

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

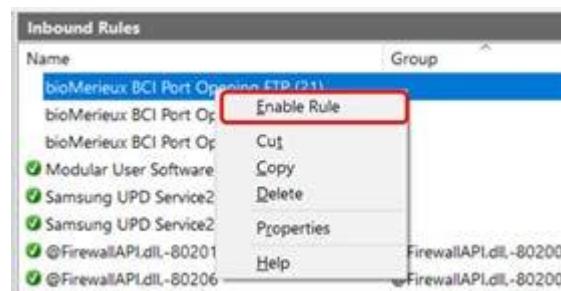
1. Write "firewall" in the Windows search area and launch "Windows defender firewall with Advanced Security":



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:

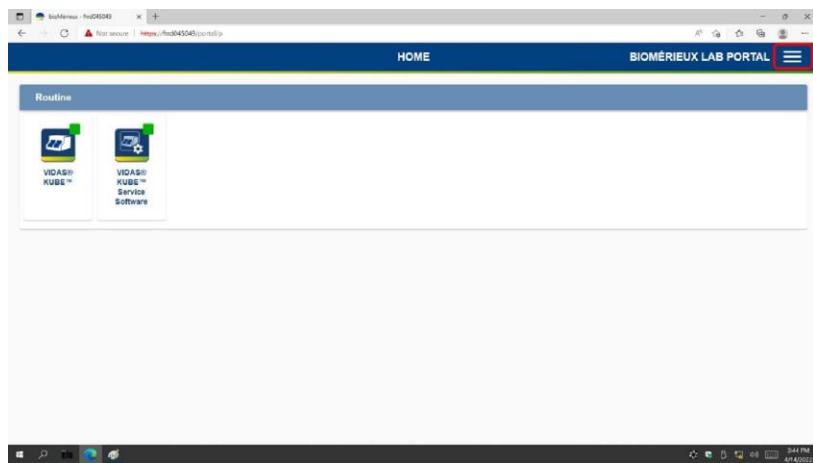


4. The rule is now enabled.

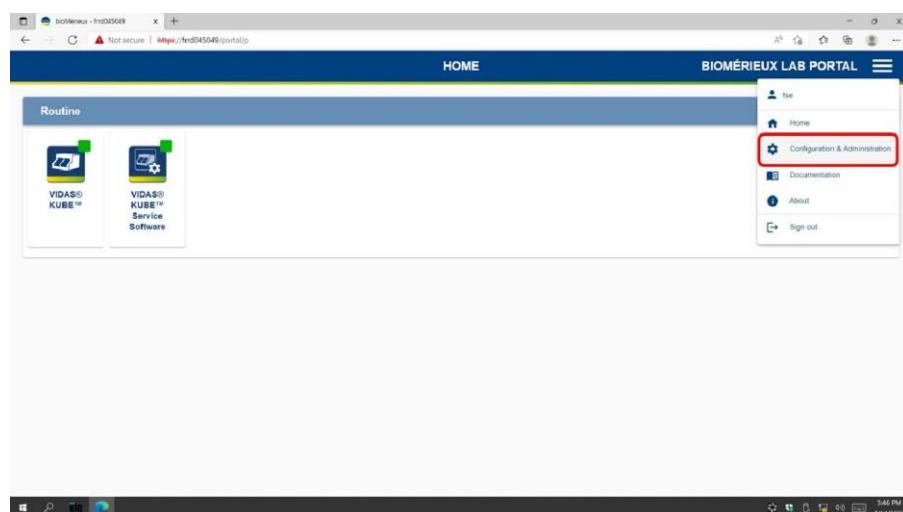


11.5.2. ACTION 2: Create the BCI Connect Configuration Corresponding to the Desired Protocol (FTP, FTPS, SFTP)

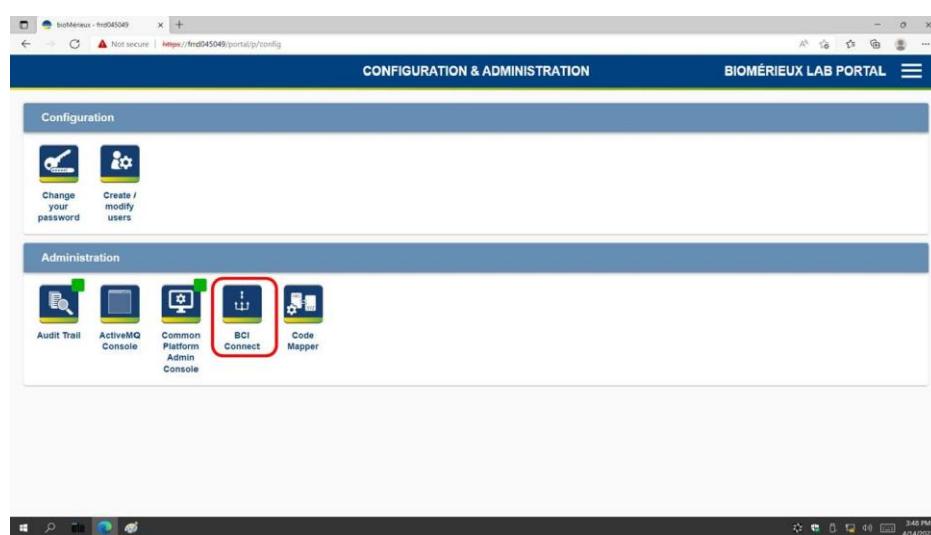
1. Click the triple bars pictogram.



