

First Quarter 2022

January 2022

- **Simple Print** – Created the slide printing version of the simple print module to allow for direct printing as well as printing via a drop file.
- **Universal Slide Queue** – The routine did not factor in the quantity to circle through bulk print requests with a quantity. Modified this to work correctly.
- **Admin Web Site – Protocol Antibody Maintenance** – Created this screen to allow for the connection of slide protocol records (accession slide count) to antibody records to allow for multiple antibodies to be used in establishing control protocols for a protocol.
- **Admin Web Site – Control Tissue Maintenance – Full Description** – Added a full description field to allow for a different human readable description as opposed to the printed value for control tissue when printing controls.
- **Admin Web Site – Control Prefix Maintenance – Full Description and Suppress Description** – Added the full description field to allow for a different human readable description as opposed to the printed value for control prefixes when printing controls. The suppress description choice allows for no description at all to print.
- **Sample Testing Module – Inbound//Outbound Tab** – Added a check box for “All Material” in the detail view to allow for the suppression of material types that do not need to be returned vs. All material that was received on a package.
- **Admin Web Site – Specimen Holding Site Maintenance** – Created this screen to allow for the maintenance of specimen holding sites. These are the locations where a specimen could be held when a specimen needs to be requested for a client. This is part of the sample testing and customer service modules of Assist.
- **Admin Web Site – Request Rework Report – Task Scan Totals** – Added external task scan totals to this report so that there is visibility to the total number of task scans that were performed by an employee on the same day as a rework was logged against the employee.

- **Admin Web Site – Recipe Ingredient Step Maintenance – Ingredient Code Lookup** – Added the ingredient code to the screen to simplify the selection from the drop down list to keep from having to scroll through all of the ingredients if codes are used. This is part of the recipe maintenance area inside the inventory module.
- **Admin Web Site – ESL Tag Data Staging Maintenance** – Added the MAC address, Trash tag check box, the User ID field, and the Warn flag check box to this maintenance screen to support extended functionality with the ESL tag functionality.
- **Universal Slide Module** – Slide Queue/Number wheel protocol defaults – There was an issue with the logic where a number wheel (i.e. accession prefix) can be set to always call a specific protocol when batch printing is performed. The protocol was not pulling in all cases. Corrected the logic flaw.
- **Admin Web Site – Drawer Maintenance – Controls Allowed Flag** – Added this flag to the maintenance screen for the warehouse drawer maintenance. This flag allows a drawer to be marked as whether or not it allows control objects to be stored (i.e. control slide and blocks).
- **Admin Web Site – Client Specimen Holding Site Maintenance** – Created this screen to allow for the maintenance of client specimen holding site relationships. This is part of the sample testing module of Assist and allows for specimen holding sites to be filtered by the clients/Facilities that are relevant to cut down on the opportunity for mistaken entry.
- **Admin Web Site – Tissue Micro Array Maintenance – Full Description** – Added this field to allow for an expanded human readable description for a TMA that is different from the value that will print on a control object.
- **Admin Web Site – ESL Tag Batch Report** – Created the ESL tag batch report to provide visibility to the batch transactions that can be performed to set ESL tags. For example, if an ERP is blasting out multiple transactions to multiple electronic tags, this report shows the batches of tags that were impacted together.

- **LIS Interface – Truncate Right If** – Added logic to the LIS Interface module when the USB scanner field is being used to input accession numbers. This modification allows for the removal of characters from the right of the input field before attempting to parse the information.
- **Admin Web Site – Antibody Control Mapping Report** – Created this report to provide a full mapping of the antibody controls that have been set up inside Assist. This serves as the dictionary of control tissue, antibodies, pretreatments and detection kits that have been mapped into Assist.
- **Universal Grossing – Trash Bin Data View** – Added a button to the cassette point of use screen to provide visibility to the trash bins and the data that they contain. This screen also holds the transmission button for sites that have implemented electronic tags in conjunction with trash tracking.
- **Universal Slide – Serial Number Matching** – Created a new “flavor” of matching inside the universal slide module to support client submitted bar codes that cannot be controlled by the lab. Some clients submit cassettes and slides in a “serial number” marking paradigm and this alternate configuration allows for matching of these serial numbers to support in positive patient ID initiatives for bar codes that are outside of the ability of the lab to control or modify.
- **Admin Web Site – Case Rush Type Maintenance – Short Code** – Added this field to allow for the entry of a “printable” code to be associated with case rush specifications to take into the cassette/slide print routines as necessary.
- **Admin Web Site – Case Rush Maintenance – Short Code** – Modified this screen to allow for the inclusion of a short description or code to print on objects when a rush is placed on a case. This value will default from the rush type.
- **Universal Module** – Added the bulk control entry section under the warehouse to provide the ability to create “placeholders” for bulk control entry and automatic filing into the warehouse.
- **Universal Module – Warehouse Tab** – Added a view for controls to allow for display of any control objects that have been placed in the warehouse.

Provided double click ability to see all of the details associated with the control record.

- **Universal Module – Warehouse Tab** – Added the ability to double click the warehouse record to see all of the details associated with the warehouse record.

February 2022

- **Inventory Module – Label Print** – Added expiration date as a choice to print on the label.
- **Universal Module – Doctor Order Print – Print Only Option** – This was not working correctly and was making users scan the slides after printing even in print only mode.
- **Quality Module Plus – Rework Product Filter** – Added a checkbox to the screen to allow for the filtering of the product drop down box to only reflect products that have a task scheduled against the accession number.
- **Admin Web Site – Rework Request Report** – Cleaned up this report to reduce double records against MFG cases that have been scanned more than once for rework and then the subsequent scan to indicate successful completion of the rework transaction.
- **Admin Web Site – LIS Interface Replication Maintenance – Client Code** – Modified this screen to include a client code to provide a more discreet method of replication LIS interface data between sites.
- **Admin Web Site – Test Plan Type Maintenance** – Created this screen to provide for the maintenance of test plan types. These are part of the change control/validation process inside Assist and allows for the grouping of test plans.
- **Admin Web Site – Test Plan Maintenance** – Created this screen to allow for the maintenance of test plans. These are the actual test plans that are part of the change control/validation process inside Assist and allows for the creation of multiple test plans that can then be applied to the change control components that are tested/validated.

- **Admin Web Site – Batch Order Type Grouping Maintenance** – Created this screen to allow for the maintenance of this cross reference grouping of batch types and order types. This allows for aggregation of the types of tests that would be included in a batch and is typically relevant to the PCR section of the sample testing module.
- **Universal Cassette Queue – Client Template Support** – Made changes to the universal cassette queue to allow for client print templates. Previously, alternative templates were pulling at the prefix level OR if there was an alias record entered into the LIS Interface table. This did not work if multiple clients have interfaces, but different cassette templates need to be available based on client. Also added an “override template” checkbox to the screen to allow the employee to de-activate the automation and always stay with a single template.
- **LIS Replication Robot – Client Code Filter** – Added the client code to the LIS Interface Replication process to allow for the filtering of what accession numbers are replicated at the client level from inside the number wheel process. This is entered via the change made to the LIS Interface Replication maintained outlined earlier in this document.
- **LIS Replication Robot – Days Back Unused Purge** – Put logic into the replication robot to allow for the concept of a “days back” purge. The robot calculates the number of days back from this value, then looks for any LIS Interface records that have been replicated into the database that has not been scanned against in the days back threshold. If it finds any, it purges them from the replication database to keep database size from growing from records that are not active.
- **Accessioning Module – Patient ID LIS Interface** – Exposed the patient ID number on the LIS pop up screen. This allows for the entry of a patient identifier when needed.
- **Universal Cassette Queue** – Modified to allow for the extraction of the patient ID number from the LIS interface table. This value can be appended to the patient initials if needed and this has been exposed as a choice.

- **Admin Web Site – Extraction Batch Status** – Completed Status Flag – Added a checkbox to the screen to allow for an extraction batch status to be indicated as completed as opposed to closed to provide more detailed information about what happened to a specimen.
- **Admin Web Site – Batch Type Equipment Filter** – Created this screen to allow for the maintenance and assignment of equipment to batch run types for filtering and to prevent accidents when assigned specific equipment to a specimen batch run for various lab processes.
- **Admin Web Site – Equipment Maintenance** – Added status description to the grid and include serial number in the search criteria. Also added check boxes to allow for the suppression of the manufacturer and equipment type from the grid view to increase readability.
- **Admin Web Site – Change Control Project Maintenance** – Created this screen to allow for the maintenance of change control projects. These are part of the change control/test plan monitoring section of Assist and tracks roll out projects.
- **Admin Web Site – Test Plan Step Maintenance** – Created this screen to allow for the maintenance of test plan steps. This is part of the change control/test plan logic for tracking changes. These steps are the granular, detailed steps that are to be performed as part of a test plan.
- **Inventory Module – Issue Tab – Inventory Location** – Modified the inventory issue process. If inventory items are receiving without specifying warehouse information, the issue process did not like it. Modified the process to show the inventory on hand quantities correctly even if the information was received against a placeholder inventory location.
- **Accessioning Module – LIS Interface Pop Up** – The pop up screen for LIS Interface manual entry and/or overrides was not loading the patient ID number to the screen at launch. Changed this to pull correctly.
- **Universal Slide – Free Form Protocol Entry** – When in manual mode and free form entry of stains is being performed, the stain was actually not printing on the slide. Corrected this so that free form entry passes through to the print routine as it should.

- **Admin Web Site – UDI Label Maintenance – Suppress Label Header –** Modified this screen to include the ability to suppress the top portion of a UDI label to make the label more of a generic “manufactured by” label when UDI is not a requirement but the various disclaimers and manufactured by information needs to be printed.
- **Print Center – Manufacturing Labels –** Created a new screen that allows for the printing of a simple manufactured by label that is based on the UDI template process.
- **Admin Web Site – Inventory Transactions Report – Storage Location Criteria –** Modified this report to provide the storage location as a selection criteria option.
- **Universal Cassette – Manual Entry with object identifiers on the end of the bar code.** Modified the universal cassette module to handle manual entry when the object identifiers for the objects (ex. Requisitions, bottles, etc.) are on the end of the bar code when scanned. Manual entry emulated bar code scans for parsing and the logic did not hold up correctly when using object identifiers on the end of the bar code.
- **Universal Slide – Free Form protocol in the bar code.** When free form protocol entry was done instead of making selections from the protocol bar code AND stain tracking was turned on, the free form protocol value was not getting placed in the bar code. Fixed this logic flaw.
- **Accessioning – LIS Interface – Client Alias Prefix drop down logic –** Added a new database table named Client Alias prefix and added a drop down list to the LIS Interface pop up screen inside the accessioning screen. This box loads based on the data associated with the client when the client is changed.
- **Admin Web Site – Client Master Maintenance – Requires Alias checkbox. –** Added this checkbox to the client master maintenance screen to allow for indication of whether or not the specified client should ALWAYS have an alias specified.
- **Accessioning – LIS Interface – Requires Alias Logic.** Modified the LIS Interface entry pop up window to consider the requires alias checkbox that

was added to the client master maintenance (discussed above) and makes sure that an alias accession number is entered for any client with that flag set.

- **Admin Web Site – Client Alias Prefix Maintenance** – Created this screen to allow for the maintenance of the list of alias accession prefixes for clients that require them.
- **Universal Slide – Serial Number Scanning** – LIS Interface – Modified the cassette scan to write an identifier to the LIS interface table if there is a pattern match of the serial sequence for the bar code scanned from the Client Alias Prefix table.
- **Universal Slide – Cassette/Slide Font Size customization** – Added values for the cassette and slide so that the font size of those two fields on the screen can shrink or grow to hold more characters if needed based on configuration. This became an issue with serial number scanning where the contents of the bar code might be quite large instead of holding a traditional accession number format.
- **Universal Cassette POU** – When in manual mode and printing multiple quantities of cassettes, the routine in some situations could print the correct human readable, but would duplicate the bar code over and over (growing) but only in “drop file” modes.
- **Admin Web Site – Batch Type Maintenance** – ThermoCycler and Analyzer Checkboxes. Added these two checkboxes to allow for the specification as to whether or not the batch type is a batch that will be processed by a thermocycler or analyzer. This is typically encountered inside the PCR area of the laboratory.
- **Admin Web Site – Equipment Type maintenance** – ThermoCycler and Analyzer Checkboxes. Added these two checkboxes to the equipment type maintenance screen to allow for the designation of equipment type as a ThermoCycler or Analyzer.
- **Universal Cassette – Enforce Pieces Logic** – Added logic to the universal cassette module to enforce the capture of pieces. Some labs want to default the pieces count to zero and then force entry by the grosser. This

modification allows for the enforcement and also clears after the scan of the cassette.

