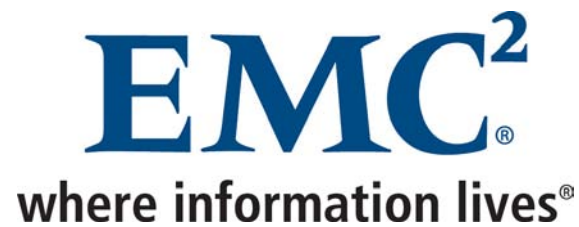


# What's New in Documentum 6



Version 6  
September 19, 2007

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# Preface

This document is designed to provide an overview of new features and major themes of the EMC Documentum 6 release. The intent is to provide high-level guidance for deployment planning purposes and not to provide information about future product releases. Documentum 6 products planned for release after the initial product stack will be documented in revised versions of this What's New document.

The information contained in this document reflects the plan at the time of publishing. As with any forward looking statements, this information is subject to change. Once the release is available, please consult the Documentum 6 System Release Notes and System Migration Guide for official details. Greater detail for specific products can be found in the product release notes and installation guides.

## Intended Audience

The audience for this document is the internal EMC Documentum sales organization, technical support, deployment programs, partner programs, developer programs, EMC partners, and EMC customers.

## Revision History

The following changes have been made to this document.

Revision Date	Description
August 30, 2007	Initial publication
September 10, 2007	Added Compliance product grouping to distinguish it from the Interactive Content product grouping.
September 19, 2007	Removed reference to DCE web service.



# Release Highlights

## Documentum 6 Product List

The table below provides a complete listing of products comprising the Documentum 6 stack release.

Product Group	Product
Knowledge Worker	<a href="#">Web Development Kit, page 11</a>
	<a href="#">Webtop, page 14</a>
	<a href="#">Documentum Collaborative Edition, page 16</a>
	<a href="#">Application Connectors, page 18</a>
	<a href="#">Content Intelligent Services, page 19</a>
	<a href="#">Enterprise Search, page 20</a>
Transactional Content Management	<a href="#">Forms Builder, page 25</a>
	<a href="#">Process Builder, page 27</a>
	<a href="#">Process Integrator, page 31</a>
	<a href="#">Process Engine, page 32</a>
	<a href="#">Business Activity Monitor, page 32</a>
	<a href="#">Process Analyzer, page 33</a>
	<a href="#">Process Connector Pack, page 34</a>
	<a href="#">TaskSpace, page 34</a>
Interactive Content	<a href="#">Document Image Services, page 36</a>
	<a href="#">Content Transformation Services, page 38</a>
	<a href="#">Digital Asset Manager, page 42</a>
	<a href="#">Authoring Integration Services, page 44</a>
	<a href="#">FTP Services, page 44</a>
	<a href="#">File Share Services, page 44</a>
	<a href="#">Web Publisher, page 46</a>
Compliance	<a href="#">Site Caching Services, page 50</a>
	<a href="#">Documentum Submissions Manager, page 52</a>
	<a href="#">Records Manager, page 52</a>
Archiving and Enterprise Integrations	<a href="#">Retention Policy Services, page 55</a>
	<a href="#">Archive Services for SAP, page 57</a>
	<a href="#">External Viewing Services for SAP, page 57</a>
	<a href="#">Content Services for SAP, page 57</a>

Product Group	Product
Documentum Platform	<a href="#">Content Server, page 59</a>
	<a href="#">Trusted Content Services, page 61</a>
	<a href="#">Content Storage Services, page 62</a>
	<a href="#">Content Services for EMC Centera, page 62</a>
	<a href="#">Branch Office Caching Services, page 63</a>
	<a href="#">Documentum Foundation Classes, page 63</a>
	<a href="#">Documentum Foundation Services, page 64</a>
	<a href="#">Documentum Administrator, page 67</a>
	<a href="#">Application Connectors SDK, page 69</a>
	<a href="#">PDF Annotation Services, page 69</a>
	<a href="#">Documentum Reporting Services, page 70</a>

# Product Highlights

This section provides a general overview of new Documentum 6 product features planned for release with the stack. New features for Documentum 6 products released after the stack are not addressed. Please note that all information is current at the time of writing and is subject to change without notice.

## Knowledge Worker

### Web Development Kit

User interface enhancements include the following, in addition to those displayed in Webtop:

- Configurable right-click context menus
- XML-based fixed menus that can be modified or extended
- Configurable **Starts with** filter that can be added to datagrid or dropdownlist
- Configurable keyboard shortcuts (hotkeys) and support for custom shortcuts
- Configurable field tab-through order
- Object selection in datagrids by mouse click selection. Replaces checkboxes, can be reverted to checkboxes as needed or configured to support links within the datagrid.
- Configurable autocompletion lists, which are stored in the repository, and support for autocompletion in custom controls
- Configurable breadcrumb display showing the logical or navigational path, and ability to reset the path
- Global flag in app.xml to hide all invalid actions

The following topics describe new framework features that have been added to WDK.

### Accelerated Caching Services (ACS) and Branch Office Caching Services (BOCS) write options

You can enable or disable ACS and BOCS write operations in the application configuration file app.xml. If you enable BOCS write, you can set the mode to synchronous, asynchronous, or both. If you enable both, you can set the default mode, and business users will see a UI on import and checkin in which they can select the mode of transfer. ACS supports only synchronous writes.

### Strong encryption and security

The TrustedAuthenticatorTool utility now encrypts password using triple DES strong encryption. An encryption and decryption key is generated for each user and is stored in a keystore file that can be secured using OS security. The location of the keystore is specified in a properties

file, and the encrypted password can be used for Java EE single sign-on, preferences repository user, and presets repository user. The encryption is also used to store user credentials when saved credentials are enabled.

The WDK samples and testbed have been removed from the application to prevent cross-site scripting. These files are available as a separate download on the download site.

The new folder security extended permission in Content Server version 6 is respected by WDK applications, although it is not available to set in the UI.

## **Presets**

Preset definitions can be added to custom components, and preset values can be looked up in the component class.

## **Configuration service modification mechanism**

Configuration service extensions provide the ability to modify configuration definitions without extending them. This mechanism insulates the custom application from upgrades and allows the developer to modify additions made at any level in the configuration hierarchy.

Configuration elements can be added or inserted into a specific position. Existing elements can be removed or replaced.

## **Viewing application for renditions**

In previous versions, the path to a rendition viewing application had to be the same for every user. This feature can now be configured in app.xml to use the user's preferred viewing application set in the format preferences UI.

## **Conditional value assistance in search**

Conditional value assistance will be provided when you use individual searchattribute controls in a custom advanced search component.

## **Configurable read notifications**

A user can select any object in a list view and turn on read notification to notify the user when the document has been read. The default event for notification is dm\_getfile, and the minimum permission for read notification is configured in app.xml.

## Performance improvements

There have been significant speed enhancements for search, workflow, and multi-item drag and drop. WDK 6 also has faster sort, action invocation, and forms processing capabilities.

## Cookies, preferences persistence, and lookup

WDK 6 provides a new server-based model for saving user preferences that reduces reliance on cookies and provides portability of preferences. This improves reliability and keeps the user experience consistent when using more than one client machine. Developers can configure preferences to be cookie-only, such as login preferences

Cookies have been optimized to store preference IDs instead of names.

The configuration lookup methods `lookupString`, `lookupInteger`, and `lookupBoolean` have an optional parameter `consultPreference`. Set to `false` to look up a configuration value from the component definition and bypass a lookup of the user preference when the lookup is not needed.

The configuration lookup methods `lookupString`, `lookupInteger`, and `lookupBoolean` have an optional parameter `consultPreference` to bypass a lookup of the user preference when the lookup is not needed.

## New deployment model for WDK-based applications

The installation process for WDK-based applications has changed. In WDK 6, each WDK-based application is delivered in the form of a WAR file. Rather than running an installation program, the developer or administrator unpacks the WAR file, modifies the `dfc.properties` file as appropriate for the environment, then deploys the WAR file according to the deployment instructions for the selected application server.

## Deprecated features

The functionality of the streamline view is now encapsulated in right-click context menus.

Checkboxes have been replaced by row selection in datagrids. They can be re-enabled per datagrid as a datagrid attribute or for the entire application as a flag in `app.xml`.

Several themes have not been updated for WDK 6, and they are turned off by default. They can be re-enabled by configuration but will not display new Documentum 6 functionality.

# Webtop

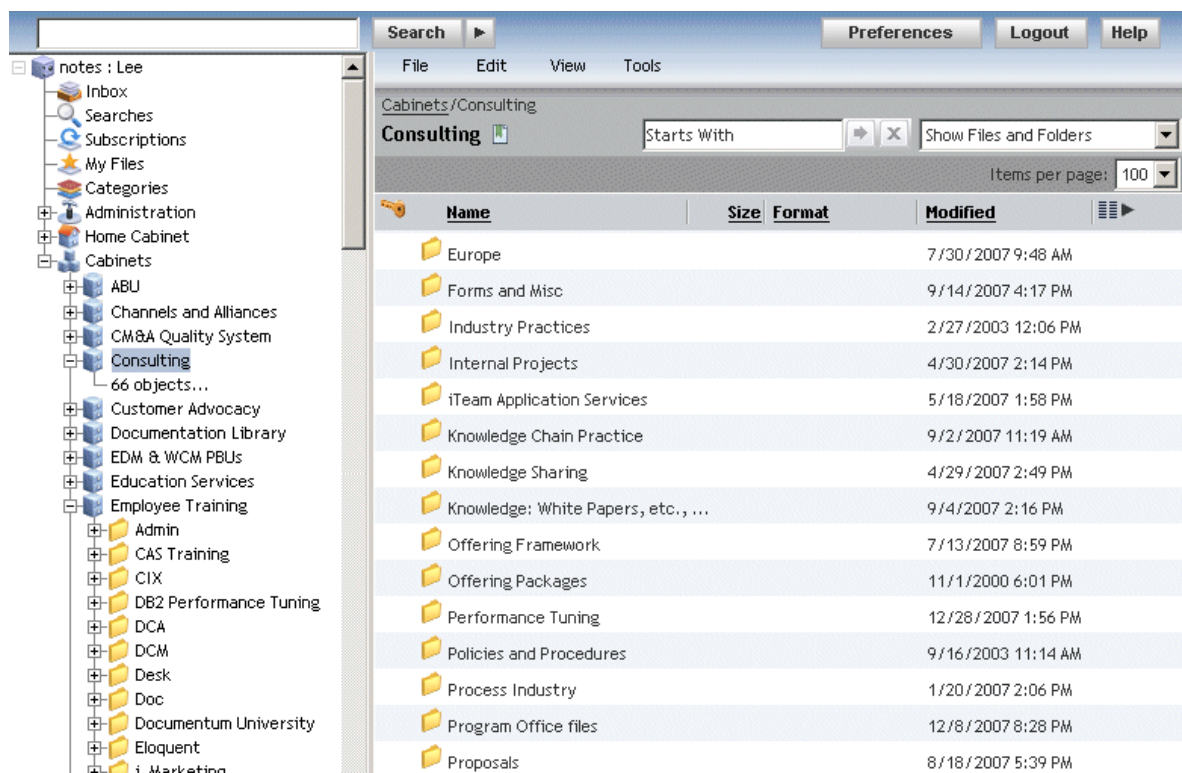
## Navigational improvements

Documentum 6 includes the following enhancements to the user interface:

- Improved item selection lets you select items by clicking them, not by selecting checkboxes. Checkboxes have been removed from repository lists. Improved item selection also lets you select multiple items using shift-click and control-click.
- Right-click menus provide streamlined access to performing actions. You can right-click to display a pop-up menu with relevant actions. Right-clicking replaces the Webtop 5 streamline view, which is turned off by default.
- Autocomplete provides suggestions when you types an entry in a field. Autocomplete lets you quickly enter text.
- Multi-object property editing lets you edit or assign properties, permissions and lifecycles to multiple objects at once.
- Lifecycle state displayed in list view
- Resizable columns

The Webtop interface is in [Figure 1, page 14](#).

**Figure 1. Webtop interface**



## Bi-directional interface

Webtop is now configurable for either a right-to-left or left-to-right interface, including right-to-left or left-to-right metadata entry and processing. This supports languages that read from right to left. The direction is determined by the user's locale selection at log in.

## Keyboard shortcuts (hot keys)

You can use keyboard shortcuts to perform Webtop actions.

## Additional drag-and-drop actions

You can now perform the following actions through dragging-and-dropping:

- Check in from file
- Add rendition
- Create new relationship

## Search enhancements

Search functionality now includes the following:

- Savings the results for others to use
- Real-time query monitoring (with ECI Webtop Extended Search option)
- Clustering results according to certain properties (with ECI Webtop Extended Search option)
- Ability to perform a combined database search on properties and full-text search on strings
- Conditional value assistance
- User interface enhancements

## Presets

A preset determines the selections or actions available in particular situations. Creating a preset offers a way to reduce screen options to those options that are relevant to the user's task in the particular situation.

A preset is assigned to a particular item or set of items. For example, a preset could be assigned to a particular user group. Or a preset could be assigned to a particular user group when combined with a particular folder location. The item or set of items is called the preset's *scope*. The scope assigned to each preset must be unique.

It is important to note that presets are not used to provide security.

## **Subscribing another user to a repository item**

One user can subscribe another user to a repository item.

## **Asynchronous content transfer**

You can determine how quickly to upload new content to a repository. You choose to update the repository immediately for all your corporation's users, in which case you must wait for the transfer to complete before you can perform other actions. Or you can choose to update the repository first for users in your geographic area and more slowly for all your corporation's users. This allows you to continue using Webtop while the update occurs.

## **You can have notification sent when a file is read or changed**

You can have notification sent any time a file is read (including viewed, exported, checked out, and edited), or any time a file is changed.

Notifications are sent to your Webtop inbox and your email inbox.

## **Export to .csv**

You can export metadata about repository lists, including directory locations and search results. You can export the names and property values of the items in a particular list. The information is saved as a .CSV file, which can be opened in Microsoft Excel or another editor.

## **Adding documents as bookmarks**

You can add a document or folder to your browser's bookmarks or favorites.

## **Documentum Collaborative Edition**

The Documentum 6 release of DCE strengthens and enhances the native collaboration capability of the Documentum product family an integration that started with DCE 5.3. Through DFC, the DCE APIs provide a more robust infrastructure on which diverse collaborative applications can be built, through Webtop and other clients.



## Data tables

DCE data tables are a convenient way to create and manage structured collections of similar data such as lists of issues, tasks, milestones, and contacts. Information in a data table is organized as a series of entries (or records, or rows) that have a common format, or schema. Data tables support a flexible variety of business-relevant data types, including rich text, choice lists, member lists, due dates, yes/no fields, and traffic light status indicators.

Data tables can be created and managed within Webtop or other WDK-based applications.

## Enhanced membership

Collaborative projects often involve repository users working with external users such as clients, auditors, or suppliers. In order to collaborate effectively, both groups might need to be members of the same DCE room. Further, such mixed-group projects typically entail confidential or proprietary work that requires heightened security measures.

DCE provides a three-pronged solution for addressing such scenarios, with these features: user managers, member concealment, and restricted folders.

- **User managers** DCE enables system administrators to delegate some user management tasks (such as creating new users) to non-administrators in the repository role of user manager. User managers who are also room owners can, without an administrator, create and add users to a room, even those who are not members of the repository. User manager features affect all contexts that DCE supports, including WDK applications such as Webtop.
- **Member concealment** Administrators and user managers can conceal certain users from other repository users. When hidden, such users are omitted from user pickers in the repository, thus concealing their presence in the context of repository user lists. These users are visible only to user managers and administrators.
- **Restricted folders** User managers can limit user access to specific content areas in the repository by using the restricted folders list on the user properties dialog. Thus, restricted users are prevented from gaining access to any repository content outside of the folders to which they are explicitly granted access.

