IBM Content Manager Enterprise Edition V8.5 offers new enhancements, including retention management for Information Lifecycle Governance capabilities

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At a glance

IBM® Content Manager Enterprise Edition is a well-established and well-proven Enterprise Content Management (ECM) platform product that provides a highly scalable business solution for enterprise management of all types of content. Content Manager provides the framework for managing content across platforms, databases, and applications, including the retention, management, and routing of documents for acceleration of business processes, decision making, and business initiatives. Version 8.5 enhancements focus on:

- **Business continuity**: Synchronous replication of content enables copies of content to be synchronously written to two or more locations simultaneously, thus providing for higher availability and ensuring business continuity. Additionally, support for deploying IBM Content Manager Enterprise Edition on IBM PureScale environment with Active-Active configuration for higher availability is provided.
- **Consumability**: Improved document-handling support and better Content Navigator integration. Improvements for Content Navigator teamspaces, hierarchical folders, and access control enhancements all improve interoperability. Better manageability and ease-of-use for administrators and end users. Also, currency with the latest levels of software prerequisites.
- **Security**: Secure transport and encryption improvements and compliance with the new NIST standard 800-131a.
- **Serviceability**: Logging enhancements and updated installation and configuration tools. Also, new Information Lifecycle Metric Tool (ILMT) support for providing accurate license use readings for compliance.
- **Performance**: Key performance enhancements in the areas of content processing and throughput have been realized.
- **Information Lifecycle Governance**: Full retention management support provides compliance and auditability of content throughout its lifecycle.

Overview

As companies increasingly rely on a growing volume and variety of content, arriving with greater velocity each day, to help them run their business and make critical decisions, robust and flexible content management is an even more important foundation for effective enterprise information management. IBM Content Manager Enterprise Edition helps companies keep their structured and unstructured content under control. Content Manager offers a centrally provisioned, secure and scalable environment designed to address full data management and workflow requirements. With the enhancements offered in Content Manager V8.5, organizations can now
achieve even more value, lowered total ownership cost (TOC), and greater return on investment (ROI) from their enterprise content management (ECM) environment.

Content Manager Enterprise Edition helps organizations manage digital information for optimum flexibility and business value. Key areas of benefit to a business organization include:

- On-demand access to information helps accelerate business processes anytime, anywhere.
- Document management capabilities make it easy to manage compliance records and content creation projects.
- Embedded workflow features help to simplify business processes and improve efficiency.
- Social content management features and Content Navigator make it easier to create and manage high-value content for social environments.

Key prerequisites

Refer to the Technical information section for information on hardware and software requirements.

Planned availability date

November 15, 2013: Electronic availability

December 6, 2013: Media availability

Refer to the Availability of national languages section for national language availability.

Description

Content Manager V8.5 builds on its already extensive feature set by providing new features and incremental improvements to retain its enterprise viability and relevance. Better operability with Content Navigator is provided, and retention management support now provides Information Lifecycle Governance capabilities to allow for compliance capabilities throughout the content lifecycle.

Some of the key features of these enhancement areas include:

Retention management (Information Lifecycle Governance)

The retention and expiration of items can now be controlled by defining a policy for retention and expiration and assigning it to item types. Retention can be enabled as fixed-time (retains an item for a finite period of time) or event-driven (retains an item indefinitely until a defined event occurs in an external application). Similarly, expiration can be enabled to automatically delete items (using the IBM Content Manager automatic deletion service) at a fixed or event-driven time. Each policy and item type can have a custom delete schedule. In addition, if certain items need to be retained (for example, as a legal requirement), a hold capability is provided that can protect items to ensure that they cannot be deleted or updated until the hold is removed.

Content Navigator enhancements

Content Navigator provides a collaborative and mobile content experience that delivers better intelligence and control throughout the organization. It can transform the way organizations do business by putting content in motion for optimal value throughout its lifecycle. Content Navigator is a component that can be used with
IBM Content Manager Enterprise Edition for an enhanced mobile and collaborative content experience.