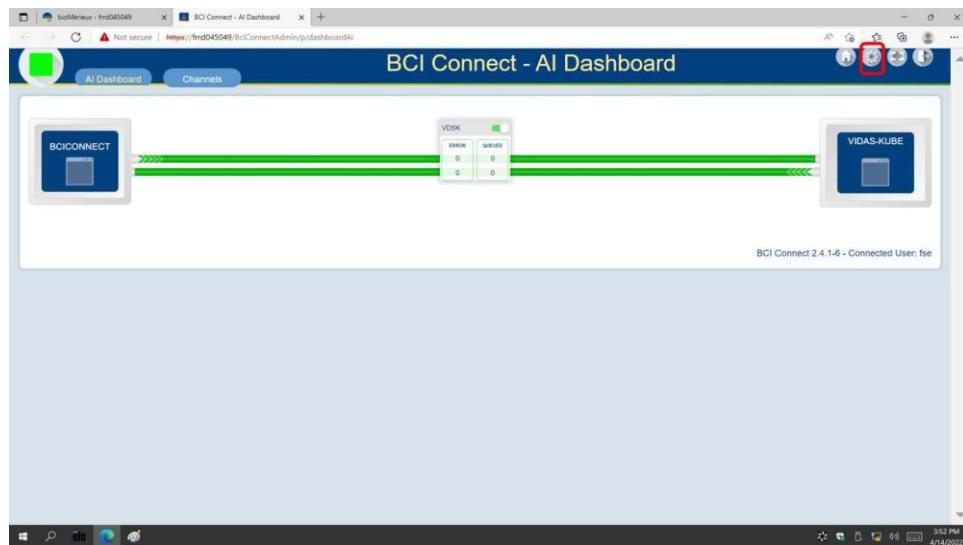
2. Click Configuration & Administration.



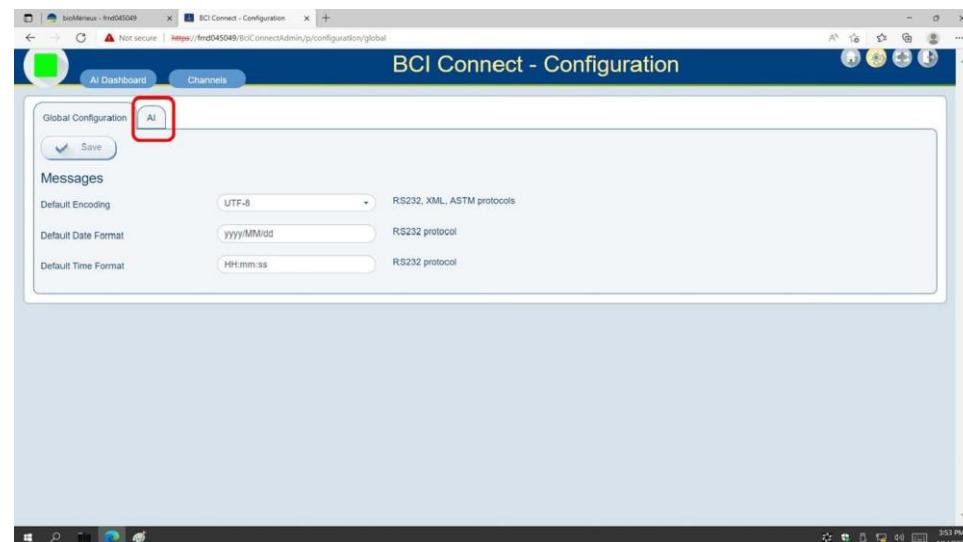
3. Click BCI Connect.