This concert of functionality allows non-administrators to create new users, conceal them from repository-wide user lists, and restrict them to specified content areas in the repository.

Documentum 6 includes some membership APIs that support applications such as a self-service room creation process that grants a user both owner and user manager capability. With this ability a room owner can create and add members immediately, without administrator intervention.

## Room invites

Once a room is created and members are added from the repository, a room owner in Documentum 6 can issue email invitations to members of that room. The invites initially contain a link to the room's location, and can be customized to deliver, for example, a welcome message and description of the room. Room invites encourage collaboration by offering members a personalized introduction to a room and a convenient means of visiting there.

## Calendars

In Documentum 6, DCE calendars enable users anywhere in a repository to organize, track, and schedule events. Since calendars support the iCalendar (or iCal) standard format for exchanging calendar data over the Internet, they are well-suited for use in distributed collaborative groups.

Developers can extend calendar functionality using a rich set of service APIs that Documentum 6 DCE provides through DFC. For example, a my calendar application might aggregate all of the events for a particular user from multiple calendars in a repository and generate a personalized summary of events for that user.

## Discussions

DCE 5.3 introduced discussions attached to individual documents. In Documentum 6, DCE provides an enhanced layer of API services that support standalone discussions. This provides a foundation for developing collaborative applications that include discussion objects that are independent of other repository items.

## Application Connectors

- Improved usability, including functionality commonly found in Windows applications and a more seamless interaction with the repository.
- Integration with Microsoft Outlook
- Integration with Office 2007
- Users can delete files when viewing the repository in a selection dialog box.
- Users can create new folders when viewing the repository in a selection dialog box.
- When saving and checking in, users can perform versioning and other checkin options.
- Users can choose the location for a file when creating a new file from a template.
- Consistency with Webtop presets
- Support for XML virtual documents. Users can choose to include descendants on checkin and checkout.
- Users can insert the content of one document into another document.
- Users can insert a hyperlink from one document to another.

## Integration with Microsoft Outlook

Users now enjoy basic content services from within Outlook. Users can save emails and email attachments to the repository for later access.









# Content Intelligent Services

The main themes for this new release of Content Intelligent Services (CIS) are unification and performance.

## Increased performance

CIS has been re-architected to dramatically improve the performance of content classification. In Documentum 6, classification of 80-KB text documents is faster than it was in Documentum 5.3. For instance, the new CIS classification engine has been improved to provide ultra fast string pattern matching when analyzing content. In addition, the CIS server was re-built to be a multi-threaded architecture to achieve ultra-high throughput.

**Figure 2. Faster content classification**

Simple Terms	
Simple Terms Count : 4	Show Items 10
Key words and phrases that are good indicators for category membership	<a href="#">Add a new simple term</a>
biotechnology Confidence : high	  <a href="#">Add Additional Term</a>
biotechnology terminology Confidence : 40	  <a href="#">Add Additional Term</a>
\$GeneSequenceA Confidence : 80	  <a href="#">Add Additional Term</a>
@child Confidence : high	  <a href="#">Add Additional Term</a>

## Unification

CIS data structures are now stored in the Documentum repository and no longer duplicated in a CIS specific database. The CIS user interfaces in DA, Webtop and the API of the product (CI API) are unchanged in Documentum 6. CIS is deployed as a web application in a BEA WebLogic Managed server. The WebLogic administrator can manage the CIS server through the WebLogic Administration console, possibly with other web-based Documentum products.

One unique CIS server instance can be used for both Test and Production mode, from Documentum Administrator.

## Improved linguistic support

CIS is now fully Unicode compliant. This enables the classification of documents written in any language. The stemming feature (the ability to recognize that fishing, fished, fish, and fisher have

the same root word, fish) used to detect the keywords that match a particular category is only available for Latin-1 based languages.

## **Microsoft Office 2007 support**

MS Office 2007 support has been added to CIS in Documentum 6.

## **Enterprise Search**

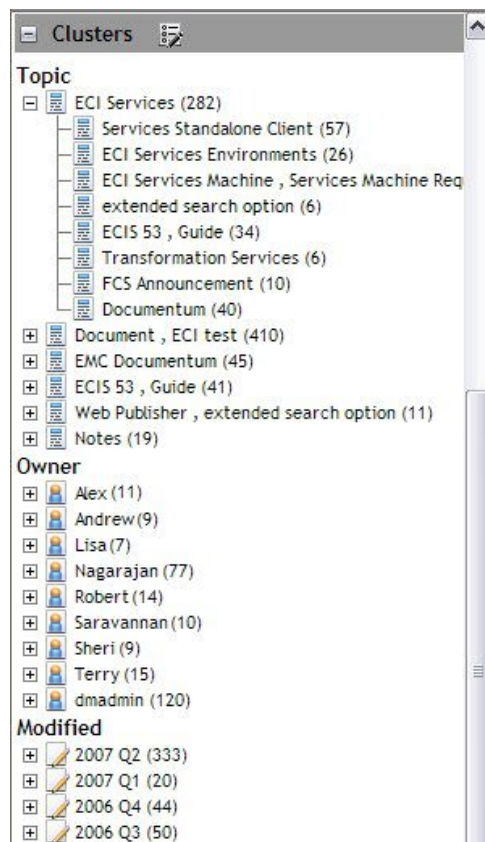
The following lists new features delivered with ECI Services in Documentum 6. Unification is the main theme for this release. The following enterprise search products comprise this release, however only Webtop Extended Search contains new significant functionalities. All the other products are maintenance releases.

- ECI Services Server
- ECI Services Adapter Development Kit (ADK)
- ECI Services Software Development Kit (SDK)
- ECI Services Adapter Pack
- ECI Services Discovery Manager (includes Le Googlette)
- ECI Multi-lingual Services
- Webtop Extended Search (also known as ECI Services Extension)

## **Webtop Extended Search**

### **Result clustering**

This release exposes result clustering in Webtop with Webtop Extended Search. The search results are automatically and dynamically grouped into categories that are intelligently created from the results metadata. By clustering similar results into multiple categories and labeling each category with a representative title, the system allows the end-user to explore the results by concepts and to rapidly find the relevant information he/she needs.

**Figure 3. Categorizing search results**

## Search results saved with query

Webtop 5.3 was not keeping the results collected for a query. In Webtop 6, the results gathered by the queries are saved together with query. This is now possible out of the box with Webtop 6. Query results can be kept together with query definition. This allows the user to keep track of the information gathered.

## Last search is retained

In Webtop 5.3, the last search performed was ephemeral. For example, after a search, if the user browsed in the repository, then he/she had no way to go back to the previous query. The context of the last search executed is now kept during user session: search definition, search results and result clusters. The user can now easily get back to the previous results gathered from Webtop navigation tree or from the simple search box.

## Customizable ranking

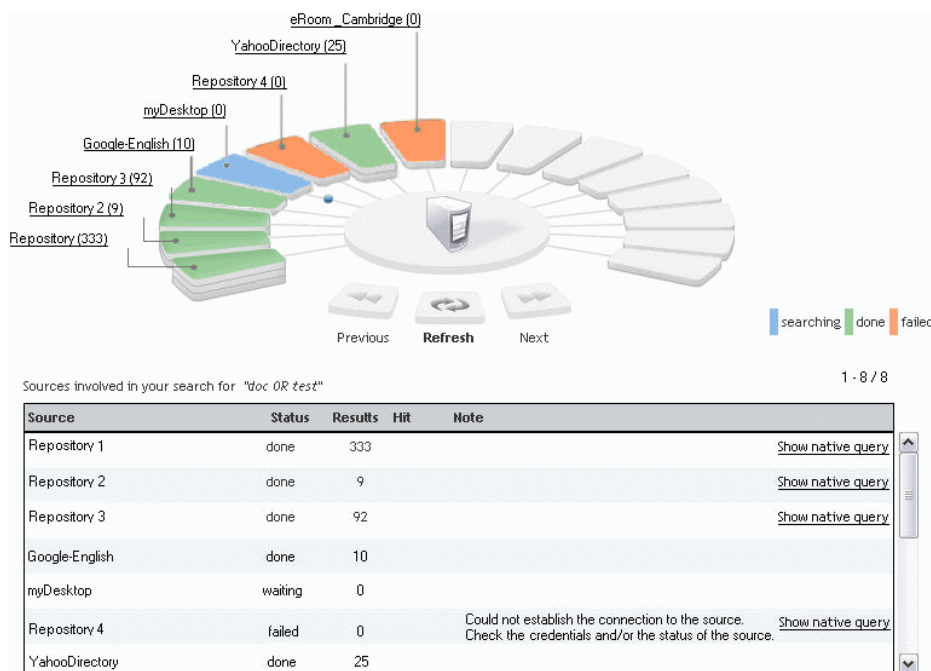
The administrator can influence the relevancy ranking calculation. For example he/she may want to make sure that the results returned from a specific source are given a better relevancy rank than

other, less quality, sources. He/she can also set the relative weight of an attribute, to rate better the results that match the query on a specific metadata.

## Live query monitoring

When running a search one needs to know the status of the query. How many results have been gathered so far? Which source returned results? Which one is down? Webtop 5.3 was providing a static snapshot view of the query status. This capability has been improved in Documentum 6 with a graphical animation showing the state of each source in real time, as well as automatically updated status data for each source.

**Figure 4. Real time monitoring**



## Search templates

Search templates are a middle ground between the simple and the advanced search. Search templates are reusable queries. An example could be 'find invoice documents for customer X dated last month'. This query can be used for customer Y, Z... Search templates enable to define the query once and set variable fields like customer name and others. It is simpler than advanced searches as only a limited number of search criteria can be set. It is more specialized than the simple search as it is specific to a type of search and has predefined query criteria. Creating search templates is available to expert users allowing targeted searches to be shared across user community.

## **Advanced WDK search customizations**

Developers can programmatically extend Webtop Advanced Search component to modify some displayed controls. One can edit the generated query by adding fixed constraint based on specific business logic. Documentum 6 release provides enhanced customization control through XML and JSP instead of Java code.

WDK search forms can be customized to support Conditional Value Assistance. This is an extension of the existing value assistance system. Data Dictionary allows the administrator to define dependencies between the values of an object attributes (i.e. properties of an object) and these dependencies are now handled within advanced search components to help users build powerful queries. An example of Conditional Value Assistance consists in choosing the car model after having chosen the car maker in a search form.

WDK search components support pass through queries so that DQL queries can be passed directly to the query execution engine.

## **New platforms**

IBM AIX is now a supported platform from the ECI Services server.

# Transactional Content Management

Transactional Content Management (TCM) brings together input/capture of content (through EMC Captiva) and imaging services with business process management and content management.

The most noteworthy change for TCM in Documentum 6 is the introduction of two new products, TaskSpace and Documentum Image Services. TaskSpace provides process performers with a highly configurable user interface for performing tasks in a workflow along with the ability to view images and document in the same screen as the task processing interface. Documentum Image Services is a new Documentum 6 product that provides support for image-oriented documents. It is designed to support a wide range of third party viewers.

Some changes have been made in the naming of the products since the SP5 release. These changes are summarized below.

Old Name	New Name/Change	Comments
Business Process Analyzer	Process Analyzer	Enables business analysts to discover, design, and analyze business processes
Business Process Manager	Process Builder	Enables process developers to build and deploy processes
Process Engine	Formerly, this was packaged in Content Server. Now it must be purchased separately.	Executes business processes.
Business Process Services	Process Integrator	Performs system-to-system interactions in executing processes.
Business Process Simulator	Process Simulator	Enables detailed quantitative analysis of a business process
Mobile Process Analyzer	Now packaged with the Business Process Analyzer	Stand-alone version of the Process Analyzer.
Business Process Navigator	Process Navigator	Enables web access to view processes and reports.
Business Activity Monitor	No change	Allows monitoring of processes executing in the Process Engine
Process Integration Package for MS Visio	The Visio Interpreter and Visio export to Visio are now part of the Process Analyzer	
Process Connector for MS BizTalk	Now included in the Process Connector Pack	Import and export to Microsofts BizTalk Server.
Process Connector for BEA WLI	Now included in the Process Connector Pack	Import and export to BEAs WebLogic Integration
Process Connector for BEA AquaLogic BPM	Now included in the Process Connector Pack	Import and export to BEAs AquaLogic BPM.



Old Name	New Name/Change	Comments
Process Connector for TIBCO Staffware	Now included in the Process Connector Pack	Import and export to TIBCO Staffware
Process Connector for BPEL	Now included in the Process Connector Pack	Import and export to Business Process Execution Language

## Forms Builder

Documentum 6 brings with it substantial enhancements to Documentum forms. There are noticeable improvements across the board that make it easy to create highly usable and visually appealing forms. In addition, Forms Builder will function as a layout tool for TaskSpace, the new Transactional Content Management user interface.

### Usability

Users can quickly build new templates or modify existing ones by dragging and dropping controls into place. Control properties and toolbars have also been reorganized.

### Layout and styling improvements

Users can exercise a higher degree of control over the layout of templates with the new design boxes. Designers can specify the font, color, background, and other styling parameters for individual controls, as well as incorporate logos or other graphical images in forms.

### Page refresh performance improvements

The forms runtime now leverages the immensely popular "Asynchronous JavaScript and XML" (AJAX) paradigm to provide a highly responsive experience to end users. This will greatly reduce the frequency of page refreshes that users see.

### Tab order / hot keys

It is now possible to create forms that do not require a mouse for navigation. A designer can specify how the input focus moves from control to control within a form by specifying the tab order. Hot keys let the designer link key combinations to specific actions.

## Instance locking

If several users need to work with the same form data, the system will prevent them from making conflicting changes. This is accomplished by locking the form when a user first attempts to edit form data, preventing other users from editing until the changes are saved or discarded.

## Adaptor configuration management

Many forms need to incorporate data from external systems and can do so by leveraging data adaptors. Form designers can now configure adaptors graphically within Forms Builder. In addition, there are improvements in the management and deployment of adaptors.

## Localization

Easily reuse the same template in different languages and countries by maintaining translations of the text. Form designers can now extract and import the text strings of a form to allow for translation. At runtime, users will see the appropriate translation based on their locale settings.

## Printing

There is now full support for printing forms in their entirety.

## Branding

Users can add images, such as company logos, to the form. An image can be shared by more than one form template.

## TaskSpace configuration

In Documentum 6, Documentum is introducing a new user interface for Transactional Content Management called TaskSpace. TaskSpace provides a framework for building process-oriented applications that incorporate documents and other content. At the core of TaskSpace applications are configurable components representing forms, documents, folders, searches, tasks, and task lists. Forms Builder has been extended well beyond basic forms so that it now serves as the tool for creating and modifying TaskSpace components. Document components can make use of the new image viewer control, which will display the document in-line with other data by leveraging one of the integrated viewers.

## **New certifications**

Forms Builder 6 introduces support for Windows Vista.

## **Process Builder**

Process Builder enables developers to build and deploy executable processes starting from a process design created using the Process Analyzer.

## **Global structured data types added to process data model**

In previous releases, structured data would have to be embedded into packages in order to be used as process variables. This required process developers to create custom data types in Documentum. In Documentum 6, structured data can be defined in Process Builder as lightweight data types. This approach enables the process to read and write transient data, which can then be displayed to the process performer in TaskSpace or mapped to external systems. Structured data types are defined in a hierarchical manner and can be reused across multiple process templates in the repository.

Structured data types (or process variables) represent different types of data that flow through a business process. These process variables are defined in the Global Structured Data Types window and can be used in multiple process templates within the same repository. These data types can be simple data types (a string, Boolean, or date value) or they can be complex data types; groups of logically related data such as purchase orders or manufacturing items. You can also use a wizard to import XML schemas and convert them into a structured data type.

