

**Drawing Management Phase 2**

**Functional Specifications Document**

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1. CheckInController

**Description:** This controller is used by the bulk upload process to validate drawings, upload new version, and promote nodes to pending CDM Processing when necessary.

* 1. GetValidationResponse()

**Description:** This Function is called when users drag documents into the bulk upload page to upload new versions. This is the function that validates if a user has access to upload new versions and checks each drawing node to make sure that it is in a state where the engineers can upload a new version to it. This method will return a message indicating if the drawing passed validation or not.

**Actions that call this method:**

1. Dragging documents into the “Bulk Upload” page.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. Kuaf
2. KuafChildren
3. Dtree
4. Crt\_Revision
   1. GetUploadResponse ()

**Description:** This function will upload a new version to the node in content server which has the same name as the filename provided. Additionally, if the user has the check box selected to promote to cdm processing this function will also promote the drawing to pending cdm processing. When the upload for a drawing is completed the function will return a response with a detailed error or a validation message.

**Actions that call this method:**

1. Clicking the “Check In” button on the bulk upload page. into the “Bulk Upload” page.

**Stored Procedures used by this method:**

1. CSP\_CDMSUITE\_DoBatchTransition

**Tables Used by this method:**

1. Kuaf
2. KuafChildren
3. Dtree
4. Crt\_Revision
5. LM\_Lifecycles
6. Lm\_def\_states
7. DetailController

**Description:** This controller is used to retrieve all the details associated with a nodeid.

* 1. GetDetailByID ()

**Description:** This function is used to retrieve all the metadata associated with a node Id.

**Actions that call this method:**

1. Clicking on a row item in the search results of the CDM Library or CDM Dashboard to load the document metadata in the bottom pane.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. Dtree
2. RMSec\_DocSuppMark
3. CRT\_REVISION
4. C\_CDMSUITE\_widgets
5. DrawingGenerationController

**Description:** This controller is used to request drawing numbers, generate new drawing numbers, and reject or approving drawing number requests.

* 1. GetUserSettings ()

**Description:** This function is used on page load for drawing number requests and approvals. It will return all page form settings and user settings needed to load the page data and check user permission.

**Actions that call this method:**

1. Drawing Number Request
2. Drawing Number Approval

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. Kuaf
2. KuafChildren
3. Dtree
4. c\_CDMSUITE\_widgets
5. C\_CDMSUITE\_DrawingRequest
   1. RequestDrawingNumbers ()

**Description:** This function is used to record that a drawing number request has been submitted. If a drawing number request was submitted by a member of CDM, the drawing numbers will be generated automatically.

**Actions that call this method:**

1. Pressing the “Submit Request” button on any of the drawing request forms.
2. Pressing “Approve Request” on the drawing request forms.

**Stored Procedures used by this method:**

1. CSP\_CDMSUITE\_ReserveDrawingNumbers

**Tables Used by this method:**

1. Kuaf
2. KuafChildren
3. Kini­
4. Dtree
5. C\_CDMSUITE\_DrawingRequest
   1. viewPendingRequests ()

**Description:** This function is used to get all the pending drawing number requests that have not yet been approved or rejected by CDM.

**Actions that call this method:**

1. Clicking the “Review Drawing Number Requests” button.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. Kuaf
2. KuafChildren
3. Kini­
4. C\_CDMSUITE\_DrawingRequest
   1. rejectDrawingNumberRequest ()

**Description:** This function is used by CDM to reject a drawing number request.

**Actions that call this method:**

1. Pressing the “Reject Request” button on the drawing request forms.

**Stored Procedures used by this method:**

1. CSP\_CDMSUITE\_ReserveDrawingNumbers

**Tables Used by this method:**

1. Kuaf
2. KuafChildren
3. Kini­
4. C\_CDMSUITE\_DrawingRequest
5. FileManagerController

**Description:** This controller is used to retrieve files from the backend and return them to the user’s browser.

* 1. GetFileByID ()

**Description:** This function is used to retrieve a file by its node id.

**Actions that call this method:**

1. When a user click on the view button to view the pdfs on the CDM Library .
2. When a user click on the thumbnale in the preview pane of the CDM Library
3. When a user click on the thumbnale in the preview pane of the CDM Dashboard.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. N/A
   1. GetThumbnailByIDAndWidthHeight ()

**Description:** This function is used to retrieve a file’s thumbnail by its node id.

**Actions that call this method:**

1. a

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. N/A
   1. GetFileByDrawingNumber ()

**Description:** This function is used to retrieve the latest version of a drawing using its drawing number.

**Actions that call this method:**

1. N/A

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. **N/A**
2. FormValidationController

**Description:** This controller is user to validate that the drawing numbers in the drawing number request forms do not already exist in the system.

