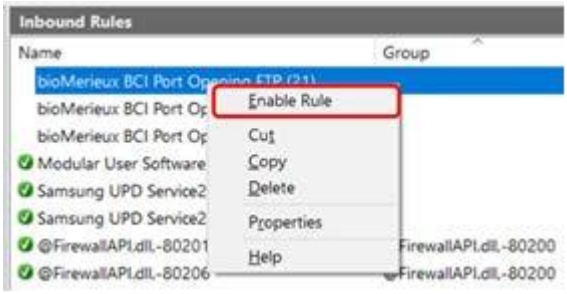
11.5.1. ACTION 1: Enable the Firewall Port Corresponding to the Desired Protocol (FTP, FTPS, SFTP)

1. Write "firewall" in the Windows search area and launch "Windows defender firewall with Advanced Security":

2. Select Inbound Rules.

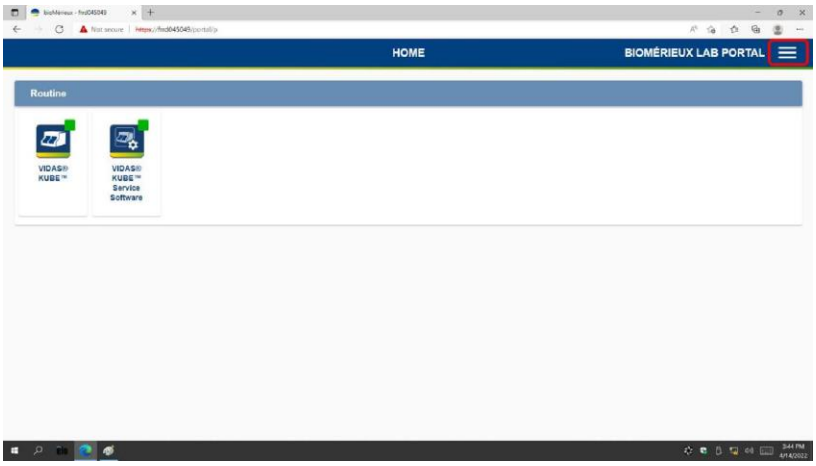
3. Right click the bioMérieux BCI Port Opening… corresponding to the desired protocol FTP, FTPS or SFTP (below example for FTP) and select Enable Rule:



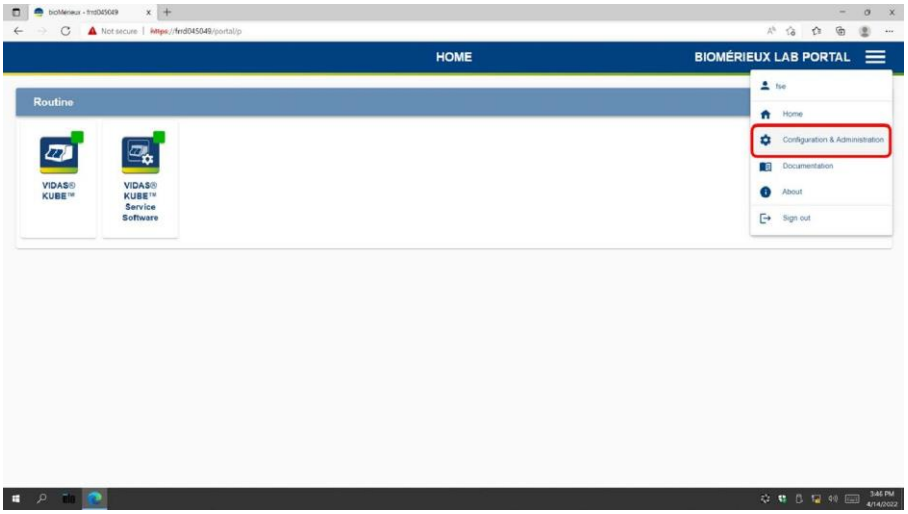
4. The rule is now enabled.

11.5.2. ACTION 2: Create the BCI Connect Configuration Corresponding to the Desired Protocol (FTP, FTPS, SFTP)

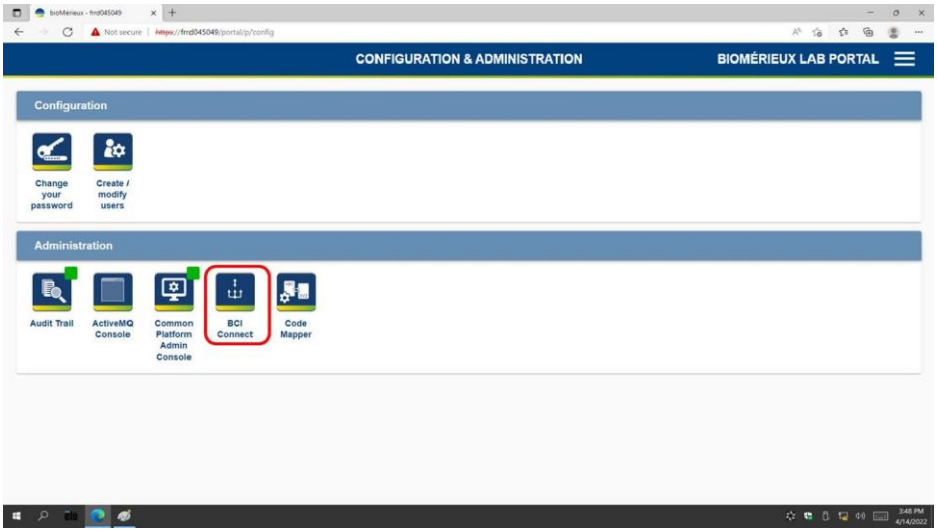
1. Click the triple bars pictogram.



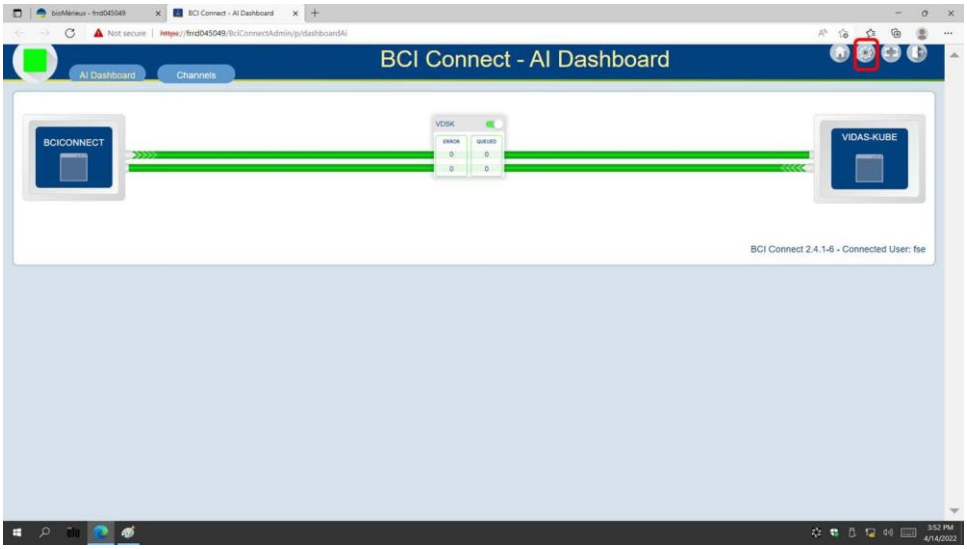
2. Click Configuration & Administration.



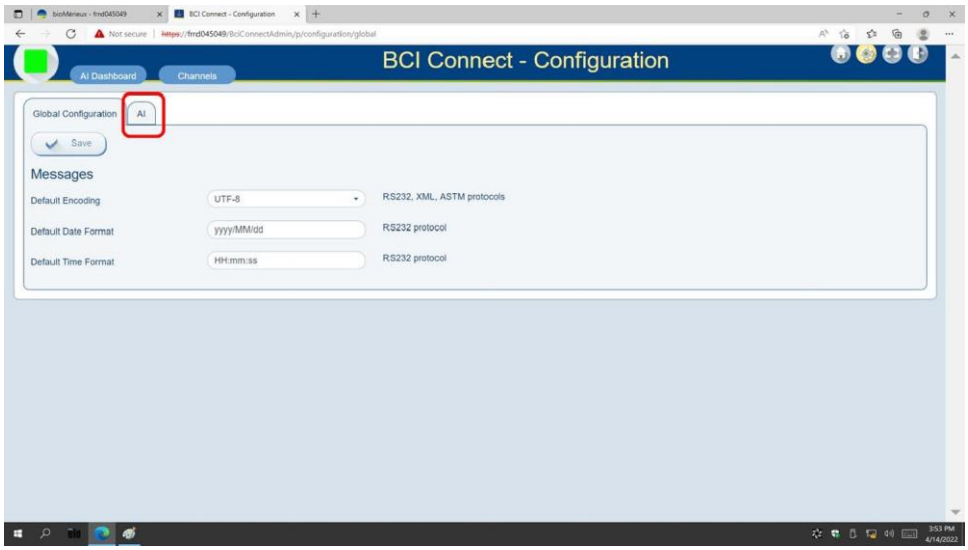
3. Click BCI Connect.



