

DocuBrain® TechDoc

Release Notes



A DocuBrain® Product

<http://docubrain.com/>

By Prevo Technologies, Inc.

<http://www.prevo.com/>



DocuBrain® TechDoc 8 Release Notes

New Features and Improvements

DM-74: Add Projects for Associating Documents

Added projects to associate/group documents together. It is very common for multiple documents to be needed while working on a project. Initially, the project will mainly be used for simply associating a group of documents together. In the future, projects will be expanded to provide more functionality based on user feedback.

DM-247: Document and Generation Attachments

Added the ability to upload attachments to a document or one of its generations. Attachments need to appear on the appropriate "Show" pages and the DM status and retrieval page. To access an attachment, the requester must have read access to the document or generation that it is attached to.

DM-456: Add an RMA Cutoff Date (Retention Start Date) per CR 21419

Prior to TechDoc 8, TechDoc always used the Release Date of a document as a hardcoded cutoff date. Flexible Cutoff column support has been added to the RMA File Plan to determine what column or keyword should be used as the Cutoff Date. In addition, an optional Cutoff Trigger keyword has been added to the RMA File Plan. If specified, the specified keyword and optionally the value must be present in addition to the Cutoff Date being set to trigger the fact that retention should actually be started. The trigger can be a keyword on the document, record, or record set.

DM-473: Add a new Mass Cancel Document feature for CR 23410

The ability to mass cancel a large number of documents at once has been added to TechDoc. The user provides the revision, a file, and whether the file should be rendered or not (if applicable). The file is then added to each document as the final generation of the document and then cancelled with the specified revision.

DM-486: Allow Modify Remote Email to Specify a Remote Email That Already Exists

Modify Remote Email has been enhanced to allow a remote email to be specified that already exists in the system. This would allow the following situation to be handled: Consider that a DM has the remote emails john.doe@example.com and john.a.doe@example.com used. Both emails were considered valid and referred to the same person. However, now you

want to decommission the first email and have it replaced everywhere it occurs by the second email. This change allows the remote emails to be "merged" into one.

DM-491: Add System Property to define which hyperlinks and generations that Status and Retrieval display

Added the ability to change what the Status and Retrieval servlet will display to assist SSC in dealing with ISO audit findings they received. A new drop down system property called "*StatusRetrievalFetch*" has been added. The following choices are available:

- All Fetchable and Shown (Original behavior before this was added)
- Latest Release Fetchable, Others Still Shown
- Latest Release Fetchable, No Others Shown
- All Released Fetchable, Others Still Shown
- All Released Fetchable, No Others Shown

DM-493: Update TechDoc to use Tomcat 7

TechDoc has been updated to use Tomcat version 7. TechDoc was using Tomcat 5.5, which will not be supported for much longer.

DM-494: Upgrade DM to use new JRE for TechDoc 8

The JRE (Java Runtime Environment) used by TechDoc has been upgraded to support 64-bit. This allows TechDoc to take advantage of automatic performance improvements and larger memory support.

DM-498: Add support for the File Name to be placed in the Title of Documents Created with the TechDoc Client

Support has been added for allowing the file name to be used for the title of Documents created using the TechDoc Client.

DM-500: Update the Look and Feel of the DM

The Look and Feel of TechDoc was outdated. The color schemes and all the icons have been updated. Also, layouts have been changes to allow for more compact display of various items.

DM-502: Allow an Attachment when Casting Vote

A request was made to allow an attachment to be uploaded as part of casting a vote. When this is done, the attachment is automatically added to the discussion item that is created for that particular vote.

DM-504: Add support for Office 2010 Differences in the Text Extractors

Minor differences are possible with embedded objects between Office 2007 and Office 2010. The Office text extractors have been improved to handle the differences when present so that all text is extract.

DM-505: Add new Interim Certificate Authority that is required by NSSC

NSSC recently installed a new certificate on their AP Pooling SM. Once they installed it, the DM started having trouble sending updates to the SM. The issue is the new interim certificate authority that the certificate was signed by. TechDoc has incorporated the new interim certificate authority into the TechDoc 8 stack so that it will automatically be available.

