2020

January 2020

- **Admin Web Site – HL7 Outbound Information Inquiry** – Added the transaction processed date to this report.

- **Admin Web Site – Interface Accession Details Report** – Added the Active Flag field to the report data that is displayed and added an "Active Only" check box for selection criteria filtering.

- **Admin Web Site – Inventory Assignment Type Maintenance** – Created this screen to allow for the maintenance of inventory assignment types. These types are used to clarify where the assignment of an inventory item to a case/accession number/lot number came from in the database. An example would be the Assist data collection station that generated the transaction.

- **Admin Web Site – Patient Test Maintenance** – Created this screen to allow for the maintenance of patient tests. These are used in the clinical package tracking module of Assist and are used to define the quantity of specimen containers that are required when loading specimen data.

- **Universal Module** – Encountered an issue where two number wheels that start with the same characters were not parsing correctly. One of the number wheels was de-activated, but the various routines in the universal module did not factor in the "Active Flag" when checking. Corrected this.

- **Admin Web Site – Patient Component Maintenance** – Created this screen to allow for the maintenance of patient components. These are the individual components that make up a patient test.

- **Admin Web Site – Inventory Template Detail Maintenance** – Added the Value Filter check box value to the screen. This will allow inventory template logic to be extended to support min/max values or a list of values by using this flag to branch to the value table.

- **Doctor Closeout** – For sites that use the Pathway LIS, the accession prefix selection criteria were not allowing prior year cases to be retrieve IF the accession prefix drop down was used to filter the result set since it would

not cross back to the prior year. Added a check box to "ignore year" for Pathway cases. It is defaulted to the OFF state, but allows for retrieval of Pathway orders regardless of year for the prefix.

- **Admin Web Site – HL7 Number Wheel Interface Type** – Extended this screen to include the LastDoctorOrderDate so that the last order pulled can be integrated into the HL7 outbound interface for doctor orders.

- **Manufacturing Module** – Added a "Show All Tasks" to the task scan history section of the manufacturing module. This provides the flexibility to the end user of showing all tasks that are ELIGIBLE to be scanned vs. just that tasks that HAVE been scanned.

- **Manufacturing Module** – Added logic to allow for the scanning of component part bar codes with inventory codes and lot numbers against case numbers for lot control tracking.

- **Admin Web Site – Inventory Template Detail Maintenance** – Modified this screen to include an active flag so that items can be inactivated while still being left attached to a template.

- **Accessioning Module – Delimiter Scan** – Modified the delimiter routine inside the accessioning module. If a bad case date was encountered, it could throw out the routine without capturing the rest of the LIS information. Corrected the routine to survive bad data. Also modified it to truncate the leading zeros on the accession number if necessary.

- **Universal Slide Module** – Added the ability to print the doctor initials on the slide and control the location and look of the data.

- **Universal Slide Module** – Modified the module to respond to a bar code scan for the positioning of the slide protocol drop down listing. This can be done either by exact match of the text string in the drop down or via the number that represents the stain.

- **Universal Module – Control Tab** – Enhanced the control tab inside the universal module. Added a drop down of control prefixes with the last used control number tracked at this level. Added several features to suppress the various values on the screen. Added the ability for the printing of the

control to send that bar code to the stain queue for release to the staining platforms.

- **Admin Web Site – Control Prefix Maintenance** – Created this screen to allow for the maintenance of the control prefixes. These are used inside the control tracking module of Assist and also via the control slide print tab inside the universal slide module.

- **Stain Queue – Row Count** – Added a row count to the top of the stain queue to make it easier to see how many records exist for processing.

- **Stain Queue – Save Fix** – There was an issue with saving changes to an existing record in the stain queue. The stain cross reference value was being enforced as mandatory data when it should not be.

- **Stain Queue – Authentication Impersonation** – Added authentication impersonation logic to the copy/paste to the slide stainer server platform so that a "net use" command or mapped drive do not need to be created.

- **Admin Web Site – Accession Slide Count Maintenance** – PH Level – Added the PH Level drop down to the slide protocol details section of this maintenance screen. It allows for the specification of a PH level, which can be subsequently printed on a slide for sites that want to carry the PH level of the stain to the staining platform visually.

- **Admin Web Site – PH Level Maintenance** – Created this screen to allow for the maintenance of the PH Levels discussed above.

- **Admin Web Site – Equipment Interface Maintenance** – Corrected an issue on this maintenance screen where the acknowledgement file type was overriding the acknowledgement file path on update transactions.

- **Admin Web Site – Employee Scan Rate Report** – Identified and corrected a bug with the Assist time calculation. The logic was flawed when a time bucket of login/logout crossed beyond the to criteria. This was corrected.

- **Admin Web Site – Stain Request Acknowledgement** – Created this report to provide visibility to the acknowledgement transactions that are sent back by the staining platforms in the facility for sites that have the Assist Stain

tracking enabled and have acknowledgements from the instrument platform indicating completed transactions enabled.

- **Distribution Module** – Modified the distribution module to capture the manifest type when a manifest is generated. This allows for the introduction of the concept of manifest types to group the types of shipping.

- **Admin Web Site – Manifest Type Maintenance** – Created this screen to allow for the maintenance of manifest types. Manifest types are used to keep track of the maximum capacity of items.

- **Admin Web Site – Truck Tracking Status** – Created this screen to allow for the maintenance of the truck tracking status values. These are part of the truck tracking functional area of Assist.

- **Print Center – Requisition Label Screen** – Modified this screen to have the accession number field set the maximum length to the size of the number wheel. Also modified to pull the X/Y coordinates to control the printing of where things are to the label so that an administrator can tweak the settings.

- **Admin Web Site – Patient Test Component Maintenance** – Created this screen to allow for the assignment of the various components of a patient test to be set. This is used inside the client/PSC tracking module of Assist and allows for the building of the "template" that defines what should be included in a patient test.

- **Admin Web Site – Patient Component Status Maintenance** – Created this screen to allow for the maintenance of the status values that will be associated with patient components as they are traced through the Assist clinical/PSC tracking feature set.

- **Admin Web Site – Accession Slide Count Maintenance** – Slide Recipe Maintenance – Added a field for HumanTextOverride. This field provides the Assist administrator with a different value that can be printed via the Universal slide print than the value that goes into the barcode.

- **Universal Slide** – Modified to take into account the ability for protocols to print something different inside the bar code than on the human readable. This is really done to support situations where special characters are desired in the human readable definition of a stain, but the same values might cause issues inside the bar code when scanned or read by equipment.

- **Universal Slide** – Added the interface into StainTracking which allows for the capture of unique slide values inside the bar code. This allows for unique instances of a slide where each individual slide is numbered within its specimen part, number, and protocol. The scan of the slide is then written into the StainTracking database table. This is used to determine that another iteration of the slide has been "activated". Just printing the slide does not cause this transaction.

- **Main Scanner Engine** – Modified to handle the existence of the stain tracking data inside the bar code.

- **Distribution Module** – Modified to handle the existence of the stain tracking data inside the bar code and also write the slide instance field to the Assist database.

- **Distribution Module** – Modified the "Utility" button scan history view to include the protocol for greater ease in viewing what is being redistributed or otherwise worked with inside the distribution utility.

- **Admin Web Site – Distribution Detail Report** – Added the protocol instance to this detailed report.

- **Universal Slide – Doctor Orders** – Modified this routine so that when an "Open" status order is printed, it automatically moves the order status to a pre-configured status such as "Printed" so that it can automatically indicate that the order is being processed.

- **Admin Web Site – Stain Tracking Status Maintenance** – Created this screen to allow for the maintenance of stain tracking status values. Stain tracking is used to indicate that a special stain protocol slide was created so that they can be uniquely numbered in the bar code.

- **Admin Web Site – Stain Tracking Status Change** – Created this screen to allow for individual slide protocol instances to be marked as a status other than active.

- **HL7 Interface** – Modified this utility to capture the machine name of computer/server that is running the HL7 interface utility and that processed the transaction.

- **Admin Web Site – Stain Tracking Report** – Created this report to provide visibility to the stain tracking data inside Assist.

- **Admin Web Site – HL7 Raw Messages** – Created this report/inquiry to provide visibility to the raw HL7 messages received into Assist before any form of processing or parsing has been performed.

- **Accessioning Module** – Modified this module to allow for better LIS integration. If the LIS interface integration is in place, and a requisition is scanned, then all bottle labels for the case can be automatically printed as well as the cassette requests be automatically sent to the cassette queue for printing.

February 2020

- **Admin Web Site** – Inventory Accession Tracking Report – Created this report to provide better visibility to the assignment of inventory items to a scanning station. This is used as part of the lot control tracking and inventory control.

- **Admin Web Site** – Product Maintenance – Added a ProductID and a cross reference field to the product master maintenance screen to allow for better matching up to external ERP or LIS systems and the product master file.

- **Admin Web Site** – Product Training Maintenance – Created this screen to allow for the maintenance of product training records. These are used to allow for the association of training notes and web site links with products.

- **Distribution Module** – Added the ability to have a bar code value (~MANIFEST by default) that can drive the clicking of the create manifest button.

- **Universal Cassette POU** – Trash Tracking – Added the trash tracking feature to the cassette point of use module. This provides the same functionality the previously was resident inside the main Assist scanning module.

- **Universal Cassette POU** – Added the ability to have the Pieces functionality be introduced via a drop-down listing opposed to only as a free form text box.

- **Universal Cassette POU** – Modified the routine to display the name of the print queue that cassette transactions will be written to when the point of use screen is in play. This value comes from the queue loader settings maintenance screen and will visually provide an indicator to the employee of where their transactions are going (in a printed status) so that they can be reviewed and reprinted if necessary.

- **Admin Web Site** – Multiple Piece Maintenance – Created this screen to allow for the maintenance of the drop-down values that are displayed on the various screens that allow for the entry of multiple piece information.

- **Admin Web Site** – Personal Configuration Override Screen – Rearranged some of the values on the screen and the positions to improve the appearance of the screen.