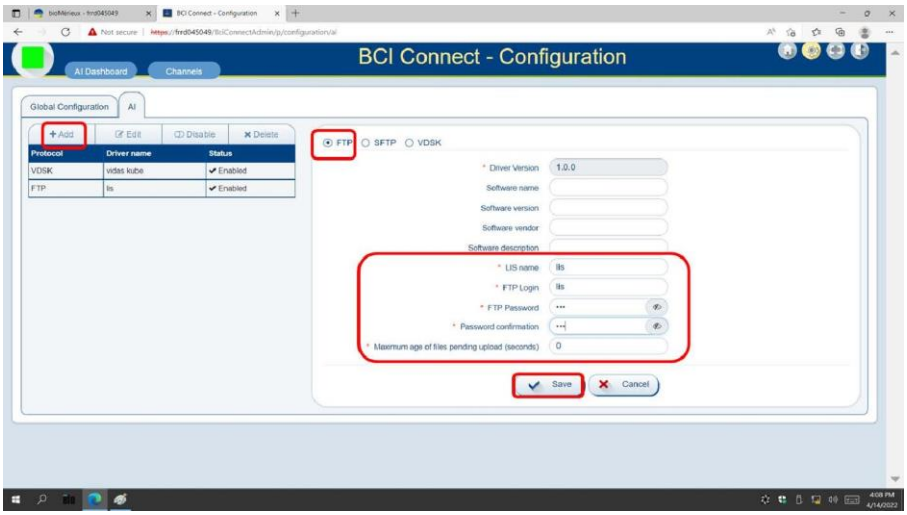
4. Click Configuration button (the link between the BCI CONNECT and the VIDAS System is already done by default).



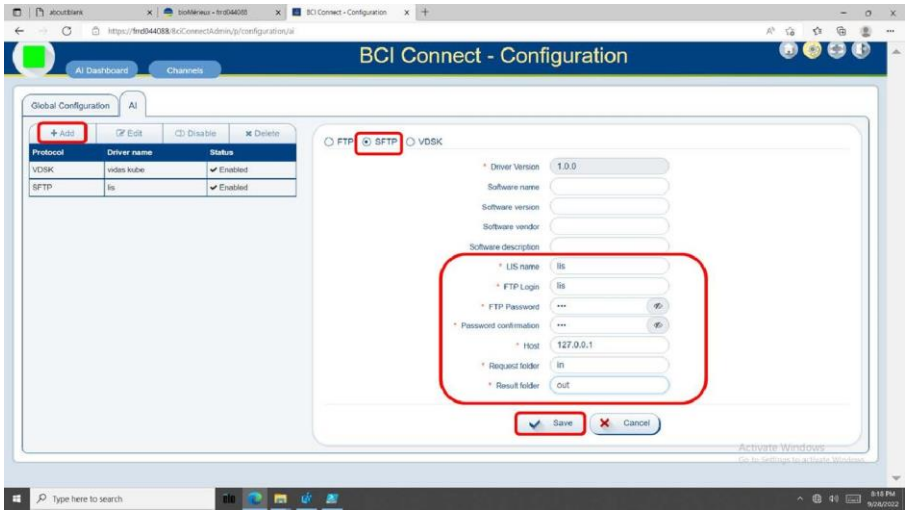
5. Click AI tab.



6. Click +Add:
    a. **For FTP or FTPS:** select FTP, enter the LIS credentials, then click Save.



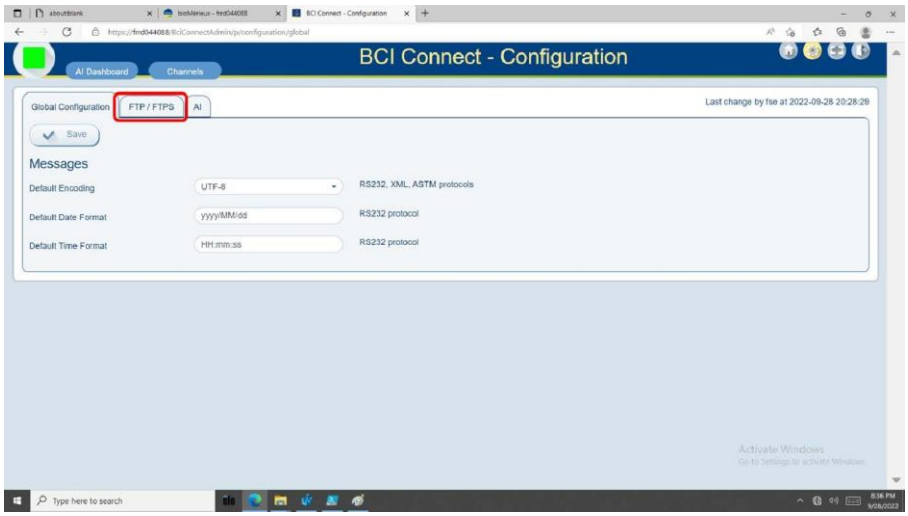
b. **For SFTP:** select SFTP, enter the LIS credentials, the host address of the SFTP server, the request folder (in), and the Result folder (out), then click Save.



7. After saving configuration in FTP or SFTP, click AI Dashboard:

8. In case of **FTP and SFTP**, the BCI Connect configuration is done. Close the "BCI Connect AI Dashboard" by clicking in the tab sign. Then, go on directly at ACTION 3.	8. In case of FTPS: Click “Configuration” button at top right. Then, go on step 9 below.
	

9. A new “FTP/FTPS” is displayed, click FTP/FTPS tab (**only FTPS**):



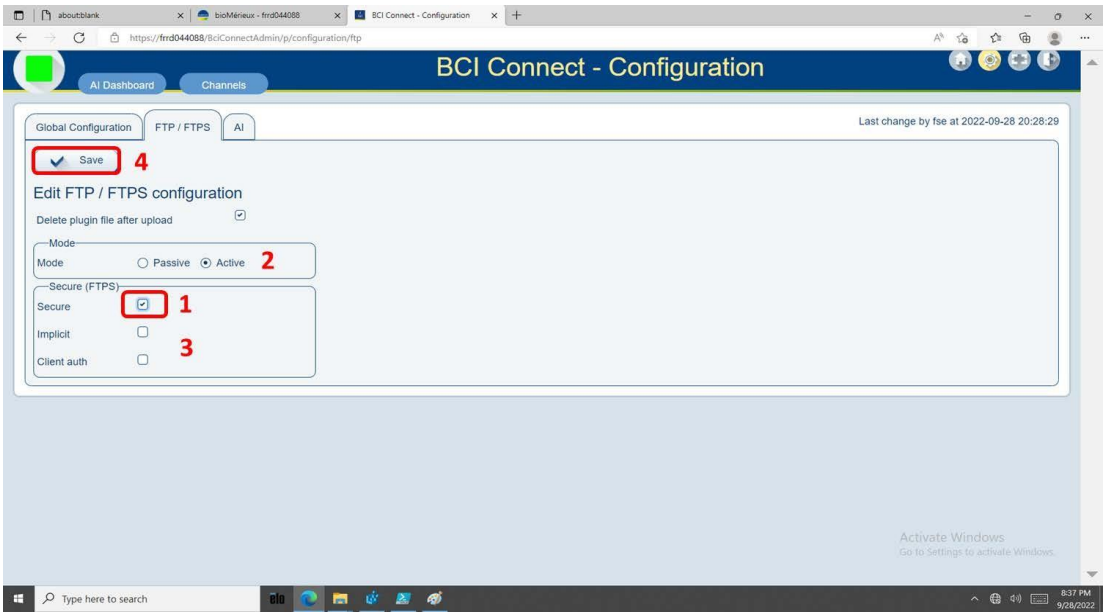
10. In the FTP/FTPS tab **(only FTPS):**

a. (1): Click “Secure”.

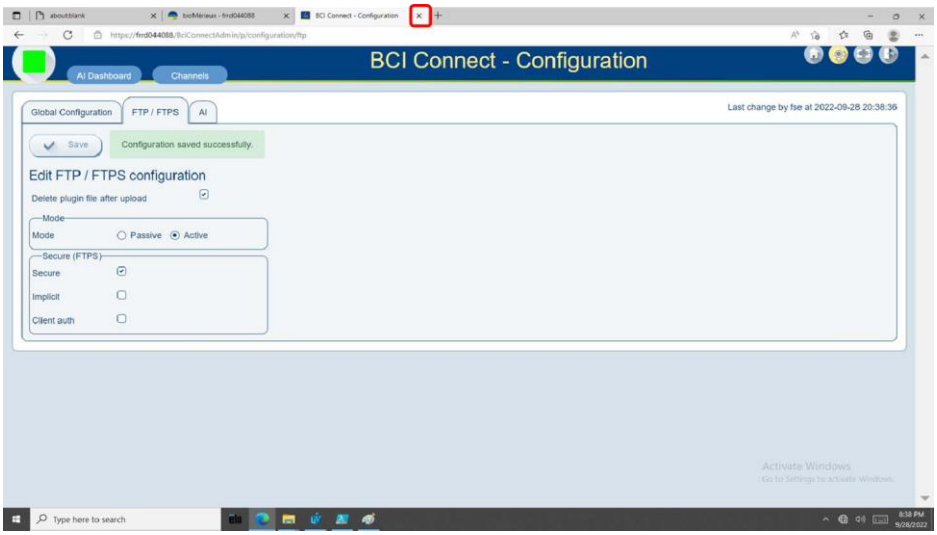
b. (2): Depending on the customer LIS configuration, select “Active” (by default) or “passive.

c. (3): Depending on the customer LIS configuration, select “implicit” (explicit by default) and/or “Client auth” (no authorization needed by default).

d. (4): Click “Save” when the configuration is ended.