- **Admin Web Site – Order Type Maintenance – Description Search –** Modified the order type maintenance screen to provide the order type description as selection criteria.
- **Admin Web Site – Business Unit Maintenance – Unit Code –** Added a field for a unit code to allow for abbreviations of business unit values. This is going to become part of the expansion of business unit logic inside Assist across multiple modules.
- **Admin Web Site – Security Maintenance – Default Business Unit –** Modified the security maintenance screen to allow for the capture of a default business unit for an employee. These will also be the ability to authorize an employee for data access to other business units, but this value will serve as their default unit.
- **Universal Slide – Suppress Print/Position By Protocol/Specimen Type Issue –** Discovered a bizarre scenario where if a cassette was scanned with the suppress print feature, the protocol/stain drop down would position for the block. Since no print was performed, the “clear after print” is never triggered to clear the protocol. If the “suppress print” was then removed, and a block was scanned that had no specimen type, the original protocol would pull. Fixed this behavior.
- **Admin Web Site – Specimen Holding Site Maintenance – Default Business Unit –** Added the default business unit to this maintenance screen to allow for the specification of a default business unit to be assigned to a specimen holding site.
- **Admin Web Site – Special Handling Maintenance –** Created this screen to allow for the maintenance of special handling values. These are used to hold any rules associated with the handling of specimens.
- **Admin Web Site – Batch Type Equipment Filter Maintenance –** Equipment Type Criteria and Grid. Modified this screen to add the equipment type as a choice to the selection criteria of the maintenance screen and to also show the equipment type in the data grid.

- **Admin Web Site – Order Type Maintenance – PCR Extraction Only –** Modified this screen to allow for the specification of a flag on an order type to mark the order as PCR extraction only.
- **Admin Web Site – QA Error Master Maintenance – Error Code –** Added an error code to the maintenance screen to allow for quick capture of a code that can be referenced to retrieve quality error messages.
- **Admin Web Site – Specimen Holding Site Maintenance – Default Cost and Special Handling**

March 2022

- **Doctor Module – Speed Code Entry –** Added a speed code entry field to the top of the screen. This field can be used for the capture of diction codes that can be used to load data on the various tabs.
- **Doctor Module – Speed Code – Error Code Capture –** Added the ability to scan error codes into the speed code entry screen.
- **Doctor Module – Lab Operations Tab –** Refresh button and source drop down. Moved the refresh button and the source drop down to the lab operations tab. This data is used to filter the lab operations information and it was wasted space to have it displayed at the top of the main screen instead of inside the tab where it was relevant.
- **Doctor Module – QA Information Tab – Error Scan –** Added logic to support the scanning of error code bar codes into the QA information tab rather than requiring the selection from a drop down box.
- **Admin Web Site – Rework Request Report – Date Created –** Added the date created to the rework request report to see the date/time of when a rework request was actually created. This is especially relevant when using the rework robot.
- **Admin Web Site – Specimen Order Type Maintenance – Default Cost –** Added a default cost field to the specimen order type screen so that a default cost can be associated with the order of specific types of specimens.

- **Admin Web Site – Client Master Maintenance – Default Specimen Cost** – Added a default specimen cost to the client master table. This is used as part of the specimen receiving process to allow for labs to track the cost of a specimen order at the client level if relevant.
- **Admin Web Site – Client Facility Maintenance – Default Specimen Cost** – Added a default specimen cost to the client facility table. This is used as part of the specimen receiving process to allow for labs to track the cost of a specimen order at the facility level if relevant.
- **Simple Print – Activation Key Logic** – Added a key to the underlying configuration file. This is an encrypted value of the machine name. If a valid key does not exist that is the encrypted machine name, the software will not launch.
- **Key Generator Module** – Created this module to generate computer name encryption keys to be used in controlling access to the simple print module as discussed above.
- **Admin Web Site - Specimen Holding Site Maintenance – Address Information** – Added address lines, city, state, phone number, etc. To the specimen holding site maintenance screen. Previously, this data lived in the address master.
- **Admin Web Site – Order Notation Reasons Maintenance** – Created this screen to allow for the maintenance of the reasons for a repeat order. This is part of the sample testing module where a client specimen order might be repeated and this provides the ability to track the reason for the reorder.
- **Admin Web Site – Order Notation Master Maintenance** – Created this screen to allow for the maintenance of the report orders that might be placed against a specimen order. Multiple values can be input each with a different human readable value to support any necessary tracking needs.
- **Admin Web Site – Block Slide Instructions** – The printer magazines for both block and slide was not working correctly on updates when more than one printing platform was available in a site. The display was not positioning the equipment type before then displaying the magazine. Fixed this.

- **Admin Web Site – Material Status Maintenance – Return Available** – Added a new checkbox to the screen to allow for the marking of a status as return available to indicate that some material can be returned, it is back in the holding area awaiting shipping. This is at the detail material submitted level.
- **Admin Web Site – Material Submission Status Maintenance - Return Available** – Added a new checkbox to the screen to allow for the marking of a status as return available to indicate that some material can be returned, it is back in the holding area awaiting shipping. This is at the header level.
- **Admin Web Site – Material Submission Template Details – Sort Order** – Added this field to the template details to allow for a sort order to be established inside the template details.
- **Sample Testing Module – Material Submission Template Addition** – Changed the routine to add submission details by template to use the sort order for template details that was added.
- **Admin Web Site – Digital Quality Score Maintenance** – Created this screen to allow for the tracking of digital quality scores. These are the values that will be associated with the quality of digital images. By default, an image starts at a 100 and defects will reduce from this number.
- **Admin Web Site – Digital Quality Reasons Maintenance** – Created this screen to allow for the maintenance of digital quality reasons. These reasons have quality score reductions associated with them and are part of the digital image quality QC process.
- **Admin Web Site – Inventory Stock Status Report** – Created this report as part of the inventory module to give a quick snapshot of the quantity on hand, on order, and awaiting inspection (i.e. in quarantine) to give a quick snapshot view of all of the inventory available for a product.
- **Inventory Module – Validation Tab – Show Inventory Code Choice** – Modified the module to include a check box to load the drop down of the product master with the inventory code at the start and without the inventory code.

- **Inventory Module – Validation Tab** – Inventory Details – Zero Suppression – Modified the inventory module to suppress any inventory detail records in the drop down if there is a zero quantity. These would not be eligible for inspection/validation.
- **Inventory Module – Validation Tab** – Product Drop Down Key Ahead – Modified this drop down box to allow for the key ahead positioning of the drop down box.
- **Admin Web Site – Site Name Maintenance** – Print Code Slide – Modified the site name maintenance screen to allow for the capture of a print code for the slide as opposed to the original print code that is used for cassettes.
- **Admin Web Site – Specimen Holding Site Maintenance** – RequiresPrepayment – Added this checkbox to the screen to allow for the designation of a specimen holding site as requiring prepayment.
- **Admin Web Site – Employee Daily Work Statistics** – From/To Date Criteria Issue – If the from and to date were the same in the criteria of this report, no data would be returned. Fixed this issue.
- **Universal Cassette – Verification Enforcement** – Added the ability to enforce the need for verification transactions before allowing an employee to scan. At employee log in, if verification has not been performed, the screen can now warn to force validation tasks to be done before beginning work.
- **Admin Web Site – Accession Usage Count Report** – Created this report to provide visibility to accession, specimen, and cassette counts by number wheel for the criteria specified. This report was created to try and help with bill back charges to client and “sister” labs for whom work is being performed. It is a simple count and detail view of the work performed. A toggle button provides for the display of all of the detailed data.
- **Admin Web Site – Employee Interface Type Maintenance** – Created this screen to allow for the maintenance of employee interface types. These types represent an attempt to create “single signon” logic inside Assist to tie all of the user identification values together. There is an LIS Cross reference value on the security maintenance screen, but it limited the mapping to a

single value. For sites that have more than one LIS or other systems, this was not good enough.

- **Admin Web Site – Employee Interface Maintenance** – Created this screen to allow for the maintenance of multiple cross reference values for employees. Discussed above under the “types”, these are the values that represent the different user ID “alias” values for an employee.
- **Admin Web Site – System Task Log Details** – Created this report to provide visibility to the system task log details that can be captured by the system. System task log transactions represent things such as backups and this report shows all of the detailed child steps inside the task and can be valuable when troubleshooting failures or validating success.
- **Warehouse Module – Screen Maximized Flag** – Added a configuration option to the warehouse module to allow for the screen to be maximized at launch.
- **Warehouse Module – Filing Utility Screen – Room Flag Throttle** – On the main warehouse filing screen, modified the utility button to only show the most recent 1,000 cases filed when the “drawer” is really a room scan. If a site was doing room scans, clicking the utility button would attempt to show all objects in the room and it could be millions of rows of data.
- **Admin Web Site – Drawer Maintenance – Room Flag** – Modified the maintenance screen to allow for the designation of a warehouse drawer as a “room” instead of an actual drawer.
- **Admin Web Site – Digital File Location Maintenance** – Equipment Original Location flag. Modified the digital file location maintenance screen to indicate if a site is an equipment original location when parsing objects as opposed to a location where objects that were digitized could be moved.
- **Admin Web Site – Rework Request Listing** – Task List Grouping – Modified this report to provide the ability to specify a group of manufacturing tasks to be used as selection criteria rather than single tasks to provide more reporting flexibility.

Second Quarter 2022

April 2022

- Doctor Module – Fast Code Order Category Enforcement – Added a check box to the doctor module/diagnosis tab to allow for the employee to specify whether or not fast codes should be verified to make sure that the fast code is valid inside the order category. This is especially relevant for use with dictation systems to ensure that a code is not spoken incorrectly and gets added to an order accidentally.
- Doctor Module – Code Reorder Arrow Buttons Rebuild Choice – Added a check box to the doctor module/diagnosis tab to allow for the medical report to be automatically rebuilt if the Up/Down arrows are used to modify the order of the diagnosis medical codes. This reduces the likelihood of the medical report being incorrectly.
- Simple Print – Modified this routine to provide the ability to produce an Accession number with the number wheel on the end instead of in the front.
- Universal Slide Queue – Doctor Initials – The doctor initials were not printing correctly on the slides via the universal slide queue. This was fixed.
- Admin Web Site – Referring Physician Maintenance – SpecimenOrdering Checkbox – Added a checkbox to the referring physician maintenance screen to denote a referring physician as a participant in the specimen ordering functional areas of Assist.
- Admin Web Site – Order Type Maintenance – Specimen Order Type Checkbox – Added a checkbox to the order type maintenance screen to denote an order type as a participant in the specimen ordering functional areas of Assist.
- Universal Slide – Queue Starting Cassette – Issue with the “non 1” cassette not pulling correctly. The starting cassette numbering logic was not operating correctly for implied 1 logic. Corrected this issue.
- Admin Web Site – Accession Prefix Maintenance – Cassette Start Wildcard, Slide Start Wildcard – Added these two fields to better handle the idea of

cassettes and slides that had no starting object identifier. These changes allowed for a wildcard to denote the difference between a cassette and a slide.

- Universal Slide – Cassette/Slide Start Wildcards – Modified the universal modules of Assist to handle the cassette and slide wildcards as explained above.
- Admin Web Site – Extraction Type Maintenance – Concentration Required Checkbox – Added this checkbox to the extraction type maintenance screen. This value allows for the policing of the concentration and whether or not it should be enforced against an extraction type. This is part of the PCR functional area of the sample testing module.
- Admin Web Site – Extraction Order Type Mapping – Created this screen to allow for the combined mapping of the Extraction Type, Order Type, and Material Type. This is useful inside the PCR functional area of the sample testing module and can be used to default the extraction type on PCR order types.
- Universal Grossing – “Truncate after logic” – There was no ability to truncate the bottle bar code after a specific value. This caused issues with sites that had additional data in the bottle bar code (such as patient name) after a delimiter. This change allows for that to be truncated for “normal” processing of the bottle bar code.
- Doctor Module – Digital Pathology - \ check on path – The path + file name did not have a slash in it which was causing an incorrectly formed “full path” to the file for loading.
- Universal Grossing – Grossing Information – When body source, site, or technique as specified, clear the text field on the screen before loading from the drop down closed event. This provides the ability clear the fields on the selection of “Not Specified”. Previously, the values would “stick”.
- Sample Testing - Returns – Added “Remaining” column to the summary view grid to indicate the number of detail material types that have not been returned but that are return required.

- Sample Testing - Fixed the summary grid to not show header level records if there were not material detail records with a material return required on them.
- Sample Testing - Fixed the overdue count total to not include the records if there were not material detail records with a material return required on them.
- Sample Testing - Returns – Manifest Utility – Added header comments separate from detail line item comments.
- Sample Testing - Returns – Manifest Utility – Added a check box to allow for the closure of the manifest header.
- Sample Testing - Returns – Manifest Utility – Set the save button click to reload all of the manifest drop down boxes to reflect changes.
- Sample Testing - Returns – Manifest Utility – Added a check box to opt in/out of changing the detail comments.
- Sample Testing - Returns – Manifest Utility – Modified the manifest print routine to include comments in the header.
- Sample Testing - Returns – Manifest Utility – Modified the manifest print routine to include the detailed comments underneath the detail line item if relevant.
- Sample Testing - Returns – Shipping Tab – Modified the manifest print to include the comments in the header and detail lines as noted above for the utility.
- Sample Testing - Returns – Shipping Tab – moved the header comments area down into the same area as the rest of the manifest information to make it clear that the comments text box is relevant for the manifest.
- Sample Testing - Inbound/Outbound Tab – Added the “testing” column to show what tests have been ordered against a detailed material type when in detail view.
- Sample Testing - Inbound/Outbound Tab – Detail Grid – Added a “selection” checkbox to allow for the selection of individual detail records to be sent to

the shipping grid. Removed the grouping logic so that each individual row of data is displayed. Made sure that the +/- button works for either the summary or detail grid depending on the view.

