



New Features in Version 6

SCC MediaFactory
SCC MediaGrid
SCC MediaServer

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MediaFactory

Now available on the Linux Platform

In addition to the Windows platform, MediaFactory has been ported to the RedHat Linux platform and is an integral part of the 'MediaServer on Linux' package. Virtually all MediaFactory features are available in the Linux version. The only features not available are the MacBinary Channel and digital camera support. Digital camera support could not be ported because none of the camera manufacturers produce a software developers kit (SDK) for the Linux platform. Windows MediaFactory is used to perform these functions on Linux systems.

Oracle Support

Since the Linux version of MediaServer uses Oracle Database, MediaFactory has been enhanced to support both SQL Server on Windows and Oracle on Linux.

Unlimited Number of Channels

MediaFactory has been enhanced to support any number of channels executing concurrently. The 250 channel restriction from Version 5 has been eliminated.

Channel Settings Organization

Channels can be grouped into any number of named groups, or sets, to help organize the large number of channels that can accumulate at some sites. Channels are displayed in the Channel Manager by group, by type, or in alphabetical order.

As the number of settings tabs for certain channels has increased over time, the convenience of navigating to a particular tab has diminished. The new version of MediaFactory improves upon this by allowing tabs to be selected from an alphabetical list.

There is a new Start Channels dialog that appears before channel processing is started. This dialog provides options to organize channels alphabetically, by type in a tree structure, or by group in a tree structure, with secondary alphabetical sorting. Similar options are provided in the lefthand side of the Channel Manager (Settings) dialog.

NewsML Channel (New Channel)

The NewsML Channel is a new channel that is part of the NewsML Module, which provides bi-directional integration with CCI editorial systems equipped with CCI's NewsML export engine. Complete packages of published articles containing photo, graphic, text and page elements together with respective NewsML headers are exported automatically each day by CCI's NewsML export engine. The SCC MediaServer NewsML module provides a user friendly and highly configurable interface to the exported CCI NewsML data. Once configured the SCC module performs all necessary data extraction and conversion, record insertion, auto-enhancement, and record linking completely automatically in order to produce an enriched archive of all publication elements generated within the CCI editorial system

Replication Channel (New Channel)

SCC MediaServer, as a mission-critical system, provides sophisticated options for fault tolerance and disaster recovery. The MediaServer Replication Module, one such option, is used to create full off-site replication of critical MediaServer database tables, user account definitions, and full-text indexes. The new Replication Channel, the engine of the Replication Module, completely replaces the first version, which was based on and dependent upon the SQL Server Replication functionality. The new Replication Channel has been designed and written with the requirements of MediaServer replication as the sole goal. The result is a much simpler replication architecture, completely unintrusive to the database schema, with virtually no impact on the performance of the main server.

RSS Channel (New Channel)

RSS, which stands for 'Really Simple Syndication', is an XML based web content sharing and distribution protocol that is widely used on web sites of news organizations, blogs, and just about any type of continually updated

information site. Typically, RSS support is added to a web browser by downloading one of the many RSS Readers. MediaServer's RSS support brings that RSS content into the MediaServer repository by automatically retrieving and interpreting any new content from one or more RSS sites, inserting it into one or more MediaServer libraries, and making it accessible to clients via the same sophisticated search and retrieval techniques available for other MediaServer content. So now, along with other multimedia content, RSS headlines, text, photos, and media files from multiple RSS sites will automatically appear on MediaGrid screens as the content becomes available. Users can search for all MediaServer content, whether RSS or other, with a single query and view all query-matched results intermixed in a single window. URL destinations, extracted from the original RSS site, are maintained and can be launched by the user with a single click on the displayed RSS object.

The RSS Channel performs the function of watching a list of RSS feed sites, determining when new material is posted, capturing and interpreting that material for insertion into the MediaServer database. The channel supports RSS v2.0, RSS v1.0, RSS v0.91, RSS v0.92, RSS v0.93, RSS v0.94, and ATOM sites.

Stored Documents Container Support

Objects in the MediaServer repository are comprised of multiple components, one of which can be a reference to an actual file that is stored on a file system volume accessible by the database server. These 'stored documents' have always been referenced as UNC paths. A new option is available in version 6, called Stored Documents Containers, that creates a conceptual area where files are stored and from which they are retrieved. This file storage area is named, and all file operations use this name reference, rather than a UNC path.

