a daily basis. In addition, IBM Content Foundation also provides the capability to optimize deployments for geographically dispersed user communities by, for example, supporting content caching for optimized remote retrieval or locating primary storage in countries requiring local storage for legal reasons.

System platform of choice

• Lower TCO through the integration with existing enterprise infrastructure standards and the support of leading IT platforms. Users get support for a variety of operating systems, relational database management systems (RDBMs), web application servers, directory services, and other enterprise standard environments.

Enterprise-level systems management capabilities and integration with leading systems management tools

• Support of lights-out, 24 x 7 data center manageability and improved enterprise class performance management

• Single Java Platform, Enterprise Edition application for ECM services
  – Content Engine, Process Engine, Case Analytics, and the Component Manager are components of a single engine called the Content Platform Engine. A single installation, configuration, and administration effort manages the combined Content Platform Engine, thereby, simplifying installation, configuration, and administration processes.

• Web-based administration user experience
  – Administration functions are delivered through a single browser-based web application.

• Content file compression for storage optimization
  – New file compression capabilities are available in IBM Content Foundation, which enable you to optimize your storage resource consumption. Compression can be enabled for any FileNet storage area and, therefore, targeted at documents which will benefit from this storage optimization.

Enterprise search

• IBM Content Search Services search optimization
  – This feature improves the performance of Content Search Services by leveraging optimized hybrid (combining metadata search and content-based search) queries.

• Live index optimization
  – This feature automatically optimizes the text search indices by monitoring deleted item and unused disk space thresholds.
Mobile computing

- IBM Content Navigator supports mobile computing in multiple ways. iOS devices benefit from a native touch-optimized client. Smartphones and tablets are able to use both the Navigator web client and business applications delivered using its rich HTML5 toolkit.

Flexible storage options

- FileNet Content Manager provides support for storing content in relational databases, file systems, and external systems corresponding to a specific type of storage area.
- A database storage area stores document content as Binary Large Objects (BLOBs) in the relational database that has been specified as the object store database.
- A file storage area stores document content in a file system located on a standard local Directly Attached Storage (DAS), fiber Storage Area Network (SAN), or Internet Small Computer System Interface (iSCSI) connected, or shared network attached storage (NAS) drive. The file system can be Microsoft Windows\textsuperscript{TM} NTFS mounted via Common Internet File System (CIFS), a UNIX\textsuperscript{TM} file system mounted via Network File System (NFS), or IBM General Parallel File System (GPFS\textsuperscript{TM}).
- A fixed storage area stores document content on an external system or device that typically exhibits specific content protection or management features, which require special connector software. A fixed storage area consists of a staging area in FileNet P8, similar to a standard file storage area, and the separate content device it connects to over the network via the fixed content provider software. The content device can be a fixed or protected content device or a federated content system, such as FileNet Image Services.
  - Note: IBM does not qualify specific DAS, iSCSI, SAN, or NAS technologies for all-purpose storage that are typically used for databases, binaries, or file storage areas. IBM Content Foundation transparently supports these technologies as long as the storage infrastructure is supported by the host operating system and the network file system (CIFS or NFS) as described in IBM Content Foundation hardware and software requirements.
- Support is provided for various media types, storage locations, and multiple storage vendors.
- Using fixed storage areas and their matching fixed content providers, IBM Content Foundation can store content on the following devices:
  - Any storage device supported by FileNet Image Services, including surface-based magnetic storage, optical libraries, IBM Tivoli\textsuperscript{®} Storage Manager and System Storage\textsuperscript{®} Archive Manager (SSAM) enabled devices, NetApp and IBM N series, and SnapLock enabled devices, EMC Centera, Hitachi HCP, and Sun StorageTek devices. This option is typically useful for leveraging an existing Image Services infrastructure. No connector license is required.
  - Protected storage devices to archive content for long periods of time, such as required by SEC 17 a-4 legislation. These include:
    - IBM Tivoli Storage Manager and SSAM based devices (connector license required)
    - NetApp and IBM N series enabled for SnapLock devices (connector license required)
    - EMC Centera (Connector license required)
    - Hitachi HCP (Connector license required)

Security

- Has advanced security services, comprehensive auditing, native LDAP support, and single sign-on (SSO) framework integration.
- Can obtain full audit trails, provide identity management, and multilayered security to authorize and control access to critical information as well as provide content access logs.
• Contains encryption for over-the-network transfer of sensitive data. Supported configurations can encrypt documents and data at rest in both relational databases and file storage.

• Supports native LDAP for integration with an existing directory server standard.

• Leverages Java-based Authentication and Authorization (JAAS) for a pluggable integration with authentication and authorization solutions.

Scalability

• Supports tens of thousands of users simultaneously accessing repositories containing billions of objects across geographies with fast response times.

Flexible system deployment

• Enterprise class capabilities to meet business and organizational requirements through a distributed, system architecture.

IBM Content Engine Bulk Import Tool for IBM Content Foundation

• Is a high-volume, high-speed solution for inserting batches of document images into IBM Content Foundation. It provides capabilities for IBM Content Foundation equivalent to High-Performance Image Import (HPII) that is available in IBM FileNet Image Services.

• Is ideal if you are using non-IBM capture or content collection import tools to get one image at a time.