- **Universal Cassette POU** – Trash Tracking Modification – Added the ability to specify a default "drawer" for trash tracking scans. Previously, trash scans went into the Assist banking warehouse with no "drawer" which made the inquiry not ideal for looking them up. If a default drawer of "Wet Tissue" is created, the trash scans can be defaulted into this drawer.

- **Universal Cassette POU** – Processor Batch Scanning – Modified the logic associated with the formatting of the processor batches on the screen. The formatting was different in the human readable format when scanning processor batches vs. when the screen initially loads.

- **Admin Web Site** – Digital Queue Status – Created this maintenance screen to allow for the maintenance of the status values associated with the digital pathology queues. This is part of the digital pathology functional area of Assist.

- **Admin Web Site** – Product Training Maintenance – Modified this screen to allow for the addition of the product ID field from the product master table into the front of the drop-down listing. Also provided the ability to filter the product drop down list to only display products that are missing training for sites that are trying to create records for all of them.

- **Admin Web Site** – Product Master Maintenance – Modified this screen to provide search criteria to include the product ID and to add a toggle button to show the product ID and include it in the sort order.

- **Inventory Module** – Receiving Tab – Reworked this tab graphically to make it more visually appealing. Added icon buttons instead of word buttons. Changed the font size to allow for more data on the screen. Added a unit cost to the data to allow for the capture of costs by lot number. Added a purchase order field to allow for the capture of purchase order data at receiving.

- **Inventory Module** – Transaction Inquiry – Added the P/O number to the selection criteria and the detail grid. Also resolved issue with the inquiry logic that was causing the true number of rows returned to be incorrect.

- **Admin Web Site** – Truck Tracking Maintenance – Created this screen to allow for the maintenance of open "trucks" from the web site in addition to the Assist truck tracking module. This is part of the freight tracking section of Assist.

- **Universal Slide** – Embedded Slide Indicator Handling – For sites that use an embedded indicator in the cassette bar code that indicates slide protocols, there was an issue where if a specimen type was indicated that conflicted with the legacy embedded indicator, that the legacy value was overriding the specimen type indicator. Added a configuration flag to allow for the specification of which value should be in charge when there is conflict and set to be the specimen type which is the "newer" method of implementation.

- **Universal Cassette** – Manual Mode – Modified this screen to slightly decrease the font size and increase the accession prefix drop down box width to support more complicate accession number wheel formats.

- **Admin Web Site** – Security Maintenance – Added the phone extension field to this screen to allow for the storage of a phone extension with an employee.

- **Universal Module** – Both Cassette and Slide variations – Employee Timeout Override – Added the ability to have the employee automatic timeout value derived from the employee timeout override table by data collection point grouping rather than the default value for the data collection point configuration.

- **Universal Cassette POU** – Trash Tracking – Modified this routine to leave the active trash bin selection in place if the screen toggles modes between LIS formats. Previously, the value was getting lost and had to be reset when the configuration changed.

- **Admin Web Site** – Object Request Status Maintenance – Added a flag to the status maintenance screen to allow for the indication of which status values will automatically take information over to the warehouse/banking picklist screen.

- **Admin Web Site** – QA Error Maintenance – Added a field for Case Value Metric. This data will allow for a value to be entered that would subtract from employee efficiency tracking on cases when workflow/case load credits are being calculated.

- **Warehouse** – Modified the warehouse to allow for alternate ending/starting characters on the protocols inside the bar code in case more than one type of delimiter exists.

- **QC Module** – Modified the maintenance screen tab to include the case value metric that was created as indicated in the change list above.

- **Print Center** – Processor Bin Labels – Created this screen to allow for the printing of processor bin labels for sites that are going to print processor bin labels.

- **Admin Web Site** – Processor Bin Maintenance – Created this screen to allow for the maintenance of processor bins. These bins are being introduced as an alternative to grossing processor batches that are used to

track the cassettes processed by a grosser prior to being sent to the tissue processor room. This allows the actual "bins" to be tracked for easier and more accurate release into the tissue processor equipment.

- **Scoreboard** – Production Microtomy Graph – Modified this graph to allow for branching and the display of distinct blocks from microtomy rather than just having the option of summing the slide counts for sites that wish to track microtomy production visually by block instead of slide.

- **Universal Slide** – Added scan classifications to the screen. These allow for different scan "codes" to be controlled by the employee to classify their scan transactions by a different category without switching configurations. This provides a better method of logging microtomy scans as "regular", "recuts", "Special Stains", etc. In older versions of Assist, this was controlled via a configuration switch. This simplifies the method and allows the employee control over their transactions.

- **Universal Slide** – Unique Tracking Value – Resolved issue where the unique tracking slide counter was getting default to a value of "2" on the first slide instead of "1". While technically still unique, this was not the intended result. It has been corrected.

- **Admin Web Site** – Employee Timeout Override – Created this screen to allow for the maintenance of custom "auto logout" transactions for the various data collection groups.

- **Admin Web Site** – Scan Classification Override – Created this screen to allow for the creation and maintenance of scan classification overrides. These are the various scan codes that can be logged by the modules of Assist for a specific data collection point and allows an employee to place their transactions under a scanning category or grouping. The values maintained here can be shown as choices on the data collection screens.

- **Universal Cassette** – Added scan classifications to the screen. These allow for different scan "codes" to be controlled by the employee to classify their scan transactions by a different category without switching configurations. This provides a better method of logging grossing scans as

"regular", "gross only", "more tissue", etc. In older versions of Assist, this was controlled via a configuration switch. This simplifies the method and allows the employee control over their transactions.

- **Admin Web Site** – Inventory Details Maintenance – Modified this screen to include the Purchase Order Number and Item Cost fields to allow for expanded tracking of the individual inventory items that are held and tracked in the inventory module of Assist.

- **Doctor Module** – Warehouse Request Tab – Modified the warehouse request to include the "material requested" drop down to allow for the specification of what materials are needed (e.g. slides, blocks, both, etc.).

- **Admin Web Site** – QA Severity Maintenance – Added an "Informational" flag to the severity table to allow for the capture of purely informational QC messages that do not carry any form of error severity assignment to them.

- **Admin Web Site** – Digital Queue Maintenance – Created this screen to allow for the maintenance of digital queues. These are part of the digital pathology feature set inside Assist that is utilized in the doctor module.

- **Admin Web Site** – Diagnostic Source Maintenance – Created this screen to allow for the maintenance of diagnostic sources. These are part of the digital pathology section of Assist and relate to the various artificial intelligence algorithms that could be used to "auto diagnose" cases prior to their presentation to a doctor for verification.

- **Admin Web Site** – Diagnosis Cross Reference Maintenance – Created this maintenance screen as part of the digital pathology artificial intelligence section of Assist. This table allows for the listing of cross reference values for AI engines to be mapped to diagnosis values inside Assist.

- **Admin Web Site** – Visit Reason Maintenance – Created this maintenance screen to allow for the maintenance of reasons for a visit. This is part of the Assist Welcome module that can be used for unattended lobby features.

- **QC Module Extra** – Acknowledgements Generate QA Information – Modified the manufacturing QC module to allow for an acknowledgement

with comments/notes to automatically be mapped to a QC message inside the quality control tab.

March 2020

- **Admin Web Site** – Rework Status Maintenance – Created this maintenance screen as part of the rework tracking of Assist to allow for the specification of the status values that can be associated with a rework request.

- **Admin Web Site** – Material Status Maintenance – Created this maintenance screen as part of the sample testing module of Assist that keeps track of inbound materials that are submitted to a facility. This maintenance screen is for the values of individual material items.

- **Admin Web Site** – Rework Reason Maintenance – Created this maintenance screen to allow for the maintenance of rework reasons. These reasons are used to keep track of the reasons that rework has been performed.

- **Admin Web Site** – Material Submission Type Maintenance – Created this screen to allow for the maintenance of material submission types. This is part of the Assist sample testing module and represents the types of material submission types that could occur (reference testing, drug studies, etc.).

- **Inventory Module** – On the various tabs, the product master label was labelled as product in some places and item in the other. Modified to make them all the same.

- **Admin Web Site** – Welcome Board Type Maintenance – Created this screen to allow for the maintenance of welcome board types. This is part of the Human Resources section of Assist where welcome boards and in/out boards can be placed in the facility. This allows the employees to specify WHICH type of welcome board is being created.

- **Admin Web Site** – Welcome Board Maintenance – Created this screen to allow for the maintenance of welcome boards. These are the human resources display boards (ex. Welcome to facility, In/Out boards) that can be displayed around the facility.

- **LIS Interface Module** – Added the Slide Duplicate, alternate description, and Extra Notation fields to the client maintenance tab. Also added a refresh button to allow for the reloading of the entire client screen from the database.

- **Admin Web Site** – Client Maintenance – Added the slide Duplicate and Extra Notation fields to the client maintenance screen. Also added an Alternate Description to allow for an alias for the practice (such as a listing of doctors) to be maintained.

- **Universal Module** – Demographics tab – Added the button to allow for the display of the client production values screen. This screen will allow for a number range of accession numbers to be applied to a client as their production totals. This can then be used to indicate the volume of cases to be processed in the lab in Scoreboard.

- **Inventory Module** – Modified all of the tabs in the inventory module to include the product code to allow for the retrieve of the inventory items by codes if known. This allows for speedier selection from the drop-down lists.

- **Inventory Module** – Inventory Requests – Added a created user and created date to the database write transactions. This allows for the capture of who actually created requests in case the creator and date do not match the actual requester and date requested. Also disabled the requested date to remove the ability to "back date" unless someone is allowed to do so.

- **Admin Web Site** – Inventory Master Maintenance – Added the External Number field to the screen to allow for the specification of a "vendor" product number for an inventory item. This field is displayed when the product is received and can be captured at this point, but if it is a static number, this allows for it to automatically be loaded.

- **Inventory Module** – Maintenance Tab – Modified this tab to include the external product number field. This allows for the specification of a "vendor" product number for an inventory item. The same change was made to the web version of the inventory maintenance screen.