- Sample Testing - Inbound/Outbound Tab – Grid Counts – The counts at the top of the grids (summary/detail) were not working correctly as the radio buttons were used to toggle between views. Corrected this.
- Sample Testing - Inbound/Outbound Tab – Selection Button for Details – Previously, the ability to send shipping records from the inbound/outbound grid to the shipping grid only worked at the summary level for the entire submission package. Modified so that the detail level records could be sent using the selection checkbox column with the button for submitting.
- Sample Testing - Shipping Tab – Detailed Grid – Modified this grid to show the testing in the detail grid. Previously, this was not shown and only the material type was visible.
- Sample Testing - Shipping Tab – Detailed Grid – Selection Column Move – Moved the checkbox column to the beginning of the grid to be consistent with all of the other grids in the module.
- Sample Testing - Inbound/Outbound Tab – Detail Grid – The status of the detail data was not being shown, it was the status of the material submission. Corrected this.
- Sample Testing – Admin Web Site – Extraction Type maintenance – Added the “Concentration Required” checkbox to allow for the marking of which extraction types need a concentration value to better lock in data integrity.
- Sample Testing – Inbound/Outbound tab – Set logic so that the click of a summary grid row header loads the data for that master submission records into the detail grid and auto flips to display that grid.
- Universal Grossing – Grossing Information Capture – Modified the grossing notes capture screen to allow for configurations flags to require the body source, body site, surgical technique, and measurements (if visible) fields. This enhances the rules already in place to enforce grossing notes and clinical information.

- Warehouse Module – Digital Dashboard – Robot Screen – Modified the launch button to include a wait cursor to make it clear when the software is still running.
- Warehouse Module – Digital Dashboard – Digital Utility – Created this screen to allow for the processing of records that might have been inserted into the dashboard queue without having an accession number matched to them. The utility pulls all records from the queue with no accession and attempts to use the digitized bar code to find matching data in Assist.
- Warehouse Module – Digital Dashboard – Rearranged the update area to include an option for “bulk changes” that will apply the modifications values to ALL of the selected items. If the check box is NOT set, an individual save of the selected record (row header) will be done. Also added a check box for “assignment” to assign the digital queue records to an employee to read them.
- Admin Web Site – Distribution Location Maintenance – Allow Digital Checkbox – Added this checkbox to the distribution location maintenance screen to allow a distribution location (i.e. doctor) to be marked as eligible to receive digital objects (ex. Slides).
- Doctor Module – Digital Pathology Tab – Digital Queue Selection Criteria – Added the digital queue drop down to allow for filtering from within the tab by queue if relevant.
- Admin Web Site – Change Control Component Maintenance – Full Description, End of Life and End of Life Date – Added these fields to the change control component maintenance screen to better capture the status of software products and their change control status.
- Sample Testing – Inbound/Outbound Tab - Set logic so that the click of a summary grid row header loads the data for that master submission records into the detail grid and auto flips to display that grid.
- Sample Testing – Screen Header – Turned on the concept of business unit defaults for employees. The ability to specify a business unit for an employee has always existed, just showing the business unit to which, the

employee belongs at the top of the screen with a button to allow for the switching of the active business unit.

- Sample Testing – Client drop downs – Added the logic to filter the display of clients to include the business unit that is active for the employee. This is shown in the communications log and is used to filter the various esoteric labs and how they will impact the sample testing module going forward.
- Sample Testing – PCR Grid – Modified the method used for determining the default extraction type. Previously, it was defaulting based on the set value for the extraction coming from the order type file. This has not been changed to allow for an override from the ExtractionOrderTypeMapping table which represents the alternatives to the extraction mapping based on the material type (ex. Block vs. Slide) along with the order type. This now loads into the grid unless there are no mappings, in which case the default order type will hold.
- Sample Testing – PCR Cap Label Printing – Changed the logic on the cap label for both extractions and PCR vial labels to print the order in which the specimens are “built” in the grids rather than representing the sequence of the specimen which is what was being done previously. This is now a choice driven by the configuration.
- Universal Cassette – Cassette Color Count – Some locations have a color indicator (cassette/slide magazine indicator) in their bar code. The Assist universal module for cassette printing did not have logic to handle/process this extra character on the tail of the bar code. Fixed this by adding functionality to handle the processing.
- Sample Testing – Holding Site Maintenance/Hamburger Button – From inside the specimen ordering tab of the sample testing module, there is a button to allow for the maintenance of specimen holding sites. The pop up screen for this maintenance was completed.
- Sample Testing – Holding Site Maintenance – Clipboard Address Button – Added a small button with the letter “C” on it to the holding site maintenance pop up window. When clicked, this pops up a screen with a large text box. The box builds the full address using all of the address lines,

the city, state, and zip code. This can be automatically copied to the Windows clipboard to provide simplicity for copying/pasting the address into other documents (i.e. shipping documents).

- Print Center – Multiple Bottle Label Print – Direct Print Changes to not use label templates – The form for “Multiple Bottle Label” had not been modified to cease using NiceLabel for the printing of the labels. Made this change for it to native print and also added logic for the printing of single extra bottle labels instead of needing to use the full batch print logic flow of printing the combination of requisition and bottle labels.
- Admin Web Site – Business Unit Authorization Maintenance – Created this screen to allow for the maintenance of the business unit authorization data. This is part of the sample testing module and allows for specification of which business units an employee is authorized to access data. This impacts the sample orders that can be seen (i.e. order, clients, etc.) but allows for toggling to other business units if necessary and authorized.
- Admin Web Site – Specimen Business Location Maintenance – Created this screen to allow for the maintenance of specimen business locations. These locations are part of the sample testing module of Assist and are found specifically on the specimen ordering tab. They represent the business locations where specimens are intended to be routed.
- Admin Web Site – Change Control Maintenance – Component Area – Added this field to the screen to allow for more accurate capture of what area of a module was changed.
- QC Module Extra – Image List – ImageScanSource Inclusion - Modified the image list capture routine to include a field in the database to indicate the module of Assist that captured an image that makes analysis easier.
- Manufacturing Module – Image List – ImageScanSource Inclusion - Modified the image list capture routine to include a field in the database to indicate the module of Assist that captured an image that makes analysis easier.
- Manufacturing Module – Milling Machine Interface – Blanks to underscore – To better handle a limitation with the equipment manufacturer, modified the routine that prints the product bar codes to remove any blanks and

replace them with underscores since this is what the application does in the cloud that creates the milling machine instruction file.

May 2022

- Sample Testing – Specimen Ordering – Client Maintenance – Added a hamburger button to the specimen ordering tab to allow for the maintenance (add, update, delete) of clients without having to go the Assist administrative web site.
- Sample Testing – Specimen Ordering – Specimen Holding Site Maintenance - Added a hamburger button to the specimen ordering tab to allow for the maintenance (add, update, delete) of specimen holding sites without having to go the Assist administrative web site.
- Simple Print – Scan Field – Clear the text field on tab – When this field was used to scan into the field, it was not clearing the field when a tab was performed which resulted in the old scan value remaining. Set the routine to clear the field after processing.
- Doctor Module – Digital Pathology – Auto load cases at user login. Modified the digital pathology routine to go ahead and load any cases/slides assigned to an employee as soon as they log in. This removes the clicking of the retrieve button to load.
- Doctor Module – Digital Pathology – Diagnosis column move to after the accession number and protocol. The diagnosis column was moved to the right to improve screen readability especially since AI diagnosis is less common and the case number/accession is always present.
- Doctor Module – Digital Pathology – Double click on the digital pathology grid loads the case/slides to the right hand side of the screen and launches the viewer for all slides represented by the row in the grid.
- Sample Testing – Specimen Ordering – Added a configuration flag to allow for hiding the order cost derived from the holding site from which a specimen was ordered.

- Sample Testing – Specimen Ordering – Added a configuration flag to allow for hiding the accession prefix drop down, showing a free form accession prefix text box, or having the value not show up at all.
- Sample Testing – PCR Tab – The concentration column was not always working correctly when clicked. Fixed this to pop up the concentration screen.
- Sample Testing – PCR Tab – The file name that was loaded via the equipment concentration interface was not showing correctly on the screen. The sample ID was showing instead of file name. Corrected this to show the data appropriately.
- Sample Testing – PCR Tab – Concentration Column on Order grid – Turned this background color to red if a concentration value is required based on the extraction type and there is no value.
- Simple Print – Suppress Part – Cassette and Slide – Added a check box to the cassette and slide versions of the simple print screen to allow for the part identifier to be suppressed. This can be especially valuable for clinical research scenarios.
- Doctor Module – Digital Pathology Tab – Changed the grid to include the display of rush cases to include a priority rush value and sort the data by priority value and then distribution date and then full accession number. Made this change for both the case level view and the slide level view.
- Doctor Module – Digital Pathology – The open cases button at the top of the screen was modified. The informational screen now shows a format of “Case Count / Slide Count” that are assigned to the employee to make the information more meaningful.
- Doctor Module – Digital Pathology Tab – Modified the selection of the detailed grid row to show the rush type description to the right of the grid with the other case/slide detailed information.
- Doctor Module – Digital Pathology Tab – Double Click To Diagnostics – Logic was added previously to allow for the double click of a digital queue record to automatically open up the case/slide that was double clicked. Further

expanded this logic to allow for this double click transaction to also send the employee automatically to the diagnostics tab to process the case.

- Admin Web Site – Case Rush Type Maintenance – Priority Value and Font Color – Added a priority value to the maintenance screen and also the ability to set the font color.
- Doctor Module – Digital Pathology/Diagnosis – Set logic so that when a report is signed by the doctor from the diagnosis tab that the digital record can be moved to a “Signed Out” status and the digital queue is automatically refreshed to reflect the change.
- Sample Testing – Client Facility Maintenance – Added the “C” copy clipboard buttons for both the separated address lines and the full address line.
- Sample Testing – Client and Client Facility Maintenance – Added the ability to double click on any of the instructions or notes fields and have a pop up screen appear to display all of the information in an easier to read format to reduce screen scrolling in case of copious notes.
- Sample Testing – Client/Facility and Holding Site Pop Up Maintenance Screens – Auto Load – Added the ability for any client and/or holding site information active in the specimen order screen to go forward to the maintenance screens to pre-load with the active client or holding site.
- Sample Testing – Client/Facility and Holding Site Pop Up Maintenance Screens – Provided a configuration flag to allow for whether or not address and phone master buttons are enabled.
- Sample Testing – Client/Facility Pop Up Maintenance Screens – Added the ability to delete either entity (with lots of edit checks) that is driven by configuration so that this ability can be disabled or enabled.
- Admin Web Site – Change Control Component Maintenance – Control Code Prefix and ProductName. Added the control code prefix and product name to the change control component maintenance screen. This will make it possible for the change control update utility to update a remote database with change control transactions.

- Admin Web Site – Rework Request Report – Criteria visual change and addition of Task scanned by to criteria. Modified the rework request report to clean up the selection criteria visually and also add the task scanned by criteria.
- Admin web Site – Change Control Maintenance – Control code and product name. Added the control code and product name to the change control maintenance screen. This will make it possible for the change control update utility to update a remote database with change control transactions.
- Admin web Site – Scan History Report – The “source” filter criteria did not work correctly. This report is an original Assist report and the source values were hard coded and did not account for the various alias values for data collection points that would evolve. Fixed this so that the filter works correctly.
- Admin Web Site – Change Control Type Maintenance – TypeCode – Added the type code to the change control type maintenance screen to allow the change control utility to add control types when relevant.
- Configuration Utility – Change Control Copy – Modified the configuration utility to include the ability to send change control transactions to a remote database. Previously, the utility only support the copy of screens, reports, and configuration changes.
- Sample Testing – Specimen Ordering – Collection Site Text – Added a configuration setting to allow for the human readable tag on the “Collection Site” to be customized to support “Body Site” if that is the value being captured.
- Sample Testing – Specimen Ordering – Order Date in order grid – Added the order date to the specimen order grid.
- Universal POU – Grossing Notes Entry/Timeout – Discovered an issue with the way the enforce timeout configuration option is enacted. If the option is turned off, and a grosser is using the grossing notes pop up capture, on closure of the screen, the timeout option was turned back on regardless of the configuration option. Changed the routine to look at the configuration

flag on screen close rather than blindly turning the timeout timer back active.

- Sample Testing – Specimen Ordering – Specimen Order Testing Capture/Display – Modified the specimen ordering section of the sample testing module to include the ability to specify the order types (testing) that should be performed on the specimen for which the order is being placed. Also show the existing orders via a list box on the screen.

