

First Quarter 2021

January 2021

- **Universal Slide** – Added a flag to allow for the “Override Patient” check box to be hidden. Also added a flag to allow for slides to not be printed if the patient name is not found for sites that require the interface between Assist and the LIS be active.
- **Case Finder** – Modified this utility to include visibility on the snapshot tab to disposal and accessioning bins that might be associated with an accession number. Also added the ability to suppress any user login information if the module is being used without requiring employee log in.
- **Case Finder** – Modified this utility to include visibility to warehouse transactions and bin detail storage via separate tabs.
- **Case Finder** – Modified this utility to include the ability to capture look up transactions in a audit trail database table to have visibility to what cases are being research by what employees.
- **Admin Web Site – Case Finder Audit Log** – Created this report to provide visibility to the employees and what cases are being researched.
- **Admin Web Site – Object Disposal Report** – Cleaned up the criteria to make more visually appealing.
- **Accessioning** – Added the ability to capture specimen complexity inside the accessioning module.
- **Admin Web Site – Specimen Type Tracking Maintenance – Specimen Complexity** – Modified this maintenance screen to allow for the maintenance of the specimen complexity information.
- **Admin Web Site – Printer Magazine Maintenance** – Modified this screen to allow for the capture of a “magazine notation” that would be a value that can be printed on a slide to indicate the magazine that the slide was printed from.
- **Admin Web Site – Warehouse Storage Transactions Report** - Created this report to provide visibility to the warehouse storage transaction data.

- **Admin Web Site – Case Hold Reason Maintenance – Case Hold Reason Category** – Added the case hold reason category to allow for the grouping of case hold reasons.
- **Admin Web Site – Object Tracking Report – Manufacturing Task View** – Modified this view to include the manufacturing task description in addition to the task number and also added the task scanning employee to augment the user ID.
- **Admin Web Site – Case Hold Reason Category** – Created this screen to allow for the maintenance of reason categories. These allow for case hold records to be grouped for reporting and selection purposes.
- **Admin Web Site – Specimen Complexity Summary** – Created this report to provide summarized views of specimen complexity information.
- **Admin Web Site – Case Hold Maintenance – Comments** – Modified this maintenance screen to include the comments fields.
- **Admin Web Site – Case Hold Report – Comments** – Added the comments field to this report and cleaned up the selection criteria to be more visually appealing.
- **Admin Web Site – Case Hold History Report** - Added the comments field to this report and cleaned up the selection criteria to be more visually appealing.
- **Admin Web Site – Acknowledgement Type Details Maintenance – Font Color** – Added the font color to this screen to allow for acknowledgement messages to be displayed in color. Also a silent flag to determine whether or not the acknowledgement makes noise when shown.
- **Admin Web Site – MFG Employee Defaults Maintenance** – Created this screen to allow for maintenance over the MFG Employee defaults data. This allows for customization of routings.
- **Inventory Module – Label Validation** – Created a label validation process. This was needed due to sporadic print quality issue with zebra label printers. This modification allows for the immediate scanning of an

inventory label after printing it to verify that it works before putting into the facility.

February 2021

- **Admin Web Site - Material Submission Template Maintenance** – Created this screen to allow for the maintenance of material submission templates. These templates are used inside the receiving module of Assist for keeping track of materials sent by clients to a reference lab and to codify the idea of “standard” inbound combinations of items.
- **Admin Web Site – Material Submission Template Details** – Created this screen to allow for the maintenance of the detailed items associated with a material submission template.
- **Admin Web Site – Order Type Maintenance – Print Template** – Added the print template designator to the order type maintenance screen to allow for the association of a different “look” to a slide based on the order type.
- **Admin Web Site – Material Type Maintenance – Print Template, Type Abbr, Default Printer** – Added the above fields to the material type maintenance screen to better support the printing of labels for each type of material that can be received and tracked inside Assist.
- **Admin Web Site – Employee Daily Work Statistics** – Cleaned up the criteria on this report to make them more visually appealing. The From/To time were not getting factored into the report correctly and this was fixed.
- **Admin Web Site – LIS Patient Verification Maintenance** – Modified This screen to include the new fields for address1, address2, body site code, body site description, city, state.
- **Admin Web Site – Distribution Items Not Returned** – Cleaned up the criteria area of this screen to make it more attractive and added a formatted accession number field to the report.
- **Universal Module** – The routine that calculates the elapsed time on an auto logout was not terminating correctly if the scan type was changed manually to record scan transactions against a scan type other than the type that was originally there when the screen was launched.

- **Admin Web Site – LIS Interface Audit Report** – Created this report to allow for an auditing of accession numbers that pass through the various modules of Assist that do not have a matching record in the LIS Interface table. This is useful for sites with an LIS interface to provide visibility to the number of interface failures.
- **Accessioning Module** – Modified this screen to allow for the capture of courier information in the shipment tracking screen for sites that want to track inbound specimens by courier or to mark them as courier vs. Carrier (Fed Ex/UPS, etc.). Also added automatic version updates at compile time.
- **Admin Web Site – Employee Scan Rate Report** – Modified the employee button to increase the speed of retrieval for the employees that performed scan transactions within the criteria.
- **Admin Web Site – QC Error Employee Assignment** – Added an Export button to this screen.
- **Admin Web Site – Label Validation Report** – Created this report to provide visibility to the label validation transactions that are performed inside the Assist Inventory module.
- **Issue Tracking Module** – Modified the issue tracking screen to allow for the specification of whether or not an issue is billable for reporting purposes.

March 2021

- **Admin Web Site - Issue Log Report** – Created this report to provide a listing of the issues that have been recorded in the issue tracking module.
- **Admin Web Site – HL7 Interface Lag Report** – Created this report for sites that use the Assist HL7 interface. It shows the date/time that the interface routine dropped the data into the database and calculates the minutes between the drop of raw data and the parser loading it into Assist for use and averages out the minutes by the number of transactions to give some “heartbeat” data.
- **Admin Web Site – Courier Maintenance** – Added a “show record number” choice to the top of the screen to allow for the display of the record number.

- **Admin Web Site – Report Maintenance – Description Search** – Added this criteria to the screen to allow for filtering.
- **Admin Web Site – Screen Maintenance – Description Search** – Added this criteria to the screen to allow for filtering.
- **Accessioning Module – Activation Error Tracking** – Added a new routine to capture any activation errors to the Assist database to make it easier for the Assist team to run down activation issues.
- **Accessioning Module – Personal Configuration Overrides** – Extended this feature to also fire on manual login. It was previously only working for scanner login. Put in full “fall through” logic where it checks for Employee/Machine, then if not found, Employee, then if not found, machine.
- **Universal Module – Cassette POU** – Modified the patient verification routine to make sure that if full verification is done on a multi-part case with the “close on verified” check box selected, that the screen actually closes. This was not working in all cases.
- **Universal Module – Cassette POU – Manual Bottle Entry** – There was a way that the accession number was getting thrown off in manual entry mode and the last digit of the accession number was falling into the specimen part. Fixed this issue.
- **Admin Web Site – Assist Activation Error Report** – Created this report to provide visibility to the assist activation errors that are now being recorded when an Assist error is generated.
- **Admin Web Site – LIS Interface Request Report** – Created this report to provide visibility to the stain requests that are coming across from the PathQuest LIS. This is a raw audit log of the data.
- **Admin Web Site – Product Training Tracking Report** – Created this report to provide visibility to the tracking of product training information. Training links can be clicked from the manufacturing module of Assist and this new reports shows how often the product training information is accessed.

- **Admin Web Site – Distribution Protocol Report** – Created this report to provide visibility to the accession numbers that are distributed and the protocols that are included.
- **Admin Web Site – Inventory Master Maintenance – Default Request Quantity** – Added this field to the maintenance screen. This allows for a defaulted quantity on the inventory request screens.
- **Inventory Module** – Added the ability to default the quantity to the inventory request screens based on the new value added to the inventory master file. Also provided the ability to disable the status drop down boxes on the requests screens to reduce the chances of errors by eliminating the ability to change the data. Also put logic in place to stop anyone from “back dating” the NEEDED date on an inventory request.
- **Print Center – Scanner/Form Connect/Release** – The print center module allows for multiple child screens to be launched inside the module. If more than one screen makes use of a com scanner, the screen would lock the scanner until closed preventing it’s use in another screen. Modified to allow the clicking to set focus on the screen to release the scanner from the “old” screen and connect the scanner to the “new” screen.
- **Inventory Module – Inventory Inquiry** – Fixed issue where the inventory code was not getting added to the detail grid when the configuration indicated that it should.
- **Doctor Closeout** – Addressed an issue for labs with the Pathway LIS. There were issues with manually adding doctor orders manually for a prior year when in a new year (for recuts and such). Fixed this issue.
- **Object Filing Module (Warehouse) - Scanner/Form Connect/Release** – The warehouse module allows for multiple child screens to be launched inside the module. If more than one screen makes use of a com scanner, the screen would lock the scanner until closed preventing it’s use in another screen. Modified to allow the clicking to set focus on the screen to release the scanner from the “old” screen and connect the scanner to the “new” screen.