- **Accessioning Module** – Interface Pop Up – Modified this screen to enable scanning. The scanner routine on the main screen is disabled and the

scanner will interact with the pop up screen to allow for the scanning of doctor bar codes.

- **Inventory Module** – Product Number – Modified the receiving tab to retrieve the external product number field from the inventory master when the selection is made. Additionally, the routine checks the inventory sourcing table to see if there is a specific vendor external product number when the vendor is specified.

- **Inventory Module** – Replaced all of the "word buttons" with icon buttons for module-wide consistency.

- **Admin Web Site** – Inventory Request Maintenance – Included the writing of the created by user and date to better allow for analysis of when requests are made and by whom.

- **Admin Web Site** – Inventory Request Report – Included the created by user and date on this report for analysis of when requests are made and by whom.

- **Inventory Module** – Receiving Label Print – Added the print date as a variable choice to print on the inventory label. Also provided the ability to suppress the decimal points on the quantity via the configuration for sites that only stock inventory in whole numbers and not decimals to cut down on visual clutter.

- **Admin Web Site** – Welcome Board Employee Maintenance – Created this screen to allow for maintenance over the welcome board/employee cross reference table. This table is part of the human resources in/out board and allows for the assignment of which employees should show up on which in/out boards.

- **Admin Web Site** – Error Message Maintenance – Case Hold Reason – Added a drop down to this maintenance screen to allow for the assignment of a case hold reason for error messages that would indicate that a case hold should be placed when the error message is used. Also added error severity to the selection criteria.

- **Admin Web Site** – LIS Patient Verification – Created this screen to allow for maintenance over the LIS Patient Verification table. This table is used as part of the quality/patient check.

- **Admin Web Site** – Inventory Lot Status Maintenance – Created this screen as part of the Inventory validation logic inside the Assist inventory module. These status values allow for the capture of a status associated with an inventory log that has been received (e.g. Quarantined, Rejected, Accepted).

- **Admin Web Site** – Inventory Type Maintenance – Test Kit Flag – Added the test kit flag to the inventory type maintenance screen to allow for the specification of an inventory type as being test kits.

- **Admin Web Site** – Inventory Validation Steps Maintenance – Created this screen as part of the inventory validation logic inside the Assist inventory module. These steps represent all of the validation steps that are part of the SOP for validating an inventory item at receiving. These steps can be associated with individual inventory items as needed to show the "test plan" for validation.

- **Admin Web Site** – Inventory Validation Assignment – Create this screen as part of the inventory validation logic inside the Assist inventory module. These assignments are the assignment of validation steps to individual inventory items.

- **Admin Web Site** – Inventory Validation Template Maintenance – Created this screen to allow for the maintenance of validation templates. For inventory control purposes, some items must be tested and validated before they can be issued to production. This screen allows for the creation of templates of validation steps that can be applied to inventory items.

- **Admin Web Site** – Inventory Validation Template Details Maintenance – Created this screen to allow for the maintenance of the detail steps associated with an inventory validation template.

- **Admin Web Site** – Test Kit Results Maintenance – Created this screen to allow for the maintenance of the results of test kits. For facilities that

perform resulting from test kits (ex. infectious diseases) this allows for the possible results (e.g. Positive, Negative, Inconclusive, etc.).

- **Admin Web Site** – Welcome Board Transactions Maintenance – Created this screen to allow for maintenance of welcome board transactions. These would be when guests log in and out of the Assist welcome module that is used inside the lobby area of facilities.

- **Admin Web Site** – Welcome Board Transactions Report – Created this report to allow for the display of welcome board transactions that are logged by the Assist Welcome module.

- **Welcome Module** – In/Out Board – Added a timed check of the in/out board database table. This allows the Assist IN/OUT board to automatically reflect transactions if they did not happen inside the board module itself.

- **Admin Web Site** – Truck Tracking Report –Created this report to provide detailed tracking over the truck tracking data that is collected via the Assist truck tracking module for sites that make sure of this feature.

- **Admin Web Site** – Test Kit Tracking Report – Created this report to provide a detailed view of the data captured via the test kit tracking module of Assist.

- **Admin Web Site** – Test Kit Tracking Summary – Created this report to provide a summarized view of the data captured via the test kit tracking module of Assist.

- **Admin Web Site** – Client Maintenance – Test Kit Flag – Added a check box to the client maintenance screen to allow for the marking of a client as a test kit client. This provides the ability to filter client lists to only include clients that are relevant to the test kit tracking module and reduce visual clutter.

- **Admin Web Site** – Specimen Type Maintenance – Test Kit Flag – Added a check box to the specimen type maintenance screen to allow for the marking of a specimen type as a test kit specimen. This provides the ability to filter specimen type lists to only include specimens that are relevant to the test kit tracking module and reduce visual clutter.

- **Admin Web Site** – Inventory Lot Status – Production Allowed, Returned, and Destroyed Flags. Added these three flags to the inventory lot status screen. This provides additional flags to indicate the dispensation and status of lot issues. These are used when a lot fails validation and is marked as a status other than "ready for production".

- **Admin Web Site** – Test Kit Template Maintenance – Created this screen to allow for the maintenance of test kit templates. These are used to hold the definition of a test kit and are used in the Assist sample testing (test kits screen).

- **Admin Web Site** – Accession Prefix Maintenance – Modified this screen to include a flag for Test Kits to mark a prefix as one that can be used for test kits for filtering purposes in the Assist test kit tracking modules.

- **Admin Web Site** – Test Kit Template Details – Created this screen to allow for the maintenance of the test kit details records. These are the detailed components that make up a testing template and are used in the Assist sample testing module.

- **Admin Web Site** – Test Tracking Status Maintenance – Created this screen to allow for the assignment of a status value from a long-term standpoint to a test kit tracking record. This would reflect the ultimate diagnosis from a patient standpoint with a test kit tracking transaction. Examples would be things like: Recovered, Fatal, etc.

- **Admin Web Site** - Test Kit Tracking Report – added patient age and gender to this report.

- **Test Kit Tracking Module** – Created this new screen/data capture routine as part of the Assist sample tracking module. It can branch to this screen instead of the standard sample testing module. This screen provides data collection for test kits (ex. Epidemiology kits), patient demographics, etc. for dealing with inbound infectious disease test kits.

- **Admin Web Site** - LIS Patient Verification Report – Created this report to provide visibility to the LIS Patient Verification data that can be loaded via interface and is required for client/patient verification.

- **Admin Web Site** – Client Maintenance – Full Quality Check flag – Added this flag to the client master to allow for the marking of a client as requiring a full quality check. When specimens are encountered that belong to a client with this flag set, additional quality logic can be imposed in some of the Assist modules.

- **Admin Web Site** – Storage Unit Type Maintenance – Created this screen to provide for the ability to maintain storage unit types as part of the Assist recipe tracking module. These represent to types of storage units. For example a case of bottles, a keg, a barrel.

- **Admin Web Site** – Storage Unit Maintenance – Created this screen to provide for the ability to maintained storage units. Storage units are the containers used to contain a recipe batch (ex. Cases, Bottles, Kegs).

- **Admin Web Site** – Storage Status Maintenance – Created this screen to allow for the maintenance of storage status values. This is part of the Assist recipe tracking module and would include status values such as: In Use, Empty, etc. Any value that might be used to indicate the status of a batch inside a storage unit.

- **Admin Web Site** – Reading Type Maintenance – Created this screen to allow for the maintenance of reading types. Reading types are things such as Temperature, Specific Gravity, etc. It is part of the recipe tracking module of Assist.

- **Admin Web Site** – Ingredient Type Maintenance – Created this screen to allow for the maintenance of ingredient types. These are used in the Assist recipe tracking module and represent groupings of ingredients (ex. Hops, Grain, Reagent, etc.).

- **Admin Web Site** – Inventory Category Maintenance – Recipe Category Flag – Added a recipe category flag to the inventory category table. It allows for inventory categories to be marked as recipe categories to filter inventory types and inventory items in the recipe tracking module of Assist.

- **Admin Web Site** – Ingredient Maintenance – Created this screen to allow for the maintenance of ingredients. These are the items that are used in the manufacture of recipes inside the Assist recipe tracking module. They

tie directly to inventory items if purchasing and/or inventory control are being utilized.

- **Admin Web Site** – Security Maintenance – Allow Inventory Validation Flag – Added this flag to the security maintenance screen to allow for the specification of which employees have the right to perform inventory verification/validation for sites that are using the inventory control module.

- **Admin Web Site** – Inventory Validation Step Status Maintenance – Created this screen to allow for the maintenance of inventory validation step status values. These values are using in the inventory control validation process and indicate the status of individual inventory steps.

Second Quarter 2020

April 2020

- **Sample Testing Module** – Test Kit Tracking – Added the underlying condition flag to this screen to allow for the capture of this information.

- **Admin Web Site** – Test Kit Tracking Report – Added the underlying condition flag to the report.

- **Admin Web Site** – Inventory Validation Status Maintenance – Modified this screen to include status flags of Approved and Rejected to be used as part of the process of turning a failed validation into a lot control issue. Also added a flag for Generate Lot Issue for the automated generation of a lot issue.

- **Inventory Module** – Validations/Issues – Added a full functionality tab to the inventory module to handle inventory validations. This process is used when an inventory item is flagged as requiring employee validation to ensure tolerances and/or quality checks before the production can be introduced into the facility. This process allows for an authorized employee to either approve or reject/quarantine an inventory item. If a rejection is performed, a lot issue can be automatically generated to allow for the tracking of the final dispensation of the rejected lot.

- **Admin Web Site** – Equipment Type Maintenance – Test Kit Equipment – Modified the equipment type maintenance screen to allow for an equipment type to be marked as a test kit type of equipment for filtering purposes in the different Assist modules.

- **Admin Web Site** – Test Kit Result Maintenance – No Result Flag – Added a flag to this maintenance screen to allow for representation of a result that is not positive, negative, or inconclusive. This value would indicate that no result exists because testing has not been performed.