DM-506: Create and Add Extraction Context to the Text Extractor Interface

The text extractor interface in TechDoc 7 and below is becoming difficult to handle various PDF and Microsoft Office 2007/2010 issues that we have encountered. The new Extraction Context provides an object that understands the context of the current text extraction target file and provides helper methods to the extractors attempting to actually extract the text. The new context will allow TechDoc to add additional helper methods without the need to modify the interface any more after this change.

DM-507: Add Ability for Folder Shares to Open Documents in New Windows

A request was made to have Folder Shares open Documents in a new browser window. The reason is when viewing a Folder Share in a SharePoint web part, it would be very desirable if the document would open in a new window because normally web parts are not very large so viewing the document in the web part itself is very constraining.

DM-509: Add Optional Create Date and Non-Resident Document Support to REST Protocol

The REST protocol was missing two features that were needed when REST was being used in TechDoc 7 for a migration effort. First, an optional create date needs to be supported by Create Document. When missing, the current date and time will automatically be used to maintain backward compatibility. Second, the client needs to support non-resident documents. These two capabilities have been added to TechDoc.

DM-511: Add Support for Files Larger than 2GB

As requested, TechDoc now supports files larger than 2GB. Note that most browsers have trouble uploading files this large. However, the TechDoc Client can easily handle this with its use of chunked encoding. In addition, the TechDoc Client is many times faster at uploading files than a browser is anyway.

DM-512: Add Support to the DM for SQL Server 2012

TechDoc 8 includes an updated SQL Server 2012 JDBC driver that can take full advantage of SQL Server 2012. TechDoc 8 officially supports SQL Server 2008 and SQL Server 2012. The Microsoft driver no longer supports SQL Server 2000 at all.

DM-513: Add the Outlook Mime Type to DM

The Mime Type for Outlook messages has been added to the DM and the IMAP/IMAPS services used by Outlook and other email clients has been updated to default to assigning that Mime Type to uploaded email messages.

Prior to 7b, TechDoc defaulted to always assigning "message/rfc822" as the Mime Type for emails. The problem with that is that when a user attempts to view the email from TechDoc using IE, IE attempts to view the email but always displays an empty page. By setting emails to the Outlook Mime Type, IE will use Outlook to view the email and then the contents of the email will be correctly displayed.

DM-514: Delete Folder Needs To Allow a Folder Tree with No Documents to Be Deleted

Delete Folder has been improved to allow a folder tree to be deleted. However, to prevent the large scale deletion of documents accidentally, the folder can contain folders but it and any child folders in the tree cannot contain any documents. This way Mass Delete Document can be used to knowingly remove a large number of documents and Delete Folder can then be used to quickly clean up the folder tree that is left behind.

DM-515: Optimize Reports for Documents with Keyword Criteria

When running Document reports on systems with large numbers of documents and keywords, it was possible to create reports that take an extremely long time to complete. The issue arises when many keyword criteria are specified on the report.

The Reports SQL generator has been improved for this condition and the same queries that were taking hours now complete in seconds.

DM-516: Add Snapshot Isolation to the DM Database

Since TechDoc 8 requires a minimum of SQL Server 2008 R2, we can now enable to use snapshot isolation to eliminate read locking from the database. This became apparent after seeing an issue with a long running report on a server at KSC. Enabling snapshot isolation will prevent this from happening.

DM-517: Allow Group to be deleted if it has Associations

A request was made to allow groups be to be deleted if they have associations. A warning is displayed on the Delete Group servlet so that the user will realize associations will be lost.

DM-521: Add REST Privilege to Restrict Use of TechDoc Client and Other REST-Based Applications

A request was made to add the REST privilege to restrict which users can use the TechDoc Client and other REST-based applications. This was requested by the TechDoc working group due to the concern about how easy it is to upload large amounts of data to TechDoc.

DM-522: Update CSS to Deal with Recent Change to IE9

Changes to IE9 caused a rendering of the new look and feel that was not quite right under IE9. The output still looked fine under Firefox, Safari, Chrome, and Opera. Adjustments were made so that the output looked fine in all browsers.