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

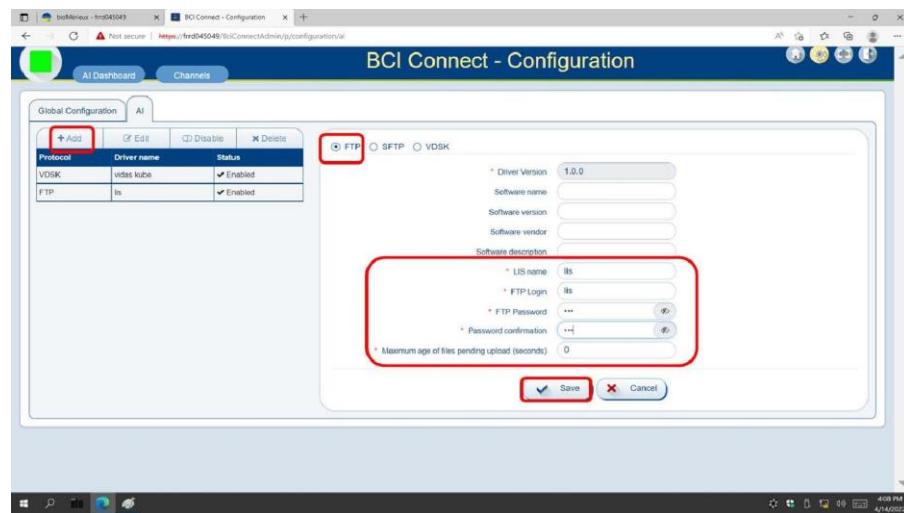


5. Click AI tab.

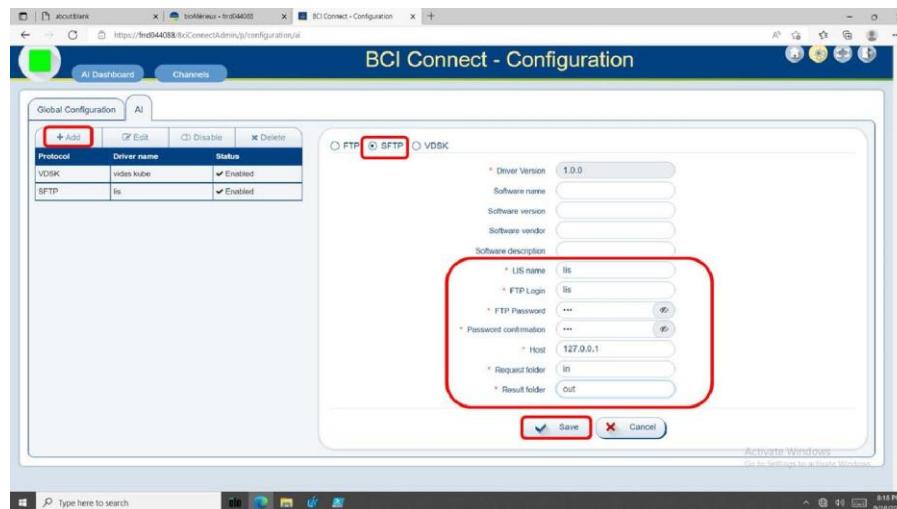


6. Click +Add:

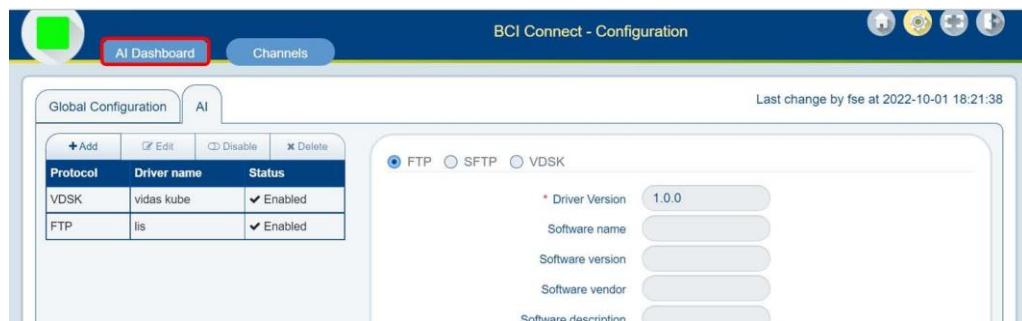
- a. **For FTP or FTPS:** select FTP, enter the LIS credentials, then click Save.



- 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.



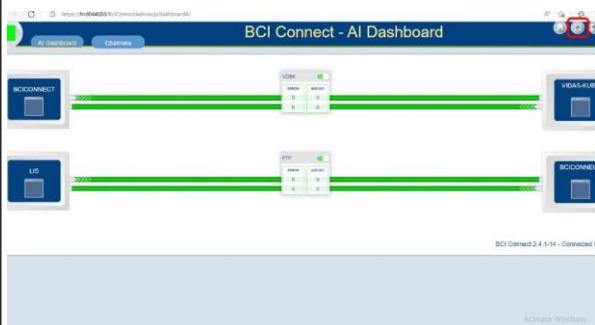
7. After saving configuration in FTP or SFTP, click AI Dashboard:



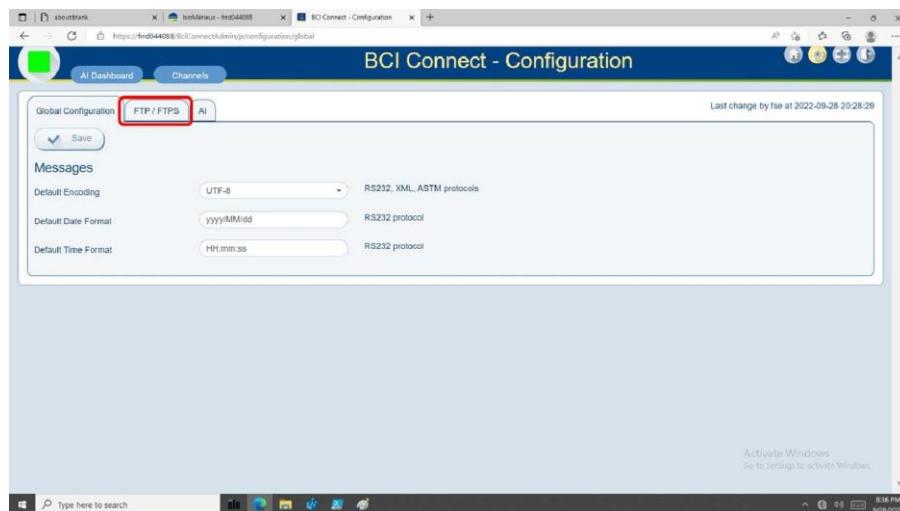
8. In case of **FTP and SFTP**, the BCI Connect configuration is done. Close the "BCI Connect AI Dashboard" by clicking in the tab sign. Then, go on directly at ACTION 3.