- **Admin Web Site** – Test Run Status Maintenance – Created this screen to allow for the maintenance of test run status values. These are part of the test runs that can be created via Assist Test Kit tracking and reflect the status of a equipment processer run of test kit specimens.

- **Admin Web Site** – Test Protocol Maintenance- Created this screen to allow for the maintenance of test protocol values. These are the protocols or tests that are defined to run test kits through (ex. Covid19, SARS, etc.).

- **Admin Web Site** – Test Kit Results Summary – Modified this report to add underlying condition to the report and make it an include/suppress choice.

- **Admin Web Site** – Test Processing Run Report – Created this report to provide visibility to test kit processing runs. This is part of the sample testing module of Assist where test kits are tracked. This report shows a summary of the various processing equipment with a detail count of the kits processed by date.

- **Admin Web Site** – Test Processing Run Detail Report – Created this report to provide visibility to the detailed data associated with the tracking of test kits processed via the Assist sample testing module. This report shows the details of the serial number, accession number, results, etc. of the test kits that were processed by equipment.

- **Admin Web Site** – Test Processing Run Summary Report – Created this report to provide visibility to a summarized view by date of the test kits that were processed by the various testing equipment as part of the Assist sample testing module.

- **Admin Web Site** – Inventory Lot Issue Report – Created this report to provide visibility to inventory lot issues. This is part of the Assist Inventory module. Inventory items can be marked to indicate that they require validation. If a product fails validation, the lot number that fails is logged as an inventory lot issue. This report displays the inventory lot issues.

- **Admin Web Site** – Inventory Lot Issue Audit Log – Created this report to provide visibility to the historical transactions associated with an inventory lot issue. Any changes to an inventory lot issue transaction are tracked and reported here.

- **Admin Web Site** – Inventory Validation Report – Created this report to provide visibility to the inventory validations that are performed inside the Assist inventory module. If a product is marked as requiring validation, this report shows the validation steps that were performed and by which employee during the process of declaring the product as valid for use in the facility.

- **Admin Web Site** – Visitor Tracking Report – Created this report to provide visibility to the information captured by the Assist Welcome module which is used to record visitors to a facility.

- **Admin Web Sit**e – Visitor Tracking Maintenance – Created this maintenance screen to provide employees with the ability to close out visitor transactions where a visitor neglected to put in a departure date when they left the facility.

- **Admin Web Site** – Welcome Board Greeting Maintenance – Created this maintenance screen to allow for the customization of the header and greeting information that can be displayed on the greeting board that is part of the Assist Welcome module to be used in reception areas.

- **Admin Web Site** – Appointment Type Maintenance – Modified this screen to include flags to indicate an appointment type as business, sales, or medical.

- **Admin Web Site** – Welcome Board Type Maintenance – Added flags to distinguish a board type of appointment and access control.

- **Access Identification Type Maintenance** – Created this screen to allow for the maintenance of the types of access identification types that could be used for granting access to a facility when the Assist Welcome module is in use. Examples would be: Assist Badge, Drivers License, Key Card, etc.

- **Admin Web Site** – Employee Access Issue Maintenance - Created this screen to allow for the maintenance of the access issues that could result in an employee being denied access to a facility location. These could be items such as: Restraining orders, immunization proof, etc.

- **Admin Web Site** – Facility Location Maintenance – Access Control Location Flag – Added this check box to the screen to allow for a facility location to have a designation as to whether or not access control would apply.

- **Admin Web Site** – Employee Key Card Maintenance – Created this screen to allow for the maintenance of employee key cards. These are the various key cards that are associated or assigned to employees for use in the Assist Welcome – Access Control module.

- **Admin Web Site** – Employee Access Issue Report – Create this screen to allow for the reporting of employee access issue information. This is the area where employee access "blocks" are recorded providing the reasons for why an employee might be denied access to a facility location.

- **Admin Web Site** – Employee Access Issue Audit Log – Created this report to provide historical/transactional views of the employee access issue maintenance transactions.

- **Admin Web Site** – Employee Access Log Report – Created this report to provide visibility of the access transactions via the Assist access control screen into a facility. Successful access transactions as well as denied requests are shown.

- **Admin Web Site** – Appointment Reason Maintenance – Created this screen to allow for the maintenance of the reasons for scheduled an appointment at a facility location. This is part of the Assist Welcome module inside the appointment greeting screen.

- **Admin Web Site** – Facility Location Maintenance – Added flags to mark a facility location as "No Visitors" and "Requires Escort" as enhancements to the access control module of Assist. These values allow the access control module to respond appropriately.

- **Admin Web Site** – Inventory Master Maintenance – Added the inventory code to the display grid. Also added the code as selection criteria and provided a check box to allow for the code to be displayed or hidden.

- **Admin Web Site** – Inventory Detail Maintenance – Modified this screen to provide a check box to display or suppress the inventory code.

- **Admin Web Site** – Notification Schedule Maintenance – Modified this screen to correct an issue where to from and to times were mapped to each other on updates. Corrected this bug.

- **Admin Web Site** – Unit of Measure Maintenance – Added IssueQuantity and ReceiveQuantity to this maintenance screen to indicate the quantity typically received for the unit of measure into inventory and the quantity typically issued.

- **Admin Web Site** – Inventory Master Listing – Created this report to provide for the ability to list the product master within criteria to have a full system inventory of items that have been created.

- **Inventory Module** – Added the ability to print inventory labels from the release/issue screen so that labels can be generated as items are handed out, not just when received.

- **Inventory Module** – Unit of measure/Quantity Changes – Provided the ability to pull the quantity of "packs" from the unit of measure and multiple out a quantity of a unit of measure and turn into a quantity for issuing automatically rather than the employee having to do math.

- **Inventory Module** – Costing – Added a total cost (P/O Receiving cost) that can be divided by the actual per unit count to turn into a unit cost so that cost accounting can be performed effectively based on the tracking of the components through the facility.

- **Inventory Module** – Inventory Transaction Inquiry – Provided the ability to suppress multiple fields on the inquiry based on the configuration for sites that do not use some fields.

- **Inventory Module** – Options Button – Provided an options button at the top of the screen to give employees the ability to disable multiple fields to not allow entry if the fields are not used. They can be defaulted by configuration, with this option giving the ability to open up or close down the fields as needed.

- **Universal Module** – Modified the control tab to handle Leica slide magazines differently. The logic was off on switching magazines when direct printing to a Leica. The print transaction was always coming from Magazine 1. Corrected this.

- **Admin Web Site** – Plate Transfer Method Maintenance – Created this screen to allow for the maintenance of plate transfer methods. Transfer methods represent the methodology used by "pipetting" types of equipment to transfer specimens from one specimen plate to another (ex. 96 well straight map, 96 well – 384 well map).

- **Admin Web Site** – Test Plate Type Maintenance – Created this screen to allow for the maintenance of plate type as part of the Assist test kit/sample module. Plate types are the types of specimen plates with well counts that can exist in the facility (ex. Deepwell 96, Extraction 96, etc.).

- **Admin Web Site** – Test Plate Transfer Rules Maintenance – Created this screen to allow for the maintenance of the transfer rules with plates inside the Assist test kit/sample module. These rules allow for the indication of which plates can be specified as transfer targets for another plate.

- **Admin Web Site** – Test Plate Status Maintenance – Created this screen to allow for the specification of the status of test plates as they pass through a facility in the test kit module of Assist.

- **Admin Web Site** – Plate Processing Status Maintenance – Created this screen to allow for the specification of the processing status of a plate through equipment (ex. Open, Processing, Completed, etc.) so that a plate can be tracked through processing.

- **Admin Web Site** – Inventory Storage Location Maintenance – Created this screen to allow for the maintenance of inventory storage locations. These are physical places (ex. Bins, closets, rooms, etc.) to which inventory items could be issued instead of tracking directly to an employee.

- **Admin Web Site** - Test Plate Interface Status Maintenance – Created this screen to allow for the maintenance of test plate interface status values. These status values are used for sites that have an interface for test plates and equipment and can indicate whether or not an interface batch has been processed/loaded (ex. Open, Pending, Completed).

- **Welcome Module** – Access Control Feature – Added an expansive feature to the Assist Welcome module to handle access control. The module can be used to allow for the scanning of credentials at an access door and credentials can be validated to ensure that the employee is allowed inside a facility and keep track of the employees and/or visitors (assuming they are allowed) that passed through an access door. If an interface is in place, this can be used to work with existing system badge/access door technology.

May 2020

- **Inventory Module** – Added the ability for inventory issue transactions to be sent to a facility location and inventory storage location inside of a facility location to support the concept of issue inventory items to other locations instead of employees (ex. Bins and/or Kanban support).

- **Inventory Module** – Modified the label tab process so that any manually printed inventory label transactions get written to the tracking table for visibility of what labels have been printed, when, and by whom.

- **Facility Location Maintenance** – Modified this screen to include filters for selecting only product locations and equipment locations to make for each of entry of information and to reduce confusion.

- **Inventory Module** – Inventory Transaction Inquiry – Modified the inventory inquiry for transactions to include the facility location and storage location.

- **Admin Web Site** – Inventory Tracking Number Report – Modified to include the lot number, inventory code and quantity that were printed on the label when it was printed.

- **Admin Web Site** – Inventory Transactions Report – Created this report to provide visibility to all of the inventory transactions that have been performed in the inventory module.

- **Admin Web Site** – Inventory Storage Location Report – Created this report to provide visibility to the inventory storage locations that exist in the organization. It can be used to see the structure that has been created and can also be used to list all inventory items and quantities across the enterprise.

- **Admin Web Site** – Inventory Quantity On Hand Report – Created this report to provide improved visibility of the inventory quantity on hand across products and storage locations.

- **Admin Web Site** – Plate Transfer Maintenance – When test plates are transferred from one plate to another, a plate transfer transaction is created in Assist to show the plate chain of custody of the specimens. This maintenance screen allows for changes to be made to the automated transactions that were created inside the sample testing module if necessary.

- **Admin Web Site** – Test Plate Type Maintenance – Added HumanReadableStarts field to this table so that the changing of the test plate type inside the module can adjust the starting bar code values "on the fly" to create more flexibility.