* 1. GetFileByDrawingNumber ()

**Description:** This function is used on drawing request forms where the users can type in the drawing number they are requesting. The function takes in a list of drawing names that are being requested and it verifies if they already exist in the adnids table.

**Actions that call this method:**

1. Validation on the form before the drawing number request is submitted.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. Adnids
2. IssuedDrawingsController

**Description:** This controller is user to manage the validation and uploading of the scanned issued viewable PDF’s when CDM is uploading them to the system.

* 1. GetValidateViewableResponse ()

**Description:** This function is used to validate that the issued drawing number and revision number exist in the system.

**Actions that call this method:**

1. When CDM drags and drops documents into the upload issued drawings page.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. Kuaf
2. KuafChildren
3. Kini­
4. Dtree,
5. CRT\_Revision
   1. GetUploadViewableResponse ()

**Description:** This function is used to upload the pdf viewable PDF’s and return a response to indicate if the process was successful or if the system encountered an issue.

**Actions that call this method:**

1. Clicking on the upload button on the upload issued drawings form. This function can only be called after the drawings have been validated­.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. Kuaf
2. KuafChildren
3. Kini­
4. Dtree,
5. CRT\_Revision
6. IssuedDrawingsTableController

**Description:** This controller is used to return a list of all the issued drawing revision information

* 1. GetIssuedDrawingsData ()

**Description:** Returns an array of all the issued drawing revision information.

**Actions that call this method:**

1. N/A

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. IssuedPackageController

**Description:** This controller handle the operations of editing metadata, copy and pasting category metadata to the user’s preferences, and signing in drawings.

* 1. getIssuedDetails ()

**Description:** This function takes in a node id and returns all the metadata associated with that dataid. Additionally this function returns all the data needed to populate the drop down value lists.

**Actions that call this method:**

1. Clicking on the edit metadata page in the CDM Dashboard.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. Kuaf
2. KuafChildren
3. Kini­
4. Dtree
5. crt\_revision
6. LM\_Lifecycles
7. LM\_Def\_States
   1. saveInfoToActiveNodeAndSignin ()

**Description:** This function takes in all the data that was filled into the edit metadata form and then updates the metadata of the active node, and the vault node, then signs the drawing into the vault.

**Actions that call this method:**

1. Clicking on the update and sign in button in the edit metadata page in the CDM Dashboard.

**Stored Procedures used by this method:**

1. CSP\_CDMSUITE\_DoBatchTransition
2. CSP\_CDMSUITE\_SignInRevision

**Tables Used by this method:**

1. Kuaf
2. KuafChildren
3. Kini­
4. Dtree
5. CRT\_PROJECT
   1. saveNodeMetadata ()

**Description:** This function takes in all the data that was filled into the edit metadata form and then updates the metadata for that node.

**Actions that call this method:**

1. Clicking on the update button in the edit metadata page in the CDM Dashboard.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. Kuaf
2. KuafChildren
3. Kini­
   1. DemoteNode ()

**Description:** This function takes in the dataid of a drawing that is in the active documents and demotes it back to work in progress.

**Actions that call this method:**

1. Clicking on the Demote button in the edit metadata page in the CDM Dashboard.

**Stored Procedures used by this method:**

1. CSP\_CDMSUITE\_DoBatchTransition

**Tables Used by this method:**

1. Kuaf
2. KuafChildren
3. Kini­
4. CRT\_REVISION
5. LM\_Lifecycles
6. Lm\_def\_states
   1. GetNodeCategoryLink ()

**Description:** This function returns the link that is needed to add a category to a node in content server.

**Actions that call this method:**

1. Clicking the add category button on the edit metadata page of the CDM Dashboard.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. DTree
   1. getDrawingClipboard ()

**Description:** This function retrieves the information saved to the user’s profile using the copy feature in the edit metadata page.

**Actions that call this method:**

1. Clicking on any of the copy or paste buttons in the edit metadata page.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. c\_CDMSUITE\_Users
   1. copyDataToClipboard ()

**Description:** This function updates the user’s clipboard information to their user profile when they use the copy feature in the edit metadata page.