Structured data elements can be identified to use in reporting. The Documentum Process Engine exposes the elements so that reporting tools can consume the data and create static reports and Process Analyzer reports. Process variables can be used in Transition conditions.

## **Data mapper enhancements**

The Process Builder data mapper has been enhanced to display process variables and enable process designers to map them to other process attributes.

## **Multiple tab support for processes**

When you are creating a process template, you may need to view another existing process or view the details of a sub-process that is part of the flow. Process Builder now enables you to open and view multiple processes on different tabs. Using multiple tabs can be useful when viewing or creating a process that includes a Start Sub-Process activity.

## Forms support for activities

In the Activity Inspector, the Properties tab has been enhanced to enable users to associate a Forms Builder form with an activity. When a task is opened in Task Manager, the system checks to see if a form template has been defined for the activity and uses the form instead of the standard Task Manager interface.

## Enhanced process designer interface

The design interface now provides access to all activity templates and structured data types in the repository. Activities and process variables are both organized into a tree structure for increased visibility. You can drag an activity from the Resource Navigator tree onto the main process map. Additionally, the Activity Inspector has a new Data tab that displays the variables and the packages in an aggregated view

## New performer type for activities

When assigning a performer to an activity, the process designer can now select to have the previous activity's performer assigned to the task. The designer can select an activity in the flow as the previous activity.

## Activity Inspector performer assignment improvement

The Activity Inspector enables the user to assign the performer of an activity to the performer of any previous activity

## Access Control Lists (ACLs) enabled for processes and variables

In Documentum 6, you can set security for process templates and process variables based upon access control lists.

## Fault handling for automatic activities

A fault handling activity is an activity that is assigned in the flow to an automatic activity as a backup means of completing the activity. When an automatic activity fails at runtime, a fault handler activity can complete the activity. A fault-handling activity can be either manual or automatic.

The process designer can define parameters in the original activity that specify the number of times the system should retry the method before switching to a fault handling activity.

## Process versioning support

This enhancement improves checking in and checking out functionality by including versioning support for process templates. In previous releases, users needed to use both Webtop and Documentum Process Builder to check in and check out templates and to fully use versioning. In this release, all functionality is contained within Process Builder.

Use new menu items and toolbar buttons to check out, cancel a check out, and check in process templates. Currently running processes will continue to run on the prior version of the template. Newly launched processes will use the new process definition.

## Inbound and outbound messaging activity templates

Several new activity templates in Process Builder extend and simplify Process Integrator messaging functionality. The new inbound and outbound messaging activity templates handle the following types of messages:

- HTTP
- FTP
- SMTP
- JMS (Java Message Service)

Within the new messaging activity templates, you define the connection to the servers, verify connectivity, set options for processing the message, and map data from the message to the process data that is used in the activity.

For additional details, see the Process Integrator section of this document.

## Support for process-specific forms

Process Builder includes a Forms Builder wizard that creates workflow-specific forms.

## Initiate activity enhancements

Initiate activities specify the conditions that begin a workflow. In Documentum 6, process designers can use multiple initiate activities to begin a workflow. For example, a designer can begin a workflow with one manual initiate activity, multiple automatic initiate activities, or a combination of one manual activity and several automatic initiate activities.

If the initiate activity is manual, process designers can configure the activity to automatically launch a Forms Builder form that starts the process.

## Work queue manager enhancements

### Inbox and queue list improvements

Users can add columns displaying process attributes to their inbox task list and their queue lists.

### Configurable queue assignment rules

Queue administrators can configure skill profiles that define the types of work the queue will be processing. In addition, they can define a profile of skills for each individual queue processor. These skill profiles are then used by the system to match a qualified processor to a task in a work queue.

Process designers use the data mapping tool to map these skills to a work queue in the process template, enabling the system to resolve the mapping and assign the task to a queue based on the attributes of process data contained within the activity.

### Pulling tasks from a queue

Processors with the `queue_advance_processor` role have increased privileges. These processors can view the work queue tasks that they are eligible to work on and acquire them regardless of their priority.

Processors with this role also have access to the Work Queue node in the main directory tree that shows all of their assigned work queues displayed as separate inboxes. From these Work Queue Inboxes, they can select any unassigned tasks that they are eligible to work on based on their skill set or any unassigned tasks that do not require any skills. Processors with this role also have the option to filter the Work Queue Inbox view.

### Dynamic resolution of activity performer

Process designers can now define conditional logic within an activity template to assign a performer to a task based on the process data.

### Queue monitor enhancements

The Work Queue Monitor has been enhanced to show the following information:

- Task status
- Task count
- Policy task count
- Task priority
- Policy priority
- Number of active users for each queue

If a task count or a task priority exceeds the level specified in the policy, the system displays a caution icon in the row for that queue and displays the item that exceeds the policy in bold font.

New controls at the top of the page enable users to select different views in the monitor, depending on their access and privileges. They can also select the columns that appear on the page the order in which they appear.

## **Work queue override policy**

A work queue override policy controls the priority and aging of a task based on the properties and lifecycle of the routed document. Each work queue can have one policy.

If you associated an override policy with a document being routed in the workflow, the system uses the override policy rather than the original work queue policy. Override policies can be used when different document types with different processing needs are routed through the workflow.

## **Process Integrator**

Several new activity templates in Process Builder extend and simplify Process Integrator messaging functionality. These delivered activity templates enable seamless use of Process Integrator messaging functionality from within Process Builder, and require minimal configuration without custom development or processing. The new inbound and outbound messaging activity templates handle the following types of messages:

- HTTP
- FTP
- SMTP
- JMS (Java Message Service)

## **Data mapper enhancements**

Process Builder activity templates can be configured to enable Process Integrator to map message requests and responses to an XML schema. Additionally, message translators can be used to transform the outgoing or incoming messages.

## **Inbound process initiation**

Process Integrator supports the initiation of new process instances using multiple initiate activities within process templates. New activity templates are provided for Process Builder that initiate a process instance through inbound email, FTP, HTTP, and JMS protocols.

## Email Inbound activity templates

Process designers use the Email Inbound activity template to configure Process Integrator to poll an existing SMTP server inbox using either IMAP or POP3. The configuration includes options to delete the email message on the source or move it to a different folder after processing.

## HTTP Inbound activity templates

Process designers use the HTTP Inbound activity template to configure Process Integrator to expose a URL as an integration end-point. The URL can be configured to accept parameters and to send a custom response that can include process variables and packages.

## SMTP Outbound activity template

The SMTP activity template supports multiple mime types (plain/text and text/html). Variable substitution in the message header and body works with the data mapper to enable the creation of email containing process data.

## HTTP Outbound activity template

Process designers use the HTTP Outbound activity template to configure the methods GET, POST, and PUT to a URL. The HTTP response can then be mapped to process variables or packages.

## Process Engine

The Documentum Process Engine is now a separate installation and is a prerequisite for Process Builder.

## Business Activity Monitor

For Documentum 6, BAM provides enhanced visibility into process queues and generates reports against queue behavior in real time. It also generates alerts when queue thresholds are exceeded. Report designers are now able create BAM reports by role or by a specific task performer.



## Triggering a response process

Alerts identify problems, issues, or watch-events in executing business processes. In 5.3 SP5 an alert triggers an email message. For Documentum 6, an alert can trigger a new process in the Process Engine.

## IBM WebSphere support

For Documentum 6, BAM can be configured using IBM's WebSphere server and portal.

## Process Analyzer

For Documentum 6, Process Analyzer includes Mobile Process Analyzer and Visio Interpreter.

### Visio Interpreter

For Documentum 6, Visio Interpreter is part of Process Analyzer.

## Process data model

Process Builder provides an enhanced definition of its packages to include Structured Data Types (SDTs). When a process is opened from Process Builder, a corresponding business object definition is created and its usage for each data field is assigned.

## Seamless interaction with Process Builder

In SP5 interactions between Process Analyzer and Process Builder resulted from the import and export of XPDL files. For Documentum 6, Process Analyzer provides options to Share Process with Developer or Open Process from Developer from the File menu. The actual import/export mechanism is hidden from Process Analyzer users.

## Fault handlers

Fault handler activity templates, which are new in Process Builder, are supported by Process Analyzer. When Process Analyzer opens process containing fault handler activities, they are established in Process Analyzer with a corresponding User Defined Resource type. In addition, the fault handler activities are identified in process diagrams in both the graphical and icon views.

## Process Connector Pack

Process Connector Pack includes process connectors for the following:

- MS BizTalk
- BEA WLI
- BEA AquaLogic BPM
- TIBCO Staffware
- BPEL

## Process Services for SAP

Process Services for SAP is a new product which enables sophisticated SAP content management applications to be constructed using Process Builder (formerly Business Process Manager). This enables SAP business processes to be driven by and integrated with Documentum Transactional Content Management or other content management applications.

## TaskSpace

**Note:** This product is currently targeted for a Q407 release.

TaskSpace is new Documentum 6 product for Transactional Content Management. TaskSpace is specifically designed for users who have to perform a large number of tasks, and who have to find documents and folders in very large repositories. TaskSpace:

- Provides a streamlined user interface built for high volume task processing and document retrieval
- Offers integrated document viewing with annotations
- Enables the management of high-volume queues
- Works in conjunction with Forms Builder to allow application designers to quickly and easily create tailored applications.
- Serves as an alternative to Webtop for process-oriented applications

## Efficient task processing

Whether users pick work items from multi-user queues or have them automatically assigned, TaskSpace makes it easy to process tasks. Application designers can lay out task screens with all the information necessary to process the work, whether that information is in data fields or documents. This means less navigation per task and more productivity as a result.

## Searches

Users can quickly find documents and folders in even the largest repositories by leveraging TaskSpace searches. Searching is designed with the non-technical user in mind, so searches with many terms don't require any knowledge about the underlying storage model. It's easy to configure search terms and result columns graphically to match individual business needs. Application designers can designate a special, predefined global search that's accessible at all times for frequently used queries.

## Documents and folders

Since documents are central to many business processes, TaskSpace provides document viewing and annotation through integrations with several viewing technologies, and by utilizing the new Documentum Image Services product. Users can view documents side-by-side with any relevant data, whether it is stored on the document or contained in an external system. TaskSpace applications can also leverage folders to organize groups of documents such as customer accounts, claims, and cases. Because of the flexible nature of Documentum's repository, the same document(s) can be part of many different folders to ensure the right view of the information for the right user and/or business process.

## Processes and forms

The main way for a user to initiate a process in TaskSpace is to simply fill out a form and submit it. All the data they enter can be displayed to subsequent task processors, in reports, and even to guide process execution. These processes can be simulated, created, and monitored with products from Documentum's Process Suite.

## Queue management

Supervisors responsible for groups of users processing tasks can keep a close eye on their team's workload by using the queue management features in TaskSpace. It's possible to monitor queues, assign and reassign work, add and remove users from queues, and more. Managers can easily balance workload among teams and team members, as well as spot issues with queue overloads and processing delays.

## Configurable applications

Creating TaskSpace applications is easy due to its highly configurable nature. An application designer can rapidly construct a new role-based application from configurable components such as task lists, documents, folders, and searches. In addition, TaskSpace makes it easy to share components between applications and derive new applications from existing ones.

Components are configured through the extensively enhanced Forms Builder tool, which enables drag-and-drop layout of controls.

## Rescan

If a user encounters a document that's impossible to read or suspects that the document is missing pages, the user can send a rescan request to Captiva InputAccel. Assuming the original was retained, the rescanned document can either serve as a replacement or revision for the unreadable document, or it can become an entirely new document. This ensures the user quickly and easily gets the information they need to continue with their work.

## Tab order / hot keys

Users who use TaskSpace to process a large number of tasks daily will be glad to know that all actions can be triggered through hot-keys. Since there's less of a need to take their hands off the keyboard to use the mouse, they'll be able to get their work done more quickly.

## Certifications

TaskSpace will support the standard Documentum platforms with the exception of browser clients running on Mac or Linux. The choice of third party viewer may further limit the choice of browser clients.

## Deployment information

TaskSpace requires the following products:

- Forms Builder
- Process Engine
- Process Builder

TaskSpace has the following restrictions and requirements:

- TaskSpace does not run on Content Server 5.3.
- TaskSpace does not currently support PDF Annotation Services.
- Documentum Image Services is required for full Adobe Acrobat Reader support as well as some third-party viewer integrations.

## Document Image Services

**Note:** This product is currently targeted for a Q407 release.

Documentum Image Services is a new Documentum 6 product that provides support for image-oriented documents. It is designed to support a wide range of third party viewers.

## **Page serving**

Users shouldn't have to wait for a long document to download entirely before viewing it. Documentum Image Services can return pages one at a time for TIFF and PDF formats. This enables supported viewers to display the first page while the remainder of the document continues to download.

## **Annotation**

Documentum Image Services enables third party viewers to save annotation files along with documents.

## **Distributed caching**

Documentum Image Services is compatible with installations of Branch Office Caching Server, so you can provide page serving and annotation in a distributed configuration.

## **Deployment Information**

Documentum Image Services does not support page serving on secure PDF files. Documentum Image Services doesn't support PDF Annotation Services.

# Interactive Content

## Rich Media

### Content Transformation Services

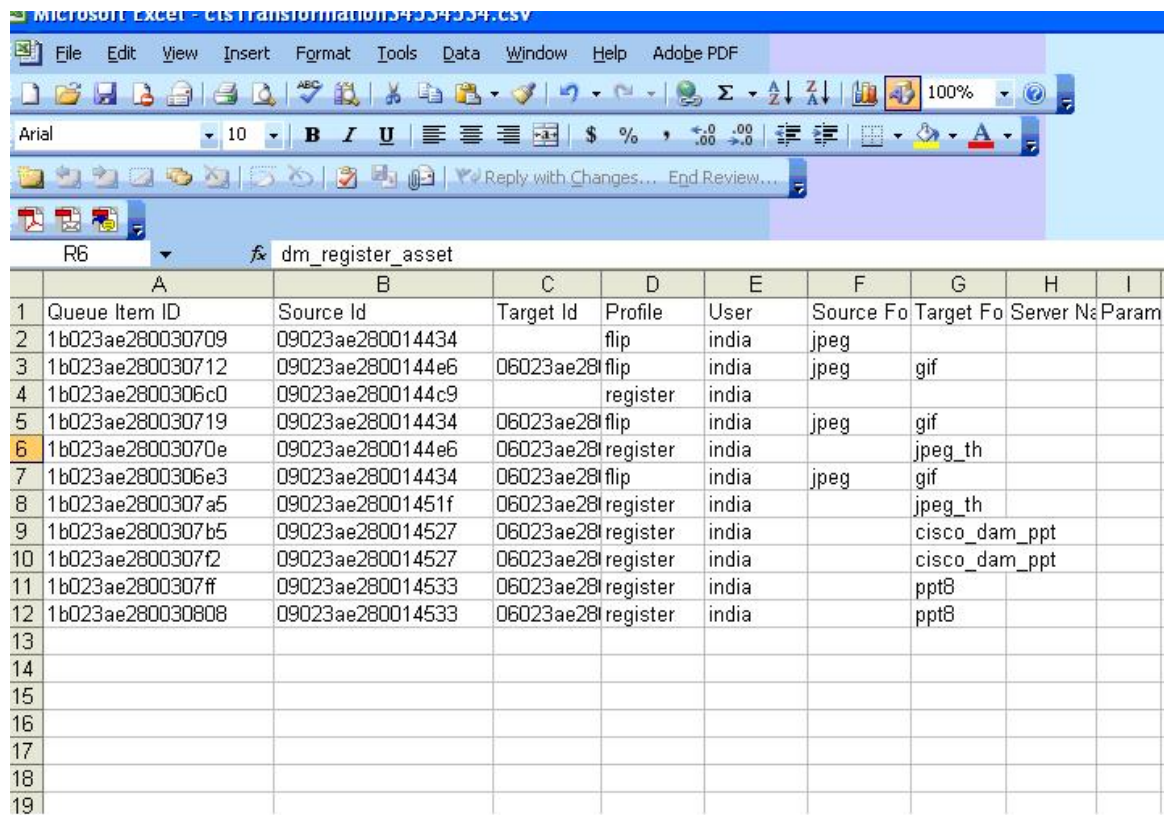
New Documentum 6 features for Content Transformation Services (CTS) apply to all products in the CTS suite. These features include expansion and enhancement of administrative tools, and developer support. The CTS suite includes the following products:

- Document Transformation Services
- Advanced Document Transformation Services
- Media Transformation Services
- Audio/Video Transformation Services
- Medical Imaging Transformation Services
- XML Transformation Services

### CTS Reporting Tool

The CTS Reporting Tool provides detailed information about transformation type, volume and error events. Data such as CTS product performance, plug-in usage, and requests by users enables customers to monitor and analyze their transformation services and can assist with load balancing strategies. Reporting can be logged for a configurable time frame. The resulting information is retained in the repository and is viewable as a Microsoft Excel spreadsheet through Digital Asset Manager. Users can view their own CTS reporting data.