Several MediaFactory channels have been enhanced to support the storage of files both by UNC path and by container. Channels such as the Inserter Channel, the new Replication Channel, the ServerOps Channel, and the Object Updater Channel have been enhanced and new user options appear in the settings dialogs to configure file storage operations.

View Channel Settings Feature

The View Channel Settings feature launches an HTML document into a browser and provides a formatted list of the current settings for each channel. This document can be viewed while channels are processing, and can be printed.

SMTP Email Support

SMTP email support has been added to the existing MAPI email support. The SMTP email protocol can be selected to send email using the Email Channel, and to send notification and alert emails to a list of recipients.

Fotoware metadata support

Fotoware embedded metadata fields are now extracted from files by the Image Processing Channel and can be mapped to any attribute in the SCC attribute scheme.

PhotoMechanic tag support

PhotoMechanic tags are extracted from files by the Image Processing Channel and made available as AutoFill variables that can be inserted into any attribute. The PhotoMechanic 'Found', 'Tagged', 'Crop', and 'Rotate' tags are supported. In addition, the hi-res image data can be automatically rotated back to its correct orientation using the PhotoMechanic rotate tag value.

EXIF support

EXIF data is now extracted from image files by the Image Processing Channel. EXIF fields are made available as AutoFill variables that can be inserted into any attribute. The full set of EXIF 2.0 fields are supported, including the image description group, the image characteristics group, and the GPS coordinates group. In addition, the hi-res image data can be automatically rotated back to its correct orientation using the EXIF rotate field value.

Enhanced Image Processing Channel Out Folder Cleanup

The Image Processing Channel Out Folder cleanup, which can be configured to delete files by age, number of files, or total accumulated file size, now adds the option when deleting by age to use either file creation time or file modification time.

Image Processing Channel Pass-Through Folder Mirroring

When the Input Folder processing is configured for nested folders, the Image Processing Channel's Pass-Through function can be configured to mirror that Input Folder nesting. The Pass-Through feature will pass unrecognized or unspecified file types to the pass-through folder, rather than to attempt any processing. Usually this is done so another channel can process the passed files. The new mirroring feature will preserve the input folder nesting structure at the pass-through.

CoatTail Files in the Distribution Channel

While in the 'Distribute by Input File Type' mode, the Distribution Channel will optionally keep a file's 'coattail' file with it during distribution. A coattail file is simply a separate, but related, file that must be kept with the main file. For example, it is often encountered that a main file, such as a JPEG file, has an accompanying header (.txt) file containing additional metadata. When the Distribution Channel moves the JPEG file to its designated destination, it will now optionally find and move the associated coattail file with it.

Missing JFIF correction

The Image Processing Channel will detect when a JPEG input file is missing its JFIF marker and add one in the output file if the output file settings require one.

Support for Progressive JPEGs

The Image Processing Channel now can detect and optionally recompress progressive JPEG files. This is important because Progressive JPEG files are not generally supported by many editorial systems and, therefore, it is advantageous to recompress these files to baseline JPEG prior to insertion into MediaServer.

Nikon NEF (Raw) Camera File Support

Nikon NEF (RAW) camera files are now converted by the Image Processing Channel and can be directly inserted into MediaServer by the Inserter Channel.

Canon CR2 Camera File Support

Canon CR2 camera files are now converted by the Image Processing Channel and can be directly inserted into MediaServer by the Inserter Channel. Previously supported Canon and Kodak camera files are still supported.

AXS 'TEXT' Segment Metadata

The Image Processing Channel now reads the AXS 'TEXT' segment as one of the many locations within an image file from where metadata may be extracted.

Support for IPTC Image Format Type 11

Files containing image data in the IPTC Image Format Type 11 can now be processed by the Image Processing Channel.

Project Cleanup in MediaServer Maintenance

Projects are now timestamped with a last modified time and the Maintenance Channel can now be configured to cleanup projects that have not been changed for a particular period of time.