8. In case of **FTPS**: Click "Configuration" button at top right. Then, go on step 9 below.

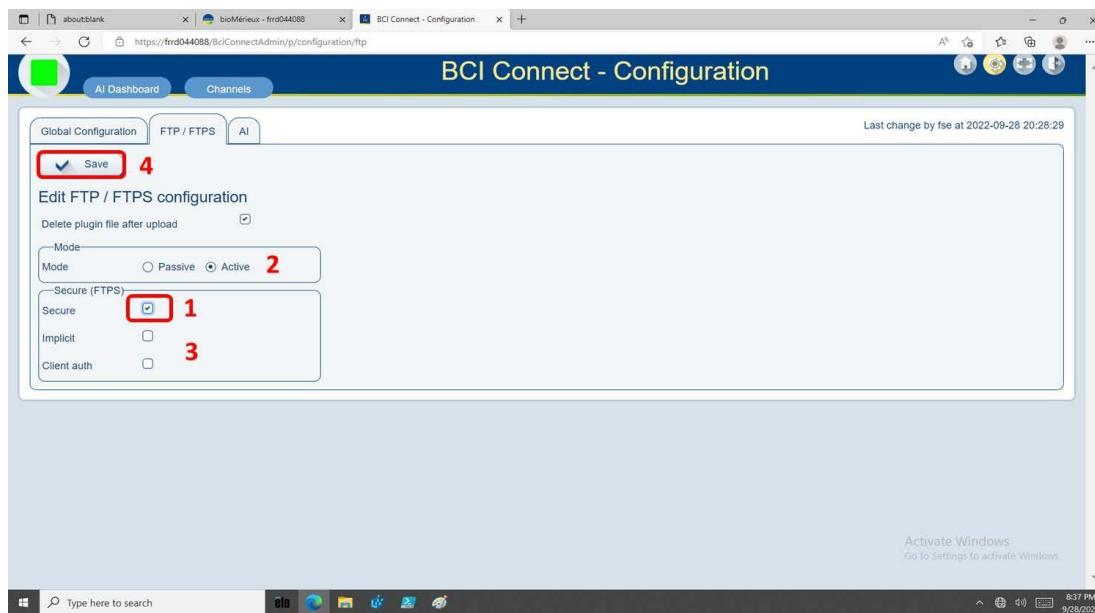


9. A new "FTP/FTPS" is displayed, click **FTP/FTPS** tab (**only FTPS**):

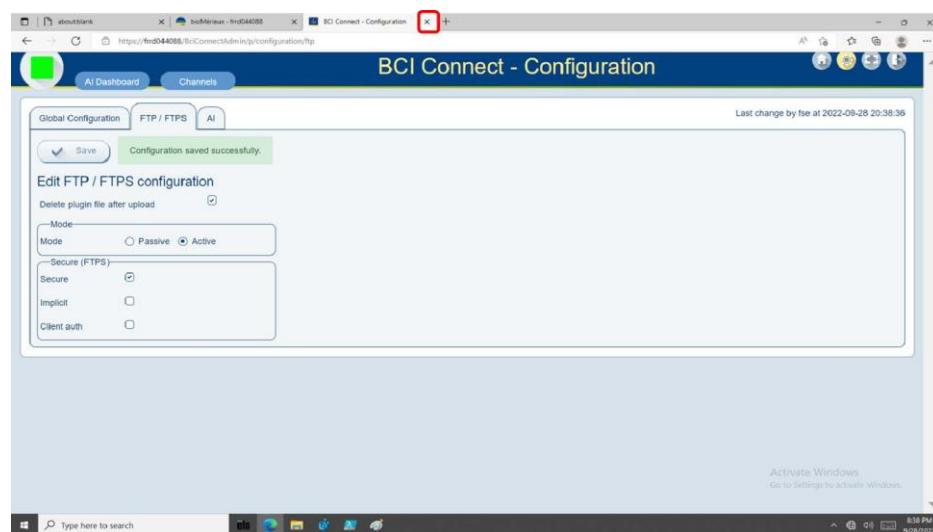


10. In the **FTP/FTPS** tab (**only FTPS**):

- (1): Click "Secure".
- (2): Depending on the customer LIS configuration, select "Active" (by default) or "passive".
- (3): Depending on the customer LIS configuration, select "implicit" (explicit by default) and/or "Client auth" (no authorization needed by default).
- (4): Click "Save" when the configuration is ended.

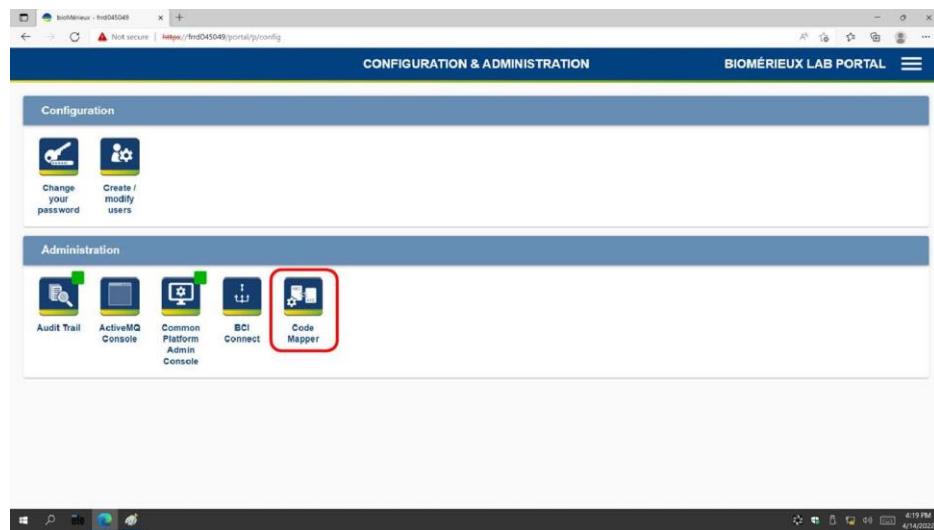


11. The configuration has been saved, close the “BCI Connect – AI Dashboard” by clicking in the tab sign (**only FTPS**):

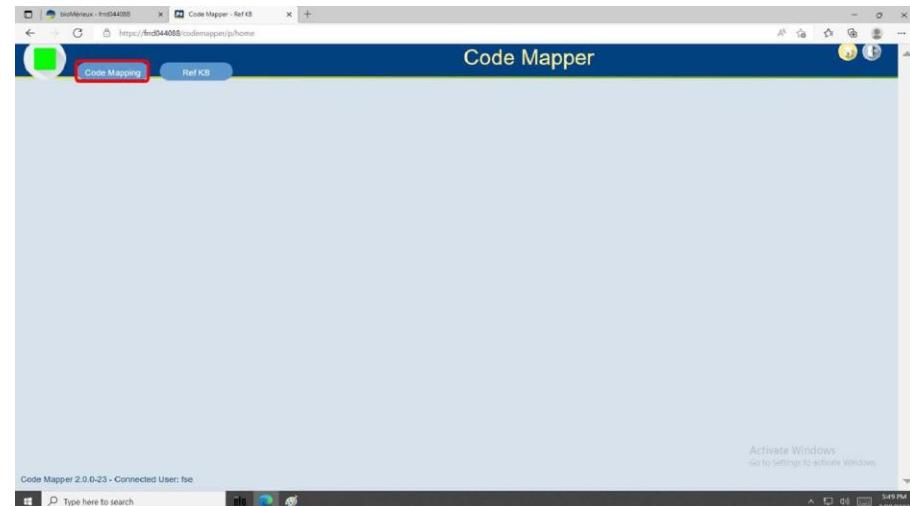


11.5.3. ACTION 3: Configure CodeMapper (FTP, FTPS, SFTP)

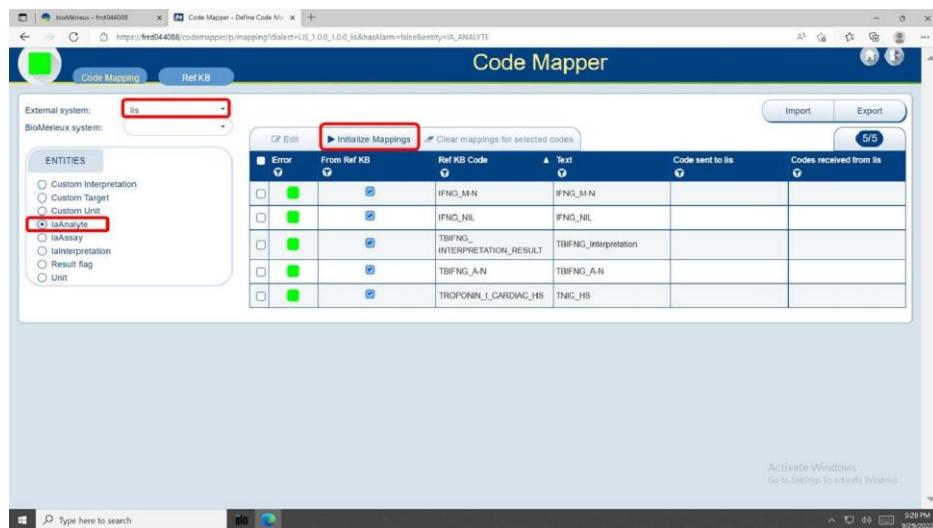
1. Click Code Mapper.