Figure 5. Final report

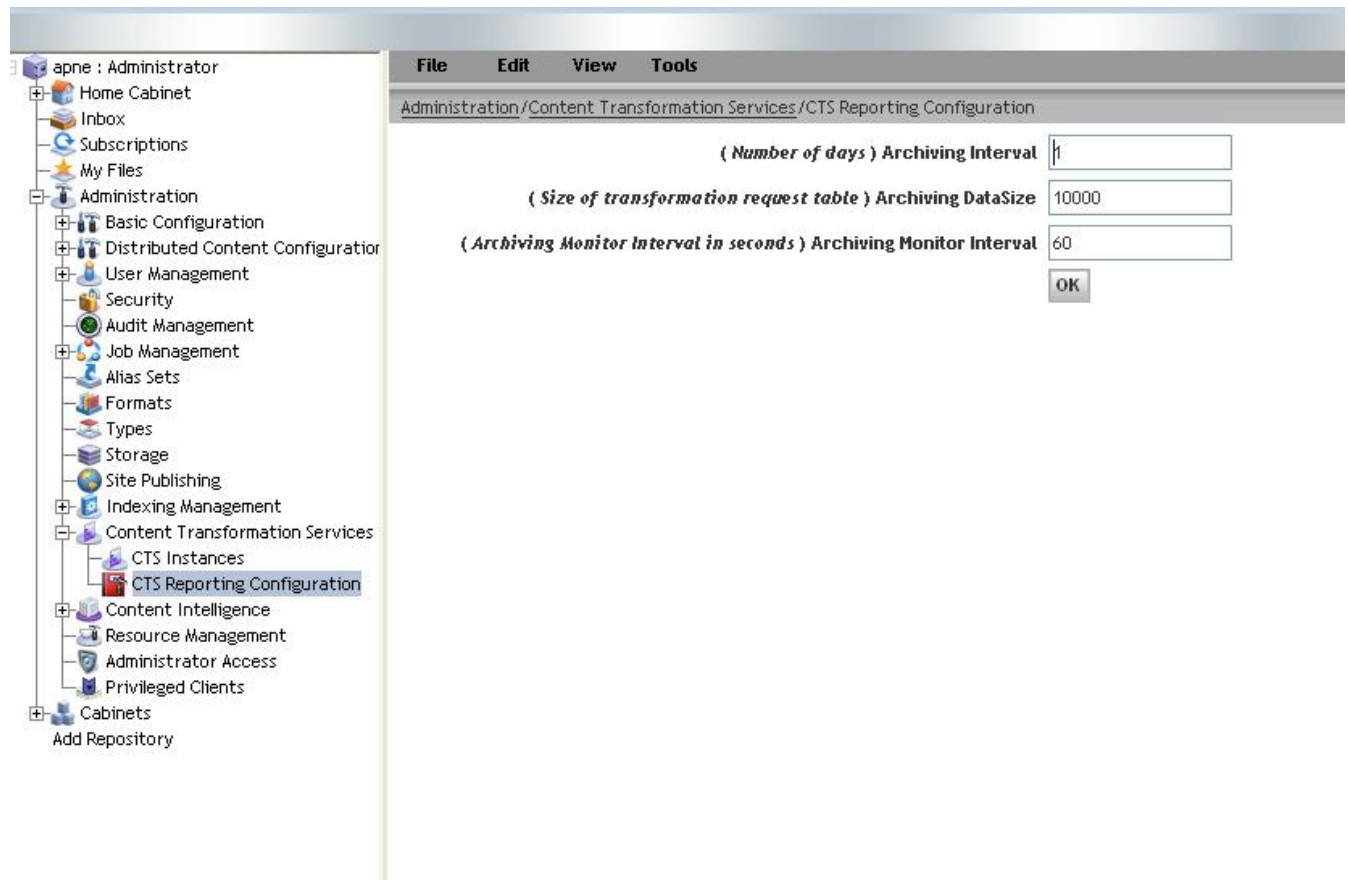


The screenshot shows a Microsoft Excel spreadsheet titled 'Microsoft Excel - CTS Transformation34354354.csv'. The formula bar shows 'dm\_register\_asset'. The spreadsheet contains a table with 10 columns (A-I) and 19 rows. The data is as follows:

	A	B	C	D	E	F	G	H	I
1	Queue Item ID	Source Id	Target Id	Profile	User	Source Fo	Target Fo	Server Na	Param
2	1b023ae280030709	09023ae280014434		flip	india	jpeg			
3	1b023ae280030712	09023ae2800144e6	06023ae2800144c9	flip	india	jpeg	gif		
4	1b023ae2800306c0	09023ae2800144c9		register	india				
5	1b023ae280030719	09023ae280014434	06023ae280014434	flip	india	jpeg	gif		
6	1b023ae28003070e	09023ae2800144e6	06023ae2800144e6	register	india		jpeg_th		
7	1b023ae2800306e3	09023ae280014434	06023ae280014434	flip	india	jpeg	gif		
8	1b023ae2800307a5	09023ae28001451f	06023ae28001451f	register	india		jpeg_th		
9	1b023ae2800307b5	09023ae280014527	06023ae280014527	register	india		cisco_dam_ppt		
10	1b023ae2800307f2	09023ae280014527	06023ae280014527	register	india		cisco_dam_ppt		
11	1b023ae2800307ff	09023ae280014533	06023ae280014533	register	india		ppt8		
12	1b023ae280030808	09023ae280014533	06023ae280014533	register	india		ppt8		
13									
14									
15									
16									
17									
18									
19									

Usage tracking is configured in Documentum Administrator according to the following options:

- Reporting on/off, to select whether the data is collected or not.
- Archiving on/off, to select whether older data is stored in a text file, or deleted. Archived data is stored in the repository.
- Archiving time frame (in number of days), which relates to the frequency of storing the data (when archiving is set to on) or clearing the data (when archiving is set to off).

**Figure 6. Archived reporting**

## Queue management

The Queue Management feature provides customers with a mechanism for monitoring work load for work queues and administrating queues. This feature allows users to view or delete pending transformation requests. Administrators can manage the queue for all users and change the priority of transformation requests as needed.



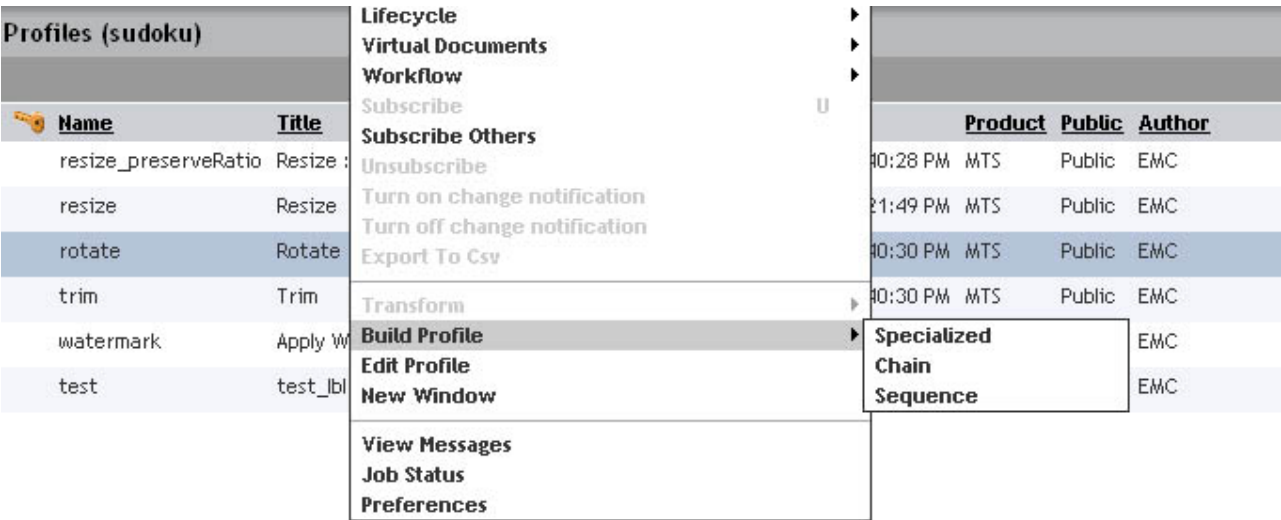
Figure 7. Tracking transformation requests



## Profile Editor

The Profile Editor is an easy to use tool that allows customers to do their own profile management. Custom transformation parameters can be configured by the system administrator with the Profile Editor utility. Parameters can be easily configured and hard-coded, if required. Both user and system profiles can be handled in the Profile Editor.

Figure 8. Building profiles



## Web services

The CTS API is wrapped within a web services architecture. The underlying objectives of this feature are:

- To support the developer community by expanding the integration potential of CTS.
- To offer synchronous transformations.

The web services interface exposes methods that can take a transformation request with no attachment to the Documentum platform. Use cases for this include the following:

- Content is passed directly to CTS and the result is returned directly to the caller.
- Content is passed directly to CTS and the result is stored in the repository.
- Content is retrieved from the repository by CTS and the result is returned directly to the caller.

## Profile filtering

The profile filtering utility has been enhanced to include customized profiles when users create a rendition. CTS filters profiles from the list of available profiles that apply to the source object when creating new renditions on a source object. The Client collects all necessary parameters for the transformation, and validates the parameters based on the validation rules given on the transformation profile.

## Digital Asset Manager

This is the list of new features planned for the Digital Asset Manager.

### IP rights management

Digital Asset Manager allows for the capture and communication of Intellectual Property Rights associated with one or more assets. Common end users are presented with the interpreted rights and restrictions of an asset, while specialized business users have access to the supporting documentation as part of the IP Rights Management feature set. The goal of IP Rights Management within the Digital Asset Manager is to provide basic support for a simple rights model, and also to provide a framework into which a customer could easily integrate more sophisticated extensions and other third-party rights tools.

### Usage tracking

As part of IP Rights Management, Digital Asset Manager can be configured to capture usage information from any user that downloads the asset from the repository. This information is tracked per asset for quick review and is available for more comprehensive reporting.

## **Loupe display**

Digital Asset Manager provides a new loupe display to provide a magnified inline preview pop-up of assets listed in folders and search results. The loupe display pops up when the mouse pointer hovers over the thumbnail of the image. In grid list mode when the thumbnail column is off, the loupe can be configured to pop up when the mouse pointer hovers over the assets row of information.

## **Thumbnail-only mode**

Users are able to configure the Digital Asset Manager to show lists of assets in one of three modes: grid, lightbox, and thumbnail-only. This new mode allows for the maximum number of assets to fit on one page, regardless of what information interests the user.

## **Transformation indicator**

Digital Asset Manager identifies assets, that are currently undergoing a transformation, to allow users to quickly assess how an asset is currently being used. If an asset is being transformed by CTS, the indicator appears beside the assets name in any folder or search result listing.

## **Transformation wizard**

The Transformation Wizard has been updated to present a more intuitive flow to the user, as well as to incorporate advanced transformations. Full object definitions can now be presented to the user so that custom and mandatory information can be captured. Custom transformations now have more control over how and where new transformations are stored.

## **Extra enhancements and feature integrations**

Digital Asset Manager includes all upgrades added to the Web Development Kit (WDK) platform, including the new UI and presets. Core context menus have been extended to include DAM-specific functionality like transformations and collections. New Content Transformation Services features, such as queue management and profile editor, are available via the Digital Asset Manager Interface. Digital Asset Manager also exposes Documentum Collaborative Edition features such as data tables and calendars.

## **New certifications**

Digital Asset Manager supports content created using Adobe Creative Suite 3 and Office 2007, including PowerPoint. Fail-over in clustered environments is also supported for this release.

## Authoring Integration Services

Documentum 6 new development for AIS is mostly with File Share Services.

All Authoring Integration products now support content created using Adobe Creative Suite 3 and Office 2007.

### FTP Services

Documentum 6 provides no new features for FTP Services.

### File Share Services

**Note:** This product is currently targeted for a Q407 release.

File Share Services has been re-architected with renewed focus on scalability for enterprise environments and improved user experience.

### Authoring cache

The authoring cache enables File Share Services to control both ends of the communication channel with improved reliability. The footprint on the end-users machine now includes a cache tuned for remote authoring. This cache provides local editing performance without network interruption or risk of data loss. Content is still controlled by the repository and none of the referenced content linked via FSS is affected.

### Two-phase commit

The authoring cache allows for two-phase commit in the FSS. Users can save local back-ups of content from their authoring application. By default, users need to explicitly store content in Documentum when its ready to be committed. This makes integration possible with any tool that understands the file system.

### Support for distributed content

File Share Services now supports distributed content. FSS can retrieve thumbnails directly from the Documentum Thumbnail Server, alleviating the need to download the entire file for OS-level processing. FSS is location-aware and can use Branch Office Caching Services (BOCS) to access content from the closest cache.

### New UI and tighter OS integration

File Share Services now has a tighter integration with both Windows and Mac operating systems. The Connection Manager (Connection Broker?) has been replaced in favor of quick connections

from Mac Finder and Windows Explorer. Users are also be able to quickly identify uncommitted content and have it stored into the repository.

## **Reference deployments and benchmarks**

Benchmarks obtained from a reference deployment are available to help tune new installations.

## **Extension framework**

File Share Services provides a familiar interface with the repository based on upon standard file system conventions. FSS also supports exposing Documentum services, such as search, versions and renditions, to the end user. This extension framework is used internally by the FSS team to provide context menu options like locking documents and making a document a record. Developers can follow this framework to provide FSS extensions in the same manner.