XML Support Enhancements

Several enhancements throughout MediaFactory related to the reading, interpreting, and writing of XML data have been added to this version. Support for XPath as a method of extracting data from XML files has been added to the Text Converter Channel, the new NewsML Channel, the new RSS Channel, and other key places in MediaFactory. A new Advanced XML text filter augments the XML file import capability. The new XML filter uses XSLT to transform and interpret XML content, while XPath is used to extract data from the transformed content. The XML filter now supports batch XML files, in which multiple records are contained in the content tree.

In addition to reading XML content, MediaFactory now supports the writing, or output, of XML files from both the Text Converter Channel and the Image Processing Channel. The Text Converter Channel now provides a choice of III and XML file output. The Image Processing Channel settings provides a user interface to custom design the content of an output XML file, and an XML file will be written for each processed image as a method of exporting the image file's attribute header.

The Image Processing Channel can be configured to read an XML file, as well as an III file, as a 'sidecar' file containing attributes for the processed image file.

Password-Protected Settings and Execution

MediaFactory can be configured to require the entry of a password before it allows any channel settings to be modified. It can also be configured to require the entry of a password before it allows processing to be stopped or started.

Turning Off Illegal Filename Support

MediaFactory has always been very tolerant of files with illegal filenames and has been able to locate, open, read, and process these files despite the fact that most Windows applications would not be able to read these files. Such files generally are produced by computers of other platforms, such as Macintosh or Unix. The Windows Server file system allows these filenames, but applications running native on the Windows operating system must use certain tricks to read them. One of these tricks that MediaFactory has always employed to handle illegal filenames is the use of 'short filenames'. Short filenames are 8.3 filenames, automatically generated by the file system for every file written. The illegal characters in filenames are handled by the short filename 'mangler' algorithm inside of the file system and the resulting 8.3 name is a valid Windows filename.

Although this short filename approach to handling files offers a higher level of robustness to MediaFactory, on rare occasions the file system's mangling of names can clash with MediaFactory's processing approach. Version 6 makes the use of short filenames optional, so if it is known that a channel has no potential of receiving files with illegal names, the short filename technique can be turned off and channels will use an alternative, more traditional approach to file handling.

Special Handling of Dot Files

Files with names that begin with a dot (dot files) are problematic for a Windows application because these names are not valid Windows filenames. Dot files are generally produced by other platforms, like the OSX Macintosh platform, which produces dot files to represent the resource fork on an SMB volume. When MediaFactory encounters these dot files in a channel's Input Folder, the file cannot be processed, and should not be processed anyway. Version 6 MediaFactory can either ignore these files, or can periodically delete these files, thereby cleaning up the Input Folders.

Additional Folder Existence Verification

MediaFactory performs a verification sequence for channel settings upon exit from the Settings Manager. Several folder settings have been added to this existing verification sequence. These include verification of the existence of Error and Done Folders in the Email, Ftp, Inserter, MacBinary, Updater, Routing, and Delivery Channels.

Enhanced Indexer Channel

The Indexer Channel, formerly called the Verity Channel, can now be configured to inspect a single collection rather than all active collections. Also, the channel can be scheduled separately for each collection (each library). For example, if there is a library that experiences few changes or does not need to be indexed in real time during certain periods of the day or week, the indexing of those libraries can be suspended at appropriate times.

XMP Support

XMP support has been added to the Image Processing Channel, the Inserter Channel, the Delivery Channel, and other appropriate places in the MediaFactory software. XMP data is read and extracted from JPEG and TIFF files by the Image Processing Channel, and written into output files, as appropriate. The Delivery Channel and the ServerOps Channel write XMP data into delivered and exported output files. The Inserter Channel reads XMP data from PDF, EPS, and Postscript files and merges this data with attribute data extracted from other sources.

Attribute Search Order

The Image Processing Channel searches for embedded metadata in a particular order and the user has always been able to set the order in each channel. For example, if a JPEG file has multiple metadata segments, including AXS, Photoshop FileInfo, XMP, and various resource fork metadata, the channel is capable of searching for all of these metadata segments in the file, but will stop when it finds one. Therefore, it has always been important that the user could configure the channel to search these segments in a particular order, so that if a file had both Photoshop FileInfo and XMP metadata, the user could specify that the XMP metadata should be used, for example, whereas if the next file had only FileInfo data, then this data would be used. Version 6 enhances this configuration feature by allowing the user to state that certain metadata types should be 'skipped' and not used regardless of their presence in the file.