- **Admin Web Site** – Plate Processing Protocol Maintenance – Created this screen to allow for the maintenance of plate processing protocols. These are the protocols that can be assigned to a plate when being submitted to a piece of equipment for processing.

- **Admin Web Site** – Transfer Method Map Maintenance – Created this screen to allow for the maintenance of the transfer method mapping that can be applied by equipment during the processing of test plates. These are part

of the Assist sample testing module. Examples would be 96 well straight map, 96 – 384 Quant mapping, etc.

- **Admin Web Site** – Plate Transfer Report – Created this report to provide visibility to the plate transfers that can be done via the Assist sample tracking module. These transfers are when test plate specimens get moved from one plate to another.

- **Admin Web Site** – Plate Tracking Report – Created this report to provide visibility to the lowest level of data associated with test plate tracking. It displays the specimens that are loaded into each well, the equipment it touched, and the results.

- **Admin Web Site** – Plate Tracking Summary – Created this report to provide the same visibility as outlined above for the plate tracking report but provides summarized views of information.

- **Admin Web Site** – Plate Location Tracking Report – Created this report to provide visibility to the locations where a plate has been placed or where chain of custody has been transferred. This can be as part of an equipment transfer or a holding action such as placement in a freezer/refrigerator.

- **Admin Web Site** – Plate Equipment Utilization Report – Created this report to provide visibility of the capacity of a piece of test plate processing equipment. It provides total capacity of the equipment compared to the specimen utilization of the plates that passed through the equipment to indicate whether or not equipment is being utilized efficiently.

- **Admin Web Site** – Plate Transfer Rule Type Maintenance – Created this screen to allow for the maintenance of transfer rule types. Transfer rule types can be applied to equipment and plate transfers to establish the ability to have transfer equipment process plate specimens differently based on the rule types.

- **Admin Web Site** – Test Plate Transfer Rules Maintenance – Created this screen to allow for the maintenance of the various types of rules that can be applied to plate transfer transactions. When used with the rules types, it allows for the logical representation of all of the various types of equipment/plate configurations.

- **Admin Web Site** – Plate Maintenance – Created this screen to allow for the maintenance of test plates. This can be used to changed the status of plates or perform high level clean up of plates, but cannot really impact the contents of a plate from a specimen assignment standpoint.

- **Admin Web Site** – Plate Chain of Custody Report – Created this report to provide visibility to the "lifespan" of a plate. It indicates an originating point for the plate and every person and piece of equipment (and temporary storage location) where the plate was touched or processed. This includes showing the plates that a plate turned into over the course of various equipment processing steps.

- **Assist Scanner** – Disposal Bin, Allows generic numbers – The disposal bin transactions previously were required to be loaded in the disposal bin database. This change allows for on the fly numbers to be assigned as disposal bin tracking.

- **Admin Web Site** - Test Plate Interface Maintenance – Created this maintenance screen to allow for the maintenance of the "header" information associated with any test plate interfaces that might exist. These are utilized if a site has a interface between Assist and a plate testing instrument.

- **Admin Web Site** – Test Plate Interface Detail Maintenance – Created this maintenance screen to allow for the maintenance of the detail information associated with test plate interfaces. This detail level information would contain the various specimens that are passed into Assist via an Test Plate Instrument interface.

- **Admin Web Site** – Test Plate Interface Results Report – Created this report to show the results information associated with test place interfaces. This is only relevant for sites that have an interface between Assist and a Test Plate Instrument.

- **Admin Web Site** – Test Kit Results Maintenance – Cross Reference – Added a cross reference so that any data being brought into Assist via a test plate results interface can be mapped to the Assist Test Kit results maintenance.

- **Admin Web Site** – Plate Processing Status Maintenance – Completed Status – Added a "completed" value to be used to allow for a plate to be marked as completed as opposed to closed.

- **Admin Web Site** – Test Plate Tracking Report – Results Description – Added the results description to the test plate tracking report to provide visibility to this information.

- **Inventory Module** – Inventory Release bar code change – Modified the inventory release tab so that the bar code printed on the release label can include the storage location if configured to do so to automatically determine which storage location the data represents.

- **Inventory Module** – Added a data push into the inventory storage location transactions table to show the various transactional level data going into the inventory storage locations to have audit log capability.

- **Admin Web Site** – Inventory Storage Location Assignment – Created this maintenance screen to allow for the indication of an assignment of a storage location to an employee and/or workstation. This is used inside multiple Assist modules to allow for a workstation to be "tethered" to an inventory storage location. This is valuable when tracking inventory usage when the inventory storage location is not inside the inventory item bar code.

- **Manufacturing Module** – Inventory Storage Location Logic and Defaults – Modified the Assist manufacturing module to understand inventory storage location assignments and also storage locations included in the bar code so that inventory can be consumed appropriately systemically.

- **Admin Web Site** – Inventory Storage Replenishment Levels – Created this screen to allow for the maintenance of inventory storage replenishment levels. Replenishment levels are different from reorder points from an inventory storage standpoint. Reorder transactions involve order more product from the outside, whereas replenishment involves refilling a storage location (ex. Kanban).

- **Admin Web Site** – Inventory Storage Location Transactions – Created this report to show the various inventory transactions involving storage

locations. These include replenishment transactions as well as inventory usage during processing. It provides visibility and an audit trail of inventory items coming into and out of a storage location.

- **Admin Web Site** – Plate Next Transfer Report – Created this report to provide a single plate transfer transaction. While it can show specifically what the next plate was for a plate, it is more useful for identifying what plates NEVER got transferred into another plate.

- **Admin Web Site** – Plate Results Summary Report – Created this report to provide plate result summary information. This allows for the reporting of counts of results by equipment, plate, date, etc.

June 2020

- **Admin Web Site – Vendor Maintenance** – Added a wildcard name search to allow for simplicity in retrieving vendors by providing a name filter. Also added a vendor abbreviation field. The screen field for name was stopping at 30 characters even through the database held 60, so expanded this.

- **Admin Web Site – Inventory Master Maintenance** – Default Manufacturer and Vendor – Added these two values to the inventory maintenance screen so that a default for each can be specified.

- **Inventory Module** – Modified the Receiving tab to load the manufacturer and vendor from the default if they exist.

- **Distribution Module** – The routine that looks up the doctor overrides for the distribution location was not using the correct index over the LIS Interface table and also was not factoring in the active flag when performing the retrieve.

- **Inventory Module – Label Print** – Modified the label print routine to allow for the inclusion of a label header on the labels.

- **Inventory Module – Maintenance tab** – Modified the maintained tab to include the default vendor and manufacturer.

- **Admin Web Site – Inventory Accession Tracking Report** – Added Inventory Code to the selection criteria and also placed into the detailed grid of result data.

- **Inventory Module – Physical Inventory Tab** – Added a tab to the inventory module to allow for the capture of inventory adjustments associated with cycle counting or physical inventory types of transactions. Added functionality to perform these transactions at the inventory warehouse and storage location levels.

- **Accessioning – Flip Code for Delimiters** – Added the ability for the accessioning module to work with delimiter values for auto flipping between number wheel symbology.

- **Admin Web Site – Lab WorkFlow Times Report** – Reorganized this report to be more visually appealing in the lineup of the criteria on the screen.

- **Admin Web Site – Employee Scan Log** – Modified this report to include the collection points as a drop-down choice along with the collection point groups. Previously the collection grouping and reporting groups were the only choices.

- **Admin Web Site – Case Hold Reason Maintenance** – Modified the case hold reason to provide several fields that allow for the emailing of case hold information. A notification type was added along with minutes. The minutes can be used to email any holds that have been in place for the number of minutes. Also added an auto clear check box to allow for a case hold to be automatically deleted by the interface utility if necessary.

- **Interface Utility – Case Hold Auto Clear-** Added a routine inside the interface utility (robot) to check for the auto clear setting and delete case holds if they are assigned to a reason that has an auto clear when the robot job runs.

- **Admin Web Site – Inventory Transaction Report** – Modified this report to include the inventory department to reflect the times that an inventory issuance is done to a department rather than an employee.

- **Inventory Module** – Allowed for an inventory department to be selected for the issue of inventory items instead of just an employee.

- **Admin Web Site – Unit Of Measure Maintenance** – Added Stock Quantity to the screen to allow for difference between receiving quantity, issue quantity, and stocking quantity inside the inventory module.

- **Inventory Module** – The refresh button was not refreshing/reloading all of the drop-down lists on the screen. Corrected this so that all lists were reloaded.

- **Universal Module – Auto Flip** – Modified the auto flipping logic to allow for the successful auto flip between bar code formats that have delimiters in them and bar codes that start with object identifiers.

- **Admin Web Site – Inventory Quantity On Hand Report** – Modified this report to include warehouse locations with indented storage locations for quantity on hand. Added criteria for the warehouse locations. Added criteria for inventory categories, types, and items. Also added criteria for the lot numbers.

- **Admin Web Site – Inventory Master Maintenance** – Reorder Unit Of Measure – Added the ability to maintain a separate reorder unit of measure. This field will be used by the reorder agent that is part of the Assist inventory module.

- **Inventory Module – Maintenance Tab** – Added the reorder unit of measure. This provides the ability to specify a different unit of measure to be used by the reorder agent when making automatic reorders.

- **Inventory Module – Reorder Tab** – Modified this tab to include the reorder unit of measure to allow for a different unit of measure of a product to be specified by the ordering agent.

- **Admin Web Site – Inventory Reorder Report** – Unit of Measure – Added the new reorder unit of measure to this report to provide visibility.

- **Inventory Module – Reorder Tab** – Modified the inventory master drop down boxes to filter to display only products that have automatic ordering

enabled. Including all products is pointless because they are included in the reorders anyway.

- **Interface Utility – Inventory Reorder** – Created the inventory reorder interface robot. This job can be loaded to run in an automated fashion and generate inventory orders based on reorder points.

