

Sysmex XQ320

1. Clone/Copy the xq320 driver from: https://github.com/HISMalawi/mlab_drivers onto the server
2. Navigate to xq320 directory and do: `npm install` .Since servers do not have internet, you can do this on your local machine, make sure node version is the same as that on the server via `node -version` then copy `node_modules` to this directory on the server.
3. Navigate to `config/settings.json` file of xq320 and change `serverIp` to your server ip address and `localhost` on `lisPath` to actual server IP. `LisUser` and `lisPassword` to credentials used to log into iBLIS and `serverPort` to 5555
4. Open the file `xq320.js` via `vim xq320.js` and the last line as follows: where there is `settings.serverPort`, it should be 5555 and where there is `settings.serverIP` should be server ip address just the same as those you have set in `config/settings.json`
5. Do run this command to allow firewall on the server: `sudo ufw allow 5555/tcp`
6. In the xq320 folder, run this to start the driver: `node xq320.js` This should start the service and a successful start will show a log that it has started on this ip address and port which are set in the `config/settings.json`.
7. Go to the machine and give the machine network by connecting to it at the back via ethernet cable. Make sure the network is capable of DHCP as the machine automatically picks the IP address, there is no manual setting of network.
8. On the machine software interface, go to settings then TCP/IP connection and set the Host IP as the Server Ip which is the same as that in `config/settings.json` and the port to the port same as `serverPort` in `config/settings.json`
9. Save the TCP/IP connections. Upon saving and going back to main screen and clicking browser, bottom left of the screen has to show a green bar as shown in the picture below. This indicates that there is connection between the service that was run in step 4 and the machine. Without this not communication can happen. This also shows that network between machine and LAN is Ok via the ethernet.
10. Once this is ok, Register one FBC test in IBLIS, take the accession number without the facility code i.e starting from the number, go to the machine, let the lab tech do one dummy test but the test should have the sample id as the accession number of the just registered test(achieved by entered the accession number on the sample ID input field when recording the detail of the sample in the machine before testing it).
11. Once it has finished testing, click on explore on the top navigation on the machine, you will be presented with a list as below image. Select the test with the accession number you registered(should be highlighted blue), then click browser.
12. Browser will have the details of the test(results and the sample id i.e accession number) as shown in the picture in step 7. Click validate and once its validated, click on Output the HC Outpus. This should send results to the service and you can observe the log of the service running that was done in step 4.

13. If all is good, fetch the result in IBLIS for the test you registered and compare the results if the machine what is in the browser of step 9.
 14. Should some results be missing, check the mapping in config/xnseries.json.
 15. If every this is OK, make the service to auto start by doing: pm2 start xq320.js then pm2 save.
 16. To make the machine automatically sent the results once the machine finishes testing, do step 15 and 16.
 17. Making sure the test is auto validated once testing finishes by going to the machine interface Menu, then settings and choose the settings for auto validation (can be found in operational) as below image. Then click modify settings and set auto validation to be for all samples and save.
 18. Making sure the test results are automatically sent to iblis once testing finishes by going to the machine interface Menu, then settings and choose the settings for auto output (can be found in operational) as below image. Then click modify settings and make sure HC is select to as well to be an auto output destination as well and save. That's it. You can try testing an actual sample and verify if its sent to iblis automatically without you clicking on output as was done in step 10.
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