- **Admin Web Site – Test Plate Type Maintenance – Plate Designation –**
Added this drop down to the screen to allow for a default plate designation (i.e. Covid, Flu, etc.) to be specified when a plate type is used. This will allow for defaults on the screens.
- **Test Kit Tracking –** added logic to handle the printing of plate designations on the plate labels and wrote them to the database so that different types of plates could be shown visually through a PCR type lab with plates.
- **Admin Web Site – HL7 Specimen Matching Inquiry –** Added the wildcard field to the selection criteria.
- **Admin Web Site – Test Plate Designation –** Created this screen to handle the maintenance of test plate designations.
- **Print Center – UDI Labels – Print Template –** Extended the UDI label screen to add the print template logic to allow for simple end user label customization.
- **Print Center – Class 1 Labels – Print Template –** Extended the Class 1 label screen to add the print template logic to allow for simple end user label customization.
- **Admin Web Site – Client Type Maintenance – Clinical Research/Histology Check boxes –** Added these two check boxes to the client type screen to allow for further classification of client types.
- **Admin Web Site – Order WorkFlow Maintenance –** Created this screen to allow for the maintenance of order workflows. These are used inside the sample testing module to allow for different laboratory workflows and the tracking of the steps.
- **Admin Web Site – Order Type Routing Maintenance –** Created this screen to allow for the maintenance of the workflow routing that specific order types take as they move through the laboratory.
- **Print Center – Badge Printing –** Modified this routine so that if the Assist logo image is missing from the computer, the badge will print anyway but there will be no logo. Historically, if the logo file was left off the computer, they could not print badges.

- **Print Center – Transport Bin Labels** – Created this screen to allow for the printing of transport bin labels.
- **Universal Module – Doctor Orders – Rush Criteria** – On the retrieval of doctor orders on the criteria screen, the “Rush” orders check box had a typo and was not pulling back data. Corrected this issue.
- **Main Scanner Engine – Transport Bin** – Added the ability to scan into a transport bin from the main scanner engine. This gives the ability to associate the scanned object with a transport “vehicle” that will be used to move that object to another location in the facility.
- **Scoreboard – Material Routing Board** – Created this scoreboard view to serve as a notification to different room inside the facility when an object has been created that is awaiting their retrieval for processing. The best example is the sample testing module where material arrives for testing and this board can be used to alert the different departments that material needs to be retrieved.
- **Admin Web Site – Material Routing Report** – Created this report to display the material routing around the lab for sites that receive inbound test material and then route it differently based on the reference testing that needs to be performed.
- **Admin Web Site – Client Configuration Maintenance – Order by Description** – Modified this maintenance screen to allow for the sort order to be changed for the client configuration records from sort order to type description.
- **Admin Web Site – Scanned Batch Type Maintenance – Object Type** – Added the ability to tie the object type to the scanned batch types.
- **Admin Web Site – Batch Facility tracking Report** – Created this report to provide visibility to the movement of scanned batches across the various locations in a facility. An example of a scanned batch would be something like an Accessioning bin or the container that requisitions are placed in. This can be identified and scanned as they move around.

- **Main Scanner Engine – Specimen Type Override Issue** – Identified and fixed a bug where changing a specimen type for the “non A” specimen could delete the “A” specimen type. Corrected this issue.

Second Quarter 2021

April 2021

- **Accessioning – Specimen Type Drop Down – Font Color** – Changed the drop down on the accessioning specimen type screen so that it can display the drop down font in the color that matches the specimen types.
- **Admin Web Site – Stain Queue Accession Maintenance** – Created this screen to allow for the maintenance of the detailed stain queue accession number data via the web site. This allows sites to handle this maintenance without having to provide access to the stain queue module.
- **Accessioning Module** – Modified to include batch type when pulling back batch data for the sites that are making use of scanned batches.
- **Scanned Batch Report – Batch Type** – There is a criteria drop down for batch type on this screen. It was discovered that the batch type being shown was not the SCANNED batch type but rather was another type of batch that was not relevant for this data. Corrected this issue.
- **Main Scanner Engine – Enforce Scan Order** – Modified the screen to allow for the Enforce scan order to be disabled so that it can be seen, but employees cannot override it.
- **Sample Testing** – The protocol display screen for placing orders against inbound specimens was not ordered by sort order OR by order type description. Put the sort order in place.
- **Inventory Module – Inventory Request Speed Entry** – Added an employee drop down to the screen in case an employee does not have a badge. The drop down positions based on badge scan or user entry. This value gets saved to the employee requested field.

- **Admin Web Site – Printer Magazine Cross Reference Maintenance –**
Created this screen to allow for the interface of Assist with different LIS platforms. This screen allows for tying of different cross reference values to the various magazine values.
- **Admin Web Site – Assist Rotator Maintenance – Description Criteria –**
Added this filter to the top of the screen to make it easier to get to the information needed.
- **Admin Web Site – Inventory Details Maintenance –** Cleaned up the criteria at the top of the screen and added the ability to suppress the product number and vendor description from the view. Also added the inventory code as a display option.
- **Inventory Module – Inventory Requests –** When a link is performed from the requests tab to the release tab.....when the inventory item is positioned, if there is only one active detail lot, go ahead and position the drop down to this item to save that click event since it is only choice instead of positioning to Not Specified.
- **Inventory Module – Inventory Release Tab –** There was a bug with the auto print of labels due to a change in the underlying database table. No error was produced but labels were not printing. This has been resolved.
- **Admin Web Site – Specimen Type Maintenance – Reference Code –** Added this field to the maintenance screen to allow for an additional form of specimen type interface where the code to be associated with the specimen type is hard coded into cassettes and needs a way to tie the disparate systems together.
- **Universal Module – Reference Codes/Specimen Types –** Added logic to allow for the mapping of reference codes from the bar codes for sites that support this feature, to the specimen type.
- **Admin Web Site – Inventory Request Report – Issued Quantity –** Added the issued quantity to this report to provide visibility to the requested quantity vs. The issued quantity.

- **Admin Web Site – Inventory Request Maintenance – Issued Quantity –**
Added the issued quantity to this maintenance screen to allow for it to be modified when performing maintenance over
- **Admin Web Site – Client Configuration Maintenance –** Modified this screen to only show configuration types that are active. Previously all configuration types were shown. This change was actually made to the global routine that loads the configuration type drop down, so this impacts any/all screens that show configuration types.
- **Admin Web Site – Plate Next Transfer Report –** Modified this report to include the plate type that is shown on transfer transactions to provide more meaningful data.
- **Admin Web Site – Object Request Priority Maintenance –** Added font color to this maintenance screen to allow for customization of object requests to show different colors based on different priority values.
- **Warehouse Module – Object Request Alert Button –** Added a separate screen to allow for warehouse requests to show a count as a little “button” inside the overall warehouse screen to alert employees to the fact that warehouse records exist.

May 2021

- **Inventory Module – Inventory Release/Request Interaction –** Added functionality to the inventory release screen to tie inventory requests to the release process to make more a more streamlined process of closing inventory requests.
- **Admin Web Site – ESL Tag Data Staging Maintenance –** Created this maintenance screen as part of the Assist electronic sales tags. This allows for the sending to tag data to the display panels. This will normally be done via a module, but this would be used for emergencies.
- **Admin Web Site – ESL Link Staging Maintenance –** Created this maintenance screen to allow for the tying of electronic sales tags to accession numbers. This will normally be done via a module, but this would be used for emergencies.