**Actions that call this method:**

1. Clicking on any of the “Copy” buttons in the edit metadata page

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. c\_CDMSUITE\_Users
2. NodeAttributesController

**Description:** This controller is used to manage changes to nodes, it is used in the convert to sheet section functionality which updates the node and its ADN information.

* 1. Get ()

**Description:** This function is used to convert a drawing to a drawing with a sheet or section.

**Actions that call this method:**

1. Clicking the convert to sheet section button from the bottom right pane of the CDM dashboard.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. AdnIDs
2. CRT\_REVISION
3. DTree
4. NodeController

**Description:** This controller performs operations on nodes related to downloading and exporting.

* 1. GetUserSecurityLevel ()

**Description:** This function determines if the user has the proper security to checkout and export documents.

**Actions that call this method:**

1. This function is automatically called when the bulk checkout or bulk export page is loaded.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. Kuaf
2. KuafChildren
3. Kini­
   1. GetNodesStatus ()

**Description:** This function takes in a list of node ids and validates if they are in a proper state to be downloaded, exported, or checked out by the user.

**Actions that call this method:**

1. This function is called from the bulk export page downloadreserve.html, which allows users to export drawings or do a bulk export and checkout

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. DTree
2. CRT\_REVISION
3. LM\_Def\_States
4. LM\_Lifecycles
   1. GetCheckoutDrawings ()

**Description:** This function takes in a list of node ids and reserves them in the user’s name then downloads the drawings

**Actions that call this method:**

1. Pressing the bulk checkout button on the bulk export page

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. N/A
   1. GetExportDrawings ()

**Description:** This function takes in a list of node ids downloads them

**Actions that call this method:**

1. Pressing the Export button on the bulk export page

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. N/A
   1. GetExportedZip ()

**Description:** This function is used to return the zip file of the downloaded drawings from the server.

**Actions that call this method:**

1. Pressing the Export button on the bulk export page

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. N/A
2. PackageGenerationController

**Description:** This controller is to handle package number operations, such as creation, updating, and searching.

* 1. getPackageDetails ()

**Description:** This function is used to retrieve the details for a specific package number.

**Actions that call this method:**

1. Clicking on a package number from the package number search results page.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. C\_CDMSUITE\_IssuePackage
   1. getPackagesDetails ()

**Description:** This function is used to return all the packages associated with the search criteria in the search package form.

**Actions that call this method:**

1. Clicking the search button on the package number search form.

**Stored Procedures used by this method:**

1. C\_CDMSUITE\_IssuePackage

**Tables Used by this method:**

1. N/A
   1. GetUserSettings ()

**Description:** This function is used to determine if the user is a CDM user or not.

**Actions that call this method:**

1. This function is automatically called on page load for the package number generation page.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. Kuaf
2. KuafChildren
3. Kini­
4. C\_CDMSUITE\_IssuePackage
   1. GetFormLookups ()

**Description:** This function is used to return the form lookups for the package number generation form.

**Actions that call this method:**

1. This function is automatically called on page load for the package number generation form.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. CV\_CDMSUITE\_PNG\_Lookups
   1. GetSearchLookups ()

**Description:** This function is used to return the lookups for the package number search form.

**Actions that call this method:**

1. Automatically called on page load of the package number search form.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. C\_CDMSUITE\_IssuePackage
   1. SavePackage ()

**Description:** This function is used to update package number information or create new package numbers.

**Actions that call this method:**

1. Pressing the save button on the package number generation form.
2. Pressing the save button on the package number details form.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. C\_CDMSUITE\_IssuePackage
2. PrintFormsController

**Description:** This controller handles functions related to the print request forms.

* 1. GetCartForForm ()

**Description:** This function retrieves the drawing numbers in the user’s cart along with print form data that will be displayed on the print request forms.

**Actions that call this method:**

1. Clicking on the request full size prints from the shopping cart.
2. Clicking on the request reduced size prints from the shopping cart.

**Stored Procedures used by this method:**

1. CSP\_CDMSUITE\_GetUserShoppingCart

**Tables Used by this method:**

1. N/A
   1. SendRequest ()

**Description:** This function is used to send an email request to CDM to let them know that a print request has been submitted.

**Actions that call this method:**

1. Clicking the submit button on the print request forms.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. N/A
   1. SignOutAndSendRequest ()

**Description:** This function is used to send a print request and sign out the drawings to indicate that the engineer has the original drawing signed out.