# Web Content Management

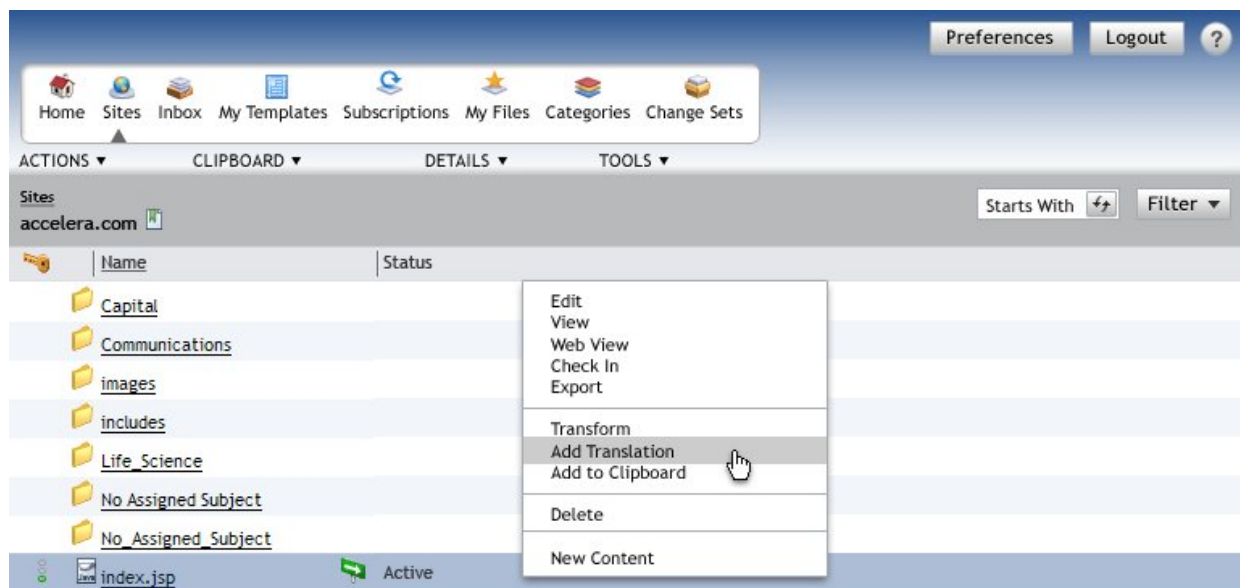
## Web Publisher

Web Publisher 6 has focused on enhancing the user's experience by making the product easier to use and more efficient. Two key improvements for this release are the user interface changes and a new feature called Site Wizard.

### User interface enhancements

There are a number of user interface enhancements available in Web Publisher 6.

**Figure 9. Web Publisher UI enhancements**



### Right-click menus

Right-click menus are now available with Web Publisher and Web Publisher Contributor. This is a new feature that allows a user to select a file, and then use the right-click menu to choose an action. This replaces the use of checkboxes to select content.

Multiple files can be selected by use of the control key, and a range of files can be selected by using the shift key. Below is an example of selecting multiple files.

**Figure 10. Multiple file selection**

## Keyboard shortcuts

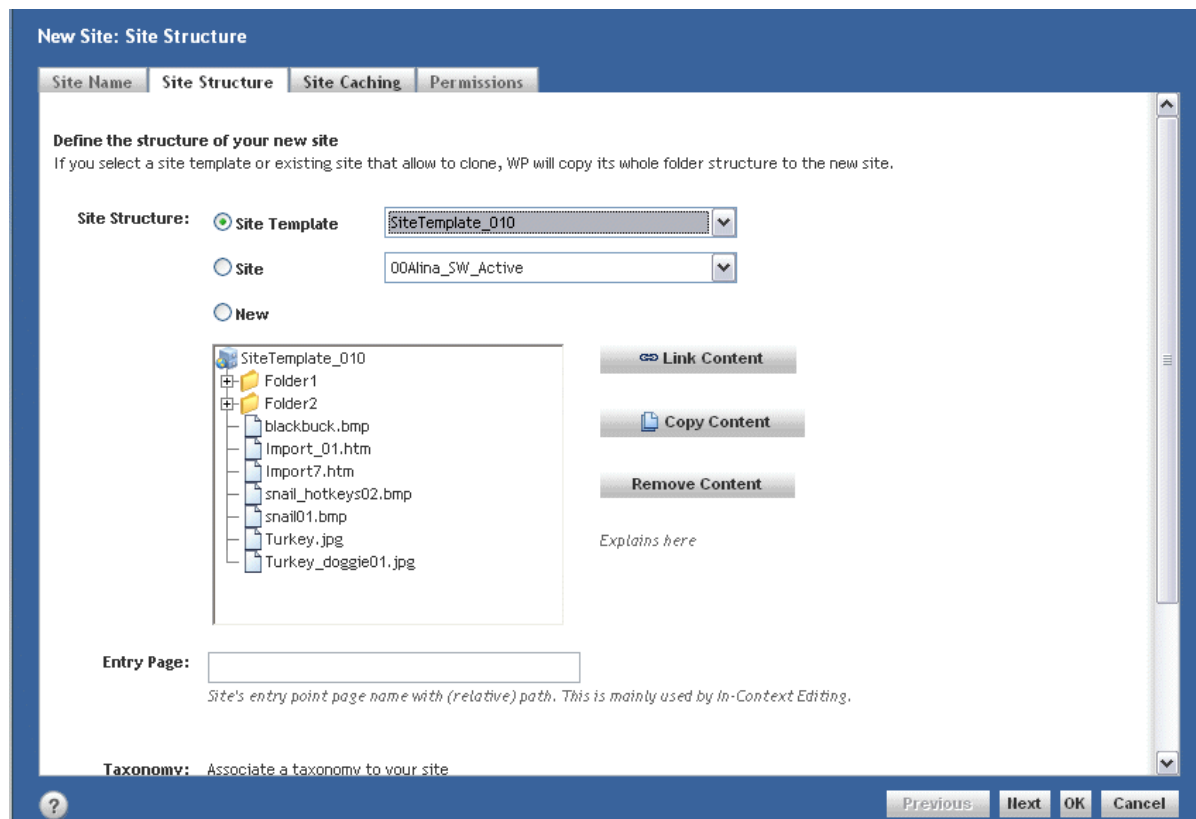
Keyboard shortcuts are now available with Web Publisher and Web Publisher Contributor. This is a new feature that allows a user to press a series of keys (for example, Shift+e for export) to perform an action. A list of available keyboard shortcuts is provided in the documentation. For power users, this enhancement greatly improves the usability of the product by saving time and keystrokes.

The keyboard shortcuts apply to Windows and Macintosh operating systems only.

## Site Wizard

One of the key concepts when implementing a WCM system is the ability to consolidate the many sites a company has under one infrastructure. Site Wizard is a feature that helps facilitate this concept and make the entire process of creating a new site efficient and less complex.

Site Wizard prompts the user for all information needed to create the site structure, taxonomy structure, and site properties. When creating a new site there are many tasks to be performed, and each task has sub-tasks. The process is fairly well documented, but if one task is forgotten or done incorrectly, it can be difficult to get back on track and to resolve the issue. This wizard takes the user step by step through all of the tasks so that the tasks are not only completed, but are also largely performed in the background so the user does not have to perform the steps manually.

**Figure 11. Using the Site Wizard**

Site Wizard allows users to create new sites from:

- Existing sites
  - A published site (Web Cabinet) can be marked as a site that can be used as a template.
- Site templates

This is a new type of site that can be used to create new sites. These are sites that are not published but rather used only as a starting framework for new sites. Site Templates contain the structure as well as content such as Javascript files, logos, CSS files, JSP or ASP files, and other content that a company wishes to use over and over again.

Site structure can be replicated and a user can choose if content should be linked or copied into the new site. Site caching configurations can also be created for the new site.



**Figure 12. Site caching**

**New Site: Site Caching**

Site Name | Site Structure | **Site Caching** | Permissions

☒ Create Site Caching Configurations

\* Indicates required information

Publish State: ☒ WIP ☒ Approved ☒ Staging ☒ Active

Language:

Format:

Target Host Name:  \*

Target Port:  \*

Connection Type: ☒ Secure ☐ Non-secure

Root Directory:  \*

---

User Name:  \*

Password:  \*

Confirm Password:  \*

? Previous Next OK Cancel

## Web Publisher Editor

The Web Publisher Editor will embed the newest version of the Ephox EditLive editor 6.0. This version of the rich text editor includes:

- Accessibility - This command allows the user to check their content against the [W3C Accessibility Compliance Guidelines](#). The dialog allows users to view the precise instances in their content where the W3C guidelines are not met, and provides links to the W3C website regarding the specific guidelines.
- Table Autofit - Fit to Content command. Enables users to automatically resize the table column widths to fit the content. Note that this does not resize the table, just the columns.
- The content preservation functionality is enabled by default. This functionality preserves editor content during a single browser session. In the event that the user browses away from the page by going Back, Forward or to another URL, EditLive! will cache their content for a time if they return to the same editing URL.

Content is only cached while the relevant instance of the Java plug-in is running. If the browser crashes or the user closes the browser, content will not be preserved and cannot be retrieved by EditLive!.

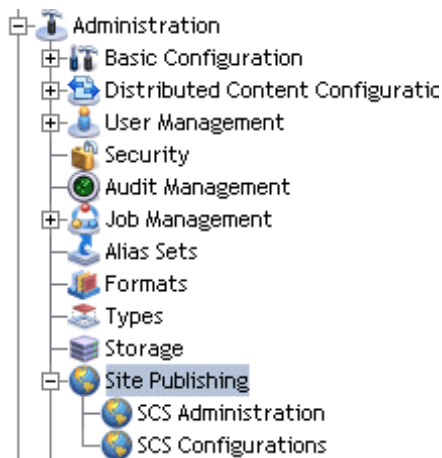
## Site Caching Services

### Eliminate need for webcache.ini on SCS source

Site Caching Services (SCS) 6.0 stores publishing information in the repository instead of the webcache.ini file, to better serve multi-server configurations and multiple load balanced environments. All site publishing configuration parameters of SCS are represented in repository objects which can be edited and viewed through Documentum Administrator (DA).

The Administration/Site Publishing node in DA now includes two sub-nodes: SCS Administration and SCS Configurations. Settings that are common to all site publishing configurations in a given repository are stored in the new SCS Administration sub-node.

**Figure 13. Site publishing nodes**



Many parameters that were previously stored in webcache.ini can be set as extra arguments for each site publishing configuration, or for the repository.

### Optimize full refresh publish recovery

The full refresh publish is intended to generate the entire site on the SCS target system. This is a time-consuming operation. In the past, if a full refresh publish did not complete successfully, the operation had to be repeated. This version of SCS includes a full refresh publish recovery that will reuse content already fetched if it has not changed. This greatly reduces the time required for subsequent full refresh publish operations.

### High availability and disaster recovery

SCS is a mission critical application for most customers. Any downtime of the SCS source/target has an adverse effect on the website and hence needs to be reduced. One of the ways to insure always available status is to run the SCS source and SCS target in an HA (High Availability) environment.

The version 6.0 release will certify the SCS source and target against Microsoft Cluster.

## **Addition of a site publishing configuration template**

An SCS Configuration Template is available in the Administration/Site Publishing/SCS Configurations node in DA. This template is pre-populated with default values for site publishing configurations. Users can quickly create new configurations with this template.

## **Email notifications on publish completion status**

Customers can configure email notifications to be sent on publish completion (success, warning, or failure). The notification will be sent to the repository user email address. These notifications can be configured for each site publishing configuration, or it can be set for all publishing configurations in a given repository.

# Compliance

## Documentum Submissions Manager

Documentum Submissions Manager provides the following new features:

- Support for the inclusion of Structured Product Labeling, and SAS, datasets into the eCTD.
- Auto check-in of virtual documents after changes such as the addition of content.
- UI Improvements from Documentum 6 platform release i.e. better Drag and Drop.

## Records Manager

Records Manager for Documentum 6 improves existing functionality and supports the overall look and feel of Documentum 6 clients. New features for this release include the following:

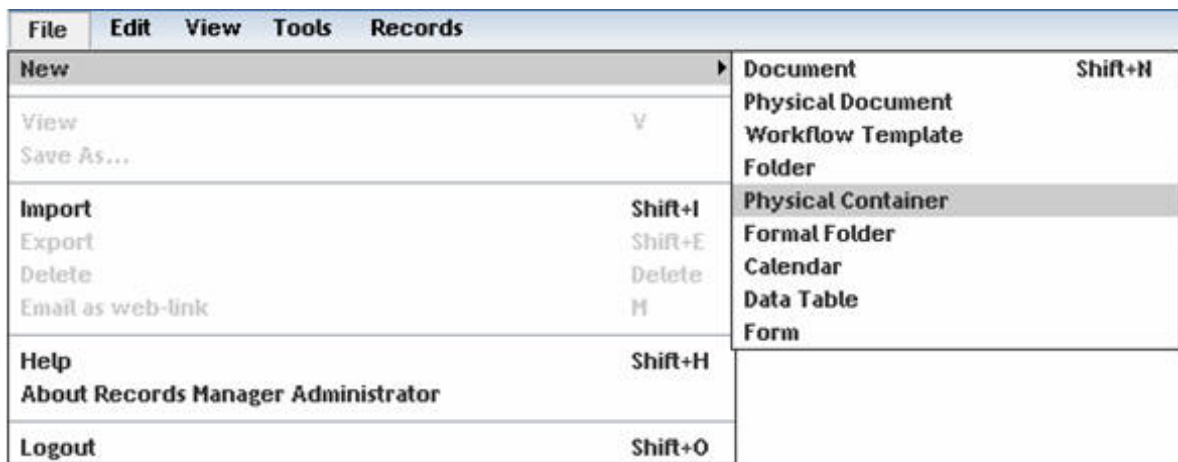
- Physical Records Manager (PRM) for paper support (management of physical objects)
- An initial developer-supported API
- Integrations with Microsoft Office and Centera
- A migration path from 5.3 SP5 and 5.2.5 SP5 clients

## Physical paper support

Records Manager adds capabilities to manage physical objects using PRM. Clients are able to create and manage the following physical items from PRM:

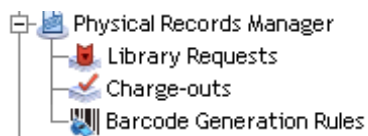
- Physical Documents
- Physical Folders
- Boxes
- Creation of Warehouses which supports locations, bays, bins, and shelves
- Create additional custom defined physical objects
- Barcoding which supports both auto generated, scanned and bulk scanning

Figure 14. Managing physical objects



Physical Records Manager is displayed in the navigation pane as follows.

Figure 15. Physical Records Manager

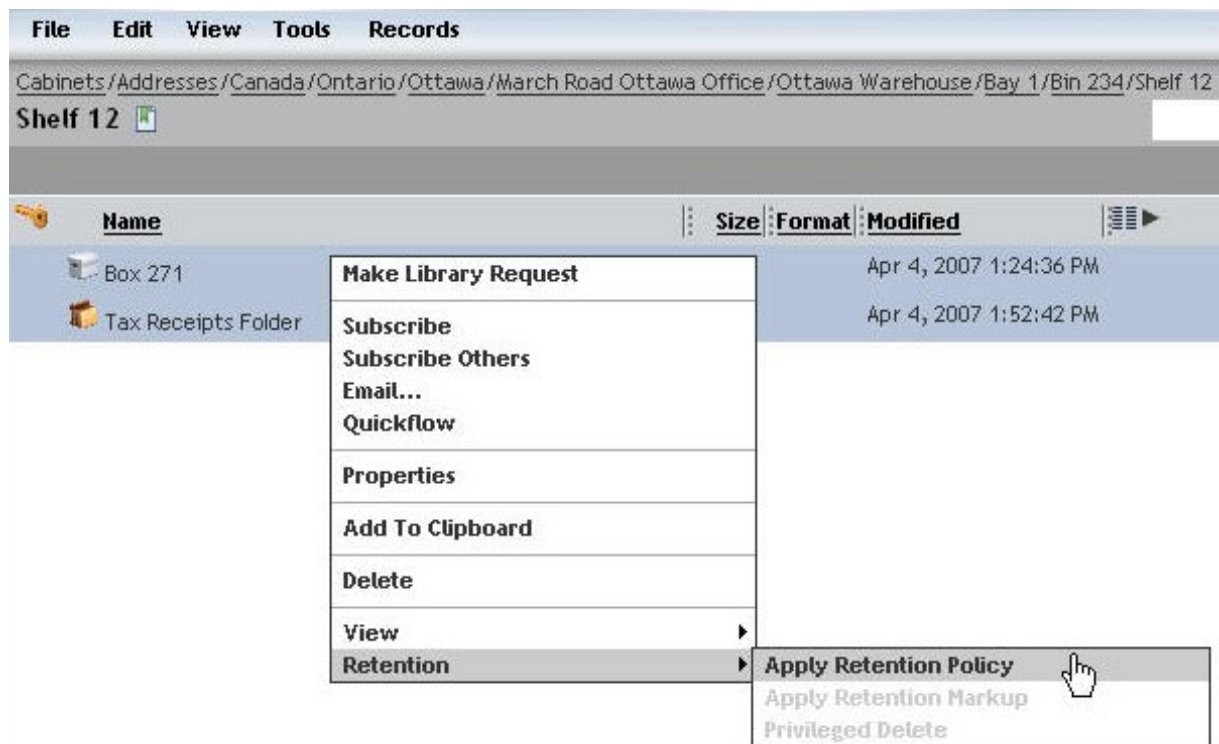


Records Manager provides the following library services for each of these objects:

- Requests
- Charge-In
- Charge-Outs
- Notifications (Overdue, Recalls)
- General paper reporting enhancements

End users are now able to search, browse and request their physical objects in the same client used to manage their electronic documents. End users are able to create and manage their own requests (reservations), reschedule requests, and review request status. Administrators are able to create requests for other users, convert user requests into charge-outs\charge-ins, and create recall or overdue notices for their end users. Administrators are also able to create warehouse structures that specify the bay, bin, and shelf locations of physical objects. Records Manager supports automatic and manual barcoding for locations and physical objects, applied locally or remotely.