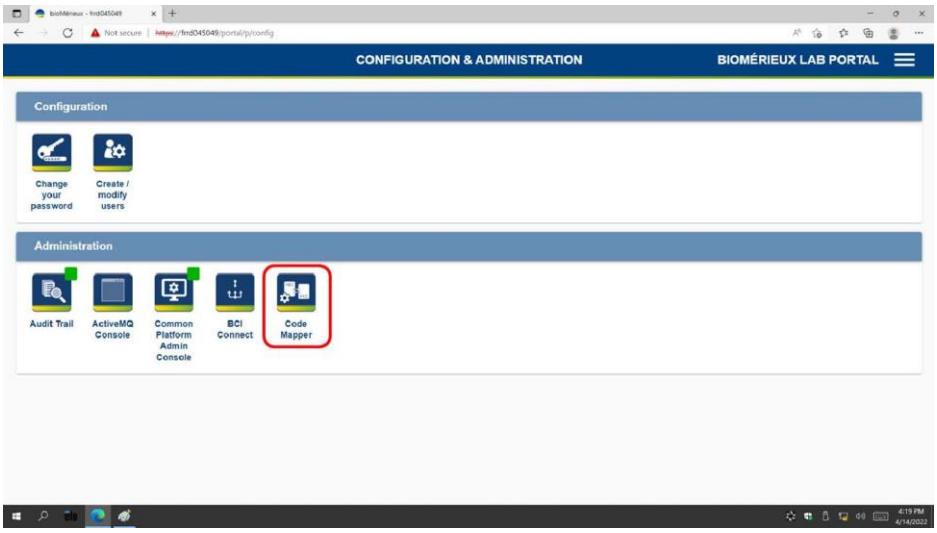


11. The configuration has been saved, close the “BCI Connect – AI Dashboard” by clicking in the tab sign (**only FTPS**):

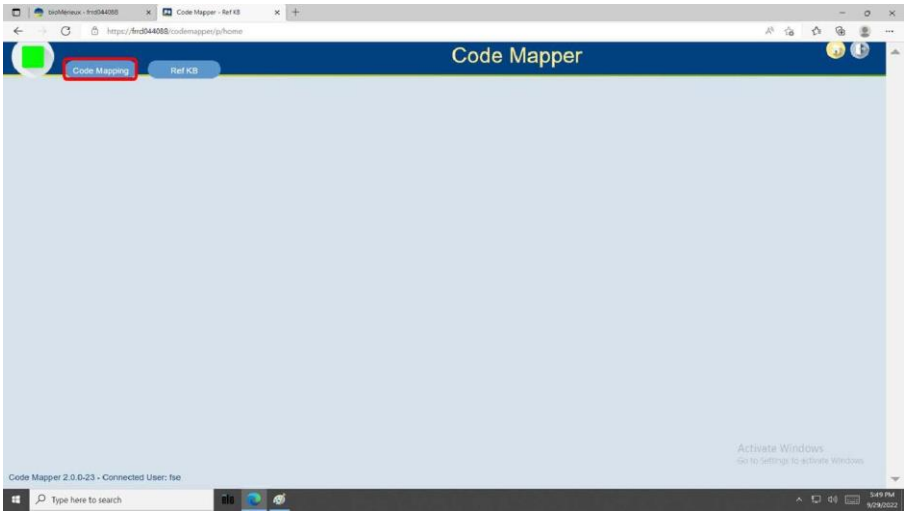


11.5.3. ACTION 3: Configure CodeMapper (FTP, FTPS, SFTP)

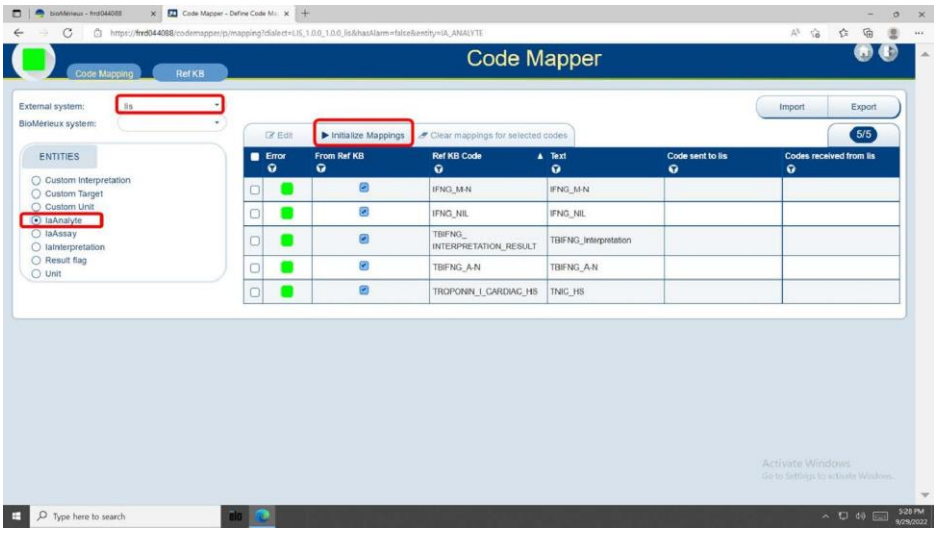
1. Click Code Mapper.



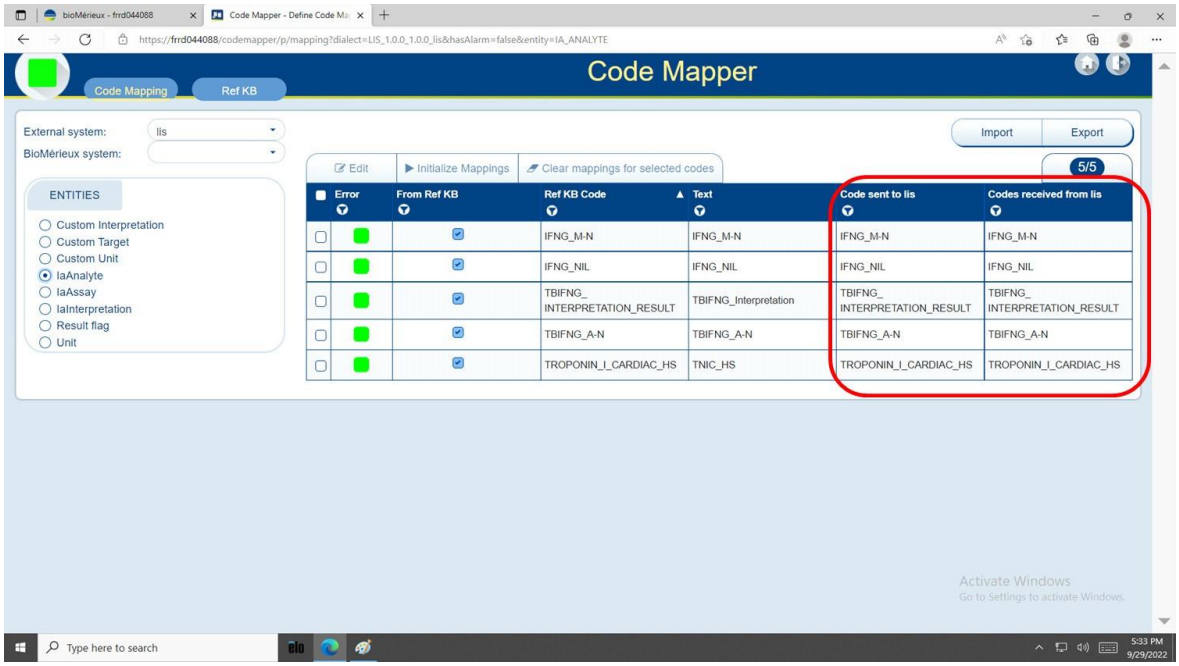
2. Click Code Mapping tab.



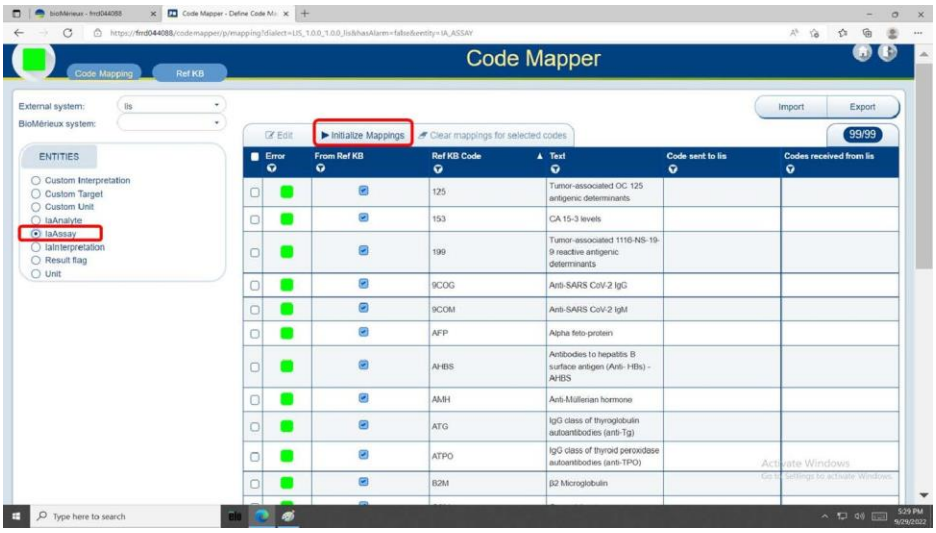
3. In External System, select the LIS name, in ENTITIES, select IaAnalyte, click “Initialize Mappings” and then “Initialize” in the popup which will be displayed to confirm.



