Laboratory Automation and Instrument Communication

- Improved income generation through service flexibility and scalability, cost savings through network asset sharing
- Centralised resilient solution
- Greater IT connectivity and efficiencies; supportive of the QIPP agenda
- No requirement for a PC next to the device
- Maximises bench space in support of LEAN methodology and reduces hardware costs
- Low cost addition and development of analyser connections
- Scalable and future proofed solution with minimal system ownership costs
- Simple configuration and user definable rules
- Reduction in effort via user definable process automation
- Enhanced Quality control features
- Flexible and automated validation options
- Improved patient care through reduction in turnaround times
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Clinisys
Two Bridges
Guildford Street
Chertsey
Surrey
KT16 9AU

Phone: +44 (0)1932 581 200
Fax: +44 (0)1932 581 301
enquiries@clinisys.co.uk

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Setting new standards in analyser integration

CliniSys provides the advanced and innovative analyser interfacing solution; SampleNet. SampleNet is a windows based application providing connectivity between all analytical platforms within and outwith the laboratory environment and your laboratory information system.

Being device platform independent, SampleNet's ability to use multiple protocols concurrently, including industry standards HL7 and ASTM and proprietary protocols, makes SampleNet the most versatile analyser interfacing engine in the industry. SampleNet offers the user the ability to route data to one or more outbound connections, enabling multiple hosts to receive instrument data. SampleNet also offers test-code, error-code, and fluid-code mapping, easing the burden on the incumbent laboratory information system.

Delivering Service Solution Needs

SampleNet has been developed in direct response to the very latest pathology business demands to support “end to end” IT connectivity and service consolidation. Being one of the key requirements identified in Lord Carter’s review, SampleNet aims to support and enable effective service reconfiguration and deliver patient centric, value and evidence based services. SampleNet also:

- enables a return on investment in automation by freeing up skilled biomedical scientists and improving turnaround times;
- centrally controls analysers and provides multiple access points for operation and validation;
- proactively monitors analyser availability and performance given the prevalence of remote devices;
- allows analytical platforms to be shared between multiple disciplines or LIMS;
- provides a backup facility which allows the analysers to be run even if the LIMS is unavailable;
- supports the emerging prevalence for “hub” and “spoke” laboratories in line with network consolidation.

SampleNet contains a dedicated haematology module specifically focused on haematology workflows and includes a haematology specific query and consultation screen. Diff counter functionality and scattergrams are also fully supported.

Historical results can also be displayed in a cumulative view for ease of comparison.

Architecture Overview

SampleNet’s architectural design provides a central and consolidated user interface to manage all connected devices whether in the lab or located remotely and to review all associated results. If the sample has visited multiple instruments, all results are clearly displayed in a single screen. Designed to facilitate communication between laboratory information systems and all analytical peripherals, SampleNet controls the routing of samples to one or more instruments as required.

Communication

SampleNet allows simultaneous support of multiple communication protocols and standards such as ASTM, HL7 or proprietary protocols. With the provision of dedicated configurable coding systems, SampleNet supports flexible mapping between local and external codes and identifiers.

The number of instruments simultaneously controlled is unlimited and current systems routinely connect to 100 devices. Any error in communication is logged for review and triggers a visual display on the SampleNet communications status dashboard, allowing immediate user intervention.

Network Compatibility

In support of the emerging prevalence for the centralisation for specialist tests as well as for pathology “hub” laboratories and the necessity to link to the other “spoke” labs in the network, SampleNet’s ability to interface and communicate with all devices (pre and post analytics) whether on a local, regional or national basis is proving invaluable to our customers.

Quality Control

SampleNet contains an integral Quality Control module providing comprehensive functionally including Westguard checking (configurable per instrument channel) and the displaying of Levey-Jennings plots both in tabular and graphical formats. Any and all QC errors will be clearly flagged and displayed on validation and QC results can be reviewed using user definable sorting criteria allowing comparison between instruments across controls. SampleNet also contains a QC specific rules base streamlining some of the common processes.

The user is also free to download QC results to other commercial QC packages or integrate incumbent QC packages such as “Biorad Unity Pro” and “QC Today” as required.

Review & Edit

SampleNet controls routing of samples to one or more instruments and provides a single consolidated user interface to view all results. Results per sample are clearly displayed and easily accessible centrally by users. SampleNet supports the full range of available results including numerical, textual, images and compound data. Should the sample be processed on multiple devices, all results are still displayed together on a single screen. Historical results can also be displayed in a cumulative view for ease of comparison.

SampleNet provides true flexibility to the user allowing a rerun, revert to previous run, and manual validation and transfer to LIMS. This can be achieved either for individual tests or for whole samples as required. A full delta checking facility augmented by the auto-validation rules base is also provided as standard.

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