June 2022

- Admin Web Site - ESL Tag Product Notation – Created this maintenance screen to allow for the maintenance of ESL tag product notations. These are used to pass specific extra notation values to an electronic tag based on a product master record.
- Admin Web Site - Specimen Type Size Override Maintenance – Created this table to provide for protocol automation/overrides associated with tissue mold sizes. If a specific specimen type is encountered, the size of the mold (specimen) can then bump the specimen type to a different value which would launch a different slide protocol.
- Accessioning Module – Maximum Requisition Length on scan – Added logic to prevent a double scan of a requisition and also better tailor that a value requisition was scanned by policing the raw length of the data field.
- Universal Cassette POU – Printer Magazine Alias Logic – Added logic to the cassette point of use to tie magazines against different hardware profiles to one another. This allows magazines to be equal across hardware. For example, the Magazine 1 of a Leica can be mapped to the “Hopper 1” of an Eprexia Printmate.
- Admin Web Site – Printer Magazine Alias Maintenance – Created this maintenance screen to allow for the mapping of magazines to one another across hardware profiles.
- Main Scanner Engine – Specimen Size Scanning and Font Color – Added the ability to the main scanner engine (i.e. Embedding, microtomy, etc.) to scan

the specimen size (i.e. tissue mold) and also display it on the screen with different colors.

- Main Scanner Engine – Specimen Type Size Override Functionality – Added the ability to the main scanner engine to have the specimen size + specimen type move to a new specimen type to more accurately plan for protocol mapping where an embedder discovers a larger mold size is needed which will impact the number of slides to be used.
- Admin Web Site – Specimen Size Maintenance – Font Color – Modified the maintenance screen to allow for the specification of font color for each specimen size.
- Admin Web Site – Gender Maintenance – Created this screen to allow for the maintenance of genders. This can be used to specify a gender outside of the traditional radio button choices of “M/F” when the gender might not be known.
- Accession Prefix Maintenance – LIS Master Criteria – Added the LIS as a criteria choice at the top of the maintenance screen so that prefixes can be filtered by prefix for better ease of maintenance/management.
- Universal Slide POU – Manual Specimen/Part – Removal of dash after print – There has always been a dash placed between the specimen and part identifiers after printing a slide in manual mode. Removed this since there was no value add and it looks odd.
- Universal Cassette POU – Drop File Alias Accession Overrides Specimen – Added logic to allow for an alias accession to go into the drop file in the same position as the specimen type. This allows for the client labelling of the cassette (at the cost of the tissue type) without needing multiple print template layouts.
- Doctor Closeout – Selection Criteria – Main Closeout and Status Closeout – LIS Master – Added the LIS platform as a selection criteria choice for facilities that use more than one LIS and need to pull doctor orders by platform.

- Admin Web Site – Specimen Order Step Maintenance – Created this screen to allow for the maintenance of specimen order steps. This data represents the various steps in the specimen ordering process.
- Admin Web Site – MFG Task Maintenance – Final Inspection Task – Added this check box to the maintenance screen to allow a manufacturing task to be marked as the final inspection task. This is part of the Assist manufacturing module.
- Admin Web Site – Medical Billing Code Maintenance – CPT Code addition with selection criteria additions for billing code, description, ICD code, and CPT code. Added the CPT code field to the medical billing code maintenance screen and also added multiple fields to the selection criteria as noted.
- Admin Web Site – Accession Slide Count Maintenance – Slide Recipe – Medical Billing Code. Added the medical billing code drop down to the slide recipe area of this screen so that the CPT codes and such can be mapped to the slides that are being printed.
- Sample Testing – Specimen Order Tab – Business Unit Order Filter – Added logic to only display specimen orders for the business unit to which an employee is attached.
- Sample Testing – Specimen Order Tab – Gender drop down – Added the gender drop down to the specimen order area to allow for a gender value to be specified outside of the hard coded “M/F” logic.
- Sample Testing – Specimen Order Tab – Step changes status. – Added the logic to allow for the selection of specimen order steps to automatically change the overall order status since this status is part of the order step. Also added the step to the order selection criteria.
- Sample Testing – Specimen Order Tab – Added a configuration flag to allow for the suppression visually of the last maintained and order created values.
- Sample Testing – Specimen Order Tab – Added a configuration flag to allow for the suppression visually of the “copy of results” checkbox.
- Sample Testing – Specimen Order Tab – Added a configuration flag to allow for the suppression visually of the handling drop down.

- Sample Testing – Inbound/Outbound Tab – Summary Grid – Added a configuration flag to allow for the suppression of the cross reference column in the grid.
- Object Filing – Digital Dashboard – Digital Pathology Queue – Case Rush Type and Priority Value – Added these fields to the digital queue for the tracking of rush cases through the digital process. Also added a priority value so that the rush values can be prioritized.
- Doctor Module – Digital Pathology Tab – Meta Data Visibility – Modified the digital pathology queue grid to include a “M” button column on the far right. Clicking this button causes a pop up screen to appear to show all of the meta data associated with the digital pathology record.
- Doctor Module – Login Button – Added the ability to log in manually to the doctor module in the same manner as the other modules. Previously, either auto login or scanner were the only ways to log in.
- Doctor Module – Digital Pathology Tab – Case Level status change was not working to change the status to all of the slides in the case. It was only updating the FIRST digital pathology queue record (i.e. the first slide) on save. Corrected this.
- Doctor Module – Auto Launch Next Case Choice – Added a checkbox to the screen (depending on configuration) to determine whether or not the “launch next case on report submission” is active to allow a doctor to opt in/out of the feature.
- Doctor Module – Auto Launch Next Case Feature – Added logic to the module to allow for the auto launch of the next case from the digital queue as soon as the case is submitted.
- Doctor Module – Auto Close write to the digital queue audit log – Added the logic to write a value to the digital queue audit log when the auto close transaction is performed.
- Interface Module – LIS Order Request Robot – If the “ordered by” doctor is missing, added logic to write it to the exception table. Previously, no

exception was generated, the data just got loaded as the automated robot account.

- Sample Testing – PCR Tab – Use Extraction Defaults Checkbox – Added a configuration flag to allow this value to be toggled on/off as needed by the installation.
- Admin Web Site – Extraction Type Maintenance – Concentration Quantity – Added the concentration quantity field to the extraction type maintenance screen. This is used to indicate how many concentration values (PCR) are allowed for the concentration type and determines the screen handling of the PCR tab of the sample testing module.
- Admin Web Site – Order Type Maintenance – PCR Extraction Code – Added this field to the order type maintenance screen. This is used to allow for entry of an extraction code that can be used for a PCR equipment interface back into Assist and represents the code to tie to the order type coming from the equipment.
- Admin Web Site – Accession Slide Count Maintenance – Slide Recipe Maintenance – Sequence Quantity – Added this value to the maintenance screen to allow for the specification of the sequence quantity associated with a slide recipe record. For example, an L1-3 slide would potentially represent a sequence quantity of 3 to reflect the number of tissue ribbons that are tied to the slide.
- Admin Web Site – Client Facility Maintenance – Address fields delimited – With the duplication of the address fields at the facility header level, a change needed to be made to allow the client facility web screen to continue to function correctly.
- Doctor Module – Slide Scan – Modified the routine to allow for an alternate protocol wildcard inside the bar code. This allows for changes to how the bar code holds protocols or to address multiple wildcard delimiters if relevant.
- Doctor Module – Slide Scan – Tracking Number Delimiter – Added a slide tracking start/end delimiter to provide the ability for the doctor module to

scan slides that have slide tracking values in the bar code. Also added this value to the scan history window on the scanning tab.

- Distribution Module – Slide Scan – Modified the routine to allow for an alternate protocol wildcard inside the bar code. This allows for changes to how the bar code holds protocols or to address multiple wildcard delimiters if relevant.
- Distribution Module – Slide Scan – Tracking Number Delimiter – Added a slide tracking start/end delimiter to provide the ability for the Distribution module to scan slides that have slide tracking values in the bar code. Also added this value to the scan history window on the scanning tab.
- Interface Utility – Patient Demographic File Drop – Added a patient demographic file drop option to load patients into the Assist database from a simple CSV file.
- Interface Utility – Magic Touch Manufacturing Task Load – Added an interface option to load manufacturing tasks from the Magic Touch LIS into Assist. Previously, there had only been an interface that was not bidirectional and did not pull data back into Assist.
- Sample Testing – Shipping Tab – Clear Button – Added this button, which can be hidden by configuration to allow for the clearing of both the header and detail information on the screen. Previously, this would happen when a new package was chosen or a save transaction was completed.
- Sample Testing – Shipping Tab – Manifest Print – Modified the print routine to include the order types for the material types. This was also added to the manifest reprint inside the utility pop up screen.
- Universal Cassette/Slide – On Screen Keyboard – Added a button to both the cassette and the slide tabs to allow for the launch of the Windows on screen keyboard to better support touch screens. This button is visible or not based on configuration.
- Warehouse Module – Main Filing Screen - Slide Scan – Tracking Number Delimiter – Added a slide tracking start/end delimiter to provide the ability for the Distribution module to scan slides that have slide tracking values in

the bar code. Also added this value to the scan history window on the scanning tab.

- Sample Testing – PCR Tab – Double Concentration Values – Made changes to support double concentration values and an average.
- Sample Testing – PCR Tab – Concentration Interface History Inquiry – Built this pop up screen to provide visibility to concentration files that have been loaded into Assist from the PCR instruments.
- Sample Testing – Communication Tab – Communication Log Audit Log – Modified the communication log to also generate an audit log every time a communication log record is modified or added to provide more detailed traceability.

Third Quarter 2022

July 2022

- **Admin Web Site – Specimen Order Step Maintenance** – Warning Font Color – Added a warning font color to the maintenance screen to determine what color the order step should appear in if the date has been exceeded to make it easier to show the outliers.
- **Sample Testing – Specimen Order** – Specimen Processing Order Active Step Date – Added a field to the specimen order capture data routine to capture the date/time stamp each time an order step is entered or changed.
- **Admin Web Site – Attachment Type Maintenance** – Client Image Type Checkbox, Patient Report Type Checkbox, Release Form Type checkbox, Test Request Form Type checkbox – Added the above check boxes to the maintenance screen to allow for the categorization of attachment types.
- **Sample Testing – Shipping Tab** – “By Shipment vs. By Manifest” choice on Manifest print. Added two radio buttons to allow for the choice between shipment or manifest filters on the printing of manifests.
- **Sample Testing – Shipping Tab** – Group box header bolding – Modified the shipping tab to make the group box titles bold on all groups on the screen.

If the visual changes are liked, this same change will be applied to the other tabs.

- **Sample Testing – Shipping Tab** – Client and Address missing on manifest print. On a first print, the logic did not match the changes that were made to the reprint and there was a way for the client/facility names and the street address to not print.
- **Sample Testing – Shipping Tab** – Context Help – Tool Tips – Comments text boxes. Added tool tips to the comment text boxes on this tab to help in learning screen operations. If this works effectively, the same data will be added to the other fields on the screens.
- **Sample Testing – Inbound/Outbound Tab** – All Materials Visibility – There was confusion about the option for suppressing packages that had no materials needing return at the header level where data would show under the detail area. Let the choice be visible regardless of the view.
- **Sample Testing – Specimen Order Tab** – Changed the description for the holding site to read as “Holding Site” instead of “Description”.
- **Sample Testing – Holding Site Maintenance Screen** – The underlying holding site master and search drop downs were not reloading after maintenance was performed.
- **Sample Testing – Specimen Order** – Ordered Tests – The order category filtering check box was not operating correctly on this pop up screen.
- **Sample Testing – Specimen Order** – Changed the screen to auto load the specimen orders at employee login.
- **Sample Testing – Specimen Order Grid** – Added a column to the grid for days left based on the warning days and the current date. This is based on the date/time being captured when the order step is changed.
- **Sample Testing – Specimen Order Grid** – Days Left font color – Changed the days left font color to be set to the warning days font color if the days left are overdue.

- **Main Scanner Engine – Write Active Last Case** – Set up the ability for configuration flags to write to the Active Last Case table for a requisition, bottle, cassette, or slide scan to feed the active last case scoreboard view.
- **Universal Cassette/Slide - Write Active Last Case** – Set up the ability for configuration flags to write to the Active Last Case table for a requisition, bottle, cassette, or slide scan to feed the active last case scoreboard view.
- **Admin Web Site – Client Configuration Maintenance – Baud Rate Override Value** – Added this value to the maintenance screen to allow for an individual machine to have a scanner baud rate entered that differs from the main scanner speed used with all other machines in an environment. This better supports mismatched equipment in a facility without having to reprogram scanners (if possible to reprogram). The baud rate is filled from a drop down of choices that is configured by the Assist administrator to cut down on random and incorrect data.
- **Main Scanner Engine – Baud Rate Override Logic** – Added logic to the main scanner engine to support the new baud rate override by configuration feature.
- **Check In Module – Baud Rate Override Logic** - Added logic to the check in module to support the new baud rate override by configuration feature.
- **Universal Cassette/Slide – Baud Rate Override Logic** - Added logic to both the universal cassette and slide module to support the new baud rate override by configuration feature.
- **Accessioning Module – Baud Rate Override Logic** - Added logic to the accessioning module to support the new baud rate override by configuration feature
- **Admin Web Site – Assist Equipment Interface Maintenance** – Created this screen to allow for the maintenance and creation of the various scanner speed settings used in the new equipment baud rate override feature. This screen controls the drop down list used on the client configuration maintenance screen.