ServerOps Script Enhancements

New and enhanced ServerOps script operations are available in version 6. Among other additions, there is now a 'Conditional GoTo' operation, a 'Link Spatial Objects', and a 'Mark for Deletion' operation. The 'Copy Document', 'Link Object Set', and 'Modify Object Set' operations have been improved. The link Spatial Objects operation is used with the NewsML channel to define the spatial geometry data necessary to enable the MediaGrid client to highlight individual articles as the mouse is moved over the page.

Multiple Key Matches in Updater Channel

The Object Updater Channel performs the operation of matching an object in the MediaServer database with a file dropped in its Input Folder, and then performing the various attribute updates that are defined in the file. In the past the channel required that only one object in the target MediaServer library match the key value in the file, which is a reasonable requirement for most update operations. Version 6 adds the option of defining the action taken when multiple objects match the key value. For example, if the key requires that the object's Byline match 'Joe Foto', many objects could potentially match this criteria. The channel, once it recognizes that multiple matches have occurred, will, based on user selection, either generate an error, modify all matched objects, or modify only one matched object where the one matched object is selected by its Insertion Time or its Modification Time.

FTP Channel Multiple Destinations

The FTP Channel now provides a mode in which nested input folders are each mapped to a different FTP destination server. For example, the channel can be configured to watch and retrieve input files from IN Folder subfolders named subfolder1, subfolder2, and subfolder3 and to transfer files from subfolder1 to FTPServer1, transfer files from subfolder2 to FTPServer2, and transfer files from subfolder3 to FTPServer3. There is no limit to the number of subfolders supported.

This feature is useful at sites where many FTP destinations must be serviced but the amount of traffic to each destination is relatively light. The new feature allows all such destinations to be serviced by a single FTP channel, rather than having to create and run a separate channel for each destination.

NcFTPd Server Support

An option now appears in the FTP Channel settings to support NcFTPd-type FTP servers as the destination. NcFTPd is a particular brand of FTP server software, running on the Unix platform, that requires a slightly different interaction protocol as compared with most other FTP servers.

Improved Database Connection Recovery

Channels that hold connections to the MediaServer database now perform a complex connection monitoring and recovery algorithm to both detect the loss of a connection and to re-establish the connection automatically.

Automatic Data File Backup

Data files, including the MFConfig.dat (channel configuration and settings) file and the MFSops.dat (ServerOps Scripts) file, are automatically backed up and versioned with a dated filename each time they are modified by the user. This makes it easy to restore complex settings in the event that unintended or mistaken changes are made.

Delivery of Watermarked Images

The Delivery Channel will optionally watermark high resolution image data before delivery.

Delivery of Linked Objects

The Delivery Channel, in addition to delivering an object file as before, can optionally deliver all the objects that are linked to it.

Insertion of Photoshop EPS Files

Photoshop EPS files can now be inserted directly into a MediaServer library. The Inserter Channel detects the Photoshop EPS type, distinguishes it from the EPS vector graphic type, creates a suitable thumbnail and preview, and inserts the file into the library.

Daily Stored Documents Folders

The Inserter, Replication, and Updater Channels now support the creation of daily folders in the Stored Documents settings. Daily folders are supported in both the UNC path and the Container modes. They are also supported in the storage of high resolution preview files.

High Resolution Previews

The Inserter Channel has been enhanced to support the new MediaServer high resolution preview feature. This feature makes it possible to configure any MediaServer library to store a high-resolution preview, of an arbitrary size, to augment the standard 128 x 128 thumbnail and 512 x 512 preview images. A typical high resolution preview image might be selected to be 1024 x 1024 or 2048 x 2048. The Inserter Channel will downsample image data to create an image that is no larger than the setting, and store this image data in a file that is referenced by the object's record in the database. The MediaGrid client, given sufficient user permissions, automatically retrieves the high resolution image when displaying in the Preview Window, the Compare Window, or a large cell. High resolution previews have become more appropriate as monitors have grown larger and network capacities have increased to handle the additional data. MediaGrid users with large monitors can now display clear, crisp previews.