- **Admin Web Site – ESL Tag Type Maintenance** – Created this screen to allow for the maintenance of the various types of ESLs that are in use.
- **Admin Web Site – Order Closeout** – Updated to include a “select all/unselect all” option when in the status change only mode. Also fixed a flaw with the screen refreshing when in status change mode.
- **Universal Grossing** – Modified the routine to bring forward the cassette magazine/hopper based on the specimen type mapping to the block instructions table.
- **Admin Web Site – Accession Slide Count Maintenance – IHC Print Flag** – Modified the slide recipe section of this screen to include an IHC Print Flag to allow a specific protocol record to be marked as needing to be routed specifically to an IHC printer.
- **Universal Slide – Override Magazine** – Added a check box to the screen to allow for a “hard override” to only print to the magazine specified. If the magazine is not visible (because it was not a magazine printer), it will be ignored.
- **Universal Slide – Override Specimen Magazine** – Added a check box to the screen to allow for an override of the magazine when protocols are used. By default, the magazine pulls from the protocol details. With this check box selected, the magazine will be pulled by default from the specimen type instead. This handles the issue where magazines are really driven by the client or color of the specimen instead of always pulling from consistent magazines.
- **Universal Slide – IHC Print Flag** – Added this check box to the slide recipe details section of the screen. This is used to indicate an override of the protocol detail to print to the “IHC Printer” for sites that are using the universal slide print screen.
- **Distribution Module – List Prefixes change** – Modified the method used for loading and tracking prefixes. Previously, they were loaded at the “header” level and then a call was made to the database to get details when they were needed resulting in multiple round trips to the database. This change

loads the data at screen load and references it when needed from the initial load to reduce round trips to the DB and increase speed.

- **Inventory Module – Maintenance Tab – Inventory Code** – The first time the inventory code field was used, it positioned the drop down in the selection criteria area correctly. After this first time, after saving data, the inventory code was not right. Cleared the search criteria after save to resolve the issue.
- **Admin Web Site – Case Rush Type Maintenance** – Created this screen to allow for the maintenance of case rush types. These types were created to categorize the case rush values that could be specified to allow for better reporting and management of rush lists.
- **Admin Web Site – Case Rush Maintenance – Case Rush Type** – Added the case rush type to the case rush master file to allow for the categorization of case rush values.
- **Admin Web Site – Warehouse Picklist Status Maintenance** – Warehouse requests have been fleshed out further inside the warehouse module. This included more detailed information involving picklists. This screen was created to allow for picklist status values (ex. Open, Pending, Closed) to be associated with warehouse picklist items.
- **Admin Web Site – Warehouse Organization Maintenance** – Warehouse organizations were added to the warehouse picklist information. This was done so that a picklist item can be associated with an different organization (ex. Internal, Iron Mountain)
- **Warehouse module – Warehouse Requests** – A new warehouse requests screen has been added inside the warehouse module to allow for the capture and display of warehouse requests. This requests can also be automatically sent to picklists.
- **Admin Web Site – Material Request Maintenance – Object Flags** – Added object flags to the material request screen. This allows a material request value to specifically refer to a tangible object inside Assist.

- **Admin Web Site – Security Maintenance** – Allow Inventory Request Flag – Added this flag to the security maintenance screen to allow employees to be enabled for the inventory request drop down. This allows for filtering of drop down values to reduce accidental selection of the wrong employees.
- **Inventory Module – Speed Inventory Request** – Allow Inventory Request Filter – On the “Speed Request” version of the inventory material request screen, added the ability filter employee drop downs to only include employees that have been marked as inventory request employees.

June 2021

- **Universal Slide Queue – Added an override magazine to the screen** – Put this value on the screen to allow the slide queue routine to override the logic associated with protocols and specimens. For example, if a magazine is broken in a printer, it may be necessary to “re-route” traffic to a different magazine.
- **Scanner Engine – Case Component** – Group by and added color to the specimen type node. Visually adjusted the way that case component data is displayed to allow for color coding in the tree view.
- **Universal Slide – Added case components logic** – The same case component (chain of custody) information that is visible in the main scanner application was added to the universal slide POU screen and is accessible via a checkbox.
- **Admin Web Site – Warehouse Picklist Maintenance** – Adjusted the warehouse picklist process to allow for picklists to be saved. Previously, they were just printed “on the fly” from selected data. The adjustment to actually save them as database objects made it necessary to provide a screen to override or adjust them.
- **Admin Web Site – Material Submission Type Maintenance** – Return Required. Added a checkbox to the material submission type to allow for the default of the return required value. This is part of the sample testing module of Assist,

- **Admin Web Site – Order Workflow Maintenance – Default Facility Location.** When an order workflow record is created (ex. Histology, Flow, PCR, etc.), this modification allows for the physical location in the facility associated with the workflow to default.
- **Admin Web Site – Material Submission Template Details – Default Print On.** Modified the material submission template details screen to include a check box to “default print” different objects. For sites that perform sample testing and receive objects from clients that have to be labelled, this routine allows for the creation of placeholders for this objects without printing labels if needed and to reduce having to actually click the buttons to select them.
- **Admin Web Site – Material Type Maintenance – Bottle Flag –** The material type maintenance screen was changed to include the ability to mark material types (ex. Slide, block) as bottles as well.
- **Admin Web Site – Client Master Maintenance – OverDueDays Field.** Added the overduedays field to the client master maintenance screen. This allows the client to have a defaulted overdue days assignment that would override the default for the material type.
- **Admin Web Site – Material Submission Template – Workflow Number.** Modified this screen to include a default workflow for a material submission template. This is part of the sample testing module where templates can be created to represent standard combinations of objects (ex. Blocks, slides, etc.) that are received on inbound testing. This change allows the workflow to default at that level as well.
- **Admin Web Site- Order Type Maintenance – Unstained Flag.** Added an unstained flag to the order type screen, which is used for the processing of doctor orders and sample testing. This allows for unstained slides to be tracked separately from other objects since they represent an object that can be converted into a different objects (i.e. a stained slide).
- **Admin Web Site – Order Category Maintenance – PCR Flag.** Modified the order category screen to include the PCR Flag. This allows for order types to be categorized to apply for that lab where needed.

- **Admin Web Site – Error Maintenance – Track Resolution** – Added this flag to the maintenance screen to allow for indication of whether or not the error message needs resolution and should go into the resolution tracking table.
- **Admin Web Site – Warehouse Pull Analysis Report** – Created this report to show outbound warehouse/banking transactions along with when the object that was “checked out” was originally stored in the warehouse. This allows for better analysis of the data coming and going into the warehouse.
- **Admin Web Site – QA/LIS Interface Stored Procedures** – Create two stored procedures to allow for better interface/communications between Assist and LIS platforms.
- **Admin Web Site – QA Resolutions Maintenance** – Created this screen to allow for the maintenance of QA resolutions. These are the steps that have been taken to resolve a quality issue for which tracking of the resolution has been indicated (at the error level).
- **Admin Web Site – QA Issue Resolution Maintenance** – Created this screen to allow for the maintenance of QA Issue Resolution records. These are generated when an error is captured in the QA system that indicates tracking is involved to determine error resolution. This screen allows for overrides and changes to the data.
- **Admin Web Site – Accession Printer Filter** – Created this screen to allow for the maintenance of accession printer filter records. This data is used to filter the printer choices shown in the universal modules. It allows for multi-site facilities to not list printers that do not exist in the facility to stop any accidental printing from the wrong data.
- **Admin Web Site – Client Configuration** – Default MFG Task/Default MFG Task Blank – Added the MFG Task and Task Blank flag to this maintenance screen to allow for machines to default to a manufacturing task appropriately when manufacturing tasks are getting tracked.
- **Manufacturing Module – Load Default Task Logic** – Modified the manufacturing module in Assist to pull in default tasks based on what was put into the client configuration screen.