DM-523: Improve SAML to Work on Servers with Multiple Host Names

Prior to 7b, SAML may not work well on a server that has multiple host names assigned to it. The method used to determine the server's host name could potentially return any one of the host names causing SAML to have problems logging users in. TechDoc now uses the *ExternalBaseUrl* system property (when present) to determine the host name to use when communicating with SAML identity providers.

DM-524: TechDoc Client Doesn't Handle a Server that is Not Configured for SSO

Prior to 7b, the TechDoc Drag and Drop Client had an issue when you configured the Client to use SSO but the Server was not configured for SSO. An improvement has been made in TechDoc that allows the user to receive a message informing them that SSO cannot be used with that particular server.

DM-525: Modify Cabinet does not work from the TechDoc Client

An improvement was made to the REST protocol used by the TechDoc Client so that cabinets can be modified. Prior to 7b, a user could modify folders but they could not modify cabinets. Of course, the user must still have the appropriate privilege and access to modify a cabinet.

DM-526: Update the DM Default Authenticator System Property to Document the Impact on SSO

The description on the DM's *DefaultAuthenticator* system property has been updated to make it obvious that choosing an SSO (Single Sign-On)

authenticator such as the SAML authenticator will cause the DM to automatically use SSO for log in requests.

DM-527: Change DM TechDoc Tomcat Ports to Avoid Collisions

The Tomcat port numbers have been changed on the DM. Numerous issues with the port numbers have occurred because they are the default port number for Tomcat and more products are embedding Tomcat. By moving them, TechDoc is less likely to run into conflicts with other Tomcat-based applications.

DM-531: Add BPMN 2.0 Workflow Support to TechDoc

A BPMN 2.0 workflow engine has been added to TechDoc. The workflow engine can automate business processes that don't even involve document management. Many TechDoc-specific service tasks have been added to support document management workflows. In addition, workflows can be triggered by specific commands. For instance, a trigger can be generated so that when a document is created with the Doc Type of Invoice, run this workflow ABC on the document. A WYSIWYG BPMN 2.0 editor has been adapted to work with TechDoc to allow users to graphically create a workflow and then deploy it to TechDoc.

DM-532: Handle Smart Quotes Pasted into Various Input Fields

When copying data from sources like Office products to text boxes in TechDoc, smart quotes and various other Unicode characters can cause errors. Improvements have been made to translate these special characters back to their standard ASCII representation to avoid the errors from occurring.

DM-533: Adjust Memory Allocated to Tomcat during DM Installation

As TechDoc moves to 64-bit environments and larger systems, Tomcat needs to automatically take advantage of the larger resources available. Starting with TechDoc 8, the installer attempts to allocate reasonable memory limits to Tomcat based on available resources rather than assigning a small "should run" everywhere setting.

DM-534: Add Keywords as a Column on Document, Project, Record, and Record Set Reports

A request was received to allow a Keyword to be shown as a column on a Document report. In performing the work required, it was determined that Keywords should be added as columns for Projects, Records, and Record Sets. There was limited additional work required to add the functionality to all four report types at the same time.

DM-535: Add Search Folders with Selectable Columns

The Search Folder concept from the TechDoc Client has been introduced into TechDoc. A user can create a Search Folder with arbitrary document criteria and all matching documents that the user has read access to will appear in the search folder. In addition, the user can decide which columns will be shown when the documents are displayed.

DM-536: Add support for Office Open XML Thumbnails that use the EMF Format

Microsoft Office can now use EMF thumbnails in addition to JPG thumbnails that Microsoft Office used previously. The Office Open XML Thumbnail renderer has been updated to look for EMF thumbnails so that thumbnails can be produced for either type of Microsoft Office document.

DM-537: Update TechDoc 8 Installer to Configure IIS to Pass Errors Back to Client

Due to issues experienced at NSSC, the TechDoc 8 installer has been updated to ensure that the error handling setting on IIS web sites where TechDoc is installed is set to pass through mode. This will avoid the problem NSSC and other may encounter when surface hardening their IIS servers.

DM-539: Add a Text Extractor for Visio VSD Files

A TechDoc text extractor has been created that specifically handles Visio VSD files. In the past, TechDoc used the fallback text extractor that simply attempts to extract any strings of text that appear in the file whether they are valid or not.