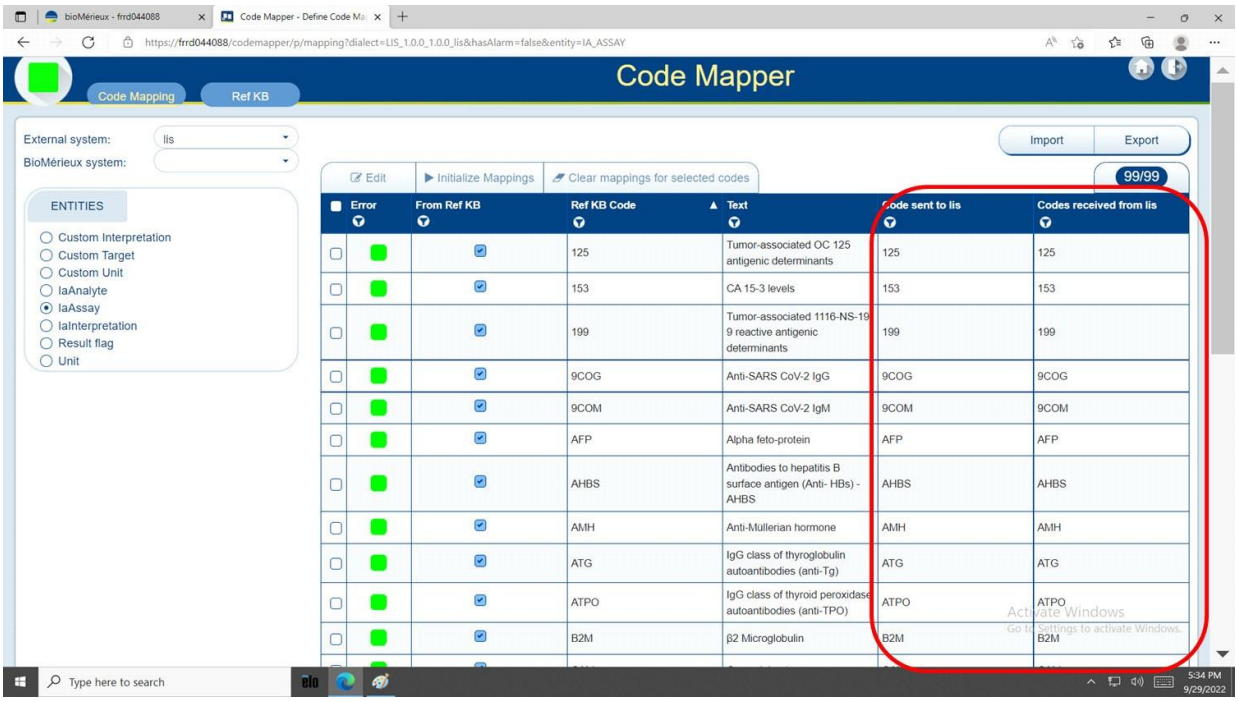
4. Check that the IaAnalyte array is filled in:



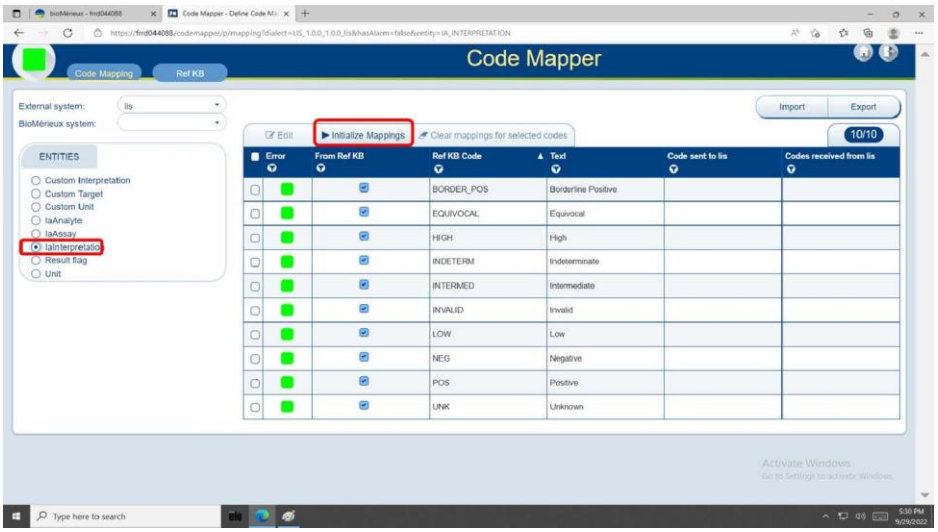
5. In ENTITIES, select IaAssay, click “Initialize Mappings” and then “Initialize” in the popup which will be displayed to confirm.



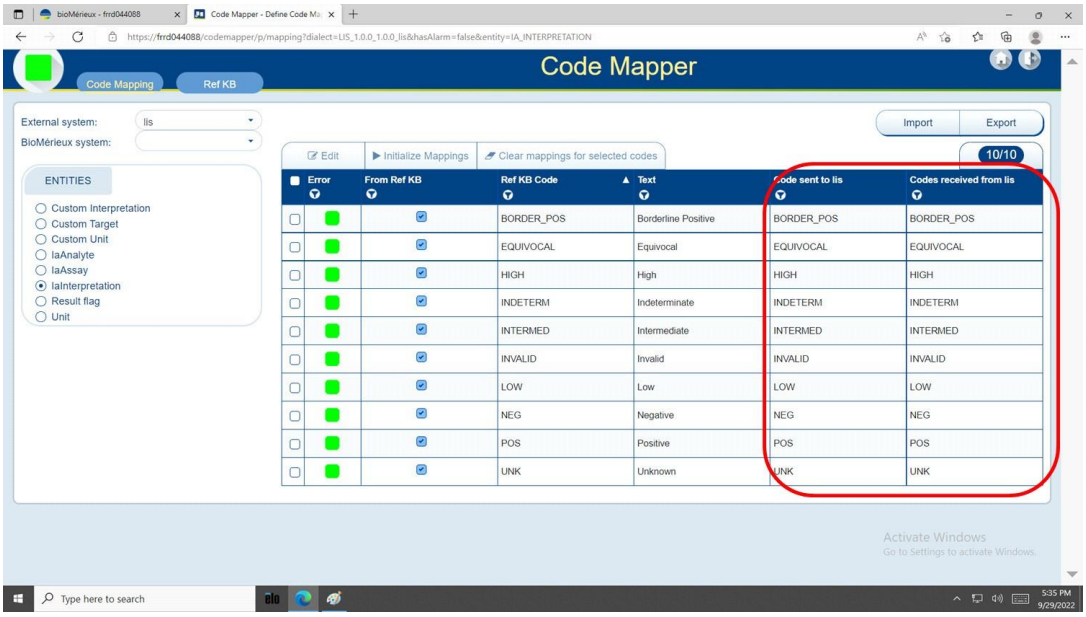
6. Check that the IaAssay array is filled in:



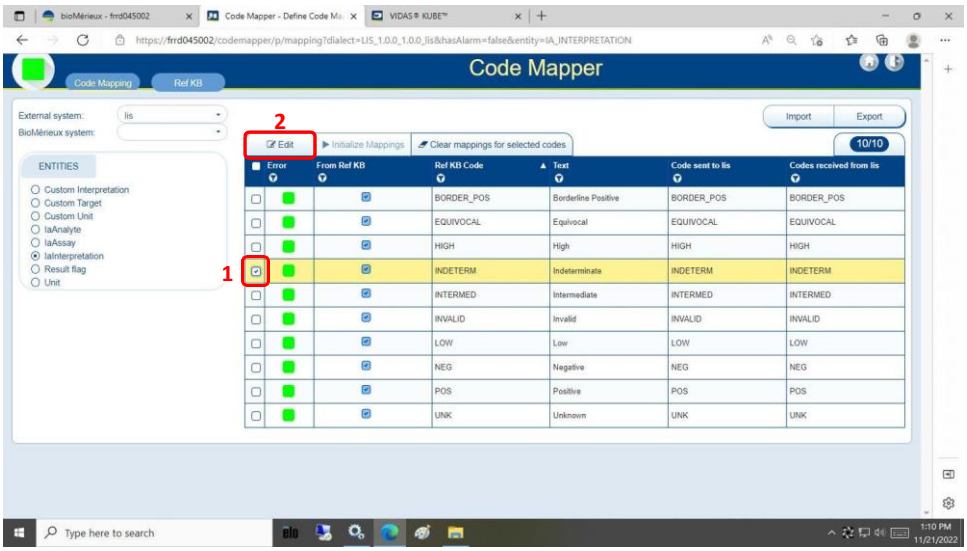
7. In ENTITIES, select IaInterpretation, click “Initialize Mappings” and then “Initialize” in the popup which will be displayed to confirm.