- **Accession Printers – Cache Directory** – Added the ability to specify a cache directory at the printer level in Assist. This allows for each printer to be specified with a different network address to use for directing “drop files” that indicate what should print. Previously, this data could only be addressed via configuration.
- **Universal Cassette POU/Queue – Added Cache directory logic** – Modified the universal cassette module to pull the cassette cache from the accession printers database if it exists. If all of the cassette printers in an environment are exposed, this value can be used to point the data as appropriate.
- **Admin Web Site – Equipment Setting Template Maintenance** – Created this screen to allow for the maintenance of equipment setting templates. These are part of the Assist functionality to capture machine settings and represent the template or collection of variables that are going to be captured.
- **Manufacturing Module – User/LIS Interface Check** – Added the ability in the manufacturing module to pass the LIS Interface value inside Assist to the LIS to make sure that there is a valid user in the LIS/ERP for that employee. For sites that perform task tracking, this can be critical to make sure that completed task information is getting sent back into the LIS/ERP as necessary.
- **Admin Web Site – Equipment Setting Variables Maintenance** – Created this screen to allow for the maintenance of equipment setting variables. These are the machine variables that can be captured in conjunction with machine settings and represent all of the data elements that need to be captured. They can be combined with templates to give a list of all the data.
- **Admin Web Site – Equipment Setting Maintenance** – Created this screen to allow for the maintenance of equipment settings. This data represents the marriage of the equipment setting templates to the variables that can be captured.
- **Admin Web Site – Equipment Setting Tracking Report** – Created this report to show the equipment setting data that can now be captured using the manufacturing module.

- **Admin Web Site – Specimen Type Maintenance – Default Bottle Quantity** – Added the default bottle quantity field to the maintenance screen. This allows for the quantity to show on the label print routine and accessioning integration to handle variable bottle quantities by specimen type.
- **Universal Cassette – Case Component Display** – Added a screen to the side of the universal module to show all of the components for the case. This allows a grosser to have visibility to all of the specimen bottles that should exist for the case.
- **Accessioning Module – Automatic Label Printing** – Added the ability to automatically print labels via Accessioning. As soon as a requisition is scanned, the bottle print screen is presented using the default label quantity for each of printing.
- **Admin Web Site – Case Hold Reason Maintenance – Track Resolution/Error Master interface** – Added choices to indicate if a case hold reason requires specification of the resolution and allows for the mapping of case hold reasons to quality errors so that a hold can also generate a QC transaction.

Third Quarter 2021

July 2021

- **Admin Web Site – Material Testing Source Maintenance** – Created this screen to allow for the maintenance of material testing sources. This is part of the sample testing module in Assist and represents the source of testing (ex. Paraffin Block, Tissue vial, etc.).
- **Admin Web Site – Order Type Maintenance – Extraction type** – Extended the order type maintenance screen to allow for the specification of the extraction type that should be associated with an order type. This is typically used in a PCR lab and represents how the specimen should be extracted for testing.
- **Admin Web Site – Inventory Storage Location Maintenance** – Employee Association

- **Inventory Module – Inventory Storage Location** – Position by the requesting employee
- **Inventory Module – Receiving Label Print Quantity** – The quantity was wrong and was pulling from the release tab quantity instead.
- **Material Type Maintenance – Internal Material/Increment Part Count** – Added two fields to the material type maintenance screen. This allows for the determination of whether material type is internal (ex. Histology generated slides) as opposed to client submitted. The “increment” check box allows for the materials to carry the same part number (ex. 6 unstained slides all with A1 on them) if relevant.
- **Warehouse – Picklist Tracking** – Added this feature to the warehouse module. Picklists have always been capable of being created, with the goal being to print a list of objects to be pulled from the warehouse. This feature addition gives the ability to scan against items on the picklist and track them.
- **Warehouse – Warehouse Request – Special Projects** – Introduced the concept of “special” projects to the warehouse module. These are basically “offline” specifications of a batch of Accessions that need to be pulled that would be special project types of things.
- **Admin Web Site – Extraction Type Maintenance** – Created this screen to allow for the maintenance of extractions types. These are used inside the sample testing module of Assist (specifically PCR types of specimens) where the type of extraction that needs to be performed is important to know/track.
- **Admin Web Site – Equipment Type Maintenance – Setting Tracking Eligible** – Added the field to the equipment type table. This allows for equipment types to be specified as eligible for setting tracking which is a feature inside Assist where the tracking of what settings are placed on a piece of equipment at the time of scanning is performed.
- **Admin Web Site – Material Template Details Maintenance – Specimen Type/Order Type** – Added the ability inside the material template details setup to specify the specimen type and/or order type to allow for expedited

entry of data into the “receiving area” of the sample testing module of Assist.

- **Sample Testing** – Material Template Details processing as outlined above. – Added the logic to the receiving process of the sample testing module to take defaulted specimen types and order types into consideration. This modification allows for expedited entry when defaults are known.
- **Admin Web Site – Warehouse Picklist Report** – Created this screen to report on the objects that were included in picklists. Previously, picklists were just a grouping of accessions that were printed but not saved, so there was no need to include the ability to report against them. Picklists can now be saved, so this reports allows for this data to be seen historically. The report can branch to show both summary and detail views of picklists.
- **Admin Web Site – LIS Interface Replication Maintenance** – Number Series Order was added to the maintenance screen. This allows for the replication of specific number series inside a number wheel for sites that have an active order interface. Previously, the entire number wheel had to be included in any interface and this was limiting.
- **LIS Interface – LIS/PQ Interface orders load to Order Closeout.** Added interface order loading into the LIS interface robot for the PathQuest LIS.
- **Admin Web Site – Equipment Setting Values Maintenance** – Created this maintenance screen to allow for the maintenance of equipment setting values. These are the values that are captured using the equipment settings features in some of the modules. This screen allows for captured settings to be adjusted as needed outside of the main scanning modules where the data was originally captured.
- **Interface Utility – Accession Notes Acknowledgement Robot** – Created this robot to automatically close accession notes if they are open and older than the days past specified.
- **Universal Slide Queue** – Modified to handle Alias that is missing to avoid the dash by itself. This was happening when the alias print was turned on, but there was no alias on a record when printing via the slide queue.

- **Universal Slide Queue – Auto Purge** – Added logic to allow for the purging of slide requests by using days back settings for both active and printed status slides.
- **Universal Module – Demographics Tab – Client Code** – The client code was missing from the patient demographics tab. Added it.

August 2021

- **Admin Web Site – Extraction Type Maintenance – DefaultTubeCount** – Added the default tube count so that label quantities can be defaulted based on the extraction type.
- **Admin Web Site – Batch Type Maintenance – ExtractionBatch and PCRBatch** – Added these two values to the batch type maintenance screen to allow for the designation of a batch as a PCR batch or an extraction batch.
- **Admin Web Site – Equipment Maintenance** – The Lease P/O number fields was showing null values if nothing was specified. Cleaned this to only show blanks as it should.
- **Admin Web Site – Micro Dissection Type Maintenance** – Created this screen to allow for the maintenance of micro dissection types. Micro dissection types are used in the sample testing module of Assist in the PCR lab area.
- **Admin Web Site – Recipe Master Maintenance – Recipe Code** – Added this field to the selection criteria to make it easier to retrieve recipes out of the list if there are a lot of them.
- **Admin Web Site – Inventory Master Maintenance** – Manufacturing only and Ingredient only filter – Added to the selection criteria to make it possible to filter the entries on the inventory master file by these values.
- **Admin Web Site – Accession Slide Count Maintenance** – Human Text Override Field – Increased the allowed size of this field to 30 characters instead of 10. This does not impact the bar code on the slide.

- **Inventory Module – Label Validation Tab - Auto Load On Scan** – Added a check box to allow the employee to control whether or not all label validation transactions matching the selection criteria are performed when a label is scanned.
- **Inventory Module – Recipe Details Lookup** – Added a checkbox to allow for the choice of whether or not the recipe codes are included in the drop down box. Also added a recipe code lookup box to allow for retrieval by code.
- **Admin Web Site – Extraction Batch Status Maintenance** – Created this screen to allow for the maintenance of extraction batch status values. Extraction batches are used inside the PCR functionality inside the sample testing module of Assist. This status values drive the statue of a batch of extractions.
- **Admin Web Site – Digital File Locations Maintenance** – Created this screen to allow for the maintenance of digital file locations. These represent the UNCs where digital files can be stored and are part of the digital dashboard feature set for digital pathology inside the warehouse module.
- **Doctor Order Closeout – Print Log Pop up screen** – The print log screen inside the doctor order closeout loaded with defaults that were different from the defaults on the selection criteria for the closeout screen itself. Made sure that the settings that were on the underlying screen came forward to the print log pop up screen.
- **Inventory Module – Receiving Tab** – Label Quantity matches Inventory Quantity – The label quantity and inventory quantity were set so that they will be teh same thing. The inventory quantity adjusts automatically to reflect the exact number of objects that are being placed inside inventory. The label print quantity for automatic label print was staying 1. Made a change to tie the two together.
- **Inventory Module – Inventory Order Tab – P/O Number** – Added the purchase order number field to the inventory order tab so that it can be stored with the inventory order if needed.