Records Manager policies can now be applied to physical objects. There are also some enhancements to the Retention and Disposition module to support physical object disposition.

**Figure 16. Applying retention policies**

## RM API support

A new RM API enables developers with custom applications to apply and remove policies and declare formal records. Additional API functionality is planned for future releases.

## Migration tools

Records Manager includes data migration tools for 5.3 SP5 clients and 5.2.5 SP5 clients.

## Documentum Microsoft Office activators

Records Manager now supports existing Documentum Microsoft Office integrations such that documents can be moved directly from the Microsoft Office applications into RM and RPS policy-enabled folders (informal record support).

## Retention Policy Services

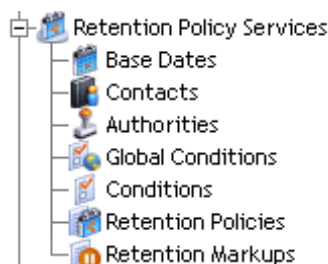
The primary objective of the Retention Policy Services 6.0 release is to continue to enhance the overall user experience by improving the existing functionality of RPS and by supporting the overall look and feel of the Documentum 6 release. We have added in new features such as our support for Paper management and enhanced our RPS API support. We also have added in and enhanced some of our internal integrations such as SharePoint, Microsoft Office, and Centera.

### RPS global conditions

The RPS 6.0 release now supports the ability to create and apply a Global condition. A global condition is applied to the whole retention policy as opposed to standard conditions which are applied to each individual phase of the retention policy. Once a global condition is fulfilled, all of the content associated is automatically promoted to final phase as required by many of our certifications.

Global Conditions is displayed in the navigation pane as follows.

**Figure 17. Global conditions**



### RPS API support

The RPS 6.0 release, provides increased developer support with a new RPS API that allows developers with custom applications to apply and remove RPS policies.

### Centera integration

The RPS 6.0 release supports integration through the Documentum Content Services for EMC Centera. This integration now supports the ability to push an event date from RPS to Centera and will continue to be enhanced over future service pack releases to support holds.

## **Documentum Microsoft Office activators**

The RPS 6.0 release supports the existing Documentum Application Connectors such that documents can be moved directly from the Microsoft Office applications into RM and RPS policy enabled folders (informal record support).



# Archiving and Enterprise Integrations

## Archive Services for SAP

**Note:** This product is currently targeted for a Q307 release.

Archive Services for SAP includes these new features:

- Standard deployment model for installing types and configuration objects, using DocApps. The model is common across AS SAP and CS SAP products
- Simplified installation via WAR file deployment, flexible path settings, and improved sandboxing of parallel applications
- Internationalization by means of Unicode support
- Japanese localization support for administrative client application
- Customization support for SBOs (using event-based services) including the trigger of Process Suite events after archiving events

## External Viewing Services for SAP

**Note:** This product is currently targeted for a Q307 release.

External Viewing Services for SAP is an add-on product to Archive Services for SAP. It enables the simplified viewing of SAP archived reports and business documents by external (non-SAP) users. It includes these new features:

- Standard deployment model for installing types and configuration objects, using DocApps. The model is common across AS SAP and CS SAP products
- Simplified installation via WAR file deployment, flexible path settings, and improved sandboxing of parallel applications
- All-Java implementation
- Internationalization by means of Unicode support, including print list renditioning
- Japanese localization support for administrative client application

## Content Services for SAP

**Note:** This product is currently targeted for a Q307 release.

Content Services for SAP enables content linking, data replication and processing integration with SAP applications. It includes the new features described below.

## Integration for image clients

This integration uses the new Image Client components, based upon WDK. It will enable integration with supported 3rd party imaging clients (not included). The Image Client integration enables the following:

- Integration with supported 3rd party viewing and annotation applications, such as Daeja and Brava
- WDK-based components allow for more flexible configuration, customization and installation
- Consistent annotations support across SAP and Documentum applications
- BOCS support for distributed content optimization
- Enhanced screen layout control
- Existing CS SAP viewer, Dmview, can still be used

## **Other new features**

- Standard deployment model for installing types and configuration objects, using DocApps. The model is common across AS SAP and CS SAP products
- Simplified installation via WAR file deployment, flexible path settings, and improved sandboxing of parallel applications
- Internationalization by means of Unicode support
- Japanese localization support for administrative and end-user client applications

# Documentum Platform

## Content Server

### BEA WebLogic application server

The application server that Content Server installs for its internal use (as the Java Method Server among other uses) is a BEA WebLogic 9.2 server, rather than an Apache Tomcat server as in previous releases.

## LDAP

The following new features have been added for LDAP:

- Failover support for user authentication is added
- UNIX platforms now support the renaming operation
- Connection attempts to the primary authentication LDAP server are now configurable.
- Ability to map LDAP attributes to repository properties is enhanced with the ability to map multiple LDAP attributes to one property and the ability to use expressions to define the mapped value
- Support extended to more directory servers:
  - IBM Tivoli Directory Server
  - Novell eDirectory
  - Microsoft ADAM

## Auditing enhancements

In previous releases, when the value of an audited property was changed, the audit trail recorded the *new* value of the property but did not record what the *previous* value was. You can now audit both previous and new values of audited properties. A new controlling property in the dm\_docbase\_config object and a new property in the dm\_audittrail and dmi\_audittrail\_attrs objects support this feature, which is enabled by default.

## Full-text indexing enhancements

The index server can index files in PDF7 and Office 2007 formats. The documentation on the full-text indexing subsystem includes improvements in usability, deployment, and the installation of full-text components.

## Processing DQL update with BOF

A change to the DQL runtime behavior makes BOF TBO and aspect entities aware when a DQL CREATE OBJECT, DELETE OBJECT, or UPDATE OBJECT has been executed. BOF-aware DQL enables execution of BOF business logic/customization using DQL and works with create, update, and delete object DQL statements. Overriding methods in BOF entities will behave the way they do when objects are created, deleted, or updated by a DFC client. CREATE GROUP, ALTER GROUP, and DROP GROUP are not affected by this change.

## Java evaluation of Docbasic expressions

Java evaluation of Docbasic expressions is now performed at runtime.

## Replacement of dmcl.ini

The dfc.properties file replaces the dmcl.ini as the place to define behavioral preferences for clients and applications.

## Migration to new naming standards in dfc.properties

Naming standards for the keys in the dfc.properties file are introduced in this release. As a result, the names of some keys have been changed. However, old names continue to work in this release.

## Reference link implementation is changed

Reference links are pairings of reference objects with either mirror objects or replica objects. They enable cross-repository operations by allowing a user connected to one repository to work on objects in another repository, through the reference link. The implementation of how it is determined which operations affect the mirror or replica object and which affect the source object has been changed.

## Date storage changes for time zone support

In new repositories, all date values are stored as UTC (Coordinated Universal Time) format. Repositories upgraded from prior releases continue to store date values in server local time.

## Type caching implementation changed

Changes to custom object types or to types whose names begin with dmc are dynamically cached, which means that the changes are visible immediately to applications and users. This feature eliminates the need to restart a session to see changes. For web-based applications, this eliminates the need to restart the application server to make the changes visible.

**Note:** Types whose names begin with dmc are object types installed by Documentum client products.

Changes to object types whose names begin with dm, dmi, or dmr continue to be cached in the previous manner, they are not dynamically cached.

## CHANGE...OBJECT statement

Previously, using the CHANGE...OBJECT statement was restricted to custom object types. For Documentum 6, the statement may be used to change any type so long as the remaining restrictions (listed in the *DQL Reference Manual* description of CHANGE...OBJECT) are not violated.

## LDIF file changes

Use of true, false, 1, or 0 as values for Boolean attributes in the LDIF file is deprecated. Also, the list of accepted attributes in the file has been updated.

## New extended permission

The change\_folder\_links permission is a new extended permission that allows users to link an object to a folder or unlink an object from a folder when folder security is enforced. This is comparable to having Write permission on a folder under folder security enforcement.

## GROUP\_LIST\_LIMIT DQL hint

The GROUP\_LIST\_LIMIT hint resets the default group list limit for a query. The group list limit determines how many groups the generated SQL query can reference for permissions checking before using a subquery instead. Using this query may enhance query performance.

## Trusted Content Services

Documentum 6 provides no new features for Trusted Content Services.

## Content Storage Services

Documentum 6 provides no new features for Content Storage Services.

## Content Services for EMC Centera

### EMC Centera SDK version upgrade

In Documentum 6, Content Services for EMC Centera uses the latest version of the Centera software development kit (SDK) to communicate with the Centera device. Using the Centera SDK 3.1 SP1 provides improved performance and support for HP-UX/Itanium.

### Event based retention

Centera event based retention allows an event to trigger the start of the retention period for content on a Centera content addressable storage system. The content will not be eligible for deletion until an event triggers the start of the retention period and the retention period has expired.

The Centera content addressable storage system enforces content retention at the storage level. The retention period for the content determines how long the content must be retained. In some cases, for example when the retention period is not known at the time the content is stored, the retention period begins after the content is already stored on Centera. Centera will prevent deletion of content until the retention period is known and expires.

The retention period is based on an event. For example, there may be a requirement to retain a mortgage document for ten years after the mortgage is approved. The mortgage approval is the event that triggers the start of the ten year retention period. In this case, the mortgage document will be retained on Centera until the ten year retention expires. After the ten years, the mortgage document will be eligible for deletion.

Documentum Retention Policy Services (RPS) allows users to apply retention policies to content stored in the Documentum repository. RPS allows multiple retention policies to be applied to a single object in the Documentum repository. For Documentum 6, if a retention policy contains conditional events and all those events have been triggered, it is not possible to apply a subsequent retention policy to the same object.

The customer must have Centera Governance Edition or Compliance Edition Plus clusters with the Advanced Retention Management license. The Centera clusters must be running CentraStar v3.1 or above.

## Branch Office Caching Services

Documentum 6 introduces major enhancements for supporting distributed configurations. Certain configurations that previously supported only read operations now support write operations as well.

The Accelerated Content Services (ACS) server and Branch Office Caching Services (BOCS) server can synchronously write content to a repository. BOCS can also asynchronously write content to a repository. Synchronously writing content ensures that all users at all network locations have immediate access to the content. Synchronously writing content also improves performance of import and check-in operations, because remote users do not need to wait for the content to be uploaded to the central site.

A new component, Documentum Messaging Server (DMS), provides message routing to support asynchronous communications between client applications, BOCS servers, and ACS servers. It is installed on a separate host machine within a distributed configuration.

Content can be pre-cached on BOCS servers using new BOCS caching jobs. This feature enables you to cache frequently requested content on the BOCS server site prior to a request for that content. The jobs can be run as frequently as necessary.

## Documentum Foundation Classes

The C++ DMCL API has been replaced with the Java-based DFC API. These core changes, while extremely significant, are largely transparent to the DFC user. C++ applications that interact directly with the DMCL continue to work as a copy of DMCL continues to be provided. New Documentum 6 features are not available through DMCL, however.

## Full format specifications no longer accepted

DFC methods, such as `setFile`, that previously accepted a full format specification no longer do so. Those methods accept only a format name, such as `txt` or `word`, for the format argument.

## Character string handling improved

In previous releases, if you attempted to set a character string property with a value that exceeded the defined length of the property, DFC quietly truncated the value to the maximum length of the property and then set the property. For Documentum 6, DFC throws an exception instead of truncating the value and setting the property. If you prefer to use the pre Documentum 6 behavior, set the `dfc.compatibility.truncate_long_values` property in `dfc.properties` file to `T`. This property is false by default.

## Aspects, a new BOF module type for developers

Documentum 6 supports aspects, a new framework for extending object behavior and attributes. Aspects are a type of BOF entity that can be dynamically attached to object instances, to provide fields and methods beyond the standard ones for the object type. The extended behavior can include functionality that applies to types across the object hierarchy; for example, an aspect could label objects as retainable or web-viewable, and this single aspect could be applied to multiple distinct object types. Using aspects can speed development and improve code reuse, because the extended attributes and behavior do not alter the underlying type definitions.

You can create aspects and associate them with an individual object or an object type. If you associate them with an object type, the aspect is automatically associated with each new object of the specified object type.

Aspects can also have properties defined for them. Properties defined for an aspect appear to users as if they are defined for the object type of the object to which the aspect is attached.

## JMX management of DfPreferences and dfc.properties

In J2EE DFC-based applications, active settings in DfPreferences and persistent settings in dfc.properties are managed by JMX agent and Managed Bean (MBean) components. The settings are displayed in Documentum Administrator, which separates active settings (in DfPreferences) from persistent settings (in dfc.properties).

## New DFC tracing capabilities and configuration settings.

Tracing is now controlled by entries in the dfc.properties file, rather than the log4j file. Additionally, this release adds multiple new tracing capabilities. For example, you can now set up tracing to trace by user, by thread, and call stack depth. You can also define the format of the tracing file.

## DFC deployment

DFC is deployed with each application or product that requires it, using a standard J2EE deployment strategy. In the new deployment process, the dfc.jar file and related files are packaged in a product's WAR file so that each DFC instance can have its own DFC configuration.

## Documentum Foundation Services

Documentum Foundation Services (DFS) is a new service-oriented framework and API used to develop Enterprise Content Services and consumers of Enterprise Content Services. DFS includes a set of core services that can be used to leverage EMC Documentum Content Server, search, and workflow technologies. DFS technologies include:



DFS technology	Description
Enterprise Content Services	A set of services that provide access to core Content Server platform functionality (for example creating, updating, and fetching objects), as well as extended services, including search and workflow.
Data model	The DFS data model provides a consistent, service-oriented approach to modeling data exchanged in ECM business processes.
Runtime support	Server-side and optional client-side runtime support for DFS services and Java consumers. The client-side runtime support is not required, but it does provide convenience functionality, such as location transparency (the ability to invoke services in local and remote modes), simplified security interface, enhanced UCF content transfer support, as well as convenience Java methods and constructors.
Tools for building custom services	Service build tools based on JAX-WS and Ant, which generate deployable DFS services bundled with runtime support from annotated source code. Services can be developed from SBOs (Service-Based Business Objects) or POJOs (Plain Old Java Objects).
SDK	A software development kit for development of DFS consumers and services, using a Java class library, design-time tools for DFS service generation, as well as sample consumers and a sample service.