Content Navigator V2.0.2 is the latest release and included with Content Manager Enterprise Edition. Content Navigator V2.0.2 has improved capabilities in:

- Authoring and editing of multiple documents at a time
- Security-rich, highly reliable way to exchange files by including IBM QuickFile
- Production support of Microsoft® Office integration for IBM Content Manager
- Unified search of business content of IBM Content Manager OnDemand and IBM Content Manager Enterprise Edition content
- Tracking how often content is being accessed and who is accessing content
- Enable users to add and share comments about content
- Improve content discoverability through tagging and rating
- IBM Worklight® Studio, an Eclipse based Integrated Development Environment (IDE), allowing developers to perform all coding, testing, and integration tasks for web, hybrid, or native mobile applications. Included in the bundle is a sample code project that uses Content Navigator's Mobile Toolkit to bring content to mobile devices.

Riptide support

Integration for Riptide is now available. Riptide, a proven content delivery system, enables effortless output of disparate content types stored by IBM Content Manager Enterprise Edition. Using IBM Content Navigator or Riptide API, output can be directed from Content Manager Enterprise Edition to any number of target output devices, such as print, FTP, email, fax, CD/DVD, LAN, or even back into the Content Manager Enterprise Edition repository. Content can also be reorganized, grouped, and rendered into customized packages. Companies with content and document delivery needs are given the ability to manage the distribution and processing of content stored in Content Manager Enterprise Edition. Riptide is available as a separately purchased offering.

IBM DB2® Enterprise Edition V10.1 support

DB2 Enterprise Edition V10.1 significantly offers increased data protection, scalability, and performance for all its database-intensive operations which, based on IBM DB2 technology, is designed to manage data more effectively and efficiently. Greater availability is delivered through enhancements such as online, automated database reorganization. In addition, the increased scalability and the ability to leverage the latest in server technology helps deliver increased performance of backup and recovery processes.

Resource Manager migration and replication policy enhancements

The Resource Manager's migration policy and replication policy are enhanced in the following ways:

- A LAN cache-enabled source resource manager is used to retain a copy of the migrated object in the staging area after the object is migrated to a remote resource manager. The previous behavior was to delete the object from the cache after the object was migrated. Object retrieval performance can be improved as a result.
- The new minimum retention period for content is zero days. Previously, the minimum retention period was one day.
- The replication policy is now extended to replicate objects that are migrated from a remote resource manager. The replication occurs on the resource manager that is the target of the migration. Previously, replication was possible for new and updated objects but not for migrated objects.
Remote system configuration

With a new deployment mode, a single reference machine and one or more target machines (remote machines with different IP addresses located on the same network) can be designated for the production environment. From the reference machine, the configuration manager can be started to install, configure, and validate features such as the library server and resource manager on any of the target machines. The configuration manager automatically copies the required product files from the reference machine to the corresponding directories on each target machine. The settings for the target machines can also be saved in a profile that can be reused later.

New repository directory precedes the installation directory

Now the Content Manager installation program stores all features in a repository installation directory. These features are not actually installed into the Content Manager directory path until explicitly selected in the configuration manager. Using the configuration manager, the installation files can then be copied or configured from the reference machine repository directory to any distributed target host (local or remote).

IBM Information Integrator for Content features included in installation

IBM Information Integrator for Content is no longer a separate installation image. Any retained features that were previously associated with Information Integrator for Content, such as its connectors and toolkit, are now part of the Content Manager installation process.

DB2 Text Search

IBM DB2 V10.1 has deprecated Net Search Extender with its potential removal in a follow-on release. DB2 V10.1 and above have added support for newer scalable text search and text indexing technology called DB2 Text Search. In IBM Content Manager Enterprise Edition V8.5, support for DB2 Text Search technology has been added to enable customers to migrate their text indexes to DB2 Text Search technology over a period of time. While support for Net Search Extender has been deprecated, IBM Content Manager Enterprise Edition V 8.5 supports co-existence of both DB2 Net Search Extender and DB2 Text Search with a configurable option to allow the choice of the default text search technology. Customers using applications (example: IBM Content Collector, eDiscovery Manager) that rely on Net Search Extender on IBM Content Manager Enterprise Edition should continue to use Net Search Extender as the default text search technology and should not switch over to DB2 Text Search until such applications have announced support for DB2 Text Search.