- **Admin Web Site – Equipment Type Maintenance – Critical Equipment Flag** – Added the critical equipment flag to the equipment type table so that critical equipment can be specified at the type level. This value will also reside at the equipment level with the type default the value.
- **Admin Web Site – Material Type Maintenance – Type Abbreviation** – Extended this field to allow 10 characters instead of 5.
- **Admin Web Site – Digital Distribution Status** – Created this screen to allow for the maintenance of digital distribution status values. These status values are used to specify if a digital object (i.e., slides) are distributed or not after being placed into the digital queue by the slide imaging solution.
- **Admin Web Site – Equipment Maintenance – Critical Equipment** – Added this field to the equipment master to allow equipment records to be flagged as critical for different reporting in the Preventative maintenance module. This defaults from the value on the equipment type table, but can be overridden at the specific equipment record level.
- **Admin Web Site – Distribution Case Breakdown Report** – The from/to accession number criteria was coded expecting a from and to number. Some of the data in the database contains bad scans which are not numeric. This was causing an overflow error. Changed the criteria to consider them alpha values.
- **Admin Web Site – Distribution Report – From/To Accession range and Prefix Criteria** – Added prefix and from/to accession number ranges as selection criteria.
- **Admin Web Site – Void Transaction Report** – Moved the selection criteria around to make the screen more visually appealing.
- **Admin Web Site – Distribution Detail Report – Auto Override On Flag** – Added this field to the report to provide visibility for when distribution transactions are generated with the auto override flag on to manually perform distribution.
- **Inventory Module – Release Label Print** – The quantity that was printing on the release auto labels reflected the QUANTITY of labels and not the

quantity of products contained in the release (ex. 100 screws in a bag, the quantity needs to print as 100). This was corrected.

- **Inventory Module – Inventory Orders Picklist** – The picklist had some field overlaps if the item description was of a certain length. Redesigned the report to line up better.
- **Inventory Module – Transfer Tab – Storage Location – Storage Location** – Added this third form of transfer transaction.
- **Facility Location Transactions** – Moved this report from the inventory section to under lab scanning.
- **Inventory Accession Assignment Report** – Changed the selection criteria to make the report a little more visually appealing. There were also some issues with table names that was causing the report to not work perfectly. These were resolved. Also collapsed the accession number fields of Prefix, Accession, MultiBottle, and MultiCassette into the FullAccession field.
- **Admin Web Site – Inventory Accession Summary Report** - Changed the selection criteria to make the report a little more visually appealing. There were also some issues with table names that was causing the report to not work perfectly. These were resolved.
- **Sample Testing Module** – Added the template definition button to allow for an inquiry to show the full definition of material submission templates that have the various components (i.e., Slides, blocks, etc). That compose a template to help the data entry employee with making the right choice.
- **Sample Testing Module – PCR Tab – Extraction Batch Status** – Added this option to the selection criteria to help in filtering PCR testing requests.
- **Sample Testing Module – PCR Tab – Worklist Printing** – Added the ability to print worklists and to tie the printing of a worklist to the automatic changing of the extraction batch status to reflect “on order”.
- **Admin Web Site – Material Type Maintenance – UseConversionTracking** – Added this flag to the material type maintenance screen to indicate whether or not a material type should generate conversion tracking records when processed.

- **Admin Web Site – Order Type Maintenance – UseConversionTracking** - – Added this flag to the material type maintenance screen to indicate whether or not a material type should generate conversion tracking records when processed.
- **Admin Web Site – Object Conversion Status Maintenance** – Created this screen to allow for the maintenance of object conversion status values. These status values are used inside the sample testing module of Assist where submitted materials are “consumed” by different departments and are turned into other objects (i.e. slides submitted for PCR). These status values would be things such as “Available” and “Used”.
- **Assist Auto Notification Application** – Created this simple application to allow for the automatic capture of various notifications with interfaces between equipment and Assist. Where an equipment vendor has the ability to launch an application at an error condition, this application can log the equipment and issue number associated with the transaction to provide detailed information about the event log types of interactions with equipment.
- **Admin Web Site – Equipment Listing – Critical Equipment** – Added the critical equipment check box to the selection criteria on the report and also included it in the body of the report detailed data.
- **Admin Web Site – Equipment Issue Tracking Report – Critical Equipment** - Added the critical equipment check box to the selection criteria on the report and also included it in the body of the report detailed data.
- **Equipment Maintenance Module – Maintenance Tab – Critical Equipment Checkbox** – Added this checkbox to the equipment maintenance tab to allow for the maintenance of that value.
- **Admin Web Site – Equipment Maintenance Activity Report – Critical Equipment** - Added the critical equipment check box to the selection criteria on the report and also included it in the body of the report detailed data.
- **Admin Web Site – Equipment Maintenance Due Report – Critical Equipment – Critical Equipment** - Added the critical equipment check box

to the selection criteria on the report and also included it in the body of the report detailed data.

- **Admin Web Site – Equipment Maintenance History Report – Critical Equipment** – Added the critical equipment check box to the selection criteria on the report and also included it in the body of the report detailed data.
- **Admin Web Site – Equipment Maintenance Reports – Critical Equipment** - Added the critical equipment check box to the selection criteria on the report and also included it in the body of the report detailed data.
- **Admin Web Site – Equipment Missing Maintenance Report – Critical Equipment** - Added the critical equipment check box to the selection criteria on the report and also included it in the body of the report detailed data.
- **Admin Web Site – Equipment Repair Tracking Report – Critical Equipment** - Added the critical equipment check box to the selection criteria on the report and also included it in the body of the report detailed data.
- **Admin Web Site – Equipment Retirement Report – Critical Equipment** - Added the critical equipment check box to the selection criteria on the report and also included it in the body of the report detailed data.
- **Admin Web Site – Equipment Notification Type Maintenance** – Created this screen to allow for the maintenance of equipment notification types. These are part of the assist auto notification application and allow for the specification of the type of notification that is being generated.

September 2021

- **Interface Module – LIS Replication Engine** – Modified this engine to allow for the disabling of LIS Interface records before the routine loads new ones.
- **Admin Web Site – Equipment Automatic Notification Report** – Created this report to allow for reporting over the equipment automatic notifications. These notifications are generated by equipment agents for equipment that are being monitored.

- **Admin Web Site – LIS Interface Audit Log** – Created this report to allow for reporting over the LIS interface audit data. This table holds transactional counts of the LIS interface when it is run and allows for “heartbeat” data visibility.
- **Admin Web Site – Rework Reason Maintenance – Cross Reference** - Added this cross reference field to the rework reason table so that the data can be cross referenced to another application.
- **Admin Web Site – Quality Inspection Point Maintenance** – Created this report to allow for the maintenance of quality inspection points. These represent physical locations in a facility where a quality check can be performed and allows for the stratification of quality tracking by location.
- **Admin Web Site – Digital File Suffixes Maintenance** – Created this screen to allow for the maintenance of the file suffixes that can be captured and worked with inside the digital pathology section of Assist.
- **Warehouse Module – Digital Dashboard** – The digital dashboard module was created to allow for the handling of digital files on the actual digital imaging machine.
- **Admin Web Site – ESL Base Station Inquiry** – Created this report to provide visibility to the electronic sales label base stations that are present in a facility.
- **Admin Web Site – ESL Change Log Report** – Created this report to provide visibility to the ESL change log. This log reflects all of the changes to electronic sales labels.
- **Admin Web Site – Database Table Listing** – Created this report to allow for reporting over the entirety of the Assist database.
- **Admin Web Site – Notification Address Maintenance** – Added the notification type to the selection criteria to make it easier to view only the data that is needed. Added a description to the address so that some context or identifying information can be provided on the email address that is added.