**Note:** DFS is not an evolution of the Web Services Framework (WSF). It is a new technology set that completely replaces WSF.

## Service orientation

The design and technical implementation of DFS is grounded in the principles of Service Oriented Architecture (SOA).

The design of DFS services and data model simplifies the process of enterprise application development by aligning the semantics of the both services and data objects to the needs of ECM business logic. This supports rapid, agile application development using business process orchestration tools (such as BPM), and facilitates integration of enterprise content management into a service-oriented enterprise (SOE).

DFS emphasizes service-oriented architecture over web services technology. DFS remote service invocation is implemented using SOAP-based web services, but is designed to keep transport and messaging functionality orthogonal to other aspects of the DFS runtime, which provides for agility in regard to SOA implementation technology as DFS evolves. Web services standards, which are largely mature and well-accepted, provide a language- and platform-neutral layer for transport and messaging (SOAP), an industry-wide standard for expressing a service contract (WSDL), as well as a set of extended standards that are now widely accepted across a broad range of SOA functionality (such as WS-Security).

## Enterprise Content Services

Services created with DFS tools and run using the DFS runtime framework are referred to as Enterprise Content Services. DFS delivers a set of Enterprise Content Services which can be extended with custom services, and which can be consumed remotely as web services, or locally as Java services. The services delivered with DFS provide a service-oriented programmatic interface to Content Server and associated content repositories, as well as to full-text search and workflow technologies.

Platform service	Description
Object	Provides fundamental operations for creating, getting, updating, and deleting repository objects, as well as copy and move operations.
Version Control	Provides operations that concern specific versions of repository objects, such as checkin and checkout.
Query	Provides operations for obtaining data from repositories using a DQL passthrough and structured queries.
Schema	Provides operations that examine repository metadata, enabling caching of repository schema data and offline validation.
Search	An extension to core services providing operations that provide full-text and property-based repository searches.
Workflow	Provides operations that obtain information about available workflow templates and start a workflow.

## Data model

The DFS data model, which is expressed primarily in the service XML schemas, and for convenience as a set of Java client library classes, provides a consistent, service-oriented approach to modeling data exchanged in ECM business processes. The DFS data model is designed with the intent of permitting arbitrarily sized, complex data packages to be passed in a payload to and from DFS services. This allows optimization of the payload size and minimization of costly service interactions with the consumer. The data model also supports loose-coupling by enabling clients to obtain complex data from a service, then cache and process the data independent of connection with the service.

## Service deployment and runtime support

The Enterprise Content Services delivered with DFS, as well as extended service created using DFS tools, are deployed as self-contained EAR files on a provided BEA WebLogic application server. DFS services are installed with Content Server, where they are hosted by the Java Method Server. DFS can also be installed in freestanding mode on a separate application server instance, or on an application server cluster.

## Optional Java client library and runtime

A Java client library and client runtime support can optionally be deployed on the client to provide convenience functionality for Java consumers, including simplified security and content transfer interfaces.

The client runtime allows services provided by DFS, as well as custom services that you develop, to be executed locally with the optional client runtime support, or remotely as web services. This capability greatly decreases the cost of testing and debugging: a custom service can be completely tested in a local environment before it is deployed remotely and retested using remote execution. Local deployment may also be a useful option in some production scenarios.

## Tools for building services

DFS service build tools enable you to build custom Enterprise Content Services from source code annotated with DFS service annotations and standard JAXB annotation of Javabeans for binding to XML data types. The tools generate all artifacts (including XML schemas, WSDL, and Java source) required for service deployment, and packages the output into an EAR file for remote deployment, and into corresponding JAR files for local deployment using the optional client runtime.

DFS supports preservation of capital assets by allowing services to be developed from existing SBOs (Documentum BOF services), as well as integration with standard frameworks using services developed from POJOs (Plain Old Java Objects). Service development from SBOs provides a migration path from the EMC Documentum 5.3 Web Services Framework.

## SDK

The DFS SDK includes class libraries, tools, and samples that you can use to build custom DFS services, or to build DFS service consumers using the Java client library. A sample .NET WSDL-based consumer sample is also provided.

## Documentum Administrator

### Selective indexing by types

A new feature in Documentum Administrator enables Superusers to control whether `dm_sysobject` and its subtypes will be subject to full text indexing. A **Register for indexing** checkbox appears on the Type Properties - Info page for administrators to use to register and unregister indexing on a particular type. This feature improves system performance and lowers storage overhead.

## LDAP enhancements

The user interface for managing LDAP server configuration in Documentum Administrator has changed and new functionality has been added to configure and synchronize LDAP servers. The enhancements include the following:

- Added a Failover page where users can configure the Content Server to use other LDAP servers for user authentication in the event that the primary LDAP server fails.
- Added a broader directory server support that now includes IBM Directory Server, Novell eDirectory, and Microsoft Active Directory Application Mode (ADAM).
- Improved usability by adding a search builder to help users create a user/group search filter.
- Increased LDAP attribute mapping functionality to include the ability to map multiple LDAP attributes to a single repository attribute.

## JMX resource management

Resource Management provides an interface for the management and administration of JMX resources.

Documentum Administrator incorporates JMX technology to manage resources exposed in the Documentum environment as Java Management Beans (MBeans). The Resource Management interface accesses MBean objects through a JMX agent using the JMX service URL. The Resource Management interface displays a list of available resource agents; however, only a system administrator can create, delete, or update resource agents.

- The Resource Properties - Info page enables you to view general resource information.
- The Resource Properties - Attributes page enables you to view and update resource attributes.
- The Resource Properties - Operations page enables you to perform resource operations.
- The Resource Properties - Notifications page enables you to view notifications from a source.
- The Resource Properties - Log page enables you to do the following (if supported):
  - View and download a resource log
  - Configure logging behavior
  - Configure how logged events are viewed

## Distributed content administration

Documentum Administrator provides new functionality to support additional capabilities of the ACS and BOCS servers, which include:

- Generation of BOCS cache requests on demand or according to a given schedule
- Generation of cache requests for a given list of objects, based on a query

In addition, the new Distributed Content Configuration node includes access to:

- Distributed Transfer Settings, which are parameters on a repository that control reading and writing content through the distributed infrastructure.

- Messaging Server, which contains parameters for the Documentum Messaging Services (DMS) server an intermediary process that provides messaging services between an ACS or BOCS server, the DFC, and a web application server.

## Role-based administration

The administrator access functionality in Documentum Administrator enables organizations to map functions to roles and then enable access to the Administration nodes based on those roles. The nodes, such as Basic Configuration, User Management, Job Management, and Audit Management, provide access to different repository and server functions. Administrators with Superuser privileges and client capability of Coordinator or greater can access the Administrator Access node to create new administrator access sets, view or modify the properties of existing administrator access sets, or delete administrator access sets.

**Note:** Administrator access sets do not conflict with Content Server privileges. Object level and user level permissions and permission sets take precedence over administrator access sets.

## User interface changes

The Documentum Administrator UI includes new features such as right-click context menus and hot key specifications for list pages and repeating attribute tables. Additional UI changes include:

- Auto Complete
- Multi-object select - Shift & Control Click
- Removal of checkboxes
- Dynamic filters (for example, Starts With)
- Resizable columns
- Frozen columns headers

## Application Connectors SDK

Application Connectors SDK introduces the following new features:

- Enhanced `MyCompany.AppConnector.TextEditorAppIntg` application connector sample that demonstrates using DFC functionality in an application connector.
- New menu item, **Run Query**, and component that execute DQL queries against repositories and display the results.

## PDF Annotation Services

Documentum 6 provides no new features for PDF Annotation Services.

# Documentum Reporting Services

## Embedded Crystal Reports runtime

Like the original 5.3 release, Documentum Reporting Services comes with 18 out-of-the-box reports, written in Crystal Reports. Documentum 6 embeds the Crystal Reports runtime so customers no longer have to purchase and install Crystal Reports separately. The runtime version of Crystal Reports is accessible by all Webtop users by opening a report in the reports cabinet.

## Crystal Reports Developer

Each copy of Documentum Reporting Services comes with one licensed copy of Crystal Reports Developer. Crystal Reports Developer allows a user to create their own custom Documentum report or modify existing reports. New reports are saved to the repository and can be made accessible to others users, just like the out-of-the-box reports.

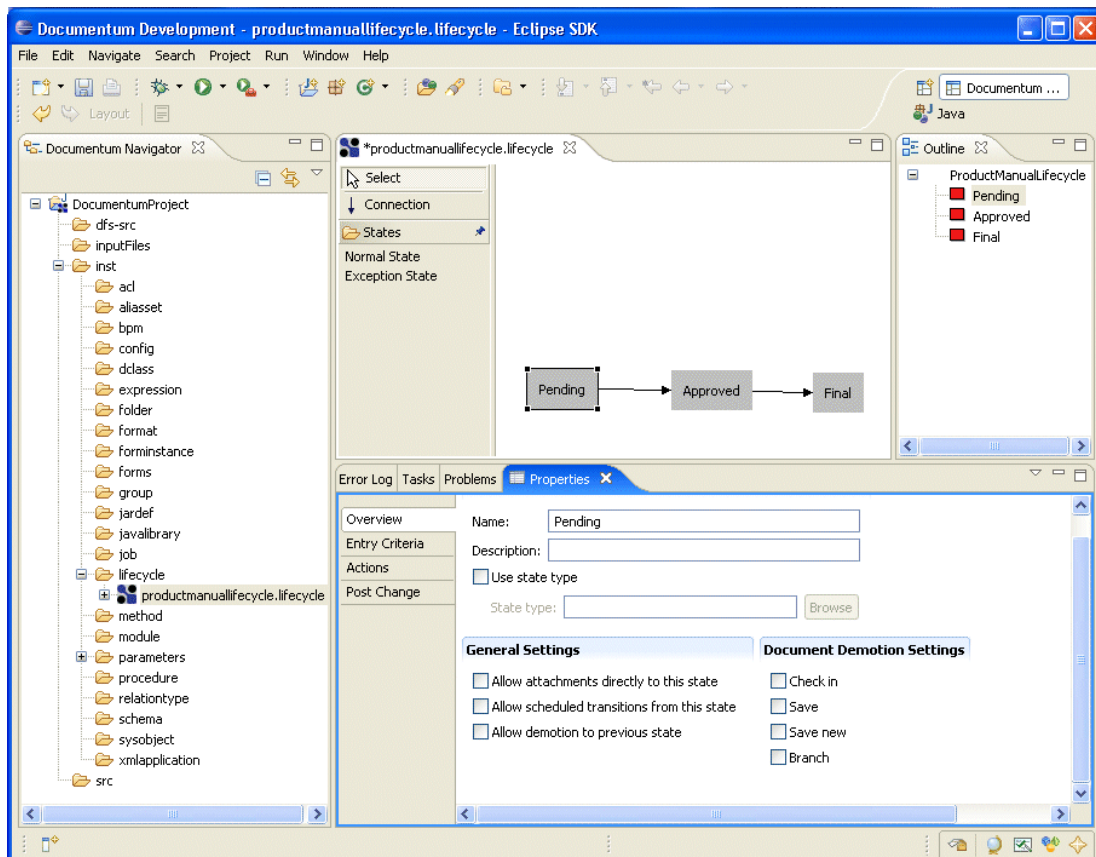
## Documentum Composer

**Note:** This product is currently targeted for a Q407 release.

Documentum Composer is a new Eclipse-based IDE that replaces Documentum Application Builder (DAB) and Documentum Application Installer (DAI). Documentum Composer takes advantage of the benefits Eclipse offers for an IDE framework. These benefits include:

- A well-defined plugin model
- A standard IDE container and tools integration framework
- Integration with content management systems
- A community of tools developers for the Eclipse IDE framework

Figure 18. Eclipse framework



Documentum Composer contains the Eclipse platform and the following required plug-ins:

- Eclipse 3.2  
The basic Eclipse platform.
- EMF 2.2 (EMF, SDO, XSD)  
Eclipse modeling framework libraries (distributed as Eclipse plug-ins) for Ecore models. For example, EMF is used for generating Java models from Ecore schema definitions, and for creating and persisting Ecore model instances.
- GEF 3.2  
Graphical editing framework libraries (distributed as eclipse plug-ins) to generate visual editors for EMF Ecore models.
- VE 1.2  
Visual Editor plug-ins for creating SWT GUI components.
- Documentum plug-ins

The Documentum IDE supports:

- All DAB artifacts and their attributes, except for a few vestigial artifacts from Documentum Desktop
- New Documentum 6 features, including aspects (with attributes), Documentum Foundation Services, , etc.

- Transition to an XML based persistent storage of artifacts, at design time.
- Extensible architecture to add tools

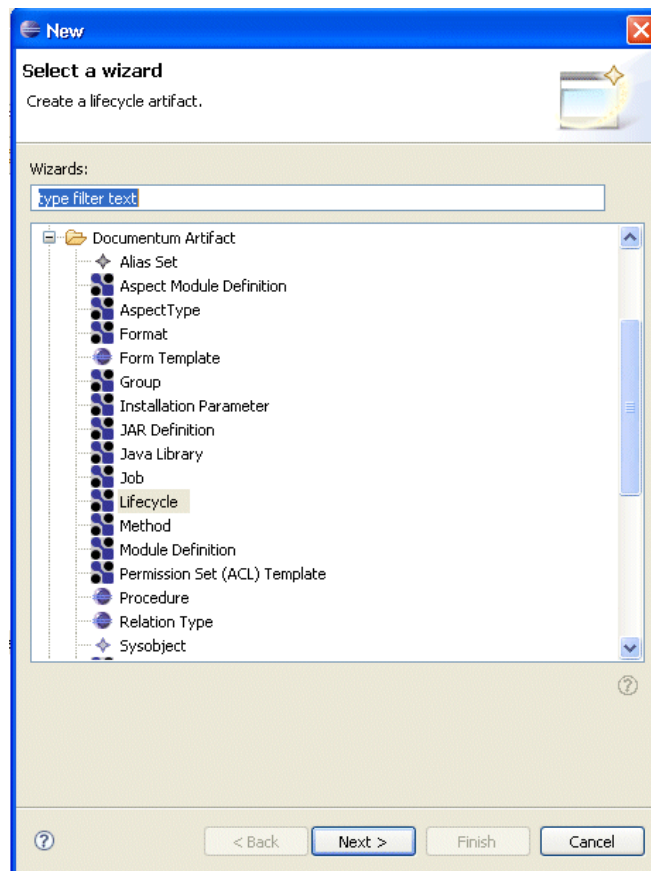
Documentum Composer does not support:

- BPM, Forms editor integration
- WDK construction tools

## Artifacts

Documentum Composer introduces the term *artifacts* to indicate any kind of Documentum resource, for example object types, lifecycles, procedures, methods, or jobs. In Documentum Composer you can create new artifacts or add existing artifacts to an application using different kinds of wizards and dialogs.

**Figure 19. Artifacts**



Artifacts are treated as independent file system resources (stored as XML but based on the EMF model) that can be in a source control system attached to Eclipse. All application resources can be in a project and all editors for different kinds of resources are integrated. There is a referential model between projects. Tools are all integrated by sharing a common set of information.