DB2 document constructor plug-in for text search

For users who use DB2 Text Search Technology, Content Manager Enterprise Edition now can deploy a document constructor plug-in into IBM Text Search Server for DB2, from the configuration manager. The document constructor plug-in retrieves and filters content directly from the resource manager (instead of through DB2), and returns it to the IBM Text Search Server for DB2.

Automatic storage table spaces for DB2 Universal Database™

The Content Manager configuration now creates automatic storage table spaces for the library server database and resource manager database instead of DMS (Database Managed Space) or SMS (System Managed Space). All DMS table spaces from Content Manager V8.4.3 can be converted to use automatic storage when upgrading to version 8.5.

Synchronous replication

Synchronous replication is now offered, providing the capability to create and update an item and all its replicas in parallel as a single transaction. Synchronous replication
is a process to ensure that replicas for an object are created at the same time as the primary object. This type of replication is required in some regulated industries.

**Dynamic TIEREF**

In previous versions, Content Manager used resource manager data, such as host name data from the TIEREF input string, to retrieve an object for text indexing. The TIEREF data was captured and stored at the time of object creation. This data was not automatically updated by the system if a resource manager was moved to a different machine or host name, such as moving the resource manager during disaster recovery. With static data stored in the TIEREF input string, text indexing actions could not complete if the TIEREF data became inaccurate. Now the data required to retrieve an object for text indexing is obtained dynamically from the database. The system does not rely on the possibly inaccurate resource manager data saved in a static TIEREF string. The result of this change is that a system can obtain the data needed to locate and retrieve the object for text indexing even after a system failure or resource manager move.

**Character validity checking for character and variable character attributes**

Character validity checking for character attributes and variable character attributes is provided if these attributes are added to new item types. When these types of attributes are added to a new item type, an option can be selected to enable string character validity checking on the attribute value. When this option is selected, Content Manager checks that the attribute value contains only allowed characters when a client user creates or updates an item.

**Event handler toolkit**

An event handler toolkit is available to assist with using the general integration capabilities of the event framework. The event handler toolkit, available in Java™, simplifies creating custom event handlers for incorporating business logic into versatile solutions that can enhance existing applications.

**Expanded support for the CMBOutsideInExportEngine**

In addition to Windows™, the Java Viewer Toolkit now supports the Oracle OutsideInExport engine and Microsoft Office format documents (Word, Excel, HTML, and RTF) on AIX®, Linux™, and Solaris.

**Resource manager logging improvements**

Support is now provided for context filtering for the resource manager logging facility. Using the system administration client log configuration utility for the resource manager, context filters for order operations and service operations can be defined. During troubleshooting, these context filters can log information for selected operations while filtering out other operations.

**SQL performance improvement**

Some of the frequently used dynamic SQL statements are improved to use parameter markers for performance improvements.

**Microsoft OpenOffice XML File format MIME Type support**

Microsoft OpenOffice XML File formats MIME Types are now added into the system by default.

**OpenOffice MIME Type support**

The following OpenOffice documents with MIME types are supported:

- OpenOffice Impress with MIME type application/vnd.oasis.opendocument.presentation and file extension odp
- OpenOffice Writer with MIME type application/vnd.oasis.opendocument.text and file extension odt
• OpenOffice Calc with MIME type application/vnd.oasis.opendocument.spreadsheet and file extension ods
• OpenOffice Draw with MIME type application/vnd.oasis.opendocument.graphics and file extension odg

**Improvements with the Java Viewer Toolkit**

A new document engine is provided to support document conversion on Windows, Linux, AIX, and Solaris of Microsoft Office format documents (Word, Excel, HTML, and RTF). Version 8.5 also extends support of the CMBSnowboundEngine on AIX, Windows, Linux, and Solaris for document rendering and conversion for the following MIME types:

• image/tiff
• image/gif
• image/jpeg
• application/pdf
• application/vnd.ibm.modcap (overlays are not fully supported with this engine)

**PDF document enhancements are enabled by using the Java Viewer Toolkit**

Page manipulation is enabled for PDF documents. This feature allows copying and moving of pages between PDF documents, within a single PDF document, and between TIF and PDF documents. The PDF searchable content of a page remains intact when page manipulation is performed on a searchable PDF. This feature leverages searchable PDF text to provide a consistent user interface for Find and Select Text functions that were added with the OCR enhancement.