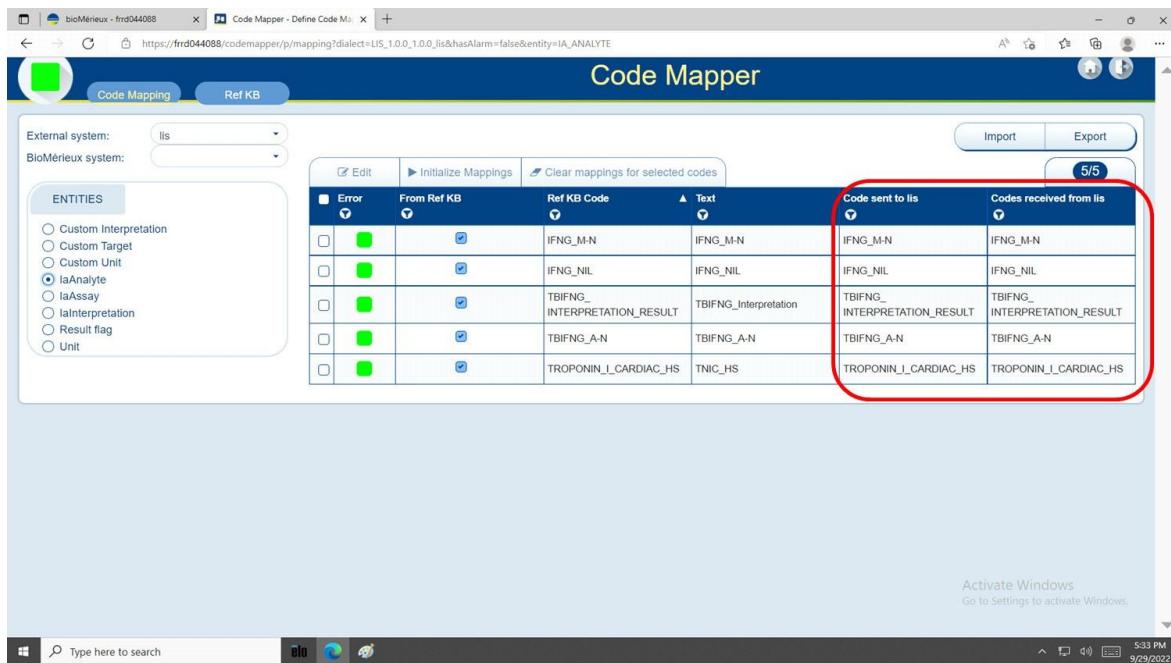
2. Click Code Mapping tab.



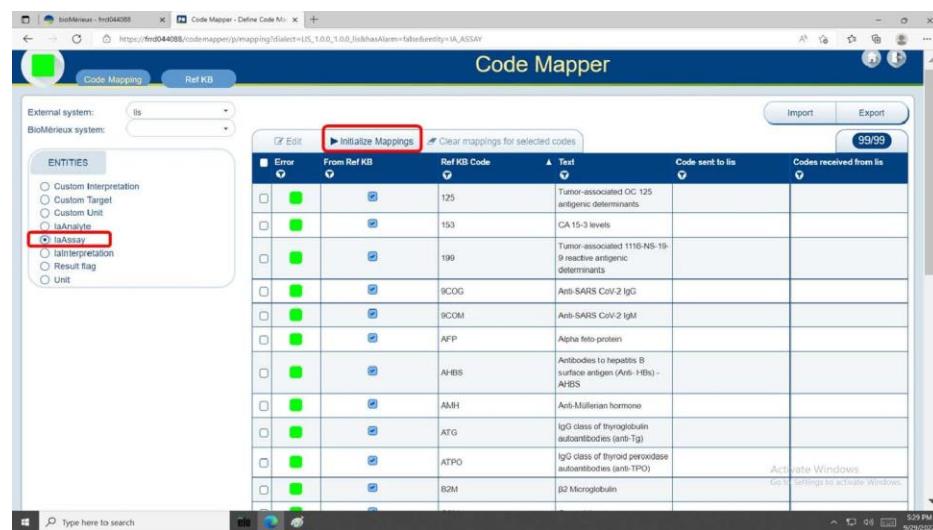
3. In External System, select the LIS name, in ENTITIES, select laAnalyte, click "Initialize Mappings" and then "Initialize" in the popup which will be displayed to confirm.



- Check that the laAnalyte array is filled in:



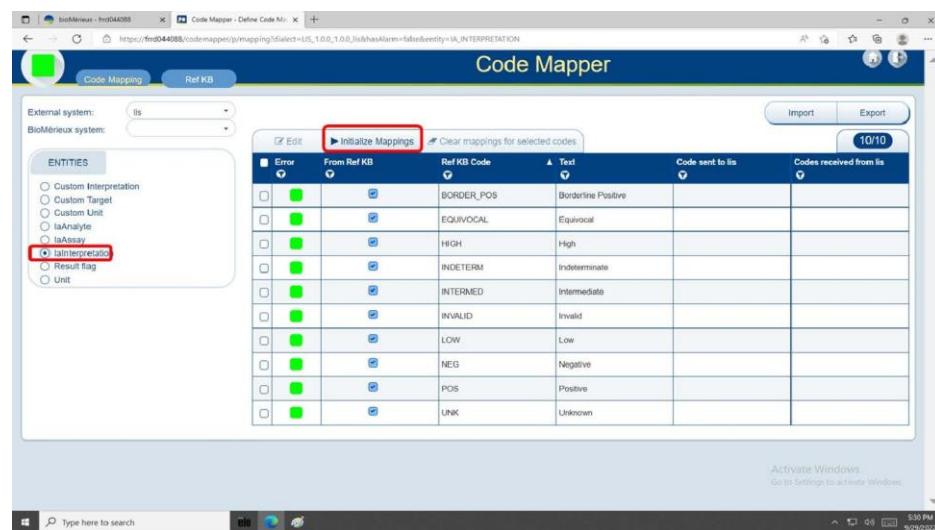
- In ENTITIES, select laAssay, click "Initialize Mappings" and then "Initialize" in the popup which will be displayed to confirm.