• Can accept document images from files at the rate of more than a million images per day. A transaction file that accompanies the imported images is the basis for image import, document assembly, indexing, committal to the IBM Content Foundation repository as well as an audit trail.

• Is batch oriented for mission-critical and high-volume applications. It is designed to scan and archive images, and is capable of processing more than a million images per day.

• Is designed to provide a clean recovery process should the system be shut down unexpectedly.

• Delivers batch handling that allows the processing of several thousand documents and pages per batch, and multiple document classes per batch.

• Contains enhanced administration with capabilities supporting end-of-day statistics for reconciliation, batch status reports, batch committal reports, error logs, and audit trails.

• In order to use IBM Content Engine Bulk Import Tool for IBM Content Foundation, you must acquire a license for one of the following:
  – Production Imaging Edition add-on to FileNet Content Manager
  – Production Imaging Edition add-on to FileNet Business Process Manager
  – Production Imaging Edition add-on to IBM Case Manager
  – IBM Content Engine Bulk Import Tool for IBM Content Foundation

Add-on for IBM Content Manager Enterprise Edition

• IBM Content Manager customers can leverage IBM Content Foundation with special add-on licensing available to IBM Content Manager Enterprise Edition. Licensees who purchase this add-on are provided with the full IBM Content Foundation offering at a discounted price, while still retaining their existing IBM Content Manager Enterprise Edition license.

Enhanced value and lower TCO

IBM Content Foundation includes numerous value-add components as nonchargeable, bundled components, including:

• IBM WebSphere® Application Server
• IBM Content Navigator
• IBM Tivoli Directory Server
• IBM Content Integrator
• IBM Content Federation Services
• Integration for Microsoft Office
• IBM DB2® Enterprise Server Edition
  – IBM Content Foundation offers data protection, scalability, and performance for its database intensive operations which, based on IBM DB2 technology, is designed to manage data more effectively and efficiently.

**Online documentation**

IBM Content Foundation documentation is available via InfoCenter at

http://pic.dhe.ibm.com/infocenter/iconf/v5r2m0/index.jsp

### Program number

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### Offering Information

Product information is available via the Offering Information website

http://www.ibm.com/common/ssi

Also, visit the Passport Advantage® website

http://www.ibm.com/software/passportadvantage

### Publications

No publications are shipped with this product.

The IBM Publications Center

http://www.ibm.com/shop/publications/order

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the U.S.) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries.

### Technical information

#### Specified operating environment

**Hardware requirements**

For detailed hardware requirements for IBM Content Foundation V5.2 (5725-L50), refer to

**Software requirements**

For detailed software requirements for IBM Content Foundation V5.2 (5725-L50), refer to


The program’s specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

**Planning information**

**Customer responsibilities**

Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express®. Product upgrades and technical support are provided by the Software Subscription and Support (also referred to as Software Maintenance) offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and technical support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available.

**Security, auditability, and control**

IBM Content Foundation uses the security and auditability features of the host hardware or software.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

**Ordering information**

This product is only available via Passport Advantage. It is not available as shrinkwrap.

These products may only be sold directly by IBM or by authorized IBM Business Partners for Software Value Plus.

For more information about IBM Software Value Plus, visit

http://www.ibm.com/partnerworld/page/svp_authorized_portfolio

To locate IBM Business Partners for Software Value Plus in your geography for a specific Software Value Plus portfolio, visit

http://www.ibm.com/partnerworld/wps/blocator/

**Product information**

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**Charge metrics definitions**

**User Value Unit (UVU)**

UVU is the metric by which this program is licensed. UVU entitlements are based on the number of users for the given program. A Proof of Entitlement (PoE) must be obtained for the appropriate number of UVUs required for your environment as defined by the specific program terms. The UVU entitlements are specific to the program and may not be exchanged, interchanged, or aggregated with UVU entitlements of another software program. UVU licensing offers you price benefits for customers by enabling a lower cost of incremental growth of resources. To understand these benefits of UVU licensing, and to determine how many UVUs to obtain for the program, contact your IBM representative.

**Server**

Server is the unit of measure by which this program is licensed. A server is a computer system that executes requested procedures, commands, or applications to one or more user or client devices. A PoE must be obtained for each server regardless of the number of processor cores or partitions in the server on which the program runs or each server managed by the program. Where blade technology is employed, each blade is considered a separate server.
### Passport Advantage program licenses

#### IBM Content Foundation

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Passport Advantage customer: Media pack entitlement details

Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

IBM Content Fdtn Auth V5.2.0

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Cross-platform products

Cross-platform products for use on System z

Order the part numbers that follow when the product is used for either the development of code that will be deployed on System z servers or when the product will be communicating or transferring data between a distributed server and a System z server. Otherwise order from the other set of part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set in this announcement.

Cross-platform product for use on System z IFL engines or zEnterprise® BladeCenter® Extension

Order the part numbers that follow when the product is intended to run on the zEnterprise BladeCenter Extension or Linux operating system on System z IFL engines. If the product is not intended to run in these environments, order from the other set of part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set in this announcement.

IBM Content Foundation

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**Corrections**

(Corrected on September 16, 2013)

Changed form number in License Information form number section.