High resolution previews are not just for JPEG images. The Inserter Channel creates large format images for PDF files, EPS graphic files, camera files, and most other file sources from which a large image can be extracted.

In addition to enhancements in the Inserter Channel to support high resolution previews, other channels, including the new Replication Channel and the Object Updater Channel have been enhanced to handle records with high resolution preview references.

High Resolution AutoPrinting

Auto-Printing from the Inserter and Image Processing Channels can be configured to use high resolution image data, rather than the lower resolution 512 x 512 preview data. The channels will automatically search and locate any

available source of high resolution image data for printing, including the data in the original image file, or the high resolution preview data. High resolution proofs provide Photoshop-like hard copy quality.

Image Processing with External Header Files

The Image Processing Channel can read attribute data from external III (IPTC) or XML files located in their own separate folder. If the external header file is an XML file, the user can customize the channel to extract the different attribute values from various content locations within the XML file using XPath.

If the channel is configured to read image files from nested folders, then the header files can also be configured to be read from an independent set of nested folders. In such a case, the header file folder tree is assumed to mirror the image file folder tree. This is called 'shadowing', and resolves problems with conflicting filenames that results when image files and header files are all dumped into the same folder or individual single folders.

MediaGrid

OSX Macintosh Universal Binary Version

Support for both the Intel Macintoshes and the PowerPC Macintoshes in a single binary (Universal Binary) is available. MediaGrid for OSX has all of the features of MediaGrid for Windows.

Linux / Oracle Support

Although MediaGrid is still available only on the Windows and Macintosh platforms, the application has been updated to support connection to the new Linux / Oracle server. The client feature set is identical whether connected to a Windows MediaServer or a Linux MediaServer. A single client can connect to both server platforms at the same time.

Marked Sets

A new feature, called Marked Sets, has been added, which allows the user to mark an object (either folder or database object) with the mark being maintained locally for each and every MediaGrid user. That is, one user's marks can be different than another user's marks. Marks are persistent across sessions, meaning that a user can mark a set of objects, exit MediaGrid, reenter MediaGrid, and the original marks are still present. The user can save Marked Sets, and load them at a later date. Marked Sets can span libraries, folders, and volumes. Marked Sets can be launched into their own watchspace, where most of the usual MediaGrid functionality is available to act upon them. Objects displayed in a Marked Set Watcher can be reordered in any arbitrary order, or can be automatically sorted according to the value of an attribute. Each marked object is timestamped when the user marked it and can be sorted in "marked order".

InfoBar Enhancement

The user can now copy the attribute text currently displayed in the InfoBar to the clipboard, or launch it into a text editor.

Re-Registration Support

First time use registration of the MediaGrid client has been made simpler on the OSX Macintosh environment by the Automatic Re-Registration feature. This feature requires the entry of a serial number and the navigation to a registration file for the first MediaGrid user on a particular machine. But, for the second and subsequent users, MediaGrid will register itself automatically without re-entry of a serial number or access to the registration file. This is useful on OSX when multiple MediaGrid users have different user accounts.

Mouse Wheel Support

Mouse wheel support has been improved, now recognizing more independent areas in the MediaGrid window layout where mouse wheel scrolling can occur.

Improved Sorting

Secondary sorting has been implemented, allowing the further sorting of items that are grouped together because the primary sort attribute value among these items is the same.

Sorting can now be made locale-specific. The alphabet or character order used for sorting in different locales can vary. MediaGrid now allows the user to specify the preferred locale and sorting adjusts accordingly.

Find and Replace

A new Find and Replace feature has been added that allows a user to locate all of the instances of a word or phrase among a selected set of objects, and optionally, replace that word or phrase in each object with a new word or phrase.

Multiple Popup Lists

Support has been added for multiple hierarchies of popup lists, providing for extensive control over popup lists for each object by type or any arbitrary categorization.

Article-on-Page Highlighting

As part of the NewsML Module functionality, MediaGrid can benefit from the sophisticated and extensive linking between objects that results from the processing of NewsML data. This includes 'spatial geometry linking' in which MediaGrid will highlight the individual articles on a previewed page, and launch watchers containing all of the article's text, photo, graphics and other components.

