The specifications for the software / hardware system are as follows:

1. Act as a bridge software between GeneXpert Machine and MIS / Portal
2. Able to connect using TCP/IP sockets.
3. It should correctly communicate in both ASTM and HL7 Protocols.
4. Able to retain data indefinitely on Windows 11 Computer.
5. Able to support data revisions coming in from LIS software.
6. Able to send supplemental data including Patient Name, Age, and other parameters.
7. Be able to interpret data from GeneXpert Assays including Ultra and XDR.
8. Be able to transmit data into RESTful APIs.
9. Should provide secure connectivity using TLS 1.2+ security encryption or with a Security Gateway.
10. The Bridge software should run as a background service and needs to be in "Always On" state.
11. There needs to be centralized License management and Control suite for Volume License management.