- **Universal Slide POU – Pieces in History** – Modified the slide POU screen to allow for writing the pieces data into the scan history instead of just showing it in a small font at the bottom of the screen.
- **Universal Slide POU** – Position Protocol by specimen check box not sticking when configuration changes – Modified this setting so that it will stay as the configuration is changed to better support sites with multiple LIS installations and configurations.
- **Universal Cassette/Slide** – Scan Classification Scan Ability to change. The scan classification drop down (i.e. Recuts vs. IHC vs. Special Stains, etc.) was only available for change via a mouse click. Gave the ability to put out scan sheets to change this value via scanner to reduce the need to touch the mouse.
- **Universal Module – Tab Handling** – Fixed issue where some of the information tabs could get wiped out. – The logic for suppressing tabs had an issue where the tabs could possibly continue to disappear as the employee bounced from one configuration to another. Cleaned up the way tabs are hidden to eliminate this possibility.
- **Admin Web Site – LIS Master Maintenance** – Accession Number Length – Added this field to the LIS master maintenance screen so that an override of the accession number length can be done at the LIS level instead of by accession prefix. This is part of the sample testing area where multiple inbound accession number formats are being tracked.
- **Admin Web Site – Business Unit Maintenance** – LIS Master drop down – Added the default LIS value via drop down so that the default LIS for a business unit can be specified.
- **Sample Testing Module – Help Button** – Added a help button to the top of this module to allow for the display of the various help text that is available explaining what the fields and columns are on the reports.
- **Sample Testing – PCR Tab** – Extraction Selection criteria – Unassigned to an extraction checkbox setting to allow it to default on or off.

- **Admin Web Site – Order Category Maintenance** – Clinical Research Checkbox – Added this checkbox to the maintenance screen to allow order categories to be specified as belonging to clinical research projects.
- **Admin Web Site – Order Type Maintenance** – Business Unit and All Business Units check box. Added a checkbox to the maintenance screen to allow an order type to be associated to all business units and a drop down for the owning business unit for sites that have more than one business unit.
- **Scoreboard – Multiple Shipment Grid** – Upper left cell is the color blue – When the multiple shipment grid graph went above 144 cells, the screen was shown with the mouse cursor in the upper left hand cell and it had the default color of blue. Research the clear selection to stop this from happening.
- **Admin Web Site – Assist Help Details Maintenance** – Added a help section number to more specifically outline the area that is referenced by the help text. Previously, the most specific the data could be was at the software module level.
- **Admin Web Site – Assist Help Section Maintenance** – Created this maintenance screen to allow for the maintenance of the newly created help sections. Previously, help text was maintained at the module level but this lack of further categorization made a bit of a disorganized mess in some modules. By adding a section, the help data can be organized by tab (for example) to make it easier to find meaningful information.

August 2022

- **Admin Web Site – Assist Formula Maintenance** – Created this screen to allow for the entry of the various mathematical formulas that might be in use in the various screens of Assist. Some regulatory organizations require that the math being performed be explained to employees and this maintenance gives the ability to capture all of these formulas with a detailed description area along with an area for custom (i.e. not Assist explaining) so that an individual facility can explain in terms that might make more sense for their employees.

- **Sample Testing – PCR Tab – Formula Display** – Added a button to the PCR batch grid to allow for the display of the formula screen based on the entry of a formula (discussed above) for the concentration calculations being performed.
- **Sample Testing – PCR Tab – Concentration value cleanup** – The three concentration values on the PCR grid had differing appearances with rounding, number of decimals, etc. Added the ability to indicate the number of decimals in the configuration and then formatted all three columns to look the same to make more visually pleasing.
- **Sample Testing – Specimen Order Entry screen** – Created this screen to serve as a full specimen order processing screen. Previously, this feature was available via the “standard” method of selecting the grid value on the left and having the maintenance performed on the right hand side of the screen. There was so much data associated with a specimen order that this caused a “cramped” screen, so made the screen full sized.
- **Sample Testing – Specimen Order Entry – Pathologist capture** – Added a + button to the specimen order entry screen to allow for the quick addition of a pathologist to the pathologist master file (referring pathologist). Full maintenance (changes, etc.) still need to be done via the main referring physician maintenance screen.
- **Sample Testing – Specimen Order Entry – Clinician capture** - Added a + button to the specimen order entry screen to allow for the quick addition of a clinician to the clinician master file (referring pathologist). Full maintenance (changes, etc.) still need to be done via the main referring physician maintenance screen.
- **Admin Web Site – Department Maintenance** – Font Color and Employee Department Checkbox. Added the font color so that departments can be color coded on different screens and also added a checkbox to allow for a department to be categorized as an employee department. There were already category checkboxes for inventory, manufacturing, and chemicals.
- **Admin Web Site – Employee Group Maintenance** – Font Color. Added the font color so that employee groups can be color coded on different screens.

- **Admin Web Site – Stored Comment Type Maintenance** – Available in Communication Log Checkbox. Added this check box to the maintenance screen so that stored comments can be filtered on screens that allow for the use of stored comment types.
- **Admin Web Site – Security Maintenance** – Department Drop Down – Employee Department Filter. Modified the security maintenance screen to only show departments in the drop down list that are classified as employee departments.
- **Admin Web Site – Research Project Status Maintenance**. Created this screen to allow for the maintenance of status values used inside the clinical research project areas of Assist.
- **Simple Print – Pad Zeros Bar Code Option** – Added an option to allow the padding of the accession number to be controlled by an option in the config file.
- **Admin Web Site – Research Project Type Maintenance** – Created this screen to allow for the maintenance of the research project type.
- **Admin Web Site – Extraction Type Maintenance** – Modified this screen to include a field for Extraction Code. This will be used to enforce interface files against extraction types.
- **Sample Testing - PCR Concentration Interface** – Unassignment – Completely changed the method of unassigning a file from a concentration assignment to make the screen perform better.
- **Sample Testing - PCR Concentration Interface** – Modified this screen to show the extraction type at the top of the screen along with the number of concentrations required (1 or 2).
- **Sample Testing - PCR Concentration Interface** – Auto Close – Changed the settings to allow for an auto close when it is a single concentration extraction and the data is provided. Do NOT auto close on a double unless two concentrations are provided. On a single, go ahead and close.
- **Sample Testing - To Do Status Button** – Rearranged the top of the main screen. Changed the overdue button to be longer but narrow. Added a “to

do” button underneath that will be green/red based on the ticker and checking for communication log messages that are targeted to a department to which the employee logged into Assist belongs.

- **Sample Testing - PCR** – Object Assignment Pop up window (the x / x/ x button). If there were multiple order types for the accession, they could stretch across the header of the window and jumble things. Moved the display into a list box and now display them vertically instead of horizontally.
- **Sample Testing - PCR Concentration Interface** – Added logic to consider the extraction code for the type and make sure that the file indicator is the same reflecting a match between the equipment interface file and the extraction type.
- **Sample Testing - PCR** – Extraction Grid – “T” Button – This button reflects the count of order types against the aggregated accession number even though the grid shows the data at the order type level. Clicking on the button will show all of the orders on an order along with who entered those orders.
- **Admin Web Site – Research Project Maintenance** – Created this screen to allow for the maintenance of research projects. These are part of the research tracking part of Assist and represent different projects such as clinical research projects, drug studies, etc.
- **Admin Web Site – Research Project Number Wheel Maintenance** – Created this screen to allow for the maintenance of research project number wheels. These are part of the clinical research functional area of Assist and represent separate number wheels that are used as “spin offs” of “regular” number wheels to be used for research projects.
- **Interface Utility – CADFlow Interface Robot** – Added a CADFlow AI robot to the interface utility to support the inbound receipt of STL and PTS (tooling files) for milling machine robots.
- **Print Center – Full Accession Label** – Print values into configuration – Modified this label routine so that the values for where to print objects can be placed in the configuration and are not hard coded into the screen.

- **Sample Testing - Shipping Tab** – Manifest Utility – The bold fonts were not present on the various group headings on the utility screen. Corrected this.
- **Sample Testing - Shipping Tab** – Manifest Utility – The shipment type and tracking fields were not named the same on utility screen vs. the underlying shipping tab. Made the two the same for the sake of consistency.
- **Sample Testing - Manifest Printing** – Added a setting to the configuration to allow for defaulting of the manifest to be either portrait or landscape. Placed the setting to portrait.
- **Sample Testing - Manifest Printing** – Moved the header down slightly to address reports that the page was not within margins.
- **Sample Testing - Manifest Printing** – Widened out the order type column to allow for longer type values to fit.
- **Sample Testing - Manifest Printing** – Added the ability to display the client part on the manifest based on the choice in the manifest. Set this choice to be on.
- **Sample Testing - Manifest Printing** – Added the outbound tracking number to the header of the manifest.
- **Admin Web Site – Specimen Order Step Maintenance** - Added a communication log note field to the specimen order step maintenance screen to provide a default note that will be inserted into the communication log when a specimen order is moved to a different order step.
- **Admin Web Site – Extraction Type Maintenance** – Allowed Concentration Variance – Added this field to the screen to support a numerical variance that is allowed for extractions that have more than one concentration value. This will be used for editing/error checking of concentration data capture inside the PCR tab of the sample testing module.
- **Admin Web Site – Body Source Maintenance** – Specimen Order Flag – Added a check box to this screen to allow for body source values to be coded as visible in the specimen ordering area of Assist as opposed to standard histology.

- **Admin Web Site – Communication Log Type Maintenance** – Added drop down boxes for default employee group assignment, stored comment types, and default stored comments. This will all allow for better defaulting as communication log functionality migrates toward “to do” assignment of communication records to employees and groups.
- **Sample Testing – PCR Tab – Concentration Entry** – Modified the entry of concentrations to pull the allowed concentration variance from the extraction type table rather than applying a single variance value across all extraction types to allow for better functionality.
- **Admin Web Site – Business Area Maintenance** – Added multiple checkbox to represent different areas of the business so that different data elements can be customized to only apply to the appropriate business area. The communication log messages will be the first area to have business area filters applied to them.
- **Admin Web Site – Communication Log Source Maintenance** – Created this screen to allow for the maintenance of communication log sources. This data element will become a manner of segmenting communication log entries by the business area to which the log items apply. A log source is assigned to a business area.
- **Sample Testing – PCR Extraction Grid – Communication Log Indicator** – Added an “*” column to the grid to capture whether or not there are communication log records for an extraction (PCR) record. An asterisk will be displayed if there are communication log entries in general. The back color will be green if the log entries are for the PCR business area. The back color will be red if the log entries are for the PCR business area AND they require acknowledgement but it has not been acknowledged.
- **Admin Web Site – Research Project Tracking Status Maintenance** – Created this screen to allow for the maintenance of tracking status values to be applied to individual research project objects.
- **Universal Cassette – Clinical Research Window** – Added a reprint button to allow for printing without needing to save an object. Also introduced a tracking status to allow for the delete button to move the status of an

object to deleted rather than actually deleting it to allow for improved tracking.

- **Admin Web Site – Research Project Tracking Report** – Created this report to allow for full reporting over the clinical research project data.
- **Admin Web Site – Order Type Maintenance** – Research Order Type Checkbox – Added a checkbox to the order type maintenance screen to allow for an order type to be categorized as available to the clinical research screens.
- **Admin Web Site – Research Order Type Maintenance** – Created this maintenance screen to allow for the maintenance of research order type data. This data represents the order types cross referenced to the research projects for which they are relevant.
- **Admin Web Site – Research Project Summary Report** - Create this report to provide visibility to summary counts of the number of objects that were processed as part of research project tracking.
- **Admin Web Site – Equipment Interface Protocol Listing.** Created this report to show a listing of the mapping of equipment to the protocols that are processed by that equipment. An example would a listing of stain protocols by staining equipment (i.e. Omnis, Bond, Ventana, etc.).
- **Manufacturing Module – Start/End Task Logic** – Modified the manufacturing module to allow for the capture of a start and end time stamp associated with the manufacturing tasks. Tasks are scanned after the case/accession and represent a work task. This provides the ability to get TAT by task.
- **Manufacturing Module – Specimen Complexity Addition** – Added the choice of specimen complexity to the main manufacturing screen. This allows for piece rate additions to assign appropriate work values to the types of specimens processed.
- **Manufacturing Module – Task Scan cancellation** – Added a button the screen to allow for the cancellation of a task once it has begun. This

accounts for situations where a technician begins work on a specimen before realizing the task cannot be completed for a variety of reasons.

- **Check In Module – Robot/Bulk Scanner Interface Capability** – Modified the check in module to allow for two “scanners” to interact with the screen at the same time. The first scanner would be a traditional hand held scanner with the second being a “bulk” scanner or scanning robot. The screen will handle the inbound feed however data is fed into the screen.
- **Universal Grossing – Clinical Research** – Default label quantity in configuration – For the clinical research pop up screen, modified to allow for the default label quantity to be set in the configuration for additional flexibility instead of defaulting to 1.
- **Universal Grossing – Clinical Research** – Suppress Linear/2D Bar code choices. Added two checkboxes to the clinical research pop up screen to allow for the suppression of either the 1D or 2D bar codes on the label print routine if needed with the ability to default from the configuration.
- **Universal Slide – QC Notes Too Small** – There have been a few comments about the size of the font on the QC notes being too small. Reorganized a couple of the buttons in the button ribbon to provide more space for the notes label and increase the font size from 8.25 to 12. Specifically moved the employee time button so that the elapsed time tag could be placed underneath the ribbon bar to allow the notes label to stretch farther without running into other data.
- **Check In module – Robot scanner auto flipping** – Added the ability for the robot scanner to mix/match bar codes from multiple LIS platforms in a single bulk scanner feed.
- **Check In Module – Robot Scanner Connection message** – Added a message to the bottom of the screen to indicate the connection status (baud rate/port).
- **Check In Module – Robot Feed Tab** – Added a separate listing of the robot feed on a separate tab in the history area of the screen to show the bar codes received in order (and numbered) along with Red/Green color coding to indicate if bar code parsing was processed successfully or not.