## Deployment

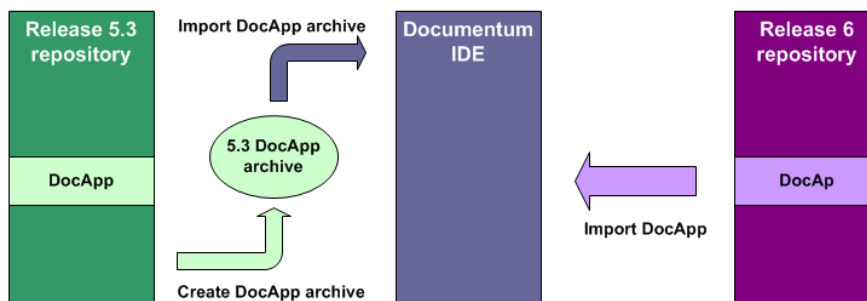
Projects are exported as Documentum Archives (DAR) files, which is the equivalent to a DocApp with DAB. There is a DAR file installer, equivalent to DAI, but it is build on Eclipse. Developers can also install directly from the Documentum IDE for testing.

## Migration

DAB DocApps can be imported into Documentum Composer, which creates a new project. A Documentum Composer DAR file can then be created and exported for installation. You can use DAB until new Documentum 6 features are required or Documentum Composer contains features required for your project.

Documentum Composer itself is not backward compatible but it allows importing DocApps from a repository prior to release 6.

**Figure 20. Migration path**



Currently, Documentum Composer supports the following migration scenarios:

- Importing a DocApp archive from a repository from a previous release  
Any DocApp prior to release 6 can currently only be imported as a release 5.3 SPx archive, where SPx is the latest available service pack. Any DocApp from a repository earlier than 5.3 SPx must be upgraded to release 5.3 SPx before importing it into Documentum Composer.
- Importing a DocApp from an upgraded release 6 repository  
If the repository has been upgraded to release 6, the DocApp can be imported directly into Documentum Composer.

### Importing a DocApp archive from a previous release

Any DocApp from a previous release must be imported as a 5.3 DocApp SPx archive, where SPx is the latest release 5.3 service pack. If the repository that contains the DocApp is older than release 5.3 SPx, the repository must first be upgraded to release 5.3 SPx.

During the import process, the archive is installed in a migration repository before it is imported into the IDE. The migration repository must be a clean repository that should not contain any other DocApps or DocApp archives.

## **Importing a DocApp from an upgraded release 6 repository**

If the repository containing the DocApp has already been upgraded to release 6, the DocApp can be imported directly into Documentum Composer.

# Obsolete or Deprecated Items

## Content Server

### Linked store and optical storage devices

DFC does not support linked store storage areas or optical storage devices. As a consequence, the following items are deprecated:

- dm\_linked\_store object type
- dmi\_linkrecord object type
- CLEAN\_LINKS administration method

### SYNC\_REPLICA\_RECORDS administration method

The SYNC\_REPLICA\_RECORDS administration method is obsolete. It was used to complete the migration from DocPage Server 3.x to eContent Server 4.x. Neither of these server versions are currently supported. References to this method have been removed from the documentation.

### Support for client-side external storage plug-ins

The plug-in supporting external storage areas must be installed on the Content Server host in Release 6.0. DFC 6.0 does not support use of the plug-in on the client host.

### POSITION keyword no longer supported

The POSITION keyword, previously supported in SELECT queries against the fulltext index, is no longer supported.

## Documentum Foundation Classes

### Routers

DFC no longer supports routers (dm\_router). Routers are now obsolete.

# Web Development Kit

## Content transfer applets

Developers need to migrate from content transfer applets to UCF or HTTP content transfer.

## Streamline view

The streamline view is deprecated and turned off by default. It can be re-enabled in app.xml, but some new Documentum 6 functionality will not be available in streamline view.

## Themes

The themes that are enabled in Documentum 6 WDK are Documentum and High Contrast. The remaining themes (for example, Tahoe) ship for backward compatibility but may require additional customization to display new functionality.

# New Environment Ports and Certifications

Documentum 6 expands support for existing platforms and includes support for several new platforms. The table below provides a high-level summary of these new platforms, but is not a detailed mapping indicative of all possible combinations. Should you require more detailed information on specific platform combinations, please consult the product release notes.

Vendor	Supported in 5.3 SP5	New Vendor Release for Documentum 6	Release Date	Version Change
<b>Operating System (Client Only)</b>				
Apple	Mac OS X 10.4.8 (Power)	Mac OS X 10.4.9 (Power)	3/07	Minor
Apple	Mac OS X 10.4.8 (Intel)	Mac OS X 10.4.9 (Intel)	3/07	Minor
<b>Operating System</b>				
HP	HP-UX 11i v2 Update 2 (B.11.23)	HP-UX 11i v3 (B.11.31)	2/07	Minor
Microsoft	Windows Server 2003 R2 (32-bit version)	Windows Server 2003 SP2 (32-bit version)	3/07	Minor
Red Hat	Red Hat Enterprise Linux 4.0 Update 4	Red Hat Enterprise Linux 4.0 Update 5	4/07	Minor
<b>Database</b>				
IBM	IBM DB2 Universal Database 8.2 FixPak 6	IBM DB2 Universal Database V9.1 FixPak 2	2/07	Major
Sybase	Sybase Adaptive Server Enterprise (ASE) 12.5.4 ESD #4	Sybase Adaptive Server Enterprise (ASE) 12.5.4 ESD #5	4/07	Minor
Sybase	Sybase Adaptive Server Enterprise (ASE) 15.0.1 ESD #1	Sybase Adaptive Server Enterprise (ASE) 15.0.1 ESD #2	2/07	Minor
<b>Application Server</b>				
IBM	IBM WebSphere AS V6.1 Fix Pack 5 (6.1.0.5)	IBM WebSphere AS V6.1 Fix Pack 7 (6.1.0.7)	4/07	Minor

<b>Vendor</b>	<b>Supported in 5.3 SP5</b>	<b>New Vendor Release for Documentum 6</b>	<b>Release Date</b>	<b>Version Change</b>
Oracle	Oracle AS 10g <b>R2</b> (10.1.2)	Oracle AS 10g <b>R3</b> (10.1.3.2.0)	1/07	Minor
Sun	Sun Java System Application Server 7 <b>2004Q2</b> <b>Update 5</b>	Sun Java System Application Server 8.2	4/07	Major
<b>Browser</b>				
Mozilla	Firefox 2.0.0.2	Firefox 2.0.0.3	3/07	Minor
<b>Java (Client)</b>				
Apple	Java 2 SE 5.0 Release 4	Java for Mac OS X 10.4 Release 5	2/07	Minor
Sun	Sun JRE 1.4.2_ <b>13</b>	Sun JRE 1.4.2_ <b>14</b>	4/07	Minor
<b>Directory Server</b>				
IBM	None	<b>Tivoli Directory Server 6.0.0-TIV- ITDS-FP0004</b>	3/07	New
Novell	None	<b>Novell eDirectory 8.8 SP1</b>	6/06	New
Microsoft	None	<b>Windows Server 2003 Active Directory Application Mode (ADAM)</b>	6/06	New
Oracle	Oracle Internet Directory 10g <b>R2</b> (10.1.2)	Oracle Internet Directory 10g <b>R3</b> (10.1.4)	6/06	Minor
Sun	Sun Java System Directory Server 5.2	Sun Java System Directory Server 5.2 <b>P4</b>	Q4/05	Minor
<b>Web Server</b>				
Apache	Apache 2.0.59	Apache 2.2.4	1/07	Minor
Sun	Sun Java System Web Server 6.1 <b>SP6</b>	Sun Java System Web Server 7.0	1/07	Major
<b>Operating Environment</b>				

Vendor	Supported in 5.3 SP5	New Vendor Release for Documentum 6	Release Date	Version Change
Citrix	Citrix Presentation Server 4.0	Citrix Presentation Server 4.5	3/07	Minor
<b>** This table is a highlight for the release. These newer version 3rd party products may not be supported by all products. Refer to the product specific table(s) in the release notes to see the exact supported configurations.</b>				

# Backward Compatibility

In addition to the two homogeneous stacks (5.3 Content Server + 5.3 Client and Documentum 6 Content Server + Documentum 6 Client), the following 2 deployment scenarios will be supported in Documentum 6 (see caveats below):

- 5.3 Content Server + Documentum 6 Global Registry + Documentum 6 Client
- Documentum 6 Content Server + 5.3 Global Registry + 5.3 Client

**Note:** The information in the following table is pending review and is subject to change before the Documentum 6 release.

Product	Alias	Version	Content Server 5.3 or 5.3 SPx	Content Server 6 or 6 SPx	Notes
Documentum Administrator	DA	5.3 or 5.3 SPx	Yes	No	
		6	Yes	Yes	
Documentum ADO.NET Services	DAS	5.3 or 5.3 SPx	Yes	Yes	
Documentum Advanced Document Transformation Services	ADTS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum API	DFC	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Application Builder	DAB	5.3 or 5.3 SPx	Yes	Yes	
Documentum Application Connectors	DAC	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Application Connectors SDK	DACSDK	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Application Installer	DAI	5.3 or 5.3 SPx	Yes	Yes	
Documentum Archive Services for SAP	AS SAP	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	#1, #2



Product	Alias	Version	Content Server 5.3 or 5.3 SPx	Content Server 6 or 6 SPx	Notes
Documentum Archive Services for SharePoint	ASSP	5.3 SP4 or higher	Yes	Yes	
		6 SPx	Yes	Yes	
Documentum Audio Video Transformation Services	AVTS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	Webtop 5.3 SP4 or higher is required.
Documentum Branch Office Caching Services	BOCS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Business Activity Monitor	BAM	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Business Process Analyzer	BPA	5.3 or 5.3 SPx	Yes	Yes	
Documentum Business Process Manager	BPM	5.3 or 5.3 SPx	Yes	Yes	
Documentum Business Process Navigator	BPN	5.3 or 5.3 SPx	Yes	Yes	
Documentum Business Process Services	BPS	5.3 or 5.3 SPx	Yes	Yes	
Documentum Client for Lotus Notes	DCN	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Client for Outlook	DCO	5.3 or 5.3 SPx	Yes	Yes	
		6 SPx	Yes	Yes	
Documentum Client for Siebel	DCS	5.3 or 5.3 SPx	Yes	Yes	
		6 SPx	Yes	Yes	

Product	Alias	Version	Content Server 5.3 or 5.3 SPx	Content Server 6 or 6 SPx	Notes
Documentum Collaborative Edition	DCE	5.3 or 5.3 SPx	Yes	Yes	DCE 5.3 DocApp is installed with CS 6 repository so Webtop 5.3 & 5.3 SPx will work with CS 6. If DCE 6 DocApp is installed with CS 6, repository, Webtop 6 is required.
		6	Yes	Yes	
Documentum Compliance Manager	DCM	5.3 or 5.3 SPx	Yes	Partial	Supports: 1. CS 5.3 or 5.3 SPx with DCM 5.3 or 5.3 SPx DocApp. 2. CS 5.3 or 5.3 SPx with DCM 6 SPx DocApp. 3. CS 6 or 6 SPx with DCM 5.3 or 5.3 SPx DocApp.
		6 SPx	No	Yes	Only support DCM 6 SPx DocApp.
Documentum Composer	DC	6	No	Yes	
Documentum Content Distribution Services	CDS	5.3 or 5.3 SPx	Yes	Yes	
		6 SPx	Yes	Yes	
Documentum Content Intelligence Services	CIS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	

Product	Alias	Version	Content Server 5.3 or 5.3 SPx	Content Server 6 or 6 SPx	Notes
Documentum Content Services for BEA WebLogic Portal	CSBWP	5.3 or 5.3 SPx	Yes	Yes	
Documentum Content Services for EMC Centera	CSEC	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Content Services for SAP	CS SAP	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	#1, #2
Documentum Content Services for SAP Portal - iViews for Related Content	CS SAP IVRC	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	#1, #2
Documentum Content Services for SAP Portal - Repository Manager	CS SAP RM	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	#1, #2
Documentum Content Services for SharePoint	CSSP	5.3 SP4 or higher	Yes	Yes	
		6 SPx	Yes	Yes	
Documentum Content Services for Woodwing	CSW	5.3 or 5.3 SPx	Yes	Yes	
		6 SPx	Yes	Yes	
Documentum Content Storage Services	CSS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Desktop	DT	5.3 or 5.3 SPx	Yes	Yes	Global Registry is not required.

Product	Alias	Version	Content Server 5.3 or 5.3 SPx	Content Server 6 or 6 SPx	Notes
Documentum Digital Asset Manager	DAM	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Document Image Services	DIS	6	No	Yes	
Documentum Document Transformation Services	DTS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum ECI Services	ECIS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum External Viewing Services for SAP	EVS SAP	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	#1, #2
Documentum File Share Services	FSS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Foundation Services	DFS	6	Yes	Yes	
Documentum Forms Builder	FB	5.3 or 5.3 SPx	Yes	Yes	
		6	No	Yes	
Documentum FTP Services	FTPS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Import Manager	IM	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum JDBC Services	JDBCS	5.3 or 5.3 SPx	Yes	Yes	
Documentum Learning Services	LS	5.3 or 5.3 SPx	Yes	Yes	
		6 SPx	Yes	Yes	

Product	Alias	Version	Content Server 5.3 or 5.3 SPx	Content Server 6 or 6 SPx	Notes
Documentum Media Transformation Services	MTS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Medical Imaging Transformation Services	MITS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Optical Character Recognition Transformation Services	OCRTS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum PDF Annotation Services	PAS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Portlets	DCTMP	5.3 or 5.3 SPx	Yes	Yes	
		6 SPx	Yes	Yes	
Documentum Process Analyzer	PA	6	Yes	Yes	
Documentum Process Builder	DPB	6	No	Yes	
Documentum Process Connector Pack	PC	6	Yes	Yes	
Documentum Process Engine	DPE	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Process Integrator	DPI	6	Yes	Yes	
Documentum Process Navigator	PN	6	Yes	Yes	

Product	Alias	Version	Content Server 5.3 or 5.3 SPx	Content Server 6 or 6 SPx	Notes
Documentum Process Services for SAP	PS SAP	6	5.3 SP4 or higher	Yes	#1, #2
Documentum Process Simulator	PS	6	Yes	Yes	
Documentum Process Integration Package for Microsoft Visio	PIPMV	5.3 or 5.3 SPx	Yes	Yes	
Documentum Records Manager	RM	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Regulatory Publishing Transformation Services	RPTS	5.3 or 5.3 SPx	Yes	Yes	
Documentum Reporting Services	DRS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Retention Policy Services	RPS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Site Caching Services	SCS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Site Deployment Services	SDS	5.3 or 5.3 SPx	Yes	Yes	
		6 SPx	Yes	Yes	
Documentum Submissions Manager	DSM	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum TaskSpace	TSP	6	No	Yes	

Product	Alias	Version	Content Server 5.3 or 5.3 SPx	Content Server 6 or 6 SPx	Notes
Documentum Thumbnail Server	TS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Trusted Content Services	TCS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Web Development Kit	WDK	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Web Development Kit for Portlets	WDKP	5.3 or 5.3 SPx	Yes	Yes	
		6 SPx	Yes	Yes	
Documentum Web Publisher	WP	5.3 or 5.3 SPx	Yes	Yes	
		6	No	Yes	
Documentum Web Publisher Portlets	WPP	5.3 or 5.3 SPx	Yes	Yes	
		6 SPx	No	Yes	
Documentum Web Services Framework	WS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum WebDAV Services	WDS	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	
Documentum Webtop	WT	5.3 or 5.3 SPx	Yes	Yes	
		6	Yes	Yes	

# Internationalization

## Bi-directional Language Support

Starting with Documentum 6, Webtop provides bi-directional metadata entry and processing (right-to-left + left-to-right), which is required to support languages such as Arabic and Hebrew. Webtop also has the capability for the user interface to appear in right-to-left format. Right-to-left/bi-directional functionality is triggered by relevant locale selection at log-in.