Delivery in Automation

Delivery is now an option in any MediaGrid Automation.

High Resolution Image Data

One of the most significant enhancements of MediaGrid, as it leverages off of this new feature of MediaServer, is the high resolution image display. With the proper permission enabled, a user will see crisp, clear, high resolution images displayed in the Preview and Compare Windows, and also in the grid cells when those cells are set to a large enough size. This feature is available not only for JPEG images, but is available for any object that has high resolution image data reference in its database record, including PDFs, EPS graphics, and postscript files.

In addition to displaying high resolution images, with the proper permission a user can print custom proofs using high resolution data.

Compare Window Enhancements

There is now a 1-up Compare Window mode, displaying a single compare cell with the optional attribute pane. Users can preview a single image, or flip through multiple images, one at a time in this large format. Together with high resolution previews, this feature significantly upgrades image previewing and comparison.

The attribute pane in the Compare Window can now be drag-sized to adjust for more or less text. Also, users can select the size of the font used for attribute text display.

View Color Options

Default background and text colors in the grid and multicolumn view windows are no longer restricted to black and gray. Users can select any color combinations for default background and text from the full color wheel interface.

Copy Watchspace

The new 'Copy Watchspace' feature creates a copy of the active watchspace, duplicating all the characteristics of the copied watchspace. Linked Objects are now launched into a separate (copied) watchspace so that the original watchspace remains on the screen.

XMP Support

MediaGrid both reads and writes XMP data from those files that contain it.

Reporting Facility Support

MediaGrid interfaces with the new Reporting Facility to report all supported user events, including Login, Logout, Download, Search, Edit, Infuse, AutoFill, Find and Replace, Crop, Delete, Undelete, Protect, and Unprotect.

Deleted Object Support

MediaGrid users with sufficient permission can now view a list of objects that have been marked for deletion (but not yet purged from the database). This user can then unmark, or undelete, these objects.

Thumbnail Labels

Labels displayed under the image in the Grid View were previously limited to the object filename. Now, the user can select any text attribute for display under the image. In addition, for those attribute values that are too long to fully display under the image, the user can turn on tooltip expansion of the attribute value, so that a window sized to contain the entire attribute value pops up momentarily while the user has the mouse pointer positioned over the thumbnail label.

Multiple Launches from Drop Palette

Users can now drag multiple objects and drop them on a application drop target in the Drop Palette. All objects will be launched.

Word Highlighting in Display Clusters

Search word highlighting now appears within display clusters, as well as simple attribute displays.

Limit in Autonomy Searches

The user can now set a minimum score value when performing an Autonomy search. Objects meeting the search criteria but not meeting the score limit will not be included in the matched set.

The high hit limits in Autonomy searches and the maximum search range in Production searches are now set in the User Manager, per user or per role.

Reporting Facility

Reporting of User and Server Events

The Reporting Facility is a major enhancement of the MediaServer product. This facility monitors numerous user and server events and inserts descriptions of each event in a database table. Events are formatted and projected as HTML to a web browser client for review by users. Typical events monitored and captured include Login, Logout, Download, Search, Edit, Infuse, AutoFill, Object Insertion, Find and Replace, Crop, Delete, Undelete, Protect, Unprotect, Administrative Events, User Manager Events, and License Usage. The client allows viewing events by date range, and to be searched by event type. Old events can be deleted automatically through the MediaServer Maintenance process.

Search Engine

Search Engine Update

MediaServer now uses search engine versions for Windows and Linux for each respective server platform. There is improved locale support for foreign language systems, including our latest install of Norwegian Bokmal. Also, a new

search engine thesaurus editor has been developed and is available to sites that want to modify and add new thesaurus word relationships.

MediaServer Web Module

Linux / Oracle Support

All aspects of the MediaServer Web Module has been updated and enhanced to support both MediaServer platforms - Windows Server with SQL Server and RedHat Linux Server with Oracle. In addition, the Web Module has been ported to the Zeus Web Server to run on the Linux platform, while remaining with the Internet Information Server on the Windows platform.