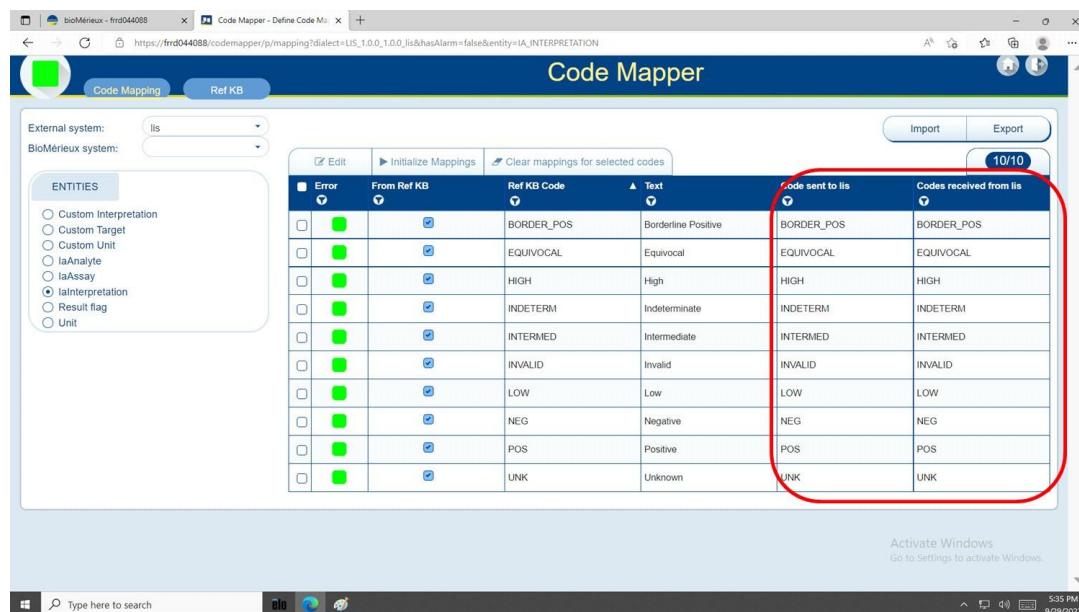
6. Check that the laAssay array is filled in:

Error	From Ref KB	Ref KB Code	Text	Code sent to lis	Codes received from lis
	125		Tumor-associated OC 125 antigenic determinants	125	125
	153		CA 15-3 levels	153	153
	199		Tumor-associated 1116-NS-19 9 reactive antigenic determinants	199	199
	9COG		Anti-SARS CoV-2 IgG	9COG	9COG
	9COM		Anti-SARS CoV-2 IgM	9COM	9COM
	AFP		Alpha feto-protein	AFP	AFP
	AHBS		Antibodies to hepatitis B surface antigen (Anti-HBs) - AHBS	AHBS	AHBS
	AMH		Anti-Müllerian hormone	AMH	AMH
	ATG		IgG class of thyroglobulin autoantibodies (anti-Tg)	ATG	ATG
	ATPO		IgG class of thyroid peroxidase autoantibodies (anti-TPO)	ATPO	ATPO
	B2M		β 2 Microglobulin	B2M	B2M

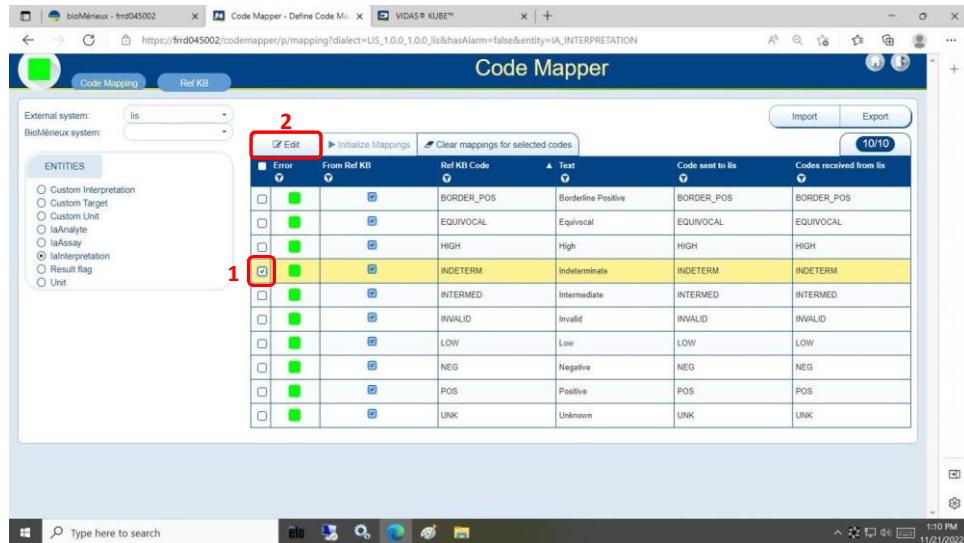
7. In ENTITIES, select 'laInterpretation', click "Initialize Mappings" and then "Initialize" in the popup which will be displayed to confirm.