- **Universal Module – Slide POU** – Modified the way the “Position Protocol by Specimen” check box is handled. Changed it to set initially based on configuration and then not set it again as configurations are toggled through. This allows the user to control the settings appropriately even when toggling back and forth between the screen views.
- **Admin Web Site – Case Hold Reason Maintenance – Generate Office Queue** – Added this check box to allow for a case hold reason to automatically generate a office queue transaction from inside the patient validation process.
- **Admin Web Site – QA Issue Resolution Maintenance – Case Hold Record** – Added the case hold drop down to this screen to allow for the specification of a case hold record that is associated with a QA Issue resolution transaction.
- **Admin Web Site – QA Issue Resolution Report** – Created this report to provide visibility to the QA Issue Resolution information.
- **Admin Web Site – Order Type Maintenance – Equipment Filtering Flag** – Added this check box to the maintenance screen to allow for order types to indicate whether or not they should be tethered to equipment types. This is useful for labs that indicate what equipment was used in the processing of the order type if relevant.
- **Admin Web Site – Reserved Resource Maintenance** – Created this screen to allow for the maintenance of reserved resources. These resources represent objects, rooms, etc. that can be reserved for employee use.
- **Admin Web Site – Equipment Maintenance – Date In Service** – Added this field to allow for the specification of a date in service value as opposed to the date purchased, etc. This allows management to keep track of when a piece of equipment started actually being used.
- **Admin Web Site – Equipment Maintenance Reporting – Date In Service** – Added this field to the report.
- **Admin Web Site – Equipment Repair Tracking Report – Date In Service** – Added this field to the report.

- **Admin Web Site – Equipment Maintenance History Report – Date In Service** – Added this field to the report.
- **Admin Web Site – Equipment Maintenance Due Report – Date In Service** – Added this field to the report.
- **Admin Web Site – Equipment Maintenance Activity Report - Date In Service** – Added this field to the report.
- **Admin Web Site – Equipment Downtime Report - Date In Service** – Added this field to the report.
- **Admin Web Site – Equipment Listing - Date In Service** – Added this field to the report.
- **Admin Web Site – Equipment Missing Maintenance Report - Date In Service** – Added this field to the report.
- **Admin Web Site – Case Void Transactions Report** – Created this report to provide visibility to the case void transactions.
- **Admin Web Site – Order Type/Equipment Type Filter** – Created this maintenance screen to allow for the maintenance of the assignment of order types to equipment types. This is used to filter choices of equipment that can process or run the various order types where this is tracked inside Assist.
- **Accessioning Module – Label Print** – Corrected an issue where if a site was toggling between a “normal” LIS format label and Pathway formatted labels, that the location identifier could get “stuck” going back to normal format from Pathway causing the prefix not to load correctly.
- **Universal Cassette Queue** – Resolved an issue where the universal cassette queue was not loading if the sort order was set to load in accession number order instead of arrival sequence.
- **QC Module – Login/Logout Button** – Changed the icon on the login and have them both visible (but disabled) at all times.
- **Print Center – Flow Label** – Created this label screen to allow for the printing of labels for a flow lab.

- **Admin Web Site - Material Type Maintenance** – Order Type Added the default order type to the material type maintenance screen. This will be used inside the Assist sample testing module to automatically create default orders when material types are received.
- **Sample Testing Module – Delete Order Type** – Fixed an issue where the “X” button to delete the assignment of an order type to a slide was not working. There was a simple typo in an SQL statement.
- **Admin Web Site – ESL Tag Inquiry** – Created the ESL tag inquiry to provide visibility to show the tags that exist in the system. This is basically a list of the mapping between the types of tags and their MAC addresses.
- **Admin Web Site – Special Handling Type Maintenance** – Created this screen to allow for the maintenance of special handling types. These values represent the groupings of special handling data when used with shipments from clients or holding sites.
- **Admin Web Site – Client Maintenance – Default Holding Site** – Added a default holding site to the client master. This allows a client to be associated with a holding site (ex. Iron Mountain) for when the direct request of blocks/slides are being performed for testing in a reference lab.
- **Admin Web Site – Case Hold Closure Utility** – Created this utility to allow for the bulk removal of case hold transactions. A record of the removal is written into the audit log as the case holds are removed.
- **Admin Web Site – Specimen Reference Type Maintenance** – Created this screen to allow for the maintenance of specimen reference types. These types represent the types of reference materials that might be associated with an accession. Examples might include specimen pictures, pathology reports, requisitions, etc.
- **Admin Web Site – Client Maintenance** – Added the capture of the last maintained date and user fields and show on the screen.
- **Admin Web Site – Client Interface Exceptions** – Created this report to provide visibility to the client “code” values that exist in the LIS interface table in Assist that do not have a matching value in the client master file.

There are three “code” fields that can be used by an Assist installation and this report allows for inquiries to be run against all of them.

- **Admin Web Site – Specimen Order Status Maintenance** – Created this screen to allow for the maintenance of specimen order status values. These values are used to mark open, closed, pending status on specimen orders.
- **Admin Web Site – ESL Event Log Report** – Created this report to provide visibility to the data captured by the electronic sales labels event log.
- **Admin Web Site – ESL Log Report** – Created this report to provide visibility to the data captured by the electronic sales labels log process. This data is typically messages sent to the base stations at the electronic tag level.

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- **Admin Web Site – ESL Label Status Report** – Created this report to provide visibility to the ESL Label status information. This shows all of the technical details associated with electronic sales labels.
- **Admin Web Site – Specimen Order Type Maintenance** – Created this screen to allow for maintenance of the specimen order type data. This data is used in the “inbound” sample testing area to delineate the types of orders that are being received and can be tied to doctor order types if needed.
- **Admin Web Site – Order Type Maintenance – SuppressVialLabel** – Added this checkbox to the screen to allow for the specification of the option to suppress vial label printing when PCR vial labels are printed for doctor orders.
- **Admin Web Site – Specimen Type Tracking Maintenance** – Cleaned up the criteria to make more visually appealing. Added the current date to the from/to date criteria to reduce the likelihood of accidentally pulling more data than intended. Added a few fields to the database write for values that need to default.

- **Scanner Engine – Case Void Check** – Added the ability for the cassette scan to check the void transactions table and refuse a scan transaction if the case has an active void transaction indicated. Also modified to write any void transactions into the void transaction table instead of simply clearing the transaction table.
- **Scanner Engine – Measurements** – Modified the embedding scan to pull specimen measurements out of the grossing notes portion of the Assist database.
- **Check In Module – Case Void Check** - Added the ability for the cassette scan to check the void transactions table and refuse a scan transaction if the case has an active void transaction indicated. Also modified to write any void transactions into the void transaction table instead of simply clearing the transaction table.
- **Inventory Module – Inventory Request Picklist** – The picklist that can be printed from inside the inventory module had some column overlap if the inventory item was long. Modified the routine to pull the column positions from the configuration to allow for site by site customization and implemented this change.
- **Admin Web Site – MFG Task Maintenance – Suppress Scoreboard** – Added this checkbox to the screen to allow for a task to be designated as needing to be suppressed from showing up on the various scoreboard views.
- **Preventative Maintenance Module – Equipment Maintenance Tab** – Added the date in service field.
- **Admin Web Site – Rework Request Report** – Created this report to provide visibility to rework requests if rework is being tracked as part of a facilities quality assurance program.
- **Universal Slide – Material Type** – Modified the slide print routine to allow for the printing of material type descriptions if the sample testing module of Assist is used and information on material type is being passed to the doctor order screen.

- **Sample Testing – Exceptions Screen** – Added a summary view in addition to the normal detailed view. This provides the ability to see what exceptions give the most “bang for the buck” on clean up activity.
- **Sample Testing – Batch Drop Downs** – Provided configuration flags to allow for the batch drop downs to be loaded as LIFO or FIFO.
- **Admin Web Site – Material Type Maintenance – Fresh/Fixed Checkboxes** – Added these two check boxes to the screen to allow for the specification of whether a material type represents fresh specimen (ex. Bottles) or fixed specimen (ex. Paraffin blocks).
- **Admin Web Site – Extraction Type Maintenance – Fresh/Fixed Checkboxes** - Added these two check boxes to the screen to allow for the specification of whether an extraction type represents fresh specimen (ex. Bottles) or fixed specimen (ex. Paraffin blocks).
- **Admin Web Site – LIS Extraction Type Maintenance** – added multiple “type” checkboxes to allow for the specification of exactly what kind of exception type has occurred (ex. Client, Specimen, ordering physician, etc.)
- **Universal Module** – Added the ability to capture the computer name when printing from the cassette or slide queue to allow for keeping track of what machine printed a cassette or slide.
- **Universal Module – Slide POU** – Modified the way the “Auto Print Orders” check box is handled. Changed it to set initially based on configuration and then not set it again as configurations are toggled through. This allows the user to control the settings appropriately even when toggling back and forth between the screen views.
- **Sample Testing** – Modified the notifications screen to handle facility location for filtering the available notifications based on the client configuration facility location.
- **Admin Web Site – LIS Interface Procedures Report** – Created this report to allow for visibility to the LIS Procedures data that is coming over via the LIS interfaces where procedures and processing instructions are tracked.