Enhancements

Permissions are now checked before a web browser user can deliver objects. Also, XMP is written to exported and downloaded files. The Delivery interface has been enhanced with a 'Change Attributes' form, similar to that in MediaGrid, that allows the delivering user to modify the attribute values in the delivered object.

Support has been added for the Reporting Facility so that user and other events occurring from a web client or the web server are recorded.

The Firefox web browser has been added to our supported browsers.

There is an option to show the search query controls in the results page, eliminating the need for a web client user to return to the search page when viewing details.

A 'Prev Page' button has been added to the Report View and the web page header and footer can now be customized for each site using a definition file.

The default shading mask used by the crop applet is now settable in the configuration page. Also, entry of picas.points and picas.tenths, in a fashion similar to that in MediaGrid, is now supported.

An "All Fields" button has been added to the Details page that, when clicked, shows a list of attributes and values of all the user-viewable attributes for the object.

There is a new 'Get Hit Count' feature to retrieve the total hits in each active library for any given search query.

RSS support has been added, so that the RSS object type is recognized and the link to the RSS object's URL can be launched and viewed.

The Assignment Module interface has been enhanced to check for conflicting, or overlapping, assignment schedules.

Real number support has been added to forms.

MediaServer User Manager

Linux / Oracle Support

All aspects of the MediaServer User Manager has been updated and enhanced to support both MediaServer platforms - Windows Server with SQL Server and RedHat Linux Server with Oracle.

New Permissions

New user permissions have been added, including 'Max Hit Limit' for Autonomy searches, 'Max Hit Limit' for Production searches, MediaGrid Undelete, use of high resolution previews, use of high resolution image data in proofs, and the permission to Protect or Unprotect objects in a library.

MediaServer Administration

Linux / Oracle Support

All aspects of the MediaServer Admin has been updated and enhanced to support both MediaServer platforms - Windows Server with SQL Server and RedHat Linux Server with Oracle.

Enhancements

MediaServer Admin has been enhanced with new features to create and manage the new Stored Documents Containers, manage the new Reporting Facility, create SQL Server Filegroups or Oracle Tablespaces, and configure a library to support high resolution previews and RSS. The Library Merging function has been enhanced to optionally keep the original Object ID, Insertion Time, and Last Write Time of the original object, and to allow the merged object to reference the original object's high resolution documents.

The MediaServer Admin is an integral part of the new Replication Module. It is used to establish the server mode as Publisher, Subscriber, or Standalone. It locates and enumerates all libraries on a remote subscriber and can compare and verify compatibility between libraries on the publisher. The Admin utility is also used to promote a subscriber to be the publisher or standalone server, and to demote a publisher to a subscriber or standalone server.

AutoFill

Enhancements and Additions

The AutoFill facility, which can be found throughout MediaFactory and MediaGrid, has been enhanced with several new functions, such as a group of NewsML data interpretation functions, general XML content extraction functions, Crop Width, Crop Height, and Multiply and Divide. The facility has been enhanced with new operators, including the 'IF EMPTY or ZERO' operator for improved handling of integer and real numbers, and the 'IF NOT EMPTY' and 'IF NOT EMPTY or ZERO' operators.

A new feature, called shortcuts, has been added in which complex AutoFill instructions can be specified with a single menu selection. PhotoMechanic and EXIF variables have been added for use by the Image Processing Channel.

A new normalized treatment of list items is now available, including support for operations on Text Lists and Text List items. The AutoFill function parameter syntax has changed to a simpler and clearer 'key=value' format. Finally, the AutoFill Instruction Edit Dialog has been improved and allows the user to increase or decrease the height of fields so that the entire subinstruction can be viewed without scrolling.

MediaServer Maintenance

Linux / Oracle Support

All aspects of the MediaServer Maintenance facilities have been updated and enhanced to support both MediaServer platforms - Windows Server with SQL Server and Linux RedHat Server with Oracle.

Enhancements

Maintenance now supports the cleanup of 'old' projects, the new stored documents containers, the new replication control and data flows, the latest version of the Autonomy (formerly, Verity) search engine, high resolution previews, and event reporting.

Documentation

All manuals and online help have been updated to reflect the new features, with additional detail added for existing features.