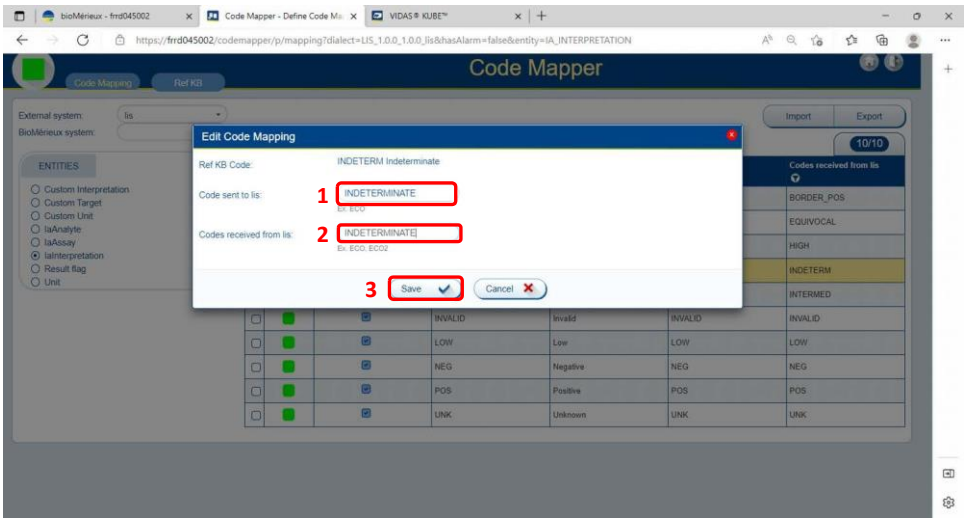
8. Check that the IaInterpretation array is filled in:



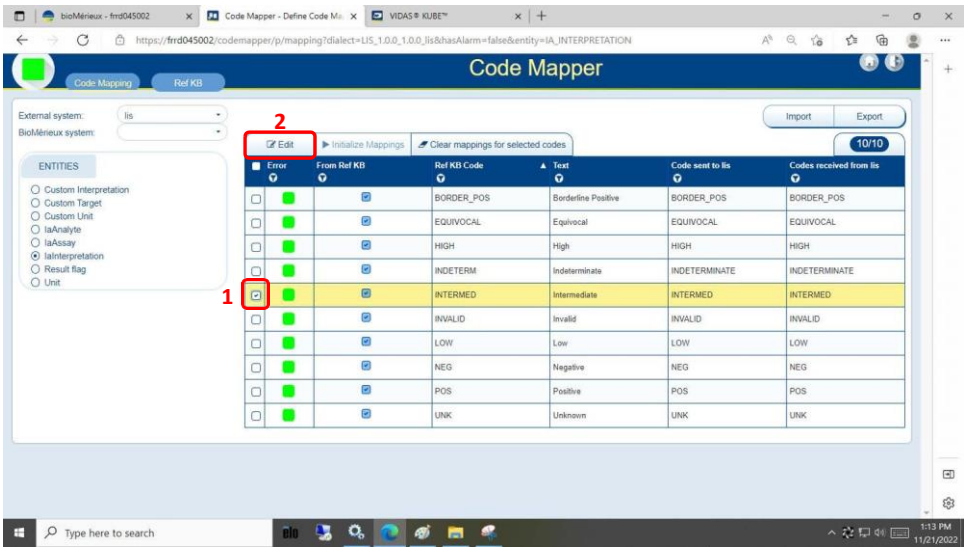
9. Select the "INDETERM" line (1), then click "Edit" (2).



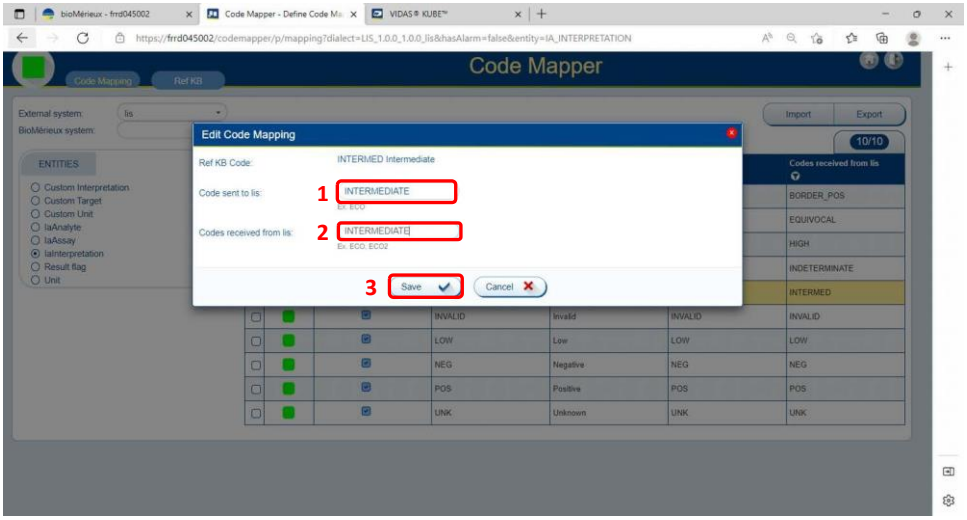
10. Modify the Code sent too lis into "INDETERMINATE" (1), modify the Codes received from lis into "INDETERMINATE" (2), then click "Save" (3).



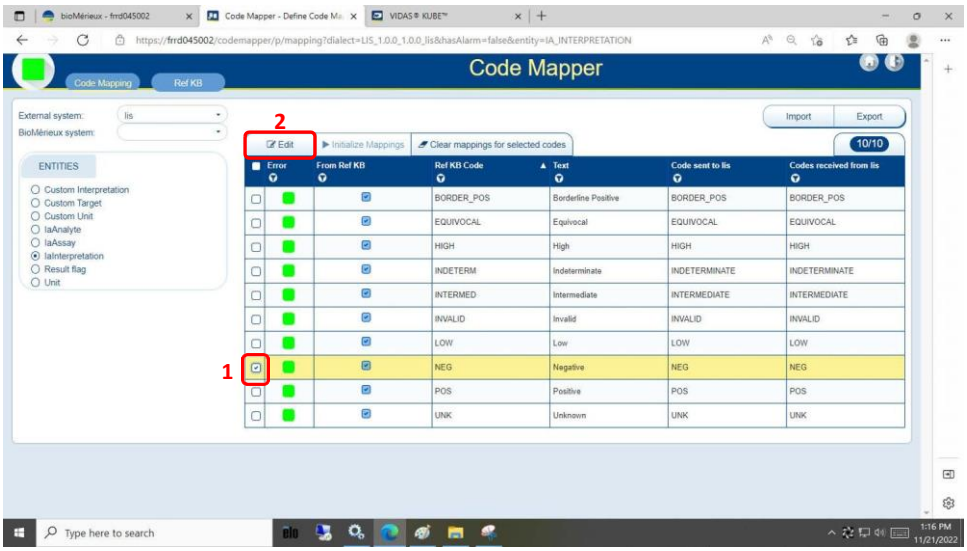
11. Select the "INTERMED" line (1), then click "Edit" (2).



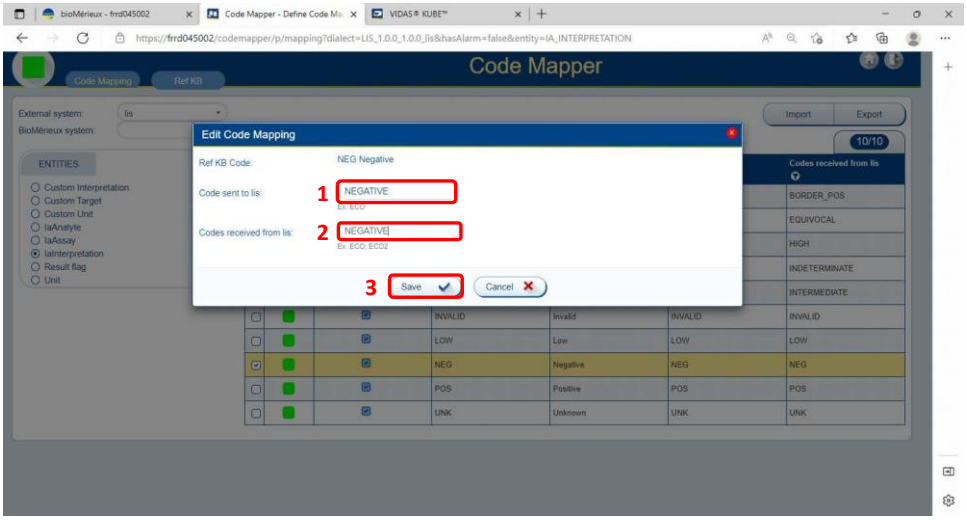
12. Modify the Code sent too lis into "INTERMEDIATE" (1), modify the Codes received from lis into "INTERMEDIATE" (2), then click "Save" (3)



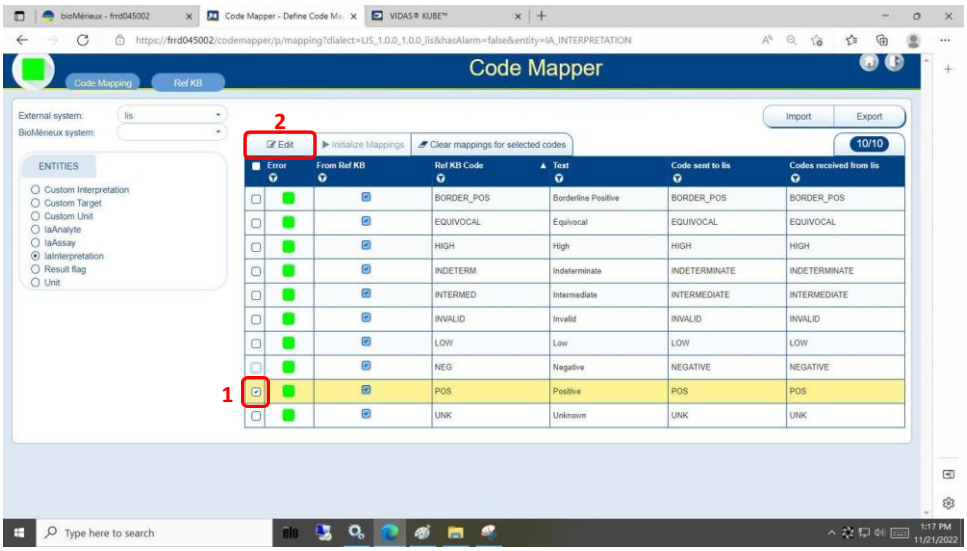
13. Select the "NEG" line (1), then click "Edit" (2).