- **Manufacturing Module – Training Notes** – Modified the display of the products assigned to a manufacturing order. Allowed for the display of training notes in an abbreviated form. Provided a button to generate a pop-up box that shows all of the notes if necessary.

- **Admin Web Site – Checklist Tracking Report** – Rearranged the selection criteria to make the screen more visually appealing. Also added the machine name as a selection criteria choice.

- **Inventory Module – Inventory Orders Tab –** The order quantity was not allowing quantity values over 100. This was stopping changes from being made (like changing status) on these orders.

- **Inventory Module – Inventory Inquiry Tab** – On the available stock view, removed entries from the grid when they are zero.

- **Admin Web Site – Inventory Maintenance** – Added the ingredient and manufacturing flags to allow for the introduction to manufacturing orders and the tie in of "recipes" to inventory control.

Third Quarter 2020

July 2020

- **HL7 Interface** – Modified the routine so that the cassette identifier could be pulled from the OBR 20.2 segment if needed rather than the SAC segment by sending application.

- **Inventory Module** – Provided for the ability to scan inventory labels where the tracking number is in the bar code instead of the inventory number itself.

- **Admin Web Site – MFG Order Status Maintenance** – Created this screen to allow for the maintenance of manufacturing order status values which are used in the manufacturing order section of the inventory module.

- **Admin Web Site – MFG Order Type Maintenance** – Created this screen to allow for the maintenance of manufacturing order type values. These are used in the manufacturing order section of the inventory module.

- **Admin Web Site – Call Reason Summary Report** – Modified this report to allow for the include/exclude of the client in the summary data. This is part of the Assist Customer Service/Call Tracking module.

- **Print Center – Disposal Bin Labels** – Modified this label print screen to provide for the ability to specify duplicates in case more than one of each label is needed. Also introduced print templates so that the X/Y coordinates, font information, etc. is exposed to the Assist administrator(s).

- **Admin Web Site - MFG Order Transactions Report** – Created this report to provide visibility to the various transactional changes that have been made to a manufacturing order.

- **Admin Web Site – Inventory Transactions Report** – Fixed an issue with this report that was causing the selection criteria to not work correctly.

- **Admin Web Site – MFG Order Report** – Created this report to provide visibility to the manufacturing orders that have been created as part of the manufacturing orders feature set inside the inventory module.

- **Admin Web Site – Object Storage Report** – Modified this report, which is part of the warehouse or banking module of Assist. Cleaned up the selection criteria to make more visually appealing. Added the "bin number" and "storage cabinet" to the data details and added the bin to the criteria.

- **Inventory Module – Maintenance Tab** – Modified the maintenance to enforce that an inventory type must be specified.

- **Admin Web Site – Inventory Master Maintenance** – Modified this screen to enforce that an inventory type must be specified.

- **Admin Web Site – MFG Order Employee Maintenance** – Created this screen to allow for the maintenance of manufacturing order employees. When manufacturing orders are being tracked inside Assist, there can be a scenario where only certain employees are authorized to create specific order types. This screen allows for the filter of which employees are authorized to "fill" manufacturing orders and can go all the way down to the order type level.

- **Admin Web Site – Object Type Maintenance** – Modified the object type maintenance screen. A capacity value has been added to allow for the ability of specific types of objects (Bins, carrying cases) to be limited based on the capacity of "child" objects they can hold.

- **Scanner Engine – Disposal Bin Capacity** – Added the ability inside the main scanner engine to keep track of the capacity of "carrying" objects or bins. An example of this functionality would be the tracking of the vials of infectious disease that are stored in trash bins where there is a finite amount of room inside the bin.

August 2020

- **Admin Web Site – Order Type Migration** – Created this screen to allow for the migration of one order type to another. Sometimes, duplicate order types might get created for doctor add on orders and specimens are getting entered against both of them. This screen allows for the migration of all orders to another order type so that one of the types can be subsequently cleaned up (e.g. deleted).

- **Admin Web Site – Recipe Maintenance – Finished Goods Inventory** – Modified the recipe maintenance screen to allow for the specification of a finished goods inventory item to be associated with the recipe. This is the inventory item that will be stocked into inventory when the recipe is made and is only relevant if Assist is being used to track recipes (ex. Reagents).

- **Admin Web Site – Recipe Steps Maintenance** – Created this screen to allow for the maintenance of recipe steps. These are the steps that are used in the creation of manufacturing order recipes.

- **Print Center – Accession Bin Labels – Print Templates** – Added the print template drop down to the accession bin labels screen so that template labels can be changed as needed by the lab.

- **Admin Web Site – Warehouse Bin Report** – Created this report for sites that are storing scanned bins in the Assist warehouse. This report provides visibility to what accession objects are stored in which storage bins inside the warehouse.

- **Print Center – Disposal Bin Printing** – Modified this routine to resolve an issue where the description and the bin number were not printing correctly when auto number was being used.

- **Accessioning Module** – Modified the chemical assignment routine to not write a chemical assignment unless a valid chemical value is selected and an assignment type is defaulted.

- **Accessioning Module – Accession Batch modifications –** Modified the accessioning module to allow for the tracking of accession batches. This involves scanning the "bin" that accession numbers go into to create a batch. The batch can be displayed as it is built and the accessions can be tracked.

- **Admin Web Site – Recipe Batch Maintenance** – Created this screen to allow for the maintenance of recipe batches.

- **Interface Utility – Accession Alias Fix** – Created this utility to help with the LIS interface process inside Assist. This utility looks for any entries where an accession alias prefix was provided without an accession number (which would typically be an error) and clears the erroneous data if found.

- **Admin Web Site – Test Kit Results Interface Report** – Modified this interface report to include the display of the reporting employee.

- **Accessioning Module** – Modified the LIS Interface pop up screen. Enforced a rule that if an alias prefix is specified, then an alias accession number must be specified to cut down on unintentional data entry.

- **Admin Web Site – Test Kit Results Maintenance** – Minimum Storage Days – Added the minimum storage days to this maintenance screen to allow for the specification of how long to keep specimens based on the results.

- **Object Storage – Storage Tracking** – Added the cabinet to the transaction grid to provide more information visually.

- **Scanner Engine – Disposal Bin Duplicates** – Added a feature to allow for a disposal bin scan to be ignored if is a duplicate of a bottle that is already contained in a disposal bin. This is needed with capacity tracking for disposal bins turned on. An accidental double scan of a specimen container can cause false capacity.

- **Admin Web Site – Scanned Batch Detail Report** – Modified this report to support the reporting over the accession bin information including the deleted values.

- **Admin Web Site – Recipe Step Ingredients Maintenance** – Create this screen to allow for the maintenance of recipe step ingredients records. These are used to keep track of what sub-component inventory items are used in the creation of recipes.

- **Admin Web Site – Ingredient Maintenance – Show Product Code Choice** – Added this checkbox to the ingredient maintenance screen to allow for the display (or not) of the inventory code in front of the inventory description to accommodate sites that use inventory codes with their inventory database entries.

- **Admin Web Site – Recipe Batch Component Maintenance** – Created this screen to allow for the maintenance of recipe batch components. These are the details of recipe batches and represent the specific instance of the ingredients assigned to a recipe batch.

- **Admin Web Site – Equipment Issue Severity Maintenance** – Created this screen to allow for the maintenance of equipment issue severity records. Equipment issues represent the severities associated with equipment issues such as printers jamming, etc. This is part of the preventative maintenance/equipment tracking section of Assist.

- **Admin Web Site – Equipment Issue Maintenance** – Created this screen to allow for the maintenance of equipment issues. Equipment issues represent instances of problems that can occur with equipment such as "Printer Jammed".

- **Admin Web Site – Equipment Issue Status Maintenance** – Created this screen to allow for the maintenance of equipment issue status. These records allow for the association of "Open, Pending, Closed" values with equipment issues.

- **Interface Utility – Test Kit Results Interface** – Created this utility to allow for the interface between Assist and testing machinery. This particular interface is used to pull back Covid results from Hamilton RNA machines to allow the infectious disease Assist specimen warehouse to have visibility to the length of time a specimen should be retained.

- **Admin Web Site – Ingredient Maintenance –** Stretched this screen out visually to improve the appearance and added a description search to the criteria.

- **Admin Web Site – Recipe Step Ingredients Maintenance** – Stretched this screen out visually to improve the appearance. Added a check box to allow for the "recipe code" to be displayed in the front of the recipe description for sites that use codes.

- **Admin Web Site – Recipe Maintenance** – Added a check box to allow for the display of the inventory code in the finished goods inventory drop down listing for sites that use codes on their products.

- **Admin Web Site – MFG Lot Control Maintenance –** Created this screen to allow for the maintenance of MFG lots. This is used to set the sequential order that lot numbers will be used when handling manufacturing orders.

- **Admin Web Site – Specimen Category Maintenance** – Created this screen to allow for the maintenance of specimen categories. This provides the ability to stratify specimen types for filtering on screens and for reporting purposes.

- **Admin Web Site – Specimen Type Maintenance** – added a drop down for the specimen category so that specimen types can be broken up into categories for reporting purposes.

- **Admin Web Site – Specimen Type Maintenance** – Suppress Cassette Print Flag – Added this maintenance choice to allow for cassette printing to be suppressed by the universal cassette queue for specific specimen types.

- **Universal – Cassette POU – Molecular Extra Default Option** – Provided a check box to allow for the automatic retrieval of a default "extra" notation to the screen for sites that make use of molecular processing with the extra notation.

- **Universal Module – Cassette POU – Specimen Type Suppress Cassette Print** – Provided the ability to have cassette printing suppressed inside the module based on the specimen type. This allows for specimens to be "grossed" at a standard station that might not need cassette printed in a specific workflow for that type of specimen.

- **Universal Module – Slide POU – Truncate after logic** – Added logic to allow for extraneous data to be ignored in a slide bar code after encountering a specific character value that is specified in the configuration.

September 2020

- **Universal – Cassette POU – Void Button** – Added a void button to the cassette POU screen to allow for a technician to indicate that a cassette that was printed did not actually have tissue inserted.