DM-540: Improve the DM to Handle Working on Servers with Multiple Host Names

Servers running TechDoc are starting to be set up with multiple host names. Different parts of the DM (email, logging, etc.) might display different host names. The system has been updated to always use the *ExternalBaseUrl* system property (when present) to determine the host name.

DM-541: Add Temp Folder Checking on DM Start Up

If the *temp* folder used by Java is missing, the DM can experience numerous problems that Java does not report as errors. In the rare event that the *temp* folder is missing, the DM will now attempt to create that folder on startup.

DM-543: Update REST Document Search Service to Support All Document Columns

Prior to 7b, the REST Document Search Service used by the TechDoc Client only supported a select number of Document columns to be specified. In order to improve performance of a couple operations and enable more functionality in the future, the service can now return all Document columns.

DM-544 Add a Progress Indicator When Uploading Files

As part of improving the DM look and feel under issue DM-500, the Dojo toolkit has been incorporated into TechDoc. The Dojo toolkit made it easier to add a progress indicator when uploading files. Also, there has been a long standing issue we with the Previous and Cancel button on a file upload screen. When either one of them is pressed, TechDoc would still have to upload the file (if one had been chosen), before the button press could be handled. This issue has been addressed.

DM-545: Add Nonresident URL to Generation

Nonresident Generations can now have a Nonresident URL assigned to them. DM's and SM's now use this Nonresident URL as the fetch URL so that the Generation can be fetched from its non-TechDoc location.

DM-546: Add Navigation Crumbs to the Explorer

A request was made to we add navigation crumbs to make it easier to navigate around in the Explorer. Since, the full path to the Cabinet, Folder, or Document is already displayed in the heading, TechDoc now makes all the components in the full path clickable (similar to the portions of the path being clickable in the Windows Explorer). Also, when focused on a generation, TechDoc now displays the parent folder above the document. It only takes up one line and but make navigate back to the parent folder easier.

DM-547: Add Revision as a Column in the Explorer

A request was made to add the Revision column in the explorer. With the new changes for the action gear, it really makes sense to be able to see the revisions on documents and generations.

DM-548: Add an Action Gear to Various Brief Items

As part of the user interface improvements, action gears have been added to various brief items. The purpose of an action gear is to query the system at the time the user click on it and display a popup menu of available actions the user can perform on the item the action gear belongs to. This allows for use cases like click on a folder, seeing that one of the documents has not been released yet, and using the action gear beside the document to release it without having to drill into the document first.

DM-549: Add Web 2.0 Widgets to TechDoc

As a part of improving the Look and Feel of TechDoc, Web 2.0 widgets have been added to TechDoc to improve usability. Examples include: Date and Date/Time widgets, Editable Combo Boxes for searching items by wildcard

or drop down selection, Picker for choosing users and groups to send email to, rich text editor for composing email text.

DM-550: Add Change Password Feature for Improved Security and Usability

For improved security, locally authenticated users can change their password without having to first enter their current password. The password changing logic in the "Modify Myself" servlet has been removed and a new "Change Password" servlet has been added which requires the old and new passwords to be entered before the change can take place.

DM-551: Improve Review Vote Request Subject on Email

Per request, the subjects have been improved on emails that are sent to voters to be more user-friendly. Here are examples of the four email subjects that have been improved:

Your vote is requested on the review of PHOTO-123, Rev A, "Test Photo"
Voting has been paused on the review of PHOTO-123, Rev A, "Test Photo"
Voting has resumed on the review of PHOTO-123, Rev A, "Test Photo"
Your vote is no longer needed on the review of PHOTO-123, Rev A, "Test Photo"

DM-552: Add Support for Visio 2013 Thumbnails

Visio 2013 has introduced a new XML format (VSDX) that finally compares to the XML formats introduced by other Office products in previous versions. Thumbnail support has been added for this new format.

DM-553: Add Support for Visio 2013 Text Extraction

Visio 2013 has introduced a new XML format (VSDX) that finally compares to the XML formats introduced by other Office products in previous versions. Text extraction support has been added for this new format.