- **Admin Web Site – Research Clinical Participation Maintenance** – Created this screen to allow for the maintenance of research clinical participation data. This is where a research project is enabled for specific clients to eliminate the potential risk of specimens for the wrong client being included in a research project.
- **Admin Web Site – Research Project Tracking Maintenance** – Created this screen to allow for the maintenance of the raw research project tracking information. This is the most granular level where accession numbers are assigned to a project.
- **Universal Grossing – Clinical Research – Client Participation Enforcement** – Modified the clinical research area of the grossing module to consider client participation when assigning specimens to a clinical research project.
- **Admin Web Site – LIS Master Maintenance – Database Connectivity Information** – Added connection data to support the ability to make alternative connections for interface connectivity at the LIS platform level.
- **Admin Web Site – Collection Point Maintenance – Child Object**. Added a drop-down list of the object types to indicate which object (i.e. Cassette, bottle, slide, etc.) is the “child” or lowest level matching object for each data collection point.
- **Admin Web Site – Object Type Maintenance – Scan Type**. Added this field to the object type maintenance screen to allow for a value that matches the object type or source of the items scanned into the transaction log. This allows for reporting of specific object types.
- **Admin Web Site – Scan Transactions Hourly Report** – Created this report to provide visibility to the number of objects scanned by hour for the various data collection points.
- **Admin Web Site – Expiration Type Maintenance** – Created this maintenance screen to allow for the categorization of the types of expiration/licenses that can be tracked in Assist. For example, a Doctor Medical License would be an expiration type.

- **Admin Web Site – Expiration Item Maintenance** – Created this maintenance screen to allow for the maintenance of expiration items. An expiration item is a child of an expirate type. For example, an expiration item might be a doctor license for the state of Louisiana.
- **Admin Web Site – Doctor License Maintenance** – Added the expiration item drop down to the screen. Changed the screen around visually to improve the appearance. Added drop-down criteria for the expiration type and items. Added checkboxes to suppress inactive doctors and to hide expired license data. Also added a from/to date range to the expiration date to look for items that might be expiring in the near future.
- **Doctor Module – Tab Suppression Cleanup** – Modified the way that tabs are suppressed via code. An older method of disposing of unneeded tabs was being used. Cleaned this up for better future usage. Also changed the method for determining the tab to receive focus.
- **Doctor Module – License Notification** – Added a license button to the top of the screen. As the doctor logs into the module, it checks all licensure in Assist and displays a count of the licenses found. If any of them have an expiration date in the next X days (default of 30 but configurable), the button is displayed in red. If the button is clicked, also added routing to a newly added license tab where the licensure information is displayed. Additionally, the ability to display the cost of renewal and the web link to perform the renewal is provided (assuming someone has entered the data).

September 2022

- **Stain Queue – Stain Drop Down Positioning** – Changed the logic for the on demand scanning of slides. The protocol in the bar code was not positioning the stain drop down due to case sensitivity. Changed the screen to work regardless when pull up a stain value.
- **Admin Web Site – Equipment Type Maintenance – Show Record Number** – Added this check box to the screen to allow for the equipment type record number to be provided as needed. Also added a check box for “Active Only” and a wild card description to the selection criteria.

- **Universal Slide – Stain Queue Write** – Modified the routine that writes to the stain queue to include fields to allow for the tracking whether or not a stain queue record came from microtomy or directly from the stain queue by adding an on demand field to the table and the history audit trail.
- **Stain Queue – Robot Logic** – Added logic to the stain queue to allow for the creation of stain files that are dumped on a “pending” file location to be picked up and sent to the staining platform by a robot program. Added fields to the stain request tracking table to track the file name, path, date/time stamp, etc. When this process is done to provide tracking of when the file is created and is ready to go to the equipment network. These time stamps can then be updated when the robot actually picks the files up and processes them.
- **Stain Queue – On demand scanning** – Modified this routine to include a Y/N flag to indicate if this screen/methodology was used to pass an IHC into the staining platform rather than the pass-through directly from Microtomy/Stain Queue to indicate when manual processing is being done instead of automated workflow processes.
- **Stain Queue – On Demand Scanning** – The scanned transactions that were being sent to the stain queue were not writing an audit trail entry. Changed this to provide full history audit trail tracking.
- **Interface Utility – Stain Queue Interface** – Created a new robot routine to read through the stain request tracking records and send files that have been created via the stain queue to a staining platform interface. This handles scenarios where the stain queue is used on computers that have no routing or connectivity to the various staining platform servers.
- **Admin Web Site – Stain Queue Accession Maintenance** – Modified this maintenance screen to set the “OnDemandEntry” field to “Y” if maintenance is performed on a stain queue entry to make sure to have the notification indicate that a web based override was performed on the stain queue record.

- **Admin Web Site – Stain Request Tracking Report** – Modified this report to include the new fields associated with transmission of the files via robot instead of on demand directly from the stain queue.
- **Admin Web Site – Equipment Processing Run Maintenance** – Created this screen to allow for the maintenance of equipment processing runs. This data reflects the time and capacity of equipment type runs of specimens and/or products. It is similar to the tissue size maintenance process but is being separated to account for differences for ALL types of equipment and not just tissue processors. It is being separated to allow for future equipment specific development without putting tissue processors at risk.
- **Quality Module** – Modified the logic to suppress tabs and added the ability for each of the tabs contained inside the quality module. Also added the ability to default to any of the tabs at screen launch.
- **Manufacturing Module – Screen Handling Change** – On logout scan, the user name was not getting cleared. Corrected this. On a new case scan, the start/end task scan were not getting set back to N/A. Corrected this.
- **Check In Module** – Added the employee totals button to the screen to provide the employee with visibility to their scan totals.
- **Admin Web Site – Active Last Case Maintenance** – Created this maintenance screen to provide maintenance over this table which controls the scoreboard module view of active last cases.
- **Accessioning Module – Interface Notification Button** – This button to update the last LIS interface update did not work for PathQuest interface items. Extended the logic to allow for branching to different interface paths based on LIS/Interface.
- **Universal Cassette Queue – Drop File Accession Length Check** – When using the universal cassette queue in a drop file scenario, with multiple LIS platforms with different accession lengths.....the length was not toggling on each print. This caused leading zeros to be padded onto the base accession number with the length of the initial LIS rather than toggling to the correct size when the LIS changed.

- **Main Scanner Engine** – On a print queue automation scan, there were a few fields that were not getting propagated. Added them to the write routine even with simple placeholder values.
- **Main Scanner Engine – Specimen Type History** – Modified the routine where the specimen types are retrieved to load them into the scan history in addition to showing on the screen. This allows the employee to historically see what specimen types got captured for each block to better ensure accurate data.
- **Main Scanner Engine – Alternate cassette identifier** – Added logic to allow for different cassette identifiers for use with the same matching requisition and bottle. This is very useful for grossing deployments where the cassette identifier is changed at a later date and both “types” of cassettes need to scan during transition.
- **Admin Web Site – Client Configuration Detail Maintenance** – Print Template Value Checkbox – Added this checkbox to the screen so that individual detail values could be marked as a portion of the print template logic.
- **Admin Web Site – Manufacturing Task Transaction Report** – End Task Date Inclusion. Added the end task date to the manufacturing task transaction report.
- **Print Center – Class 1 Label** – Separate external data pull to filter product listing. Provided the ability for the class 1 label routine to pull from a separate external data source. Previously, this screen shared the same logic as the UDI label.
- **Admin Web Site – Equipment Listing Report** – Cross Reference Bar Code. Added the cross reference bar code to the equipment listing report and also added the Asset number to the selection criteria.
- **Manufacturing Module – Inventory Requests Issues** – When an inventory request was entered with the “close on save” enabled, the request would get entered and the screen would close correctly. If the button was clicked a second time, the screen would load with a filtered inventory product screen that did not work correctly. This was fixed.

- **Sample Testing - Manifest Utility** – Modified the reprint routine to show tracking numbers at the detail level if they were specified at the detail level. FedEx number can be either at the header or the detail level. If at the header, they appear in the header of the manifest. If at the detail, they appear in the detail. Previously the detailed level Fedex numbers were getting ignored on the manifest.
- **Sample Testing - Manifest Utility** – From/To History date range – Previously, there was a hardcoded “30 days back” logic that was applied when the drop-down boxes were pulled for history. By providing an actual from/to selection criteria, this data can be modified as needed.
- **Sample Testing – Manifest Utility** – Manifest Number Reprint – Added a value to the screen for the manifest number. This will load if a value is clicked in the manifest drop down list, but can be keyed directly if the employee knows which manifest they want to reprint.
- **Sample Testing – Manifest Utility** – Consolidated Tracking Numbers – Added logic to concatenate the tracking numbers at the header and detail submission levels (based on configuration flag) to allow for all carrier shipment tracking numbers to be displayed on the header of the manifest (if there are multiple). The individual tracking numbers can be show on the detail lines for clarification if there are multiple.
- **Sample Testing – Receving Tab** – Accession Number must be numeric – Put a check on the save transaction to enforce that the accession number value entered is numeric.
- **Sample Testing – Shipping Tab** – Manifest Print Changes - Consolidated Tracking Numbers – Added logic to concatenate the tracking numbers at the header and detail submission levels (based on configuration flag) to allow for all carrier shipment tracking numbers to be displayed on the header of the manifest (if there are multiple). The individual tracking numbers can be show on the detail lines for clarification if there are multiple.
- **Sample Testing – Shipping Tab** – Client/Manifest Enforcement – Added a check to the manifest detail save routine to check if there are more than one client on a manifest and generate an error message if needed.

- **Sample Testing – Shipping Tab** – Manifest Header Save – Corrected issue where the material submitted details could get saved without the manifest number getting applied to all of the detail records.
- **Sample Testing – Communication Log Entry** – Employee Group Assignment – Added the employee group assignment logic to the communication log entry screen to allow for the assignment of “to do” items to a specific employee group.
- **Sample Testing – Communication Log Entry** – Comments Change – Mandatory Addition – Modified the logic so that the change of the comments forces a new record to be written to the database instead of a change to keep a true log of the comments.
- **Sample Testing – Object Conversion Tracking** – The write routine was putting leading zeros on the accession numbers when they were added to the conversion table. Removed these from the logic.
- **Quality Module – Free Form Checkbox Header** – Added a “free form” check box to the header section of the quality module to allow for manual entry of the accession prefix, specimen (i.e. bottle) and part (i.e. cassette) identifiers.
- **Admin Web Site – Doctor License Maintenance** – Active Flag – Added an active flag and active license only criteria to this maintenance screen. This allows for the inactivation of doctor license records in scenarios where the records need to be maintenance of license but where the license does not need to appear in the various places in Assist. For example, a doctor no longer works for the firm, but licensure tracking needs to be kept for historical purposes.
- **Stain Queue - On Demand Scanning** – Protocol/Stain Lookup – If spaces were in the protocol/stain name that was placed into the bar code, the parsing engine that reads the bar codes was not “looking up” the bar code correctly. The scan parsing engine eats the blanks and creates a string that did not match the human readable in the drop down list. Changed the routine to consider the protocol WITH and WITHOUT embedded blanks when performing the lookup.

- **Admin Web Site – Manufacturing Task Employee Summary** – Created this report to provide visibility to a summary of task scan activity by employee. This includes task start/end calculations.
- **Admin Web Site – Manufacturing Order Type Maintenance** – SubAssembly and Finished Goods Checkboxes – Added these two fields to the screen to allow a manufacturing ordered to be classified as finished goods or sub assemblies.
- **Admin Web Site – Inventory Category Maintenance** – Finished Goods Checkbox. Added this checkbox to the maintenance screen to allow for an inventory category to be set up to be finished goods only. This will allow for segmentation of inventory master records in the Assist inventory module.
- **Admin Web Site – UDI Label Type Maintenance** – Finished Goods and Product Check Boxes. Added this checkboxes to the UDI label type maintenance screen to allow UDI labels to b designation as belonging to finished good products vs. Manufactured products. This allows for the triggering of the different UDI label templates to meet FDA requirements.
- **Admin Web Site – Recipe Category Maintenance** – Sub Assembly and Finished Goods check boxes. Added these checkboxes to the maintenance screen to allow a recipe category to be designated as belonging to sub assembly vs. Finished goods for use in the Assist inventory module.
- **Admin Web Site – Accession Prefix Maintenance** – Use Default Protocol check box and Default Protocol Value. Added a text field to the maintenance screen to allow for the designation of a value that should be used for a protocol for all slides for the prefix assuming the use default protocol check box is checked.
- **Interface Utility Module – Missing Client Robot** – Added an automated job that can be scheduled to compare material submission master records with no client number and attempt to update them from the LIS master table in case the client interface is lagging for some reason.
- **Admin Web Site – Doctor License Maintenance** – License Cost and License Notes. Added these two fields to the maintenance screen.