- **Admin Web Site – PCR Batch Maintenance** – Created this screen to allow for the maintenance of PCR batches.
- **Manufacturing QC Module** – Modified this screen to provide the ability for the end user to opt in/out of whether or not the scanning of a manufacturing task should reposition the end user to the task scan screen.
- **Admin Web Site – Eprexia Imager Analysis** – Created this report to provide visibility to the offloaded database raw data from the Eprexia digital imaging platforms for sites that make use of this equipment for digital slides and have the interface active.
- **Universal Slide Module – Alias Patient Lookup** – Modified the patient name lookup function. If a client accession is driving the process (i.e. a client block instead of internal LIS) of printing slides, modified to also attempt to lookup the patient name based on the alias accession information.
- **Universal Slide Queue – Patient Color Fix** – There is a feature where the accession number column in the grid can be a different color if no patient name is found. The query had a flaw that was not retrieving the data correctly.
- **Interface Utility – LIS Orders** – Modified this routine to write to the order master audit table when it writes to the order master table.
- **Interface Robot – Client Load** – Modified the routine that loads client data. Put a “Y/N” loaded flag on the DB so that we can keep track of which records have been loaded and a date/time of when. Also added more checks to try and stop duplicates and added a skip flag just in case.
- **Sample Testing – Receiving Tab** – Added a pop up confirmation button if an accession is scanned back to back without the header save button being pressed in between.
- **Accessioning Module – LIS Interface Heartbeat** – Added the ability inside the accessioning module to have visibility to the status of the LIS interface. A button shows the last time the interface ran. Clicking the changes the screen to see the number of times the interface job has run and the counts of transactions loaded.

- **Universal Cassette – Bottle Scan** – Modified the bottle scan transaction to allow, by configuration variable, to either reflect the cassette value that was on the screen at the point of scan OR to reflect it in the database as “N/A”.
- **Admin Web Site – EpreDia P1000 Database Report** – Created this report to provide visibility to the database files that have been read into the Assist database for sites that have integrated Assist/EpreDia digital pathology
- **Manufacturing Quality Module – Rework Error Log Capture** – Added logic to the manufacturing quality module to allow for the capture of errors into the database when rework entry is performed. This helps in triage of problems associated with rework entry.
- **Admin Web Site – Rework Request Error Log** – Created this report to provide visibility to the rework request error log transactions that are being captured inside the manufacturing quality module.
- **Admin Web Site – EpreDia P1000 Database Maintenance** – Created this screen to allow for maintenance over the database files that are read into the Assist database for sites that have integrated Assist/EpreDia digital pathology interface. The settings can allow for the reload of data.
- **Admin Web Site – Client Accession Prefix Maintenance** – Created this screen to allow for maintenance over the client accession prefix screen. This is used as part of the process of enabling the scanning of client submitted cassettes/slides into Assist.
- **Admin Web Site – EpreDia P1000 Settings Control Maintenance** – Created this screen to allow for maintenance over the EpreDia settings control area that handles digital scanning of slides. This maintenance screen controls the settings and profiles that are loaded from XML files into the database.

November 2021

- **Manufacturing Module – Personal Configuration Override Logic** – Added the ability to have alternative configuration settings load based on computer or employee log in value.
- **Universal Module – Specimen Type** – The specimen type drop down was set to load based on the description field which means only alpha order.

Added the sort order field in front of the alpha to allow for alternative sorting.

- **Manufacturing Quality Module – MFG Task/Product positioning on rework** – Modified the quality module for manufacturing. Changed to have the MSP position to the correct task that was scanned against from the LIS Scheduling rather than forcing the employee to know which main sales product had the task against it.
- **Admin Web Site – Accession Slide Count Maintenance – Control Required** – Added this flag to the screen to allow for the indication that a control slide is required with this protocol/stain.
- **Admin Web Site – Control Tissue Maintenance** – Created this screen to allow for the maintenance of control tissue. Control tissue is part of the control tracking portion of Assist and represents the types of tissue that can be placed on controls (ex. Tonsil, Liver, etc.). These are kept separate from specimen types to provide more functionality.
- **Admin Web Site – Control Pretreatment Maintenance** – Created this maintenance screen to allow for the creation of control pretreatment information. This data is part of the Assist control tracking feature set and represent any pretreatments that must be performed with control slides as part of antibody testing.
- **Admin Web Site – Antibody Master Maintenance** – Created this screen to allow for the maintenance of antibody master records. This data is part of the Assist control tracking feature set and represents the list of antibody “dictionaries” that can be in place in a laboratory.
- **Admin Web Site – Antibody Detection Kit Maintenance** – Created this screen to allow for the maintenance of antibody detection kits. This data is part of the Assist control tracking feature set and represents the detection kits that are part of the antibody/control methodologies used in laboratories.
- **Admin Web Site – Tissue Micro Array Maintenance** – Created this screen to allow for the maintenance of tissue micro arrays. This data is part of the Assist control tracking/antibody tracking feature set. It represents the

header level of tissue micro arrays where multiple tissue types are pulled from multiple tissue blocks to form an array.

- **Admin Web Site – Tissue Micro Array Details Maintenance** – Created this screen to allow for the maintenance of the details associated with a tissue micro array. For each TMA, there are the details of the various tissues that will make up the array. This detailed maintenance allows for the listing of the various “sub” tissues that make up the tissue micro array.
- **Admin Web Site – Control Prefix Maintenance** – Modified this screen to better handle the control prefix maintenance. Several new fields were added. The ability to control both next slide AND next block has been included. Also the prefix data has been cleaned up to include just the character values and a number of digits and notes.
- **Admin Web Site – Equipment Interface Protocol Routing** – Created this screen to allow for the maintenance of equipment interface/protocol mappings. This is part of the stain tracking feature set inside Assist and represents the ability to map protocols to different staining platforms. This allows for the policing of not accidentally submitting stains to the wrong staining platform if a site has multiple equipment profiles in place (ex. Omnis, Bond, Ventana).
- **Admin Web Site – Control Object Status Maintenance** – Created this maintenance screen to allow for the maintenance of control object status data. This data is part of the control tracking feature set in Assist. This allows for controls to be marked as available, consumed, destroyed, etc. For sites that need to explicitly track controls and how they have been used.
- **Admin Web Site – Material Type Maintenance – Suppress Doctor Orders Checkbox** – Added this check box to the material type maintenance screen. This allows for the suppression of doctor orders to be done to ensure that doctor orders are not accidentally submitted into Assist when a sample testing order is entered with a doctor order, if that material will not actually go to histology for processing (ex. Receipt of a unstained slide already with tissue).

- **Admin Web Site - Equipment Interface Maintenance** – Default Printer and Print Log Interface – Added the ability to indicate that an equipment interface will be a “log printing” interface rather than the automatic submission of data to a staining platform. For sites that do not have an interface, but still want to use the Stain Queue functionality, this allows for the printing of this “worklist” to relieve the stain queue.
- **Sample Testing – Suppress Doctor Orders Feature** – Added the ability to not send doctor orders into the Assist ordering portion of the application if the material type being received has been flagged as “doctor order suppressed” as outlined above under the Material Type Maintenance change.
- **Admin Web Site – Equipment Interface Maintenance – Auto Close Days** – Added a field for “Auto Close Days” to this maintenance screen. This will be used in the Stain Queue to indicate BY INTERFACE how far back to go for the purge of stain queue transactions that still have an open status. This is an attempt to cut down on “noise” if stains are not being released in a timely manner or have been abandoned.
- **Admin Web Site – Control Prefix Maintenance – Block Next Control Number** – Added this field to allow for the tracking of “next block number” in order to support control block tracking in addition to stains.
- **Stain Queue** – Modified the stain queue to support auto purging based on days back logic on the equipment interface. Also added a print log button to allow for the printing of stain queue logs. Modified the “flush” process to flush by interface type (i.e. staining platform). Added the equipment interface (i.e. staining platform) to the selection criteria to filter only one platform at a time for sites that use more than one staining system.
- **Universal Slide – Stain Tracking Changes** – Write stain at cassette print in addition to or instead of slide scan. The unique identifier that gets placed into the slide bar code has always worked based on the subsequent submission of a second stain against an accession/part. If multiple of the same types of protocol are issued all at once, the numeric tracking (i.e. 1,2,3 etc.) were not getting written because this generation was performed when the slide was scanned, not printed. The feature was moved to the

print routine to handle this with an extra check made at slide scan to also capture if it is not there from the print.