DM-554: Add Compose Email to Document, Generation, and Project

A new Compose Email capability has been added to the Document, Generation, and Project. The feature also easy selection of users and groups, rich text editing, and inclusion of various hyperlinks applicable to the item email is being created for.

DM-556: Add Ability to get Document Statistics

Many requests have been received to find out how many documents, how many generations, or how much space is being taken by documents with various characteristics. A new Document Statistics feature has been added that can quickly allow Admins to determine these types of usage statistics.

DM-558: Add Partition Information to File Areas on the DM

Partition information has been added to the File Area displays. Previously, a TechDoc Admin would usually have to contact systems people to see how large the partition is where the File Area is stored.

DM-560: Add Document Default Associations to a Folder

Now document default associations can be applied to a folder. These associations are then automatically added to documents when they are created. In addition, when document default associations are changed on a folder, the user can decide to change the current associations on documents under the folder; they are also given options about how the changes should be applied (merged, overridden, or completely replaced).

DM-561: Add Access and Mail List Inheritance for Documents and Folders

When a document is created inside of a parent cabinet/folder, it inherits any default document associations that are stored on that parent. When a folder is created inside of a parent cabinet/folder, it inherits all of the parents associations. When associations are changed on a cabinet/folder, the user is now given the option to apply the changes to the children below it. If they wish to make changes to the children below; they are also given options about how the changes should be applied (merged, overridden, or completely replaced).

DM-562: Change OK Button for Quick Search on Main Menu to an Image

Multiple reports were received of people mistakenly clicking the OK button for the Quick Search on the Main Menu bar instead of clicking on the OK button inside the main content area. The Quick Search OK button has been changed to use an image instead.

DM-563: Add Release to a Generation

A release option has been added to a generation's side menu. Many users have complained that it is annoying to have to navigate back to the document to release the generation. Also, a generation's action menu will have the feature too (when appropriate).

DM-564: Add Unrelease to a Generation

An unrelease option has been added to a generation's side menu. Many users have complained that it is annoying to have to navigate back to the document to unrelease the generation. Also, a generation's action menu will have the feature too (when appropriate).

DM-565: Add New Iterators to Records to Reduce Memory Usage in TechDoc

TechDoc continues to strive to reduce memory usage wherever possible, especially as document counts continue to grow. With new features available to TechDoc 8 by using Java 7, new record iterators can easily be used to replace other methods that consume more memory. Additional focus will be placed on continuing this work in TechDoc 8a.

DM-567: Rename Lists to Groups

As requested, lists have been renamed to groups to match the terminology of most other systems. The word List has been very confusing for users because everyone thinks of the term as a generic list of things.

DM-570: Add *Utils* from CSV Import Utility to TechDoc 8 for Inclusion with Scan Agent 8

While performing imports for the CAPPs closeout at KSC, many utility functions for processing of data were needed. These utility functions could be very handy for anyone to use. This "*Utils*" class has been imported into the td script package so all JavaScript-enabled applications can take advantage of it. This will be especially useful for Scan Agent.

DM-573: Add Nonresident Document Support to Scan Agent

Scan Agent 8 now allows uploading of non-resident documents as requested. Previously, only resident documents could be uploaded via the Scan Agent.

DM-574: Update the VIX API to Support VMware 5.1

The VIX API used by TechDoc to control a Render VM running under VMware has been updated to version 12 to add support for VMware 5.1.

DM-576: Modify the Render Task so that Lower Priority Renders Can Be Handled

While working on a large migration, it became apparent that it would be very advantageous to have the render task allow lower priority renders to be queued that do not hold up interactive users. Changes have been made to support this.

DM-577: Change Default Submit Order on Resubmit All Documents

As requested, the default order on the Resubmit All Documents to an SM command has been changed. Previously, they were resubmitted in whatever order they are returned from the database. Now the "Newest Documents First" order is the default, which seems to make since for most use cases. Also, while making this change, the language for the "are you sure" messages was strengthened so that the requester better understands the impact of their actions.