- **Admin Web Site – Doctor License Report** - License Cost and License Notes. Added these two fields to the report.
- **Admin Web Site – Expiration Tracking Report** – Created this report to provide visibility to the expiration tracking information for memberships and subscriptions that are tracking through Assist.
- **Admin Web Site – Expiration Tracking Audit Log** - Created this report to provide visibility to the expiration tracking audit log information for memberships and subscriptions that are tracking through Assist. The audit log represents all changes that are made to expiration records and provides detailed information on changes.
- **Admin Web Site – Expiration Tracking Maintenance** – Created this screen to provide the ability to maintain expiration tracking information. This is the area of Assist where subscriptions and memberships are tracked.
- **Quality Module – Error Severity Maintenance** – Modified this tab and maintenance screen to include the informational flag and font color. These two pieces of informational were previously not included in the maintenance screen.
- **Admin Web Site – Inventory Maintenance** – UDIFlag, UDITemplate, UDILabelDesc, and UDI UOM. Added these fields to the inventory maintenance screen to support interaction between the inventory control portions of Assist and the printing of UDI labels specifically geared toward finished goods inventory items.
- **Admin Web Site – Protocol Structure Report** – Human Text Override – Added this column to the report so that the human text alternative to the bar code value could be seen.
- **Quality Module – Expirations Tab/Tickler** – Added a new red/green button to the top of the screen to display any “expiration/license” data that might exist inside Assist tracking. These expirations can be medical licenses, memberships in organizations, really anything with a membership number and an expiration date. A tickler button is at the top of the screen to show the count of them along with green if they are all good or red if some number of them are expiring within the warning threshold.

- **Admin Web Site – UDI UOM Master Maintenance** – Created this screen to allow for the maintenance of UDI unit of measure mappings. In the world of UDI labels, the governmental list of units of measure do not match the actual numeric value. In other words, there are numeric codes that represent the true UOM data. This maintenance screen allows for the maintenance of this cross reference data.
- **Admin Web Site – Inventory Master Maintenance – UDI Filter** – Added a check box to the selection criteria on this screen to allow for filtering based on the inventory master items that have been marked as UDI items.
- **Admin Web Site – Recipe Master Maintenance** – Redistribute and Manufacture checkboxes. Modified this screen to allow for the specification of whether a recipe is for manufacture of a new product using sub-assembly components or represents the simple redistribution of an existing item with no sub assembly other than something simple such as repackaging.

Fourth Quarter 2022

October 2022

- **Sample Testing – Default Tab** – Added the ability to specify a default tab so that the screen can load in a custom manner.
- **Sample Testing – Specimen Order Pop Up Screen - Close On Save Option** – Added an option to the screen to show a check box for “close on save” and set a configuration variable to allow this to be on or off and to have the screen respond appropriately to the option.
- **Sample Testing – Specimen Order Pop Up Screen** – Communication Log Tree Severity Color – Modified the communication log tree to show the log message header in the severity color to have high severity items visually stand out more.
- **Sample Testing – Holding Site Maintenance** – When a new holding site is entered, or an existing one is modified, the underlying specimen order screen did not default to the newly added/maintained holding site immediately upon return from the pop up maintenance screen. Defaulted

this to cut down on having to select the site under the premise that the newly added one would want to immediately be used.

- **Sample Testing- Specimen Order Pop Up Screen** – Date of Birth Checkbox – added a checkbox to the date of birth to indicate that the date HAS been specified and should be considered valid. The default on date controls is “today” and wanted a better way of indicating that the data had really been entered.
- **Sample Testing – Specimen Order Pop Up Screen** – Specimen Tests – Changed the error message to indicate on a NEW order that a save must be performed to create the order before you can begin entering tests against the order. The message was a little misleading as to the issue previously.
- **Admin Web Site - UDI Label Type Maintenance** – Use Inventory Desc – Added this checkbox to the maintenance screen. It supports the printing of UDI labels for finished goods items where the description to print on the label should be the product description from the inventory master file and not a brand name associated with the UDI label header.
- **Inventory Module – Finished Goods Functionality** – Added a tab to the inventory module to support the tracking of finished goods. This tab largely mimics the manufacturing order tab with the exception that sub assemblies are not being created, finished goods (i.e. sales supplies, etc.) are being created. Supports the concept of manufacturing (i.e. kitted) finished goods as well as repackaged or redistributed finished goods.
- **Inventory Module – UDI Label Printing** – Added the ability on the new finished goods tab to allow for the printing of lot number finished goods UDI labels for items that fall under FDA control. The indicator for UDI is allowed at the inventory master maintenance level (discussed earlier in the change log).
- **Admin Web Site - Equipment Master Maintenance** – Equipment Bar Code Criteria. Added this criterion to the screen.
- **Admin Web Site – UDI Label Revisions Report** – Suppress Label Header, Finished Goods Flag, Product Flag, Use Inventory Description. Added all of

these new reports to the revision report to make sure full visibility to the revision changes exists from a control standpoint.

- **Admin Web Site – Department Maintenance** – Timeclock Department Code – Added this field to the maintenance screen so that a timeclock department code could be tied to the department code for employees in Assist to better define the interface.
- **Admin Web Site – Recipe Batch Maintenance** – Modified the selection criteria to include From/To date, Status, Lot number, and batch name to make it easier to identify the records to change.
- **Document Capture** – Modified to allow for changes to the automatic file naming. Allows for optional insertion of a dash between the prefix and accession number. Only adds an 01, 02, etc. To the file name if it already exists. Allow for the creation of a file folder if needed but otherwise save into a single folder typically ordered by Year, Month.
- **Document Capture – Forward after save** – Added logic to allow for a file to be copied to an alternative path after saving the image. Added logic to show the copy path and throw a message to the screen to indicate that the copy was successful. Added fields to the database to keep all of this new data.
- **Admin Web Site – Timeclock Platform Maintenance** – Created this screen to allow for the creation and maintenance of timeclock platforms. These represent the various types of timeclocks that might exist inside the organization and will part of the timeclock interface logic being introduced.
- **Timeclock Robot – Paylocity Timeclock** – Created this robot routine to upload the paylocity brand time clock into Assist. The data is loaded into the raw Timeclock punch data table in the database.
- **Admin Web Site – Email Type Maintenance** – Created this screen to allow for the maintenance of the email type. This is the beginning of the introduction of stored email records as part of the notifications process.
- **Admin Web Site – Manufacturing Team Type Maintenance** – Created this screen to allow for the maintenance of manufacturing team types. This is

part of the manufacturing module and allows for the logical grouping of teams (i.e. cells or assembly lines).

- **Admin Web Site – Manufacturing Team Maintenance** – Created this screen to allow for the maintenance of manufacturing teams. This is part of the manufacturing module and represents the grouping of employees together to work as a unit (ex. Cells or assembly lines).
- **Admin Web Site – Email Library Maintenance** – Created this screen to allow for the maintenance of email library items. This is part of the email storage to allow for forms to be created in email.
- **Admin Web Site – Attachment Library Maintenance** – Created this screen to allow for the maintenance of items in the attachment library. This is part of the attachment storage areas of Assist and represent forms and things of that nature that can be stored and attached to different activities/transactions.
- **Admin Web Site - MFG Task Employee Summary** – Time Clock Data – Modified this report to include timeclock data and also include multiple statistics.
- **PM Module – Equipment Bar Code Scanning** – Added multiple items associated with the cross reference bar code. Added it to the selection criteria on the equipment lookup. Added the ability to scan the bar code and pull up the item on the maintenance screen and on the main PM tab.
- **Admin Web Site – Timeclock Punch Data Report** – Created this report to provide visibility to raw timeclock punch data for sites that have a live interface into their timeclock platform(s).
- **Admin Web Site – Active Last Case Layout Details** – Created this screen to allow for the maintenance of the active last case layout details. This is a section of the Assist scoreboard module and allows for the mapping of machines/scan points to a big screen view of the last case that was processed. This screen is the mapping of those collection points to a scoreboard.

- **Admin Web Site – MFG Team Type Template Maintenance** – Created this screen to allow for the maintenance of manufacturing team type templates. This is the section of Assist manufacturing where a combination of scanning roles is defined. This is useful in determining what manufacturing tasks are being performed in a cell or assembly line.
- **Admin Web Site – Batch Type Maintenance** – FISH Batch Checkbox and control object count. Added a check box to this screen to allow for the marking of a batch type as a FISH batch. Also added a text box to capture the number of control objects that should be involved with the batch type.
- **Admin Web Site – Batch Status FISH Maintenance** – Created this screen to allow for the maintenance of FISH batch status values. This allows for the capture of Open, Pending, Closed status values for FISH batches.
- **Admin Web Site – MFG Team Membership Maintenance** – Created this maintenance screen to allow for the maintenance of manufacturing team membership. This is where the members of a team can be assigned via the web site instead of from the modules themselves.
- **Admin Web Site – Specimen Order Step Maintenance** – Email Drop Down – Added this drop down list to the maintenance screen to allow for the assignment of automated email messages that can be generated in response to the specimen order step being saved against a case.
- **MFG Module – LIS MFG Task Retrieval** – Modified the logic to change where the retrieval for the outstanding tasks was performed. It needed to be moved to more accurately capture the tasks that should be retrieved.
- **Manufacturing QC Module – Task Transaction Rework** – The SQL statement to perform the cancellation of a manufacturing task transaction had a syntax error that was causing it to not launch correctly. Fixed this syntax error.
- **Manufacturing QC Module – Rework MSP drop down** – Modified the logic when this screen loads. If there is only one MSP for a product, pre-selected this product.

- **Manufacturing QC Module – Rework Print On Save Checkbox** – Added this checkbox to the rework entry screen. Having this checked allows for the printing of the rework paperwork automatically on save of the rework to save time.
- **Manufacturing QC Module – Rework Request** – Management Cancel Value – Modified the rework request save routine to add a “N” to the management cancel value that has been added to the database. This value can be set to “Y” via the web screen for management flagging of a rework as not warranted.
- **Inventory Master Listing – UDI Data Fields** – Added the various UDI data fields to the inventory master listing along with a UDI Only check box in the selection criteria to pull only a listing of inventory items that are marked as FDA UDI items.
- **MFG Tasks Maintenance – Available QC Module Check Box** – Added a checkbox to the manufacturing task maintenance screen to allow for the specification of whether or not a manufacturing task should be visible in the scanning tab of the module. This cuts down on visual clutter and reduces scanning/entry mistakes.
- **Manufacturing QC Module – Available QC Module Drop Down Filter** – Modified the loading of the drop down list on the scanning tab to take into account the available check box for the QC module.
- **Manufacturing QC Module – Default scanning task** – Modified the module to look at the default MFG task value from the client configuration and default the MFG task drop down on the scanning tab to match this task.
- **Manufacturing QC Module – Button Change** – On the MFG task scanning tab, changed the “Add” and “Delete” buttons to be smaller and carry the standard Assist buttons for add (Green +) and delete (red X). This makes the module more consistent with overall application design and saves screen space.
- **Rework Request Report – Management Cancel Field** – Added this field to the report to provide visibility to rework requests that are overridden by management and are cancelled.

- **Admin Web Site – Order Type Maintenance** – Business Area – Added this drop down to the order type maintenance screen so that a relationship can be specified between an order type and the business area to which the order type applies. This will be used in a variety of filtering situations.
- **Admin Web Site – Order Category Notification Maintenance** – Created this maintenance screen to allow for the specification of employee groups that can/should receive a notification when an order is placed against a specific order category. This is part of the inbound specimen sample testing module.
- **Admin Web Site – Communication Log Source Maintenance** – Modified this screen to make sure that the same business area is not used more than once to control the communication log assignments.
- **Manufacturing QC Module – Login/Logout Buttons** – After successful login, the logout button was not visible. Corrected this.
- **Manufacturing QC Module – Task Start/Task End** – Added the task start and end logic to the Manufacturing QC module to be able to track TAT on QC scans.
- **Manufacturing QC Module – Specimen Complexity** – Added the specimen complexity logic to the QC module to allow for the display and override of the specimen complexity information.
- **Admin Web Site – Order Type Maintenance** – Banking Only Checkbox – Added this checkbox to the maintenance screen to provide for the ability to mark an order as “banking only”. This is useful for facilities that prepare specimens that will not be used up during testing, but rather are placed on slides (etc.) and stored/banked for future use.
- **Admin Web Site – Order Type Maintenance** – Micron Depth Allowed and Enrichment Allowed – Added this checkboxes to the screen to allow for the capture of these data elements.
- **Admin Web Site – Material Submission Template Detail Maintenance** – Enrichment Ordered Checkbox – Added this to the screen to allow for enrichment orders to be included in a template when ordering by default.

- **Admin Web Site – Doctor Order Report** – Enrichment Ordered – Added this column to the report to provide visibility to doctor orders placed with enrichment.
- **Admin Web Site – Doctor Order Audit Report** – Administration Button – This button returned the employee to the “screen” main page instead of “reports”. Fixed this issue.
- **Admin Web Site – Order Category Maintenance** – Enrichment Allowed Checkbox – Added this checkbox to the order category maintenance screen so that it can be used to filter the enrichment checkbox on the order entry pop up screen in the sample testing module.
- **Sample Testing – Enrichment Logic** – added the logic throughout the entry process in the sample testing module to capture enrichment data.