- **Admin Web Site – Equipment Issue Tracking Report** – Created this report to allow for the reporting over equipment issues. Equipment issues allow for the capture of equipment related "annoyances" than are not technical break/fix or preventative maintenance issues, but are things that need to be addressed. An example would be the jamming of a slide/cassette printer that needs to be tracked for vendor feedback purposes.

- **Admin Web Site – Client Configuration Type Maintenance** – Modified this screen to allow for the addition of a "notes" field to explain fully what the configuration type represents from a business perspective. Added the notes

to the selection criteria along with the ability to search by configuration number. Also added the ability to sort the listing by configuration number rather than sort order to assist in finding the right data.

- **Admin Web Site – Specimen Category Report** – Created this report to provide visibility to the specimen category metrics associated with histology. Counts of processed categories are provided.

- **Admin Web Site – Employee Scan Time Report** – Modified this report to show the Accessions, Requisitions, Bottles, Cassettes, and Slides that were processed by the employees for the time buckets captured in Assist by the login/logout transactions.

- **Admin Web Site – Recipe Type Maintenance** – Requires Validation – Added this field to the recipe type maintenance screen. This will be used to allow for a recipe type to be marked as whether or not it requires validation before it can be used in production.

- **Admin Web Site – Recipe Batch Validation Status Maintenance** – Created this screen to allow for the maintenance of recipe batch validation status values. These are used for keeping track of whether or not recipe batches have been validated.

- **Admin Web Site – Quality Control Reporting** – Show Time – Added a check box to the screen to allow for the display of the date AND time of the QC note.

- **Admin Web Site – Recipe Batch Maintenance** – Modified this screen to allow for the entry of validation user, date, and status. This information will typically be captured in Assist client software but this modification provides the ability to override and/or view as needed.

- **Print Center – FDA Class 1 Label** – Created a screen to allow for the creation and printing of FDA Class 1 labels.

- **Admin Web Site – Error Message Maintenance** – Added an "Active Only" choice to the selection criteria to allow for filtering out of inactive error messages.

- **Universal Cassette – Void Functionality** – When a cassette was voided, it was left in the list of cassettes unchecked. This meant that moving to the next case would alert the user to a missed object. Modified so that a void transaction checks off the cassette to eliminate this behavior.

- **Admin Web Site – Office Queue Suppress Prefix** – Created this maintenance screen for sites that use the office queue to allow for specific accession prefix wildcards to be suppressed from transactions.

- **Main Scanner Engine** – Modified the main scanner application to write the configuration number that is active to the transaction log to be provide troubleshooting to how transactions were created.

- **Universal Module** – Modified this module to write the configuration number that is active to the transaction log to be provide troubleshooting to how transactions were created.

- **Accessioning Module** – Modified this module to write the configuration number that is active to the transaction log to be provide troubleshooting to how transactions were created.

- **Distribution Module** – Modified this module to write the configuration number that is active to the distribution log to be provide troubleshooting to how transactions were created.

- **Warehouse Module** – Modified this module to write the configuration number that is active to the transaction log, warehouse log, and distribution log to be provide troubleshooting to how transactions were created.

- **Check In Module** – Modified this module to write the configuration number that is active to the equipment tracking log to be provide troubleshooting to how transactions were created.

- **Inventory Module – Manufacturing Work Order Printing** – Added the ability to print work orders to the manufacturing work order section of the inventory module. This provides the ability to have printed tracking orders for the creation of sub assembly orders.

- **Accessioning Module – Shipment Tracking** – Active Flag – Modified the accessioning module to de-activate any shipment tracking records that might be active on a subsequent transaction via the accessioning module. A fresh record will be created if necessary.

- **Admin Web Site – Shipment Tracking Detail Report** – Added the active only flag to the criteria in this report for the new active flag added to the shipment tracking table.

- **Admin Web Site – Shipment Tracking Summary Report** - Added the active only flag to the criteria in this report for the new active flag added to the shipment tracking table.

- **Admin Web Site – Grossing Notes Office Queue Report** – Created this report to allow for analysis of grossing notes creation compared to the creation of office queue assignments. In some labs, grossing notes are created and closed out by the grosser. The screen offers the ability to send the notes to transcription via the office queue. This report shows the number of times the grossing notes are closed by the grosser vs. a different employee (e.g. Transcription).

- **Admin Web Site – Diagnosis Priority Maintenance** – Priority Value – Modified the diagnosis priority maintenance screen to allow for the maintenance of a priority value. This can be used to numerically rank and score diagnosis information associated with the doctor module.

- **Admin Web Site – Equipment Type Maintenance** – Modified this screen to allow for the inclusion of the SlideImaging field to categorize equipment into slide imaging (digitizing) equipment.

- **Admin Web Site – Equipment Maintenance** – Cross Reference – Modified the equipment maintenance screen to include a cross reference field to allow for the marriage of the Assist equipment database and a vendor database to support interfaces.

- **Admin Web Site – Digital Pathology Queue Maintenance** – Created this screen to provide the ability maintain digital pathology queue data. If a digital record gets submitted to the queue and needs to be modified, this screen allows for those transactions.

Fourth Quarter 2020

October 2020

- **Admin Web Site – Object Tracking Report** – Added the ability to show manufacturing tasks via an "opt in" check box on the report. Also added the ability to display the prior facility location that was scanned for the object. Also applied the filter to only show "Product" facility locations to cut down on visual clutter in the drop-down box.

- **Admin Web Site – Security Maintenance** – Allow MFG Orders – Added this setting to the main employee maintenance screen to allow for the indication of which employees are involved in manufacturing orders.

- **Admin Web Site – Digital Pathology Employees** – Created this maintenance screen to allow for the indication of which employees are eligible to be involved in the assignment of cases via Digital Pathology. This supports the ability to subdivide the doctors in a facility to note SOME of them can receive digital cases while others do not.

- **Specimen Complexity Maintenance** – Created this screen to allow for the maintenance of specimen complexity. This allows for a metric value to be associated with a complexity that can be assigned to a case (ex. High, Medium, Low).

- **Specimen Type Maintenance – Specimen Complexity** – Added the complexity value to the specimen type maintenance screen to allow for a "default" of complexity at the specimen level.

- **Admin Web Site – Digital Pathology Queue Report** – Created this report to provide visibility to the digital pathology queue transactions. This shows the accession numbers that have been imaged.

- **Admin Web Site - Employee Scan Log Report** – Group Criteria – This was originally engineered to be the reporting groups instead of collection point groups, but this was confusing, so it was changed back to be collection groups.

- **Admin Web Site – Digital Pathology Queue Audit Log** - Created this report to provide visibility to the digital pathology queue transactions that are

reflected in the audit log for the digital pathology queue. This shows all of the maintenance transactions that have been performed over this screen.

- **Admin Web Site – Specimen Media Type Maintenance** – Created this screen to allow for the maintenance of specimen media types. As a split between digital and glass media types are introduced with digital pathology, this table allows for a break down of the different types of media.

- **Admin Web Site – Employee Scan Log** – Added check boxes to opt in/out of showing the pieces, notes, grossing, embedding, microtomy information columns. This allows for the end user to trade information for processing speed.

- **Main Scanner Engine** – Added the functionality to allow for the capture of equipment issue tracking from inside this module of Assist. This expands the ability to capture equipment failures that would be of an "inconvenience" nature rather than a true maintenance scenario.

- **Universal Module – Cassette Point of Use** – Added the safety acknowledgement functionality to the cassette point of use tab. This had already been done on the slide point of use tab.

- **Admin Web Site – Accession Notes Maintenance** – This screen did not include all of the fields in the database that have been added over time to support changes to the various modules. Updated the screen to include all fields and reorganized the screen to be more appealing visually.

- **Admin Web Site – Doctor Module** – There was an issue with accession notes and the way they were being displayed. Corrected this issue and also added the filter to allow for Doctor Module Alerts to be used as an "only" filter.

- **Admin Web Site – Client Configuration Maintenance** – Facility Location – Added a facility location to the client configuration maintenance screen. This allows for a station to be matched to a facility location to enable the capture of "zone" scans to indicate in what facility a specimen was in while being scanned. This is helpful in tracking physical location of a specimen and is typically used in true manufacturing facilities with multiple locations and/or "hold areas" where WIP might get stored.

- **Manufacturing Module – Client Configuration Facility Location Interaction** – Added the ability for the facility location and "zone tracking" to be written to the database automatically based on the matching of the module, configuration, and computer name.

- **Universal Module – Slide POU – Checklists** – Added the functionality for checklists to the slide point of use. This is used to capture things such as water bath temperature at user login.

- **Universal Module – Cassette POU – Checklists** - Added the functionality for checklists to the cassette point of use. This is used to capture things such as where or not a grossing station was cleaned at login.

- **Universal Module – Grossing Information – Fast Key Tweaks** – Made multiple small changes in the manner that the fast keys work and slightly adjusted the visual display of the grossing information screen to make it more logical.

- **Universal Module – Fast Key Definitions** – Added a button to the grossing information screen to allow for a display of the fast keys (alt key combinations) that Assist listens to and display the details associated with the functions performed by the key combination.

- **Universal Module – Grossing Information** – Added a fast key of ALT-F to position the cursor to the end of the grossing notes and press the space to allow for immediate entry.

- **Admin Web Site – Manufacturing Task Template Maintenance** – Modified to add an "Only All" check box to allow for the display of tasks in the template that are not assigned to a department. Previously, with the department not specified, ALL tasks were displayed, not just the tasks that were not assigned to "All".

- **Quality Module Extra** – Found an issue where an inactive user badge could still log into the application without triggering an error. Corrected this.

- **Quality Module Extra** – Added the capability for performing the writing of object tracking records to display facility location scans when objects are scanned normally.

November 2020

- **Doctor Module – Fast Keys Definition** – Added a button to the doctor module screen to allow for a display of the fast keys (ALT/CTRL key combinations) that Assist listens to and display the details associated with the functions performed by the key combination.

- **Doctor Module** – Up/Down Arrows for moving medical codes up and down in a listing on the diagnosis tab.