DM-584: Add Deleted File Logging for Replace Document

Logging of deleted files was added to TechDoc 6 to make it possible for System Admins to recover files from backups when users inadvertently delete them. Deleted file logging was not added to Replace Document, which can delete a generation if the user clicks the Overwrite option. The logging has been added for this condition in TechDoc 8. In addition, deleted file logging was also improved to assist with the recovery of encrypted files. The Sys Admin guide has been updated to include a subsection specifically detailing how to recover deleted files.

SM-96: Remove Keyword History out of the SM Show History Servlet

While working on SM Admin Help, it was discovered that the Show History servlet has sections in it to support Keywords. However, there is no history for Keywords. This support was removed from the Show History servlet to remove the unnecessary code and prevent confusion in the future.

SM-97: Add Advanced Search and Quick Search to the SM

While working on the SM Admin Help, it was noticed that some SM history was not discoverable because of the lack of Advanced Search like the DM has. Advanced Search has been added to the SM. Also, to allow for the same look and feel to the screens between the DM and the SM, Quick Search was added to the SM as well. In this release, the SM's Quick Search will only provide quick searches for users.

SM-98: Upgrade SM to use new JRE for TechDoc 8

The JRE (Java Runtime Environment) used by TechDoc has been upgraded to support 64-bit. This allows TechDoc to take advantage of automatic performance improvements and larger memory support.

SM-101: Update the Look and Feel of the SM

The Look and Feel of TechDoc was outdated. The color schemes and all the icons have been updated. Also, layouts have been changes to allow for more compact display of various items.

SM-103: Add Support to the SM for SQL Server 2012

TechDoc 8 includes an updated SQL Server 2012 JDBC driver that can take full advantage of SQL Server 2012. TechDoc 8 officially supports SQL Server 2008 and SQL Server 2012. The Microsoft driver no longer supports SQL Server 2000 at all.

SM-104: Add Snapshot Isolation to the SM Database

Since TechDoc 8 requires a minimum of SQL Server 2008 R2, we can now enable to use snapshot isolation to eliminate read locking from the

database. This became apparent after seeing an issue with a long running report on a DM at KSC. Enabling snapshot isolation will prevent this from happening.

SM-105: Update the SM Default Authenticator System Property to Document the Impact on SSO

The description on the SM's *DefaultAuthenticator* system property has been updated to make it obvious that choosing an SSO (Single Sign-On) authenticator such as the SAML authenticator will cause the SM to automatically use SSO for log in requests.

SM-106: Change SM TechDoc Tomcat Ports to Avoid Collisions

The Tomcat port numbers have been changed on the SM. Numerous issues with the port numbers have occurred because they are the default port number for Tomcat and more products are embedding Tomcat. By moving them, TechDoc is less likely to run into conflicts with other Tomcat-based applications.

SM-107: Adjust Memory Allocated to Tomcat during SM Installation

As TechDoc moves to 64-bit environments and larger systems, Tomcat needs to automatically take advantage of the larger resources available. Starting with TechDoc 8, the installer attempts to allocate reasonable memory limits to Tomcat based on available resources rather than assigning a small "should run" everywhere setting.

SM-109: Improve the SM to Handle Working on Servers with Multiple Host Names

Servers running TechDoc are starting to be set up with multiple host names. Different parts of the SM (email, logging, etc.) might display different host names. The system has been updated to always use the *ExternalBaseUrl* system property (when present) to determine the host name.

SM-110: Add Temp Folder Checking on SM Start Up

If the *temp* folder used by Java is missing, the SM can experience numerous problems that Java does not report as errors. In the rare event that the *temp* folder is missing, the SM will now attempt to create that folder on startup.

SM-113: Add Partition Information to File Areas on the SM

Partition information has been added to the File Area displays. Previously, a TechDoc Admin would usually have to contact systems people to see how large the partition is where the File Area is stored.

SM-114: Change OK Button for Quick Search on Main Menu to an Image

Multiple reports were received of people mistakenly clicking the OK button for the Quick Search on the Main Menu bar instead of clicking on the OK button inside the main content area. The Quick Search OK button has been changed to use an image instead.

SM-115: Update Lucene to the Latest Version for TechDoc 8

The Lucene search engine used by TechDoc has been updated to the latest version to improve performance and reduce memory consumption.