**Actions that call this method:**

1. Clicking on the Submit button in the request originals print request form.

**Stored Procedures used by this method:**

1. CSP\_CDMSUITE\_GetLocationForSignOut
2. CSP\_CDMSUITE\_SignOutDrawing
3. CSP\_CDMSUITE\_DoBatchTransition

**Tables Used by this method:**

1. c\_CDMSUITE\_ShoppingCart
2. SearchController

**Description:** This controller handles functions related to the print request forms.

* 1. PostSearchDb ()

**Description:** This function retrieves the search results for a search executed in the CDM Suite. The retrieved information is what gets displayed in the top right pane of the CDM Library/Dashboard.

**Actions that call this method:**

1. Clicking the search button on the CDM Library or CDM Dashboard.

**Stored Procedures used by this method:**

1. CSP\_CDMSUITE\_Search

**Tables Used by this method:**

1. N/A
   1. PostSearchPrint ()

**Description:** This function retrieves drawing information for the search results in the CDM Suite for printing. The search results print limit is set in the Config file.

**Actions that call this method:**

1. Clicking on the print button on the top right pane of the CDM Suite search results.

**Stored Procedures used by this method:**

1. CSP\_CDMSUITE\_Search

**Tables Used by this method:**

1. N/A
   1. PostSearchExcel ()

**Description:** This function retrieves the drawing numbers in the user’s cart along with print form data that will be displayed on the print request forms.

**Actions that call this method:**

1. Clicking on the request full size prints from the shopping cart.
2. Clicking on the request reduced size prints from the shopping cart.

**Stored Procedures used by this method:**

1. CSP\_CDMSUITE\_Search

**Tables Used by this method:**

1. N/A
   1. ExportSearch ()

**Description:** This function is used in the bulk checkout page to return information about the drawings that are being exported or signed out.

**Actions that call this method:**

1. N/A

**Stored Procedures used by this method:**

1. csp\_CDM\_GetBulkCRTDrawings

**Tables Used by this method:**

1. N/A
2. SettingsController

**Description:** This controller handles the retrieval and updates to the user specific preferences for the CDM Library and CDM Suite.

* 1. GetUserSettings ()

**Description:** This function retrieves the user preferences for the CDM Library widgets and headers.

**Actions that call this method:**

1. This function is called automatically when the CDM Library is loaded.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. c\_CDMSUITE\_Users
2. c\_CDMSUITE\_widgets
3. c\_CDMSUITE\_ColumnHeaders
4. c\_CDMSUITE\_ShoppingCart
5. Kuaf
6. KuafChildren
7. Kini­
   1. GetDashboardUserSettings ()

**Description:** This function retrieves the user preferences for the CDM Dashboard widgets and headers.

**Actions that call this method:**

1. This function is called automatically when the CDM Dashboard is loaded.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. c\_CDMSUITE\_Users
2. c\_CDMSUITE\_widgets
3. c\_CDMSUITE\_ColumnHeaders
4. c\_CDMSUITE\_ShoppingCart
5. Kuaf
6. KuafChildren
7. Kini­
   1. SaveUserSettings ()

**Description:** This function is used to save the user’s preferences to their userid in the database.

**Actions that call this method:**

1. Clicking on the save button in the user preferences of the CDM Suite.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. c\_CDMSUITE\_Users
2. ShoppingController

**Description:** This controller handles shopping cart related operations.

* 1. GetUserShoppingCart ()

**Description:** This function retrieves the information that will display in the user’s shopping cart .

**Actions that call this method:**

1. This function when the user clicks on the shopping cart button of the CDM Suite

**Stored Procedures used by this method:**

1. CSP\_CDMSUITE\_GetUserShoppingCart

**Tables Used by this method:**

1. N/A
   1. emptyUserShoppingCart ()

**Description:** This function is used to delete all the items from a user’s shopping cart.

**Actions that call this method:**

1. Clicking the empty cart button in the shopping cart
2. Clicking on a dialog box that prompts the user if they want to empty their cart

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. c\_CDMSUITE\_ShoppingCart
   1. removeFromUserShoppingCart ()

**Description:** This function is used to delete a specific drawing from a user’s shopping cart

**Actions that call this method:**

1. When a user clicks on the X to delete a line item from their shopping cart

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. c\_CDMSUITE\_ShoppingCart

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* 1. addToUserShoppingCart ()

