Managing & Integrating POC Devices

Point of care testing programs have grown rapidly across hospitals, clinics, and ambulatory settings. What once involved a few devices in controlled laboratory environments now includes hundreds or thousands of instruments distributed across patient rooms, departments, and off-site locations.

Managing this environment requires more than simple connectivity. Laboratories must maintain device visibility, manage thousands of operators, ensure accurate result reporting, and support regulatory compliance across the entire network.

TELCOR QML was built specifically for this challenge. The platform consolidates device interfaces, standardizes data integration, and gives laboratories centralized control over their entire point of care testing program.

One Platform for Point of Care Connectivity

Point of care devices come from many manufacturers, often requiring different communication methods even within the same vendor's product line. TELCOR QML® simplifies this complexity by consolidating device connectivity into a single platform.

Device-specific connectivity modules communicate directly with instruments or their device management systems and normalize the data into a consistent format for downstream systems.

With TELCOR QML, organizations can:

- Integrate diverse point of care devices through a unified middleware platform.
- Standardize result data before sending it to the LIS or EMR.
- Eliminate the need for multiple device-specific interfaces.
- Reduce the operational burden of managing inconsistent manufacturer data formats.

Automated result interfacing also eliminates manual charting, reducing transcription errors and improving clinical workflow efficiency.

Simplify Operator Management at Scale

Unlike central laboratory testing where only a small number of trained staff operate instruments, point of care programs may involve thousands of clinicians performing testing across hundreds of devices.

Maintaining operator lists manually on individual devices is inefficient and difficult to manage.

TELCOR QML centralizes operator management and automatically distributes operator lists to the appropriate devices. The system also enforces testing privileges so that only authorized operators can perform testing on specific devices.

Benefits include:

- Centralized management of operator credentials.
- Automatic distribution of operator lists to devices.
- Location-based testing privileges.
- Reduced administrative workload for laboratory staff.

Visibility and Control Across Hundreds or Thousands of Devices

Point of care devices are highly mobile. Instruments move between patient rooms, departments, and ambulatory locations, often without direct laboratory oversight. As testing expands, maintaining visibility and control becomes increasingly difficult.

TELCOR QML provides centralized oversight across the entire testing environment.

- Assign devices to specific hospital units, departments, or clinics.
- Track devices across hospital and ambulatory locations.
- Maintain visibility into testing activity across the organization.
- Scale point of care programs without increasing operational complexity.

The result is greater confidence that devices are operating within the appropriate testing environment and producing reliable results.

Support Compliance and Quality Across the Testing Network

Maintaining compliance across distributed testing environments requires continuous oversight. TELCOR QML provides the tools laboratories need to monitor testing quality and maintain regulatory readiness.

Through intelligent mapping of patient registration locations to device locations, patient lists can be automatically distributed to devices to support positive patient identification during testing.

Quality and compliance tools include:

- Exception monitoring and reporting.
- CLIA-ready reports for regulatory oversight.
- Data mining and analytics for operational insight.
- Integrated QC management tools including Levey Jennings and Linearity graphs.

These capabilities help laboratories detect issues earlier, strengthen testing oversight, and maintain consistent quality across both hospital and ambulatory testing environments.

Conclusion

TELCOR QML brings connectivity, visibility, and operational control together in a single platform designed for modern point of care testing programs.

By consolidating device interfaces, automating operator management, and providing centralized oversight of devices and testing quality, TELCOR helps laboratories expand point of care testing while maintaining accuracy, efficiency, and compliance.

TELCOR QML Helps Laboratories:

✓ Consolidate point of care device connectivity.

✓ Eliminate manual result entry and reduce errors.

✓ Manage thousands of devices and operators with confidence.

✓ Strengthen compliance across hospital and ambulatory testing locations.

✓ Scale point of care testing programs efficiently.

"TELCOR continues to provide focus and support which are unsurpassed in the industry. It is through high company standards and continued quality support that we are able to confidently progress and expand our Point of Care environment as we approach future projects."

Laboratory Information Service
Regional Florida Health System