- **Admin Web Site – LIS Interface Conflicts Report** – Created this report to serve as a predictive report of when there could be conflicts with private labelling (i.e. alias values) of blocks/slides. The report will identify cases where multiple alias values have been entered into Assist so that employees can carefully review the conflicting data on the specimens to make sure that the data is accurate.
- **Admin Web Site – Object Type Maintenance – Uses Controls** – Added this check box to the maintenance screen to allow an object type to be identified as the type of object that has controls.
- **Admin Web Site – Object Control Maintenance** – Created this screen to allow for the maintenance and creation of control objects (i.e. cassettes and slides).
- **Interface Utility – LIS Conflicts** – Created a “robot” job to allow for the capture of LIS conflicts (as identified above under the “conflicts report”). This robot writes these same conflicts into an office queue for resolution and tracking.
- **Admin Web Site – LIS Interface Maintenance** – This screen had a couple of issues with the selection criteria. The “Active Only” check box was not working appropriately. It was ALWAYS pulling active only. The prefix criteria was also being ignored.
- **Universal Module – Time Tracking – Abandoned Time Buckets** – There can be situation where a login/logout combination of data gets abandoned which can cause spurious data with large time buckets. The logic had been put in place to to set the “to” date/time to the current date/time to reflect the active time buckets. This is causing issues with a TRUE abandoned bucket reflecting the current time as closure. Modified to ignore the time bucket based on a sanity check of 8 hours.
- **Admin Web Site – EpreDia P1000 Settings Details Report** – Created this report to provide visibility to the setting details that have been read into the

Assist database for sites that have integrated Assist/Epredia digital pathology

- **Admin Web Site – Epredia P1000 Settings Control Report** - Created this report to provide visibility to the settings control data that have been read into the Assist database for sites that have integrated Assist/Epredia digital pathology
- **Print Center – Requisition Label Screen** – Added a check box to allow the requisition to be set as free form entry.
- **Admin Web Site – LIS Interface Request Exceptions Report** – Created this report to show the exceptions that have been logged into the Assist LIS interface database table for sites that have an order request (i.e. doctor orders) interface live.
- **Admin Web Site – Epredia P1000 Profile Details Report** – Created this report to provide visibility to the profile details that have been read into the Assist database for sites that have integrated Assist/Epredia digital pathology.
- **Admin Web Site – Accession Prefix Maintenance – Digital Capable Checkbox** – Added this option to the maintenance screen to allow for filtering of prefixes based on whether or not they can participate in digital processing.
- **Admin Web Site – Specimen Type Maintenance – Digital Capable Checkbox** – Added this option to the maintenance screen to allow for the marking of specimen types to allow for specification of whether or not they can participate in digital processing.
- **Admin Web Site – Slide Protocol Maintenance** – Added fields for billing code and digital capable to support automated billing and digital processing.
- **Admin Web Site – Login Screen – Admin Flag** – The “administrator” check box under security was no longer stopping non-administrators from logging into the web site. Corrected this flaw to take performance back to the intended.

- **Admin Web Site – Specimen Type Diagnosis Maintenance** – Created this screen to allow for the maintenance of specimen type diagnosis information. This is part of the digital pathology portion of Assist and determines when a specimen type/protocol is expected to have an AI diagnosis before allowing for automated distribution to take place.
- **Admin Web Site – Diagnostic Source Version Maintenance** – Created this screen to allow for the maintenance of diagnostic source versions. These versions would represent the different versions of the artificial intelligence engines that are used for diagnoses cases and can be used with an effective date to determine which version was “active” at the point that a case/slide was diagnosed.
- **Universal Cassette – Grossing Capture** – Body Site Wildcard Logic over the LIS Patient Verification table – Added logic to allow for the marriage of the LIS Patient verification process to grossing notes. If the body site is provided via the LIS interface in the patient verification but the code for the site is included, this logic allows for the data to be mapped AFTER a wildcard found in the data.
- **Admin Web Site – Slide Protocol Maintenance – Print On Slide Field** – Added this field to allow for a difference between the human readable slide protocol value and the value that is printed on the slide. Previously, there was not the option to have separate values.
- **Admin Web Site – Accession Slide Count Maintenance – Print on Slide Protocol Logic and Sequence Number** – Modified the accession slide count maintenance screen to factor in the new “print on slide” field that was added to the slide protocol maintenance table.
- **Admin Web Site – Conference Room Schedule Listing** – Created this report to allow for the display of all meetings that are scheduled against conference rooms as part of the ESL feature set that is being introduced into Assist.

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- **Admin Web Site – Inventory Lot Issue Report – Inventory Code Criteria** – Added the inventory code to the selection criteria for this report.

- **Admin Web Site – Equipment Maintenance – ESL Tag Number** – Modified this maintenance screen to include the ability to indicate an electronic sales label to allow for PM information to automatically be sent to a tag attached to a piece of equipment.
- **Equipment Maintenance Module – ESL Tag Number** - Modified this maintenance tab to include the ability to indicate an electronic sales label to allow for PM information to automatically be sent to a tag attached to a piece of equipment.
- **Admin Web Site – ESL Link Audit Report** – Created this report to provide visibility to the ESL links that have been performed over time. It shows what cases have been assigned to a tag over time and how a tag has been used.
- **Scoreboard – Embedding Production Totals – Start/End Time** – Changed the scoreboard view to allow for embedding data to show start/end times rather than just “today” or “hours back”.
- **Sample Testing – Inbound/Outbound Transfer to Shipping** – Modified the view to send data from the inbound/outbound tab to the shipping tab.
- **Sample Testing – Inbound/Outbound Tab** – Tied the bulk comments into the communication log. This allows for more integration of the comments from the inbound/outbound tab.
- **Admin Web Site – Special Character Replacement Maintenance** – Created this screen to allow for the maintenance of special characters and how the characters can be replaced inside the various modules such as the digital dashboard.
- **Admin Web Site – Client Configuration Update Maintenance** – Updated this screen to clean it up visually and to add an “Active Only” flag to the selection criteria.
- **QC Module Extra Module** – Added logic to capture the launch of the software inside the application utilization tracking table to keep track of what computers are using the module.

- **Admin Web Site – Application Utilization Report** – Added the machine name, com port, and version number to the report to reflect the new fields that have been added to the tracking.
- **Admin Web Site – Installation History Report** – Cleaned up the criteria on this report to make it cleaner.
- **Admin Web Site – Application Utilization Report** – Added an export button and added a “detail/summary” toggle to provide two different views of the data.
- **Admin Web Site – Auto Update Bulk Update Screen** – Created this screen to allow for the bulk update of all of the data set for the auto update feature of Assist to more efficiently mark all of the records that need to be updated.
- **Warehouse Module – Application Utilization Tracking** – Added the ability to track the launch of the module by writing records into the application utilization tracking table.
- **Sample Testing Module – Application Utilization Tracking** – Added the ability to track the launch of the module by writing records into the application utilization tracking table.
- **Admin Web Site – Accessioning/Distribution TAT Report** – There was an issue with the calculation on the running total. It was appending data instead of adding which was throwing off all the data on the report. Fixed this calculation issue.
- **Universal Module** - Added logic to capture the launch of the software inside the application utilization tracking table to keep track of what computers are using the module.
- **Universal Slide – Doctor Order** – Added a sort order choice so that an employee can have doctor orders print in order date or by accession number order.
- **Universal Cassette – Cassette Queue** – Modified this routine to allow for the printing of specimen class information on a cassette. This ability existed

in the legacy cassette queue but had not been brought forward into the universal.

- **Admin Web Site – Inventory Transaction Costs** – Created this new report to provide a view of inventory and the transactional costs associated with the items.