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- **Admin Web Site – Specimen Type Maintenance** – Alternate Description – Added this field to the maintenance screen to allow for an additional full description to be stored to cross reference descriptions and further describe a specimen.
- **Check In – Equipment Assignment Changes** – Duplicate Equipment Types - Added the ability for multiple pieces of the same equipment type to be assigned to a session. Previously, there could only be one piece of a specific equipment type assigned, but for stations that have multiple devices that they work with, this was a problem.
- **Check In – Equipment Drop Down** – Changed the logic to only show records in the drop down based on the equipment assignment for the computer. Also added an “all equipment” check box to allow for the toggling of all equipment vs. Just the equipment assigned to the session.
- **Admin Web Site – Equipment Maintenance** – Equipment Capacity – Added this field to the screen to allow for the capacity of a piece of equipment to be tracked for use in the check in module.

- **Equipment Maintenance Module – Equipment Capacity** – Added this field to the equipment maintenance tab to allow for the maintenance of the equipment capacity information.
- **Grossing Notes Report** – Grossing Notes and Clinical criteria. Added the grossing notes and clinical information wild card to the criteria.
- **Universal Cassette POU – Rx Image button and check on scan** – Added logic to look for an Rx image when a requisition is scanned if the automatic Rx Lookup check box is checked and also added a button to manually pull the data. If an Rx is “seen” at Requisition scan, turn the background of the button green.
- **Universal Cassette POU** – Protocol in bar code vs. Specimen type in DB logic. For sites that have a specimen type contained in the bottle bar code, there can be a conflict if the data in the bar code exists and is different from the specimen type already mapped in the database. Modified the logic to use the bar code specification UNLESS the DB holds a value from employee override or LIS interface in which case the DB wins the fight.
- **Universal Cassette POU – Body Source Lookup** – Modified the logic used for the body source lookup for sites that use the LIS Patient verification process. Allows for logic with pulling a short code out of the body site description to then use to pull the full description from the Assist body site master table.
- **Check In Module – Run History Details** – Modified the right hand section of the module. When a run/batch is selected from the drop down list, now the details associated with the batch are displayed (Start date, end date, unloaded date, equipment description, run description) before the details of the run (i.e. cases or accessions) to provide better information.
- **Check In Module – MFG Task Batch Scanning** – Added an entire functional area to the check in module to support manufacturing tasks and batch scanning. This supports sites that need to task scan against multiple cases before then submitting the entire batch into a piece of equipment for processing.

- **Admin Web Site – Business Unit Maintenance** – From Department and From Phone – Added these two fields to the business unit maintenance screen. These are part of the interactive form logic and are used to hold return phone numbers and departments inside the forms. This is especially useful when working with fax cover sheets.
- **Admin Web Site – Attachment Library Maintenance** – Interactive Form Checkbox – Added this checkbox to the attachment library maintenance screen. This will be used inside the various applications that make use of the form attachment library to use either static stored forms or to prompt for interactive information.
- **Sample Testing – Interactive Form Logic/Pop Up Screen** – Added logic to the specimen ordering screen to handle the display of the form attachment library. This functionality supports the printing/creation of forms such as fax coversheets and other types of forms associated with client interaction.
- **Sample Testing – Interactive Form Checkbox** – Added this checkbox to support forms that exist as both interactive forms AND as static forms so that the employee can choose on a case by case basis which version of the form to launch when it is selected from the library.
- **Universal Microtomy – Always Protocol Settings** – Added logic to the point of use slide routine to always default a protocol value into the bar code if necessary. A default protocol (ex. “HE”) can be defaulted so that there is always a value in the bar code. This is driven by a configuration flag to turn the feature on AND a value is stored in the accession prefix table to turn it on by prefix with the default value allowed at that level so that it can be turned on at the data level.
- **Universal Microtomy – Doctor order retrieval** – no user id mapping – The doctor order logic needed there to be a valid cross reference ID between Assist and the ordering LIS. Modified the logic so that if no mapped is found, to just show the raw ordering identifier in the name column to have the routine work regardless of LIS mapping.
- **Interface Utility – Order Type Interface** – No Mapped User ID – Modified the order type interface robot. Previously, when a doctor order was being

processed, a connection to the Assist doctor file was done via cross reference in order to load an order OR the order got saved with the requesting doctor reflected as “robot”. Changed this to simply show the unmapped ID value.

- **Doctor Closeout – User Name for non mapped users** – Using the same logic as indicated above for the robot, if the ordering doctor value was not mapped to an Assist doctor, just show the ID in the name field rather than “robot”.
- **Doctor Closeout** – User ID free form check box and text box/criteria logic. To support the logic of the ID being shown if there is no user mapping, added a free form selection criteria choice to pull back a single ID instead of a selection from the drop down (which would indicate a mapping existed).
- **Admin Web Site – Attachment Form Layout Maintenance** – Created this screen to allow for the maintenance of the attachment form layout data. These elements represent the form layouts for the electronic storage of attachments.
- **Scoreboard – Doctor Order Closeout Board** – User ID if no name. The scoreboard that shows doctor orders was modified to show the ordering doctor ID in the name field if there is no name mapped to the doctor.
- **Universal Cassette POU – Patient Direct Print** – In direct print mode (as opposed to drop file) there was no logic to include the patient name and to control the printing (i.e. X/Y, size, etc.). Added this to provide additional cassette printing flexibility.
- **Universal Cassette POU Magazine/Specimen Type Interaction** – Modified the cassette point of use logic to default the magazine from the specimen type when relevant. Previously, this worked using the block/slide instructions data in the middle of the transaction.
- **Universal Cassette POU** – Cache was displayed even direct print – Corrected this visual oversight where a cache directory was being shown even if the cache was not relevant for the configuration.

- **Universal Slide POU** – Slide bar code compare to LIS Office Queue – For sites that compare Assist generated bar codes to LIS bar codes, added the ability at slide scan to determine if the slide created is anticipated by the LIS and to write to the database if there is a discrepancy and write to the office queue for entry into the LIS.
- **Admin Web Site – Office Queue Report – Full Bar Code** – Added the full bar code field to the office queue report. This data can be useful when comparing LIS discrepancy comparisons.
- **Office Queue – LIS Bar Code Discrepancy Queue** – Full Bar code and Protocol changes.
- **Admin Web Site – Control Tissue Maintenance** – Histology, PCR, FISH, Flow, Cytogenetics checkboxes. Added these check boxes to the maintenance screen to allow for the categorization of the control tissue and the filtering when loading into drop down boxes.
- **Admin Web Site – Training Type Maintenance** – Created this screen to allow for the maintenance of training types. This is used in multiple modules of Assist and reflects the types of training (i.e. production, human resources, etc.) that can be tracked/performed.
- **Admin Web Site – Training Media Type Maintenance** – Created this screen to allow for the maintenance of training media types. This is used in multiple modules of Assist and reflects the types of training media (i.e. video, images, documents) that can exist.
- **Check In Module – Run Count** – Modified the check in process to update the run count by 1 every time the processing run button is clicked. This gives a count of the number of times the run processing has been done and can be tied into the preventative maintenance process.
- **Admin Web Site – Training Media Maintenance** – Created this screen to allow for the maintenance of training media. These are the training materials that can be accessed via the training functionality in Assist.
- **Admin Web Site – Training Choices Maintenance** – Created this screen to allow for the maintenance of the assignment of training materials to

employees, departments, and manufacturing tasks as necessary to meet the requirements of training programs.

- **Office Queue Closeout** – Criteria pass through to print log screen. Modified the routine that launches the print log to take any criteria that has been entered on the underlying screen to the print log screen so that the criteria does not have to be specified a second time.
- **Office Queue Closeout** – Log Print – Add Protocol value and full bar code. – Modified the log print routine to include these two additional columns.
- **Office Queue Closeout** – Center log print pop up screen. Modified the print log screen so that it is centered on the parent screen when it is launched to be consistent with the other modules.
- **Interface Robot – PathQuest Interface** – Check for full bar code in office queue – Modified this robot to check for the full bar in the office queue before writing it into the list of doctor orders. This eliminates redundancy where the order got entered and passed into Assist because of an exception in the office queue.
- **Universal Cassette POU – Specimen Type Abbreviation in description** – Added a check box to the screen to allow for the opt in/out of showing the specimen type abbreviation in front of the specimen description when the drop down box is loaded.
- **Universal Cassette POU – Molecular Object Scanning** – Resolved an issue where a message was being sent to the screen notifying that an invalid object had been scanned on the vial object.

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- **Check In Module – Equipment Processing Run Auto Close** – The check for active processing runs was not working perfectly. If a run was active when the equipment was chosen, it would close it if the timeframe was exceeded but would not immediately notify that the equipment was available. If the equipment was selected a second time, it would reflect it as available. Adjusted so that both happen at the same time.

- **Admin Web Site – Doctor Order Type Listing** – Extended this report to include protocols and protocol details so that a full break down of the doctor order type and how it will be reflected in slide printing routines can be seen.
- **Admin Web Site – Order Type Maintenance** – Order Only No Print Checkbox – Added this checkbox to the screen to allow for orders to be marked just as orders but not to print at Microtomy. This supports the use of orders outside of histology labs (i.e. PCR, Fish, etc.) where the order is entered but slides should not print.
- **Admin Web Site – Scan Rate Report** – Cleaned up the criteria section of the screen to make more consistent and visually appealing.
- **Sample Testing – PCR Tab – “T” button.** The pop up screen that is fired from this button did not filter to only show the orders for the extraction type that was selected. Correct this.
- **Interface Utility – Pathway Interface** – Override Interface Logic – Added logic to the Pathway interface to consider the override interface flag when loading LIS interface information. This flag, if found ON for an accession number will skip it from updates as it would indicate that the employee manually made an entry that they do NOT want overridden by the interface robot job.
- **Sample Testing – Receiving Tab** – Resequence Button – Modified the logic behind the resequence button so that it only resequences unstained slides. Previously, stained slides and paraffin blocks could also be resequenced, which does not make sense.
- **Sample Testing – Receiving Tab** - Override Interface Check Box – Modified the save routine on the receiving tab to include the override interface check box and to save this data into the LIS interface table to mark an LIS interface record as something that a subsequent run from an interface should not override.
- **Universal Cassette – Pathway Location Identifier not triggering mismatch** – Discovered an issue that could impact labs that use the Pathway LIS at grossing. If the same exact accession number, and suffix are process back to

back, but with different location identifiers...and a mismatch is performed, the difference in location identifier was not noted. This was corrected.

- **Check In – Processor Batch Drop Down load – User Filter.** Modified the processor history drop down load to have a check box to provide the choice of opting to ONLY see the equipment runs for the logged in employee or all of them.
- **Check In – Batch Task Scanning – Unload closes active batch.** Modified the logic around equipment and task scanning batches to have the unload button actually close the batch.
- **Check In – Button Bar Codes – Added bar code functionality for load batch, close batch, and positioning of the batch history to cut down on the need to interact with the mouse.**
- **Admin Web Site – Equipment Type Maintenance – Batch Only Type Checkbox.** Added a check box to the equipment type maintenance screen to allow an equipment type to be marked as an equipment type solely for the purpose of batching. This is relevant for scenarios where a “batch” of specimens are being worked on and the “equipment” is a tabletop, drying station, etc.
- **Admin Web Site – Business Unit Maintenance – Default Delay Days – Add** the default delay days field to the business unit maintenance. This value will be used for defaulting the delay notification in client/customer communications when an order cannot be processed normally.
- **Admin Web Site – Case Hold Reason Maintenance – Auto Release – Added** this check box to the maintenance screen to mark a case hold reason as a value that will flag and immediately release. This is done to phase in/out case holds that also trigger QC information.
- **Universal Cassette POU – Case Hold Auto Release Logic – Added** logic to the patient verification process to immediately release a case from hold if it is set to “auto release”. This allows for the case to show in history as a hold with an immediate release to note the impact of introducing a case hold and also to generate a QC message.

- **Admin Web Site – Specimen Type Audit Log Report** – Robot User name – For specimen type transactions that were generated by an interface robot, the records were not showing up on the report due to lack of a match to a user name. Added the value “ROBOT” to include these rows on the report.
- **Admin Web Site – Timer Countdown Maintenance** – Run Cancelled and MFG Task. Added a check box to allow for a timer run to be marked as cancelled and also the ability to put in a manufacturing task if needed.
- **Admin Web Site – Timer Countdown Report** – Run Cancelled and MFG Task. Modified this report to include the run cancelled field and the manufacturing task.
- **Admin Web Site – Equipment Tracking Report** – Task Cancelled and Task Cancelled Date. Modified this report to include the task cancelled Y/N value and the task cancelled date if relevant.
- **Admin Web Site – MFG Task Transaction Report** – Task Scan Cancelled. Modified this report to include the task scan cancelled Y/N value.
- **QC Module – Lab Operations Grid Click Criteria** – The click of the lab information rows now loads the criteria for prefix and accession into the fields on the other tabs.