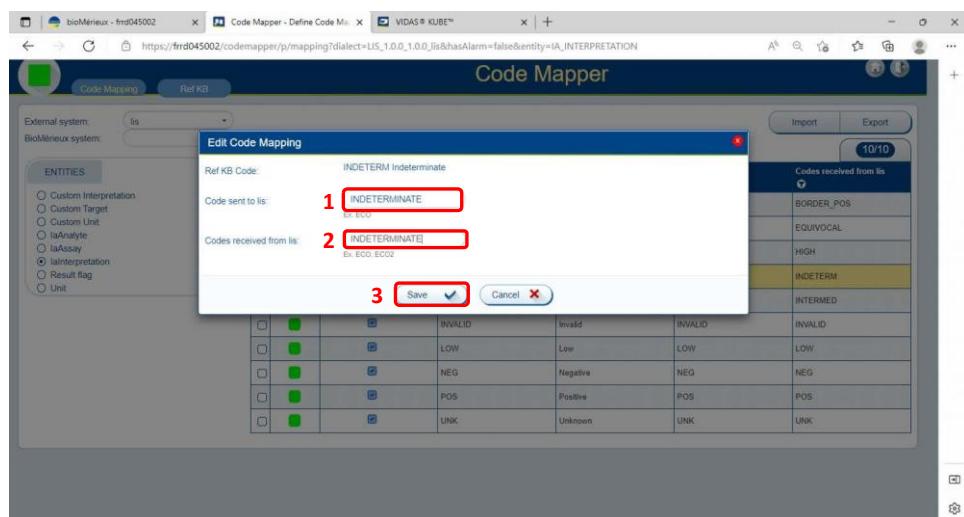
8. Check that the laInterpretation array is filled in:



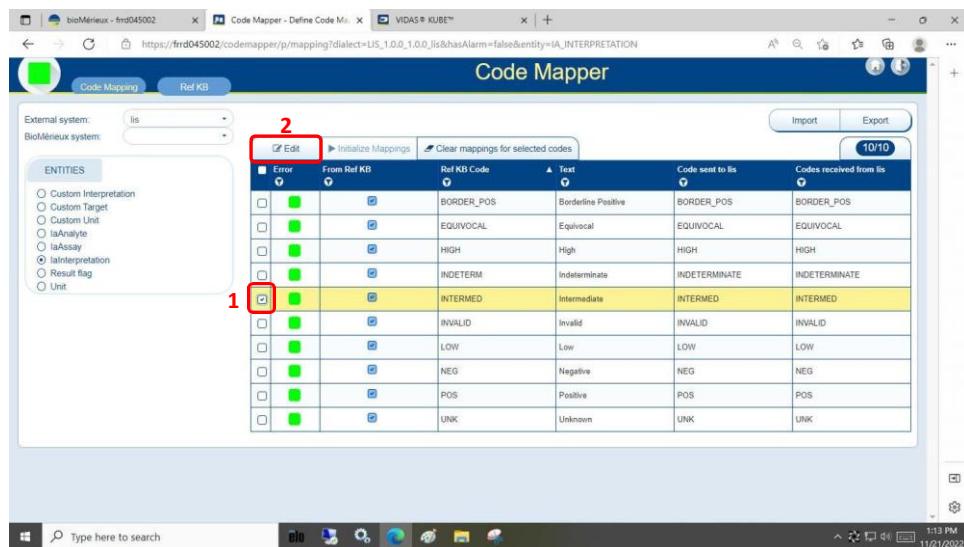
9. Select the "INDETERM" line (1), then click "Edit" (2).



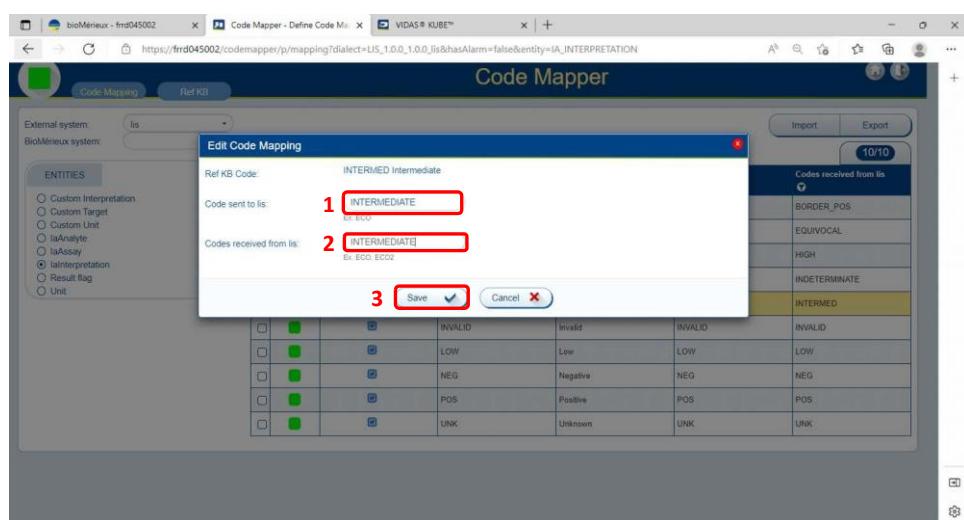
10. Modify the Code sent to lis into "INDETERMINATE" (1), modify the Codes received from lis into "INDETERMINATE" (2), then click "Save" (3).



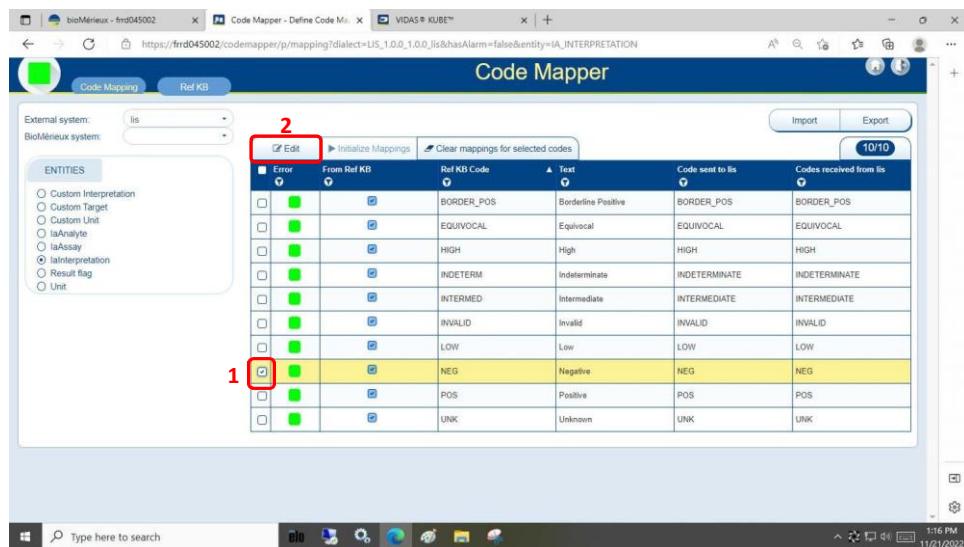
11. Select the "INTERMED" line (1), then click "Edit" (2).