**Simple ACL inheritance**

A new item type option is provided that allows specification of a new default for access control list (ACL) assignment, which is the ACL of the parent folder during create or reindex. This is called the Inheritance of Parent Folder ACL option. This option is specified on the target item type of a reindex operation and is used if the parent folder is provided during item or document creation or reindex. The inherited ACL does not propagate to the children of the item or document through existing links during a reindex operation. Furthermore, updating or reindexing an item to assign it a different ACL does not propagate the ACL to its children.

**Enhancement of ACL setting for reindex**

The ACL setting for reindex is enhanced with two new options for configuring an assigned ACL to a reindexed item or document. One option is to indicate the default ACL for reindexing an item or document. The other option is an ACL control mode for item reindex to indicate whether the ACL assignment is controlled by the server or the application.

**Enhanced transport layer security for communication between library server and resource manager**

Communication from the library server to the resource manager can now be configured to use transport layer security; for example, Secure Sockets Layer (SSL) or HTTPS protocol. This data communication includes retrieving objects for text indexing, sending encryption-key refresh requests, and sending heartbeat requests.

**Support for WebSphere® Application Server database credential encryption**

By using a security plug-in in WebSphere Application Server, all library server and resource manager database passwords can be encrypted with a customized algorithm instead of the default BASE64 encoding.
**DB2 database encryption on Content Manager**

Both the library server database and resource manager database on DB2 can be encrypted using IBM InfoSphere® Guardium® Encryption Expert Version 2.0.

**Usage-based license statistics**

For usage-based licenses, usage statistics can be gathered and then analyzed by the IBM License Metric Tool (ILMT) for audit readiness. IBM System Dashboard is required to be installed and configured for this feature to be operational.

These key enhancements, along with many incremental improvements in the areas of business continuity, consumability, security, serviceability, performance, and Information Lifecycle Governance, all build upon Content Manager's legendary core repository and content services. The already proven scalable, secure, multi-tiered, and distributed architecture of Content Manager, which provides the base upon which critical enterprise content-enabled applications and enterprise solutions are deployed, is further enhanced and improved. The value of IBM Content Manager Enterprise Edition as the basis of an ECM platform and solution environment is further increased with the new features and capabilities of version 8.5.

**Upgrade process**

Upgrading to Content Manager V8.5 is seamless and easy. There is no migration of existing Content Manager content needed. However, the following upgrade requirements must be met as part of the upgrade process:

- Customers running Content Manager in a 32-bit server environment must upgrade to a 64-bit server environment.
- Customers running on older, legacy versions of Content Manager must be running version 8.4.3, or later, prior to upgrading to version 8.5.
- Customers using any of the components removed from Content Manager Enterprise Edition V5.2 should uninstall them prior to upgrading.

**Accessibility by people with disabilities**

A US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested at


**Statement of direction**

**Deprecated and removed features**

The following items are being deprecated for potential removal in the next new version release. The term deprecation is used to notify customers when a certain feature or features may be removed from an offering. Deprecation notifications precede the actual removal of the features. They allow customers to anticipate any actions that they may deem to be desirable or necessary to accommodate the removal of the feature.

**IBM Content Manager Services for Lotus® Quickr®**

As IBM Connections continues to replace existing Lotus Quickr implementations, and with Content Navigator addressing most Lotus Desktop Connector use cases, the need and use of Content Manager Services for Lotus Quickr will continue to diminish.

**C++ application programming interfaces**

The Java API set provides equivalent access to the same IBM Content Manager features. The focus of future development will be on the Java API set, which is more heavily utilized in custom application development.
IBM ImagePlus® connector and VI400 connector

These connectors are to legacy offerings that are no longer supported within the IBM Content Manager framework.