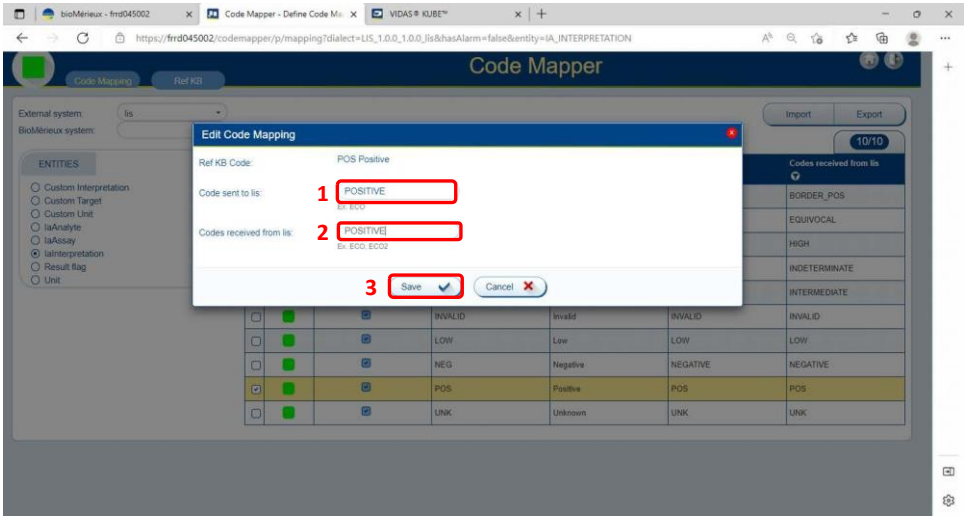
14. Modify the Code sent too lis into "NEGATIVE" (1), modify the Codes received from lis into "NEGATIVE" (2), then click "Save" (3).



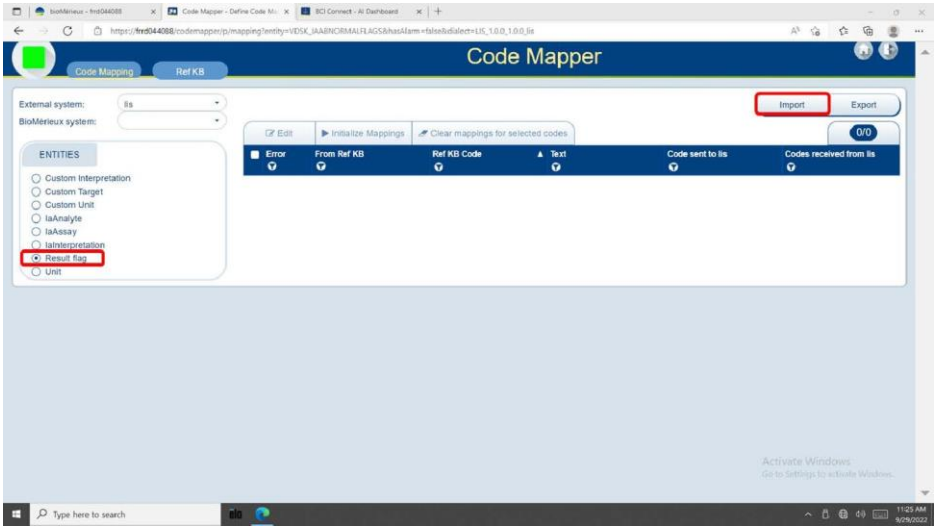
15. Select the "POS" line (1), then click "Edit" (2).



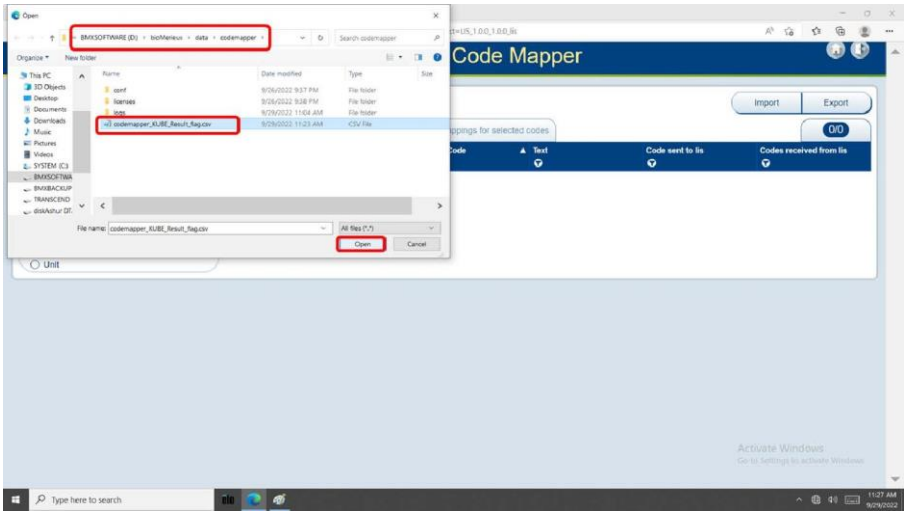
16. Modify the Code sent too lis into "POSITIVE" (1), modify the Codes received from lis into "POSITIVE" (2), then click "Save" (3).



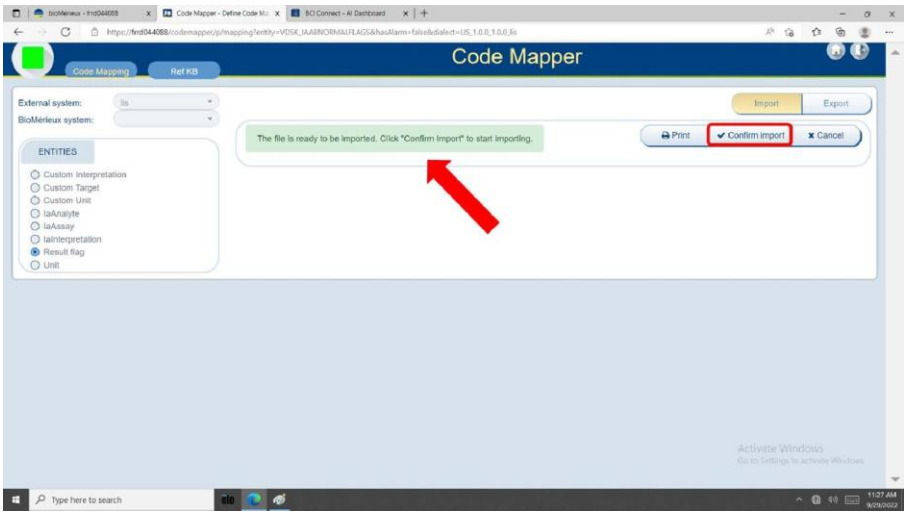
17. Open the file **D:\bioMerieux\data\codemapper\codemapper_VIDAS_KUBE_Result_flag_V1.csv** with notepad and change the name "lis" (in the first line of the file) by the name of the LIS/LIMS entered in ACTION 2: Create the BCI Connect Configuration Corresponding to the Desired Protocol (FTP, FTPS, SFTP) on page 11-10 (step 6), upon creation of the BCI Connect configuration. Save the file.
18. In ENTITIES, select Result flag then click "Import".



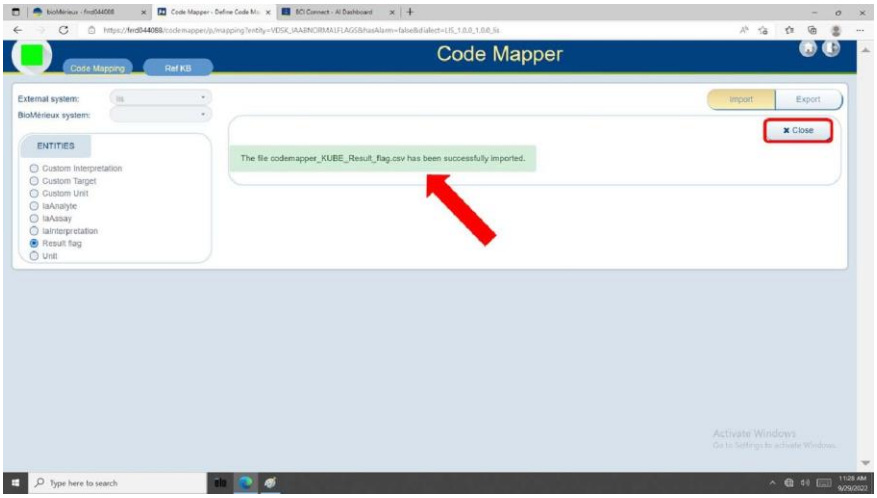
19. Select codemapper_VIDAS_KUBE_Result_flag_V1.cvs file in D:\bioMerieux\data\codemapper and click “Open”:



