

## APPENDIX A: Cumulative Updates Included in CGM LABDAQ since LABDAQ v4 (2017)

Below is a summary of the key improvements that have been introduced into CGM LABDAQ since 2017, in addition to those set out above that were introduced in CGM LABDAQ v20.5.

### 1. Database Improvements

A database change from Oracle to Microsoft SQL Server brings additional value through:

- a. an average 25% performance improvement when importing and exporting files within:
  - i. Patient Demographics
  - ii. Orders
  - iii. Results
- b. simplifying database licensing when implementing within virtual environments
- c. mitigating future ongoing third party license cost increases

### 2. New User Experience

- *Customizable Home Screen 'Tiles' with Alerts and Drilldown for Easier Navigation and Troubleshooting*
  - **Customizable By User**
    - Users can create and configure their own Tiles based on the areas they visit most often
      - For example, a Tile for: each Analyzer, Interface Review, Report Dispatch Queue, Control Management, and Memorized Reports
  - **Alerts** on the Tiles show areas that require attention
  - **Drilldown** enables a user to troubleshoot directly from the home screen Tile
    - Users can access each area individually to troubleshoot
- *Reports and Management Review - Easier and Faster Access*
  - Every Report and Management Review query can be memorized
  - Reports can be tailored to each individual User's need
  - Saves time in repeating queries and setting up filters

### 3. New HL7 Interface Monitor With Alerts

- Monitors all HL7 import and export activities
- Finds and alerts Users on any transmission errors immediately to avoid delays

### 4. General Workflow Improvements:

- All users:
  - Real-time calculations appear immediately upon test result entry (instead of waiting for results to be accepted)
  - Results History
    - Review result history with one click
  - Orderless QC
    - Ordering daily QC is no longer needed
    - Requisitions can be bypassed when running controls
    - Saves time
- Toxicology and Pain Management:
  - For Drug Classes, new Rules automatically review the number of Drug Classes to be run and automatically assigns the correct G Code for accurate and timely Medicare CPT® Code assignment
- For Laboratories With Multiple Providers and Locations to Manage:
  - Settings can be applied to multiple Providers and Locations at once to avoid having to manage them one by one, with a new Batch Update feature

5. Lab IQ For Fast Insight Into Productivity
  - Review, present and filter operational data such as volume and turnaround time
  - Various different formats provided including graphs, charts and tables
  - Trends can be marked and tracked
6. Multiple Time Zone Support
  - Support across time zones where the application is deployed in multiple locations
  - Provides confidence in your time stamps and turnaround time reports.
7. Reagent and Inventory Management
  - Manage and Track Reagents
    - Ensure expiration is carefully monitored
    - Catch potentially expired lots before they occur
    - Receive reorder and expiration alerts
  - Manage and Track Other Point of Use Inventory
    - For example, consumables such as gloves or needles
    - Receive reorder alerts
8. Specimen Storage Tracking
  - Accurately track stored specimens
  - Provides easier process for retesting and disposal in one system
9. Automated Workflow Testing Steps Based On Results
  - For certain testing (molecular testing for example) samples are moved automatically through to the correct next step based on the results of the previous step
  - Simplify workflows where multiple intermediate steps are part of an overall process to generate a reportable result.
  - Quickly determine what steps for various workflows are pending and build plate maps.
10. Gender Enhancements
  - As various States require labs and EMRs to report on additional gender data (for example where a patient's gender identity is different from their biological gender and both must be captured correctly), LABDAQ has been extensively enhanced to support multiple genders.
    - LABDAQ users can now define their own genders, to accurately reflect a patient gender based on their state or other specific requirements
    - This support matches Medicare requirements
  - This support is extensive throughout LABDAQ
11. Operational monitoring ability: Turnaround Time Monitoring for Pending Samples
  - Turnaround Time information can now be added to the Requisitions tab of Manager Review
  - This enables lab managers and directors to review on one screen whether their samples that are in pending status are predicted to meet their target Turnaround Time (as set by the lab)
  - This also provides Turnaround Time information for panels that have been run that require approvals

## **12. Manager Review is now “Lab Insights” and includes Turnaround Time Monitoring for Pending Samples**

- Turnaround Time information can now be added to the Requisitions tab of Lab Insights
- This enables lab managers and directors to review on one screen whether their samples that are in pending status are predicted to meet their target Turnaround Time (as set by the lab)

- This also provides Turnaround Time information for panels that have been run that require approvals

#### **Perform Microbiology Tests on a PCR Instrument**

- With the ability to easily use PCR instruments to perform microbiology testing, and identify Isolates and their Sensitivity/Resistance Based on PCR results that was introduced in 23.
- LABDAQ can now report isolates and medication sensitivity, after ruling out known genetic resistance markers, from PCR testing.
- This is enabled by a new PCR Linking module

#### **LAB IQ – Profit View**

- Our LAB IQ analytic module now includes a Monthly Financial Trends capability that shows the profitability of each panel by displaying reimbursement minus cost.

#### **Inventory Improvements**

- Barcodes can now be scanned to add new lots in Inventory Maintenance.
- Inventory looks up by manufacturer is now available
- Email Alerts can now be set up to bring attention to low inventory
- set a second level of "In-Use Expiration" for reagents that have been opened and added to an analyzer for more accurate tracking of reagent viability
- edit lot numbers and expiration dates of consumable and reagent shipments
- delete inventory that was in use

#### **Improvements to logging in include the ability to:**

- Select your choice of locations at login in Workstation Setup so that you can set whether the user would see:
  - Only the workstation's default Location
  - All of the user's Location
  - All of the user's performing sites
  - All of the user's non-performing sites

This can be different for each workstation to especially help users who log in remotely.

#### **Other Improvements**

- Performance improvements where Autoverification now has the option to run on up to 10 parallel tracks, or "threads."
- Ability to add microbiology panels to a workflow
- Ability to import control tests and ranges into the Compendium Importer
- Accessibility of Result Notes from Lab Insights & Requisition Maintenance without having to add or change a Result Note by opening Review Results for any test that has a result
- Audit logging enhancements for more granularity of auditable actions within LABDAQ