IBM DB2 Net Search Extender support

DB2 V10.1 has deprecated Net Search Extender with its potential removal in a follow-on release. DB2 V10.1 and above have added support for newer scalable text search and text indexing technology called DB2 Text Search. In IBM Content Manager V8.5 Enterprise Edition, support for DB2 Text Search technology has been added to enable customers to migrate their text indexes to DB2 Text Search technology over a period of time. While support for support for Net Search Extender has been deprecated, IBM Content Manager Enterprise Edition V 8.5 supports co-existence of both DB2 Net Search Extender and DB2 Text Search with a configurable option to allow the choice of the default text search technology. Customers using applications (example: IBM Content Collector, eDiscovery Manager) that rely on Net Search Extender on IBM Content Manager Enterprise Edition should continue to use Net Search Extender as the default text search technology and should not switch over to DB2 Text Search technology until such applications have announced support for DB2 Text Search.

Application programming interfaces

The following APIs are not utilized or have been replaced by a newer API:

- DKAuthorizationMgmtICM.addACLRule
- DKAuthorizationMgmtICM.deleteACLRule
- DKAuthorizationMgmtICM.updateACLRule, is being replaced by DKAccessControlListICM

The following items are being removed from IBM Content Manager Enterprise Edition V8.5:

IBM Information Integrator for Content features now part of installation

IBM Information Integrator for Content is being removed as an installable image. Any retained features that were previously associated with IBM Information Integrator for Content, such as connectors and a toolkit, are now part of the IBM Content Manager Enterprise Edition installation.

Lotus Mashup Center and ECM Widgets

Lotus Mashup Center is no longer supported by IBM Lotus, having previously been replaced by WebSphere Business Space. Likewise, ECM Widgets has been replaced by IBM Content Navigator.

WEBi, eClient, and Client for Windows (pClient)

These legacy clients have their most commonly used feature sets met, and exceeded, by IBM Content Navigator. Also, these legacy clients do not leverage Content Manager's 64-bit server environment. Existing versions of these legacy clients, such as V8.4.X, will continue to work with IBM Content Manager Enterprise Edition V8.5. End of support for all legacy clients on Content Manager Enterprise Edition V8.4.X and V8.5 will not occur before September 2015.

Installable Information Center (InfoCenter)

All publications formerly available with the installable InfoCenter are now available on the hosted InfoCenter at

http://www.ibm.com

InfoCenter ensures the latest information is available and accessible.
Sun Solaris x86-64 support

Sun Solaris x86 is no longer a strategic platform within an ECM framework. Other platforms, such as Solaris Sparc, AIX, and Microsoft Windows, continue to be supported.

XML schema mapping (Cinnamon)

XML schema mapping will continue to be available upon request on DeveloperWorks.

CM8 Servlets, tag library

The servlets and the corresponding tag library have been fully replaced by Content Navigator.

Information Integrator for Content System Administration Client and System Administration Database

The IBM Information Integrator for Content System administration client and associated system administration database are legacy interfaces for the Information Integrator for Content Federated connector. The Content Manager system administration client continues to be available.

Advanced workflow (MQ Workflow)

WebSphere MQ Workflow has not had a release with feature enhancements for many years. Thus, deprecation of this obsolete technology was announced with the availability of IBM Content Manager V8.4.0. Multiple replacement technologies are available such as MQ Workflow connector of IBM WebSphere Information Integrator and IBM Business Process Management (BPM).

The following are additional components being removed:

- UPES components: All components associated with the legacy UPES technology have been removed.
- Content Manager OnDemand connector (ODSDK): The functionality provided in the ODSDK connector and associated toolkit was previously replaced by the Content Manager OnDemand Web Enablement Kit (ODWEK). Thus, deprecation was previously announced with the availability of IBM Content Manager V8.4.0. The ODWEK connector and toolkit should be used in all development instances where ODSK was formerly used.
- Connector for federation (FEDSDK): The functionality available in FEDSDK has been fully replaced by IBM Content Integrator. Content Integrator should be used in all development instances where FEDSDK was previously used.
- Support for 32-bit servers and database instances: Content Manager Enterprise Edition began providing 64-bit server support in version 8.4.2. The demand for exploitation of underlying 64-bit hardware has continued to grow since. The documented procedure for migrating from a 32-bit operating environment is available to any customer who has not yet made this advantageous transition.
- Upgrade Checking Readiness command line utility: This utility is no longer needed since it is fully integrated into the new Content Manager Enterprise Edition V8.5 installer program.