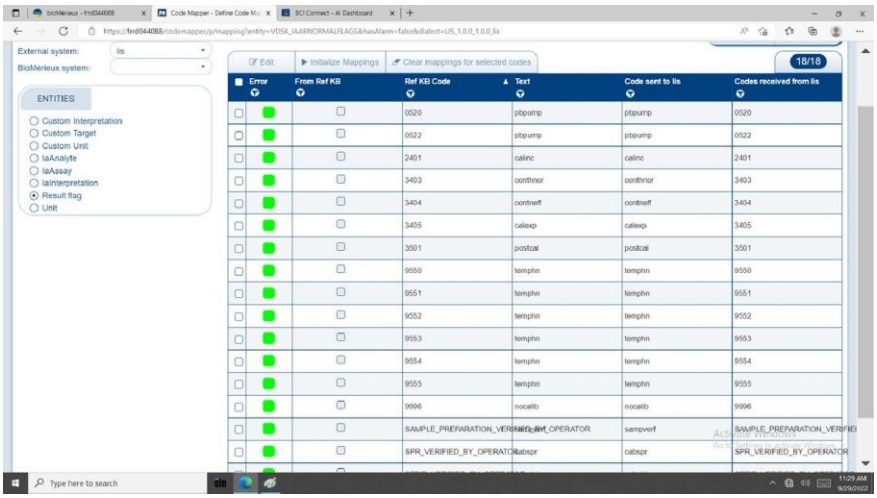
20. The file is ready to be imported, click “Confirm import”:



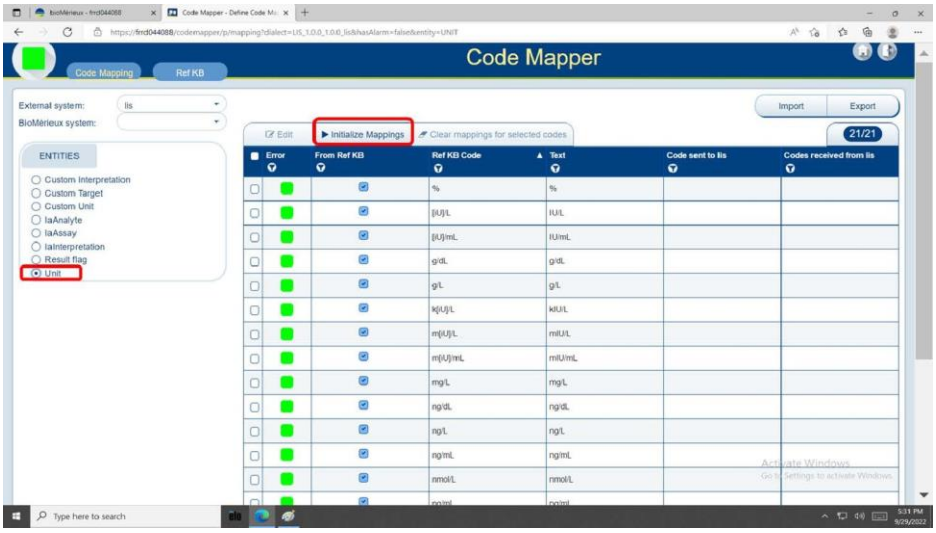
21. The file has been imported, click “Close”:



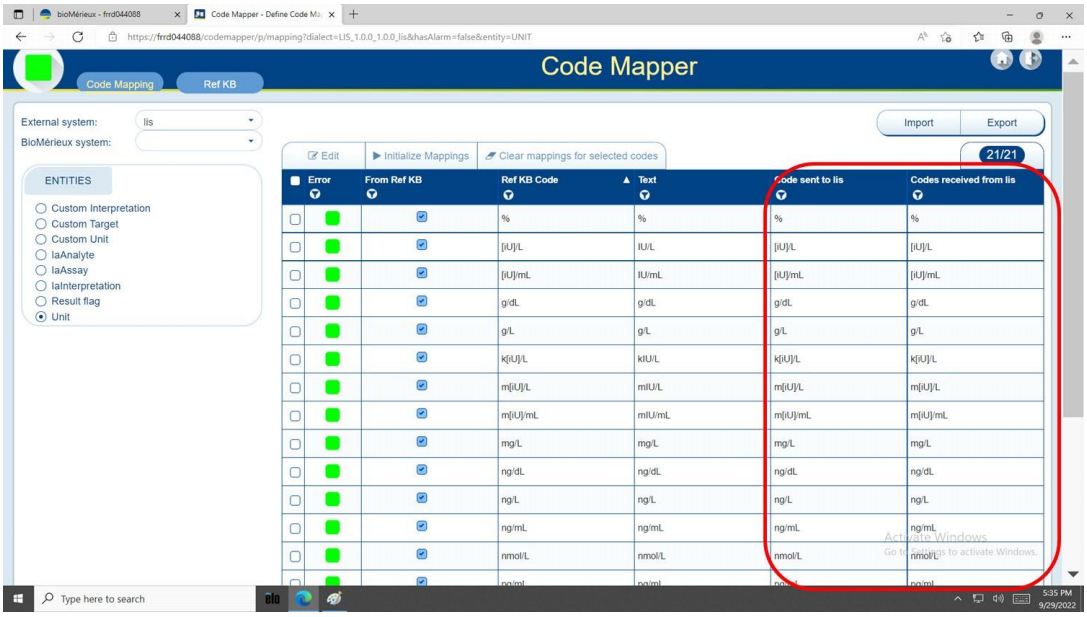
22. The list of imported Result flags is displayed:



23. In ENTITIES, select Unit, click “Initialize Mappings” and then “Initialize” in the popup which will be displayed to confirm.



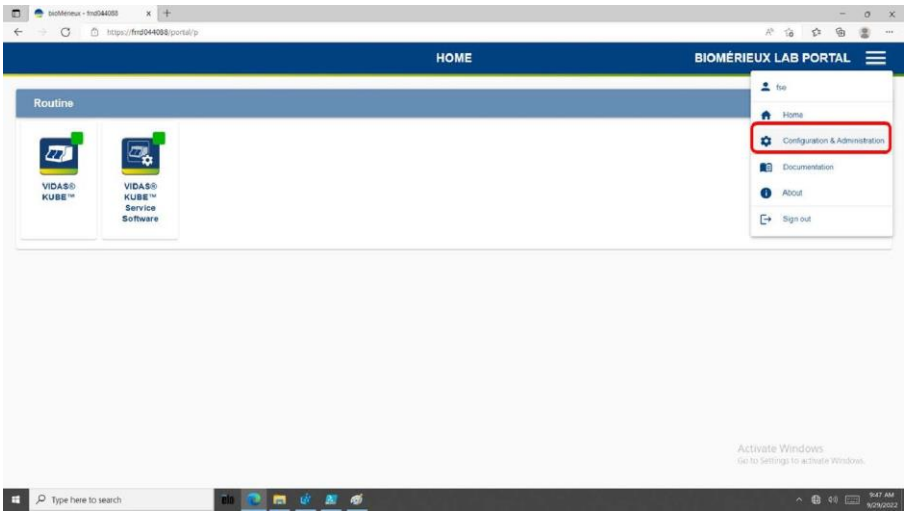
24. Check that the Unit array is filled in:



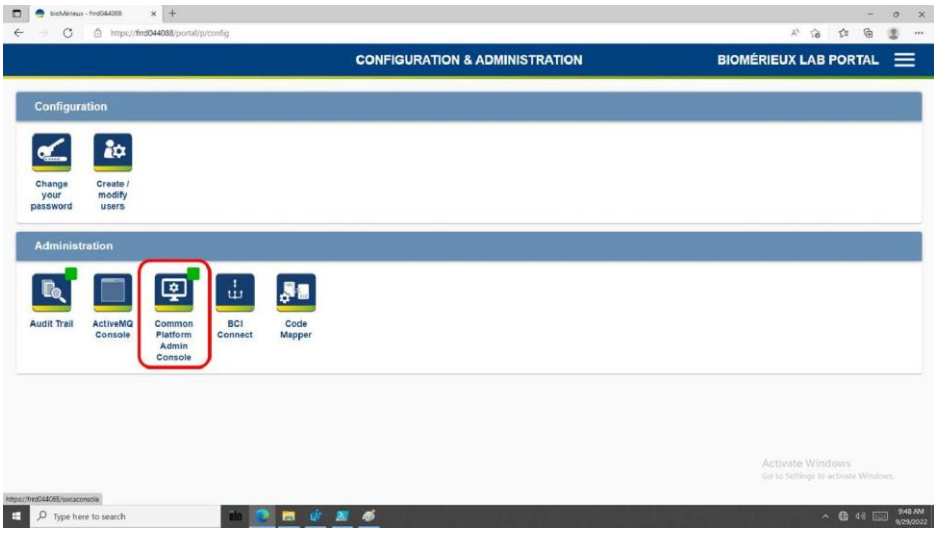
25. Close the folder Code Mapper by closing the tab.

