RFP for implementation of diagnostic connectivity for Cepheid GeneXpert devices in Ukraine

Date posted: 24 February 2017

Background

In recent years Ukraine has implemented 53 Cepheid GeneXpert devices for the molecular diagnosis of Tuberculosis (TB). This diagnostic device is capable of producing electronic test information but they currently work standalone and are not connected. Results are mostly reported via paper based systems using manual transcription. This limits the potential to maximize patient care and program management.

Challenge TB (CTB), USAID's funded 5-year global program to decrease tuberculosis (TB) mortality and morbidity in high burdened countries supports the national roll-out of diagnostic connectivity in Ukraine and request suitable candidates to react to this RFP.

Objective of RFP

To implement diagnostic connectivity for 53 Cepheid GeneXpert devices in Ukraine to facilitate the automatic transmission and utilization of diagnostic data for a variety of users.

Technical specifications

The proposed diagnostic connectivity solution should consist of connectivity hardware (router/modem) to allow the automatic transmission of data from a Cepheid GeneXpert device to a server and a software platform to read and interpret data.

Connectivity hardware requirements

The proposed solution should use durable connectivity hardware and easy to maintain data or airtime plans that restrict excessive data use and can be billed centrally to transfer data from the device to the server/software platform.

Software platform requirements

Access management for user/group

The proposed solution should be capable of defining access and roles to certain user (groups).

Custom data field collection

The proposed solution should be capable to collect custom data fields when a GeneXpert test takes place to generate key indicators as defined by the Ministry of Health (MOH)/National TB Program (NTP) (e.g. HIV status, reason for GeneXpert investigation, phone number). This will enhance the capacity of the NTP to generate performance

indicators and provide data needed for several of the top 10 indicators of the WHO End TB Strategy.

Visual device management and remote monitoring
The proposed solution should have an online accessible dashboard that provides an overview of the facilities, devices and commodities in the diagnostic network, test and error result information from all GeneXpert devices to allow for more effective use of the capacity of machines.

User-friendly, easily adjustable automatic reporting
The proposed solution should be capable of creating required national/regional (weekly/monthly/quarterly) reports automatically. Next to these required reports, the proposed solution should be able to create individual reports based on user or stakeholder needs.

User-friendly, easily adjustable real time notifications
The proposed solution should be capable of sending (automatic) real time customizable notification messages via SMS, email or other channels based on triggers (e.g., test result, GeneXpert status) to stakeholders or systems.

Integration and interoperability with other systems
The proposed solution should have an API interface to allow automatic integration of test results in LIMS, patient management system (e.g., eTB manager / openMRS), surveillance system (DHIS2) or other electronic registers reducing staff time, transcription errors and to greatly facilitate M&E processes.

Extra: Multi device support
It is an added value when the proposed solution is able to connect other diagnostic devices (both TB and/or other diseases).

Extra: Inventory management
It is an added value when the proposed solution is capable of inventory management, e.g., showing cartridges at hand at site and central-level to be able to anticipate stock-out dates, support forecasting of cartridges and prevent expiry of cartridges.

Extra: Maintenance, calibration and warranty tracking
It is an added value when the proposed solution is capable to record service, warranty and maintenance events. Functionalities include monitoring (mal)function of machines, planning of maintenance events and timely calibration.

Other specifications

Data ownership and security arrangements
A data usage agreement between the software provider and the MOH/NTP needs to be set up that:

- Assigns ownership of all data to the MOH/NTP

- Describes in detail the planned storage and security of the data and any use of the data by the software provider
- Ensures that data stays confidential and is not disclosed to unauthorized users or by the software provider outside of the agreement

Local ownership and capacity building
Local ownership and sustainability of the proposed solution should be ensured by building capacity during trainings and/or workshops for designated personnel at GeneXpert sites and at central level.

Installation and implementation
The candidate should be capable to provide support to roll-out and install the connectivity solution.

Timeline
The diagnostic connectivity provider should be able to roll-out the solution nationally within 6 months after contract signing.

Budget
The attached *Budget Template Diagnostic Connectivity* should be used.

Requirements for the submission of proposals
To complete the submission of the RFP please email by 8 March 2017 to tenders@path.org.

The submission should include:

- a description of the proposed solution including technical specifications/capabilities and timeline of activities during implementation
- a statement that the candidate can undertake the works required to implement the solution within the timeline and is available to provide long-term support following the initial implementation
- proof of the expertise, capacity and experience of the candidate (or his/her team) in the successful execution of comparable works
- Budgeted costs of the project itemized along the main budget lines using the attached *Budget Template Diagnostic Connectivity*

For any more clarification concerning this RFP please email tenders@path.org ahead of the closing date.