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Availability of national languages

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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

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.

**Specific publications related to this announcement**

You can download the PDF publication and find associated content for IBM Content Manager V8.5 at the following library page


You can access all of the IBM Content Manager V8.5 documentation in the IBM Content Manager V8.5 information center at

http://pic.dhe.ibm.com/infocenter/cmgmt/v8r5m0/index.jsp

### Technical information

#### Specified operating environment

**Hardware requirements**

For the most current and complete information on hardware requirements for IBM Content Manager Enterprise Edition V8.5, visit


**Software requirements**

For the most current and complete information on software requirements for IBM Content Manager Enterprise Edition V8.5, visit


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**

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

**Packaging**

IBM Content Manager Enterprise Edition V8.5 includes the following products in the media pack:

- Content Manager Enterprise Edition Quick Start DVD V8.5
- Content Manager Enterprise Edition (including the Content Manager Client for Windows) V8.5
- Content Integrator V8.6
- Content Manager Records Enabler V8.5
- IBM Content Navigator V2.0.2
- IBM System Dashboard V5.0
**Note:** DB2 Records Manager is available as a separately priced and licensed program.

IBM Content Manager Enterprise Edition V8.4.3 includes the following required or optional software in the media pack (refer to the IBM License Information document for terms of use):

- DB2 Enterprise Server Edition V10.1
- Net Search Extender V10.1
- WebSphere Application Server V8.0
- Tivoli® Storage Manager V6.4
- Tivoli Directory Server V6.3
- WebSphere MQ V7.5

**Security, auditability, and control**

IBM Content Manager Enterprise Edition uses the security and auditability features of the host software.

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

**Global Technology Services®**

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.

**Ordering information**

For ordering information, consult your IBM representative or authorized IBM Business Partner, or visit


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

**Product information**

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**Charge metrics definitions**

**Processor Value Unit (PVU)**

PVU is the unit of measure by which this program is licensed. PVU entitlements are based on processor families (vendors and brands). A Proof of Entitlement (PoE) must be obtained for the appropriate number of PVUs based on the level or tier of all processor cores activated and available for use by the Program on the server. Some programs allow licensing to less than the full capacity of the server’s activated processor cores, sometimes referred to as sub-capacity licensing. For programs which offer sub-capacity licensing, if a server is partitioned utilizing eligible partitioning technologies, then a PoE must be obtained for the appropriate number of PVUs based on all activated processor cores available for use in each partition where the program runs or is managed by the program. Refer to the International Passport Advantage Agreement Attachment for Sub-Capacity Terms or the program’s License Information to determine applicable sub-capacity terms. The PVU entitlements are specific to the program and may not be exchanged, interchanged, or aggregated with PVU entitlements of another program. For general overview of PVUs for processor families (vendors and brands), go to


To calculate the exact PVU entitlements required for the program, go to

https://www-112.ibm.com/software/howtobuy/passportadvantage/valueunitcalculator/vucalc. wss

The subject programs have a new structure for licensing, designed for clarity and simplicity, while offering the flexibility to configure your systems to best support your business objectives.

**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 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.

A Value Unit is a pricing charge metric for program license entitlements which is based upon the quantity of a specific designated measurement used for a given program. Each program has a designated measurement. The most commonly used designated measurement is a processor core. However, for select programs, there are other designated measurements such as users or resources which may include servers, client devices, and messages. The number of value unit entitlements required for a program depends on how the program is deployed in your environment and must be obtained from a value unit table. You must obtain a PoE for the calculated number of value unit entitlements for your implementation. The value unit entitlements are specific to a program and may not be exchanged, interchanged, or aggregated with Value Unit entitlements of another program.

At all times, the number of users accessing the program or any component of the program in any manner, directly or indirectly (for instance, via a multiplexing program, device, or application server) or through any other means must not exceed your entitlement to use the program, as indicated on the applicable PoEs.