11.5.4. ACTION 4: Allow the communication between the BCI and the VIDAS® KUBE™ System (FTP, FTPS, SFTP)

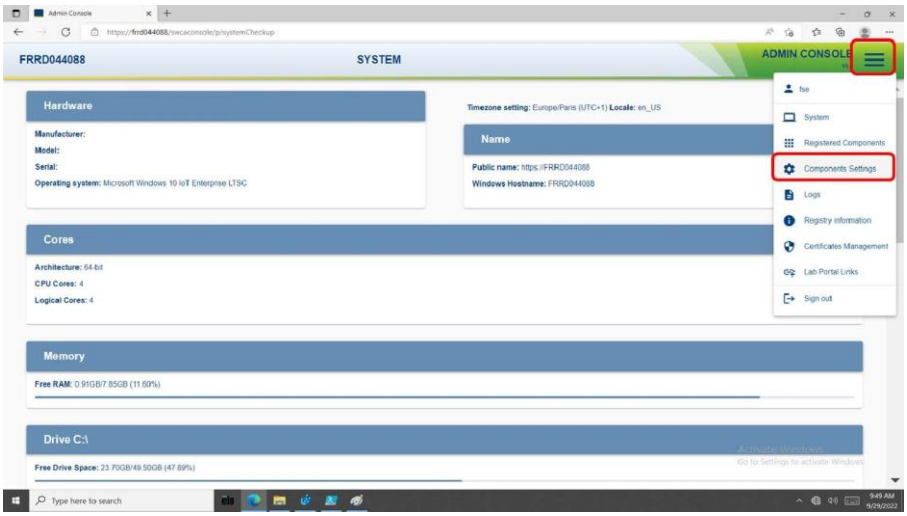
1. Click “Configuration & Administration”:



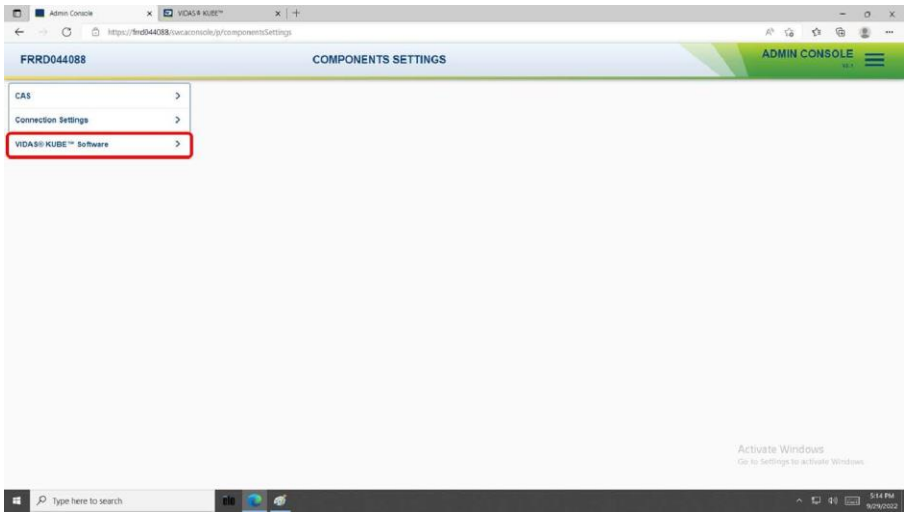
2. Click “Common Platform Admin Console”:



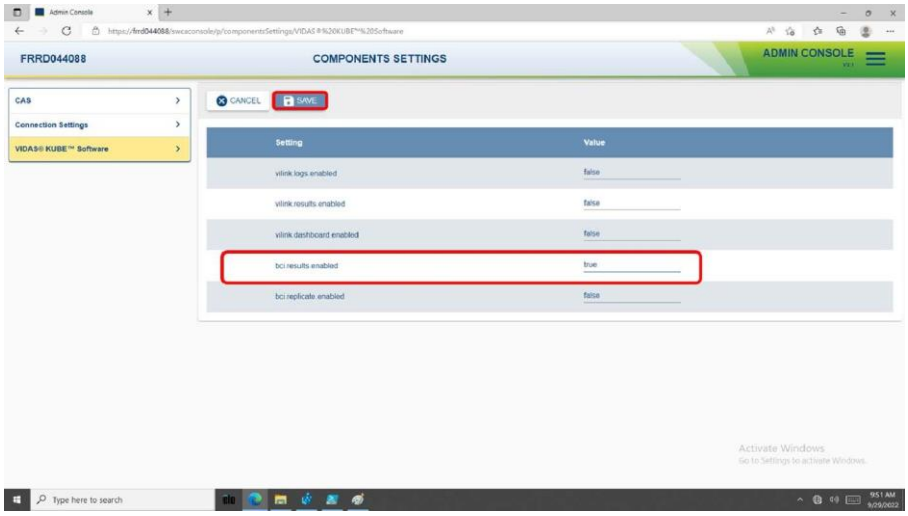
3. Click “Components Settings”:



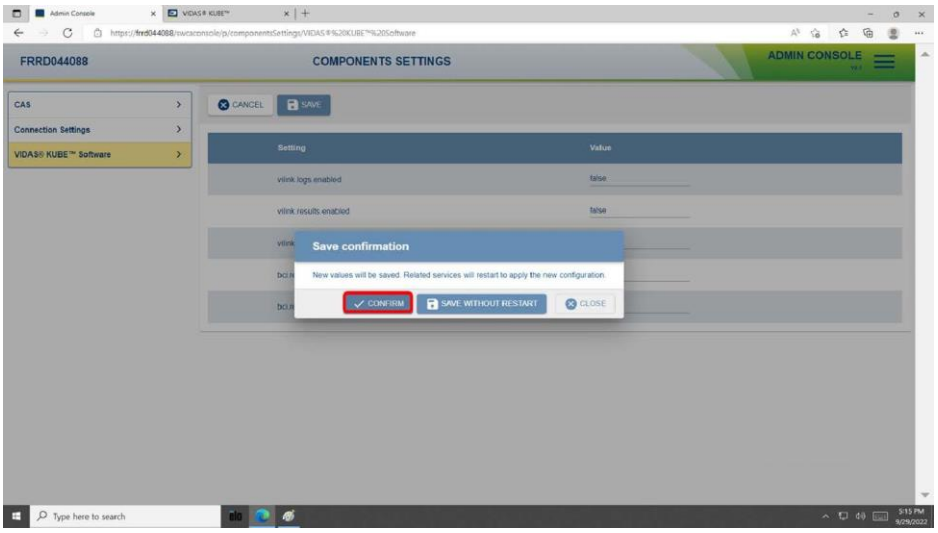
4. Click “VIDAS® KUBE™ Software”:



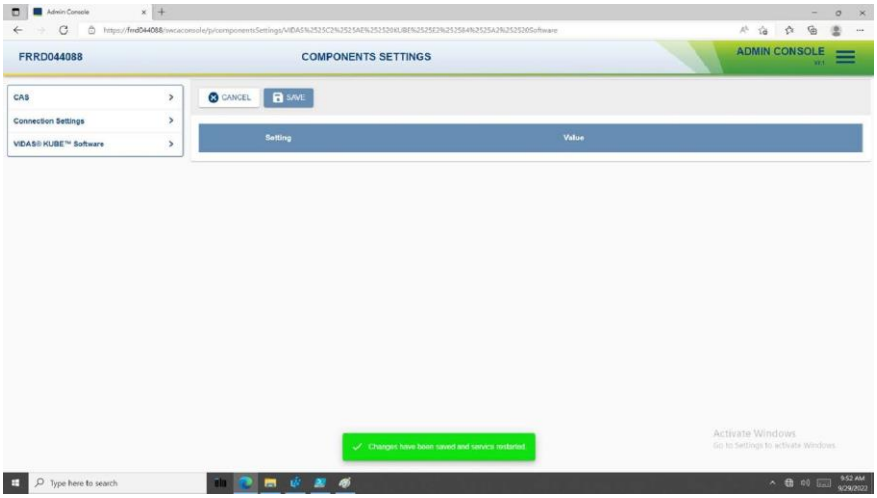
5. Update bci.results.enabled to true by writing "true" instead of "false", then click SAVE:



6. Click CONFIRM:



7. The update is taken into account:



11.5.5. ACTION 5: Configure the Invalid/Failed Status sent to the LIS (see Pre-checklist)

By default, VIDAS® KUBE™ send to the LIS:

- an Invalid status if the result is invalid (for example, in case of an over-diluted result value).
- a Failed status if the result is failed (for example, in case of stopping the section during a Run).

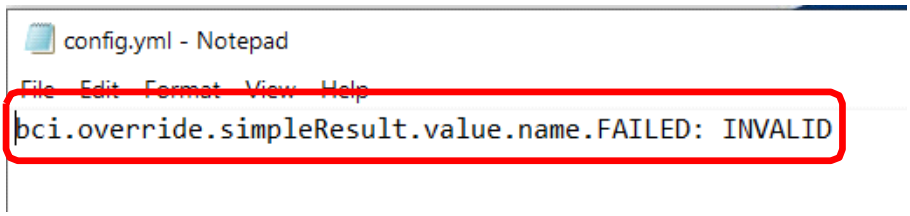
Some LIS won't understand Failed status and could reject the message. See what was reported in the pre check-list.

If the LIS can not understand Failed status, this one can be changed automatically into Invalid status by configuration. Follow the next steps:

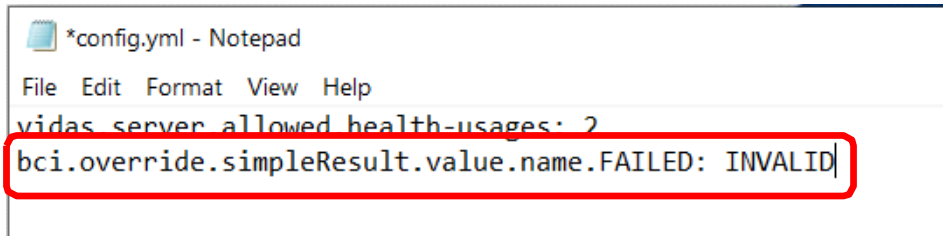
1. Open D:\bioMerieux\data\vidas-kube-software\config.yml file.

2. Write bci.override.simpleResult.value.name.FAILED: INVALID respecting case and blank between ":" and "INVALID".

- For Clinical:



- For Industry:



3. Save and close the file.
4. Restart the bMx VIDAS® KUBE™ Software Service. If you need help, you can follow the Appendix G, APPENDIX 7: How to restart the bioMérieux VIDAS® KUBE™ Software Service.