**Description:** This function adds items to a user’s shopping cart.

**Actions that call this method:**

1. This function is called when a user clicks on the add to cart button

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. c\_CDMSUITE\_ShoppingCart
   1. checkout ()

**Description:** This function is used to reserve active drawings that are in a user’s shopping cart.

**Actions that call this method:**

1. This function is called when a user clicks on the reserve button in their shopping cart.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. N/A
   1. checkin ()

**Description:** This function is used to unreserved all drawings that are in a user’s cart that are reserved to the user

**Actions that call this method:**

1. This function is called when a user clicks on the unreserved button in their shopping cart.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. N/A
   1. exportShoppingCart ()

**Description:** This function is used to export all drawings that are in a user’s shopping cart.

**Actions that call this method:**

1. This function is called when a user clicks on the “Export” button in the shopping cart.

**Stored Procedures used by this method:**

1. CSP\_CDMSUITE\_GetUserShoppingCart

**Tables Used by this method:**

1. N/A
   1. batchPrintDrawings ()

**Description:** This function is used to process a batch print request.

**Actions that call this method:**

1. This function is called when a user click on the “print” button in the shopping cart of the CDM Library.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. c\_CDMSUITE\_ShoppingCart
2. DTree
3. C\_CDMSUITE\_BatchDrawings
   1. cancelRevisions ()

**Description:** This function is used to cancel the revision for all drawings in a user’s cart that are currently signed out to that user. CDM can cancel revisions that are not signed out to them.

**Actions that call this method:**

1. This function is called when a user clicks on cancel revision in their shopping cart in the CDM Dashboard

**Stored Procedures used by this method:**

1. CSP\_CDMSUITE\_GetUserShoppingCart
2. CSP\_CDMSUITE\_CancelRevisions

**Tables Used by this method:**

1. Kuaf
2. KuafChildren
3. Kini­
4. c\_CDMSUITE\_ShoppingCart­
5. SignOutController

**Description:** This controller handles operations that have to do with signing out drawings.

* 1. GetCartForSignOut ()

**Description:** This function returns information needed for signing out the drawings such as if they are in the vault, in the active, a T/D standards drawing, project information , and revision information.

**Actions that call this method:**

1. This function is called when a user clicks on the sign out and checkout button in the Shopping cart of the CDM Dashboard.

**Stored Procedures used by this method:**

1. CSP\_CDMSUITE\_GetUserShoppingCart

**Tables Used by this method:**

1. Kuaf
2. KuafChildren
3. Kini­
4. CRT\_PROJECT
5. CRT\_REVISION\_TYPE\_MAP
   1. GetSignOutStatus ()

**Description:** This function is used to calculate the percentage of completion during the sign out process.

**Actions that call this method:**

1. This function is called periodically while the drawings are being signed out to display the percentage of completion to the user’s while they are signing out drawings.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. c\_CDMSUITE\_ShoppingCart
   1. SignOut ()

**Description:** This function signs out the drawings in a user’s cart.

**Actions that call this method:**

1. This function is called when the user clicks on the sign out button in the sign out and check out form.

**Stored Procedures used by this method:**

1. CSP\_CDMSUITE\_SignOutDrawing
2. CSP\_CDMSUITE\_DoBatchTransition

**Tables Used by this method:**

1. c\_CDMSUITE\_ShoppingCart
2. Kuaf
3. KuafChildren
4. Kini­
   1. downloadSignedOut ()

**Description:** This function exports the drawings that were signed out by the user

**Actions that call this method:**

1. This function is called when the user clicks on the Download button in the modal that appears after the drawings have all been signed out.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. N/A
2. WidgetsController

**Description:** This controller handles operations that have to do with signing out drawings.

* 1. GetWidgetLookups ()

**Description:** This function is used to retrieve the lookup values for a specified widget lookup.

**Actions that call this method:**

1. Clicking on the magnifying glass icon that is next to any table key lookup field.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. Custom value table is selected during run time to retrieve the values for a specific attribute.
   1. GetWidgetLookupsWithParent ()

**Description:** This function is used to retrieve the lookup values for a specified widget lookup which has a dependency on the value of a different field.

**Actions that call this method:**

1. This function is called when a user clicks on the magnifying glass icon next to the Handling Classification attribute.

**Stored Procedures used by this method:**

1. N/A

**Tables Used by this method:**

1. CV\_GLOBAL\_HANDL\_CLASS