SM-117: Remove Clustering from the Remote Host Index on the Documents Table

In working on a problem at KSC, it appeared that the issue could be tied to a clustering index on the Documents table in the Search Manager. In examining the index, it was felt that the index shouldn't be a clustering index anyway. The clustering has been removed from the Remote Host Index in TechDoc 8.

SM-118: Add Rebuild Index Command into the SM in Support of Upgrading Lucene

A Rebuild Index command has been added to the SM to automate rebuilding of the index when we upgrade Lucene. In the past, an Admin was required to perform a manual process to upgrade the index. By adding the Rebuild Index command, an Admin can manually request that the index be rebuilt from the UI but it also provides the ability to queue the command as part of the upgrade process.

SM-119: Add Optimize Index Command into the SM in Support of Upgrading Lucene

An Optimize Index command had been added to the SM to automate optimizing of the index. In the past, an Admin to perform a manual process to upgrade the index. By adding the Optimize Index command, an Admin can manually request that the index be optimized from the UI but it also provides the ability to queue the command as part of the upgrade process.

Problems Resolved**DM-492: Fix Original PDFbox Temp File Closed Too Early Issue**

An issue was identified that existed in the original PDFbox library. Some of the parser objects accept a handle to a temporary file and then attempt to close it in their finalize method. This should not be done and has been corrected.

DM-496: Make Sure Build Date is always Correct on DM *About* Screen

While working on DM-491, the build date on the *About* screen of the DM was found to be incorrect. Update 27 to Java 6 changed behavior that caused TechDoc to sometimes load the incorrect build properties file. Changes have been made to TechDoc to ensure that the correct build properties file is always interrogated for the build date.

DM-503: Can't Vote Again to Change Comments if the Type of Vote Doesn't Change

Previously, if you re-voted and tried to change the comments but you don't change the type of vote (for example, leaving it Approved), the system would say that nothing has changed and wouldn't record the new comment. This has been corrected so that you can simply change the comments without changing the type of vote.

DM-528: Update BDL Protocol Authorization to Handle IPv6

A problem has been corrected that prevented a remote application from using the BDL (Bulk Document Loader) protocol when the remote server is running on IPv6. The authorization element no longer requires the IP address to be passed. The Version 1 authorization type can now be used with any hardcoded IPv4 address since it is ignored (such as 127.0.0.1). A new Version 2 authorization type has been added that does not require any IP address to be specified at all.

DM-555: Fix Report Problem with Order by and Multiple Virtual Columns

If a user specified multiple virtual columns to display, a non-virtual column to display, and then ordered on the non-virtual column, it resulted in a SQL error. TechDoc only has a couple of tables that even have more than one virtual column. Now that individual Keywords can be added as virtual columns to a Document report, it's very easy to test.

SM-99: Make Sure Build Date is always Correct on SM *About* Screen

While working on DM-491, the build date on the *About* screen of the SM was found to be incorrect. Update 27 to Java 6 changed behavior that caused TechDoc to sometimes load the incorrect build properties file. Changes have been made to TechDoc to ensure that the correct build properties file is always interrogated for the build date.

SM-100: History Display Could Have Problem when IP Address is not set

A display issue was found when an SM history record has an IP address that has not been set. The issue was introduced when IPv6 support was added. The issue was handled on the DM but was not handled on the SM. The issue can occur much more frequently on a DM than an SM because an SM rarely creates history records with null IP addresses.

SM-111: Increase the Released File Name Length to 255 to Match the DM

In a previous version of TechDoc, the DM increased the allowed Generation file name to be 255 characters. However, a corresponding file name length was not changed in the SM. The length of a released file name on the SM has been increased to 255 characters to prevent index problems on a caching SM when the released file name is larger than 128 characters.

SM-112: Fix Cross Site Scripting (XSS) Finding Reported on the SM

A possible Cross Site Scripting (XSS) finding was reported for "Show Lookup List" on a NASA security audit. The issue appears to be that an invalid host name can be added to the Title element of the HTML output without being encoded.

In testing, the title does not appear to actually enable an XSS attack. But to remove the possibility that a future browser might allow it, the title is always encoded now to ensure that it can't happen.