- **Sample Testing – Test Plate Disposal Tab** – Added a tab to the test plate screen inside the sample testing module. From this tab, a test plate can be scanned. It reflects all of the accession numbers that have been assigned to the test plate. It then supports the scanning of a disposal bin. Upon clicking the button, the accession numbers in the plate are transferred "into" the disposal bin and are "filed" in the wet tissue warehouse to reflect the vials that went through the auto pipette process as being held for destruction in the specimen storage area.

- **Doctor Module – Accession Notes Tab** – Modified so that the newest accession note is selected in the grid after loading it so that the information is displayed in the detail area without having to click a row to see it to speed up access/visibility to the information.

- **Admin Web Site – Facility Location Maintenance** – Show Record Number Checkbox – Added this to the screen to allow for the display of the facility location number for ease in creating scan sheets to be used in the various modules.

- **Admin Web Site – Report Tab – Feature Finder** – Added the feature finder button to the report tab.

- **Admin Web Site – Material Status Maintenance** – Added the ReturnStatus checkbox to the screen to allow for a status to be marked as a return status.

- **Admin Web Site – Material Submission Status maintenance** – Created this screen to allow for the maintenance of material submission status values which are used to track the status of detailed level submission data.

- **Test Kit Tracking Module (Covid)** – Modified the chain of custody tab so that equipment can be associated with a chain of custody transaction. This accounts for situations where equipment is being used at a location and a "plate" is passing through the equipment and needs to be tracked.

- **Admin Web Site – Test Plate Transfer Report** – Modified this report to handle transfer activities where it is vial/plate and there is no beginning plate. Just changed the original plate to display as N/A in that scenario.

- **Sample Testing Module – Tracking Tab** – Added selection criteria to the tracking tab to allow for submission details to be displayed in a drop-down box for the active package submission and then allow for filtering via the refresh/retrieve button.

- **Sample Testing Module – Inbound/Outbound Tab** – Created this tab to allow for the display of the submission master grid to show the status and over due information on the screen.

- **Admin Web Site – Client Type Maintenance** – Modified this screen to include a check box to allow for the designation of a client type as sample testing or not.

- **Admin Web Site – Client Master Maintenance** – Added the client type to the selection criteria to allow for the filtering of clients.

- **Admin Web Site – Material Submission Type Maintenance** – OverDue Days – Modified this screen to include the overdue days field to allow for defaults to be established at the submission type level for how long a material submission package should be on site before it is returned.

- **Accessioning Module** – Modified to allow for enforcement of the shipment tracking information.

- **Admin Web Site – Shipment Tracking User Volume Report** – Created this report to provide summarized counts of the number of times that shipment tracking data is captured by employee and date.

- **Universal Module – Grossing Information** – Added a hot key to position to the end of the clinical information text area on the press of the Alt-H keyboard combination.

- **Admin Web Site – Plate Transfer Method Maintenance** – Quan Quant Map Flag – Added this flag to provide the ability for a different mapping methodology for sample testing plate mapping. This one supports the mapping of 4 96 well plates to a single 384 well plate.

- **Universal Module – Cassette POU** – The tool tip on the print button was incorrect. This was changed to "Print Cassettes".

- **Admin Web Site – Transfer Method Map Maintenance** – Added the Source Quadrant field to the maintenance screen to allow for the mapping of the method map information.

- **Admin Web Site – Employee Screen Report Listing** – Created this report to provide the ability to audit employees and what reports/screens they have assigned rights to access.

- **Admin Web Site – QA Severity Maintenance – Font Colo**r – Added font color to the maintenance screen to allow for the color coding of severities for enhanced visual display on screens.

December 2020

- **Admin Web Site – Shipment Tracking Exceptions** – Created this report to provide visibility to the number of accession numbers that are missing shipment tracking records.

- **Universal Cassette – Office Queue Review Process** – Some labs use an automated job to create office queue transactions based on Accessioning. As cases are grossed, the office queue transaction can be automatically closed. Added logic so that if the automated robot to create office queue transactions has not run before the case is grossed, to create a placeholder transaction to put an "already closed" office queue transaction into the office queue so that the robot will not create on Open status item retroactively.

- **Admin Web Site – Office Queue Report** – Added the CreatedMachine to this report to provide visibility to what computer generated an office queue transaction.

- **Interface Utility – Accession Office Queue** – Added the CreatedMachine to the utility. Also added logic to add office queue transactions with a status of "closed" if grossing notes already exist when the job runs.

- **Admin Web Site – Office Queue History Report** – Added the CreatedMachine to this report to provide visibility to what computer generated an office queue transaction.

- **Admin Web Site – Client Configuration Listing** – Created this report to provide visibility of the Assist modules and the machines that are activated.

- **Universal Point of Use – Cassette – Specimen Complexity** – Added the ability to show the specimen complexity for the specimen types.

- **Scoreboard – Doctor Order – Order Category Filter** – Added a configuration option to allow for the filtering of the order categories that will be shown by the doctor order scoreboard.

- **Inventory Module – Speed Inventory Request Entry** – Created this screen to provide a speed entry option of capturing inventory requests. This complements the full inventory request process for sites that want to expedite this process for employees that have less training and/or technical proficiency.

- **Admin Web Site – Case Hold Reason Maintenance – TIQ Reason** – Added this checkbox to the screen to allow for case hold reasons to be marked as TIQ reasons for filtering. Also added Case Hold reason codes to the maintenance.

- **Universal Slide POU** – Modified to include a check box for the auto printing of doctor orders.

- **Universal Cassette POU – Patient verification** – Made the screen narrower to better fit monitors. Added logic to allow for the specification of a case hold from this screen with the hold reasons filtered by the TIQ Reason flag. Keydown commands were added to allow for the Function keys 1-10 to look at the reason codes. Alt-V presses the verify button and ALT-H presses the case hold button.

- **Doctor Order Closeout – Add On Only** – Added a checkbox to the selection criteria to allow for filtering based on the add on only flag that has been added to the order master table.

- **Case Finder – Location Identifier** – Added location identifier to the selection criteria in this module to support the Pathway LIS.

- **Universal Slide POU – Doctor Order Default View** – Provided the ability for the default view when the screen launches to be the view of doctor orders.

- **Universal Slide POU – Slide Count Total** – Modified the slide count total value to reflect any doctor orders that got printed in addition to standard records.

- **Admin Web Site – Client Configuration Detail Maintenance** – Added a "starts with" check box to pull values that start with a value as opposed to being a complete wildcard search.

- **Admin Web Site – Order Master Audit Listing** – Modified this report to include the add on order flag.

- **Admin Web Site – Doctor Order Listing** – Modified this report to include the add on order flag.

- **Admin Web Site – Medical Code Dictionary** – Created this report to provide a full listing of the medical codes. This is useful in providing a review of the codes that have been created in Assist.

- **Warehouse Module – Drawer Capacity Tracking** – There was an obscure issue that could happen where if the last slot filled in a drawer held an "outbound" transaction, the "next slot" would reflect that outbound slot, but if you tried to scan into it, it would rightfully indicate there was already something there. Fixed this to count the slot even if the slide/block was out of the building.

- **Stain Queue** – Modified the screen to clean the buttons up and have them represent as "Assist standard" image buttons instead of large "text based" buttons to be more visually appealing and standard.

- **Issue Tracking** – Modified the screen to include an expected LOE and an actual LOE.

- **Admin Web Site – Print Template Type Maintenance – Label Type** – Added the label type check box to the screen to allow for the designation of a print template type as a paper label type.

- **Accessioning – Automatic Bottle Printing** – Added label templates to the accessioning bottle print screen and set so that a scan of the requisition bar code will automatically fire the screen to allow for expedited on demand bottle labels.

- **Universal POU – Patient Name Clear** – Found an issue where if a case is scanned that retrieves a patient name, then a second case is scanned that does NOT have a patient name record….the original patient name stays on the screen and can inadvertently print on the slide. Set this to clear if a patient record was not found.

- **Universal POU – Cassette Bulk Print Screen – Cache Version** – Modified this screen to handle the ability to drop files off in addition to being a direct print.

- **Admin Web Site – Specimen Type Maintenance – Laboratory Case Value** – Added this field to the screen so that a case value from a laboratory standpoint can be added to a specimen type for the calculation of metrics.

- **Main Scanner Engine – Specimen Complexity** – Added the ability to handle the capture of specimen complexity when a specimen is processed.

- **Admin Web Site – Specimen Type Information** – Extended this report to include the laboratory case value, the complexity description, and the complexity value for sites using this report to help in specimen metric value calculations.

- **Admin Web Site – Warehouse Test Kit Destruction Report** – Created this screen to provide visibility to the test kits that are stored in the "warehouse" that are beyond their minimum storage days based on test kit results. This ties into the visual purge "button" that will be added to the filing screen to show when purges have not been performed, but should.

- **Admin Web Site – Object Type Maintenance – Minimum Storage Days** – Added minimum storage days to the object type table so that blocks, slides, etc. can have a minimum storage day kept so that purge/destruction notifications can be tracked.

- **Admin Web Site – Warehouse Destruction Picklist** – Created this report to provide visibility to objects that are beyond their storage threshold for destruction. Test kit storage (e.g., infectious disease information) is shown separately since the storage requirements are often tied to the test kit results.

- **Object Filing – Storage Tracking Screen – Purge Button** – Added a visual button on the screen along with a count to provide the employees working in the warehouse area with a visual queue to let them know that purging needs to be done.

- **Admin Web Site – Order Status Maintenance – Transmission Status Flag/Active Flag** – Added an active flag to the order status table to allow for the marking of status values as inactive. Also added a "Transmission Status" check box to allow for the marking of a status as a transmission status for sites that have doctor order interfaces.

- **Admin Web Site – Order Interface Type Maintenance** – Created this screen to allow for the maintenance of order interface types. These are part of the new doctor order interface options and provides a way to classify the interface types.

- **Admin Web Site – Order Interface Location Maintenance** – Created this screen to allow for the maintenance over the order interface location database table. This data allows for the assignment of the location associated with an order interface.