**Authorized (AUVU):** For selectively licensing internal users within your organization. The number of AUVUs (Authorized UVUs) you require is based on the number of authorized users within your organization that may access the program and/or whose user content may be analyzed using the program in any manner as set forth in the Authorized User Value Unit (AUVU) license conversion table.

An Infrequent User means an Authorized User who accesses the Program no more than one hundred twenty (120) times a year. Access is defined as any interaction between the Authorized User and the Program, or any action performed on behalf of the Authorized User by the Program, lasting no more than 15 consecutive minutes.

**External (XUVU):** For licensing users who are external to your organization whose user content is analyzed using the program. The number of XUVUs (External UVUs) you require is based on the number of external users whose user content may be analyzed using the program in any manner as set forth in the External User Value Unit (XUVU) license conversion table.

**Employee (EUVU):** For collectively licensing all of your internal users. The number of EUVUs (Employee UVUs) you require will be based on the number of employees in your Enterprise as set forth in the Employee User Value Unit (EUVU) license conversion table.

**Enterprise:** An Enterprise includes any legal entity that, by more than 50%, owns, is owned by, or is under common ownership with the Licensee. The Licensee is the legal entity that is authorized to execute and administer this agreement on behalf of an enterprise. The Licensee need not be a 'company' and may be the entire enterprise.

**Product pricing**

Each product has a fixed price per UVU. Customers license the appropriate number of UVUs to provide access to a corresponding user population.

**Cumulative volume discounting**

As the user quantity increases, the number of UVUs increase albeit at a slower rate. Value Unit License Conversion Tables establish the required number of UVUs for a specified number of users.

Volume discounting examples:

- 100 authorized users require 85 AUVUs
- 1,000 authorized users require 600 AUVUs
- 5,000 authorized users require 2,500 AUVUs
Content Manager configuration example:

- Content Manager AUVU price = $Y per AUVU
- 5,000 authorized users require 2,500 AUVUs
- Total price = $Y x 2,500

More information about PVU licensing can be found at this location


Although the subject programs are now offered under a new, streamlined licensing and pricing model, the function of the products has not changed from that of previously available offerings.

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 Proof of Entitlement (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.

Install

Install is a unit of measure by which the program can be licensed. An install is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. Licensee must obtain an entitlement for each install of the program.

Resource Value Unit (RVU)

RVU is the unit of measure by which this program is licensed. RVU entitlements are based on the quantity of a specific designated measurement for the given program. A Proof of Entitlement (PoE) must be obtained for the appropriate number of RVUs required for your environment as defined by the specific program terms. The RVU entitlements are specific to the program and may include, but are not limited to the following: client devices, data source records, messages, and servers, and may not be exchanged, interchanged, or aggregated with RVU entitlements of another program. To understand these benefits of RVU licensing, and to determine how many RVUs to obtain for the program, contact your IBM representative.

Passport Advantage program licenses

IBM Content Manager Enterprise Edition

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### Passport Advantage trade-up licenses

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IBM is a registered trademark of International Business Machines Corporation.
Passport Advantage supply

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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.

Content Manager Enterprise Edition V8.5

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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 and/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.

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Trade-up licenses for cross-platform products

IBM Content Manager Enterprise Edition

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Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

**Licensing**

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

**License Information form number**

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The program's License Information will be available for review on the IBM Software License Agreement website

http://www.ibm.com/software/sla/sладb.nsf

**Limited warranty applies**

Yes

**Limited warranty**

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

http://www.ibm.com/support/handbook
IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

**Money-back guarantee**

For clarification, note that if for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

- For clarification, note that for programs acquired under the IBM International Passport Advantage Agreement, this term applies only to your first acquisition of the program.

**Volume orders (IVO)**

No

**Passport Advantage applies**

Yes, and through the Passport Advantage website at

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

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

**IBM Operational Support Services -- SoftwareXcel**

No

**System i® Software Maintenance applies**

No

**Educational allowance available**

Education allowance does not apply.

Education software allowance does not apply.

Special education prices are available for qualified customers through Passport Advantage.

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Passport Advantage

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- South Sudan
- Syria

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