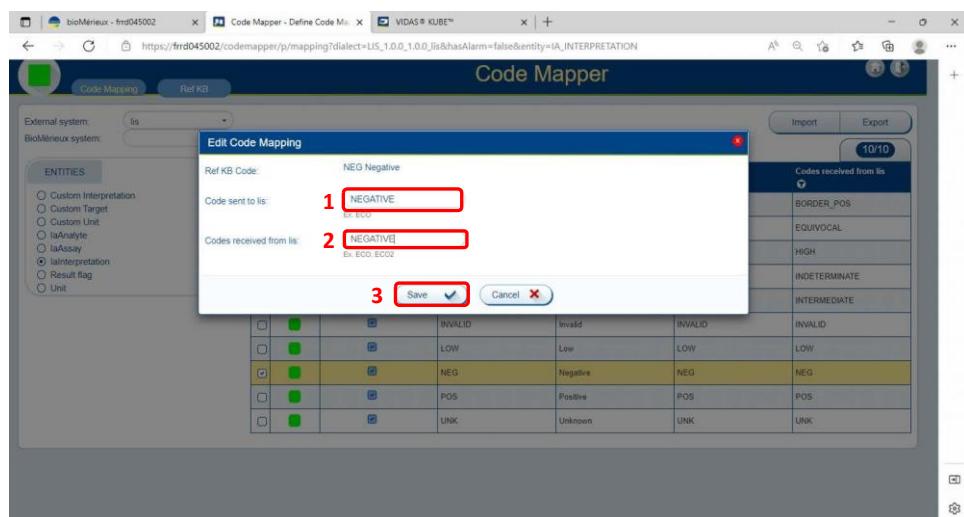
12. Modify the Code sent too lis into "INTERMEDIATE" (1), modify the Codes received from lis into "INTERMEDIATE" (2), then click "Save" (3)



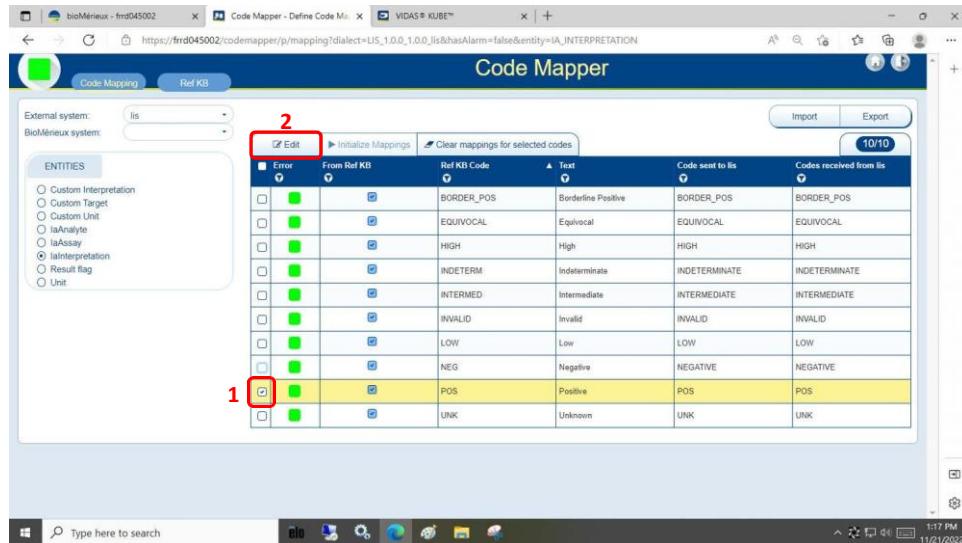
13. Select the "NEG" line (1), then click "Edit" (2).



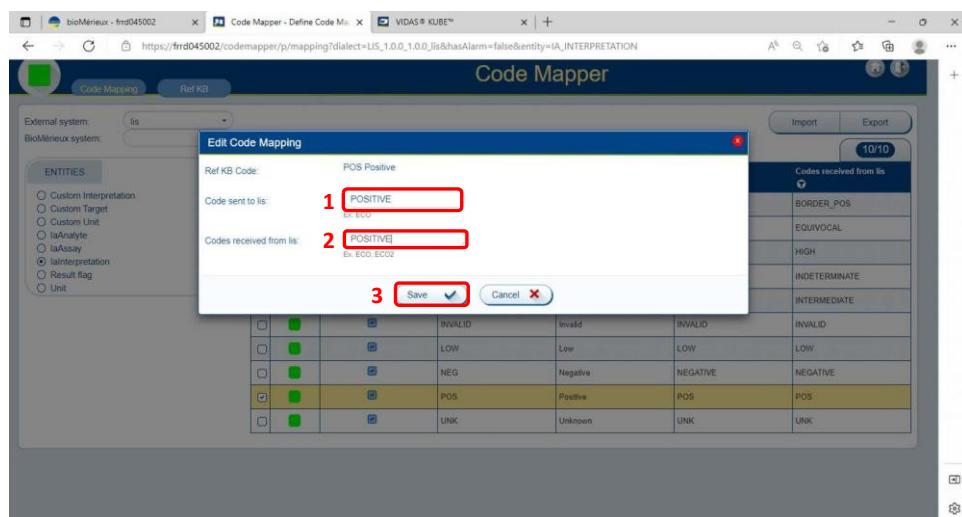
14. Modify the Code sent too lis into "NEGATIVE" (1), modify the Codes received from lis into "NEGATIVE" (2), then click "Save" (3).



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

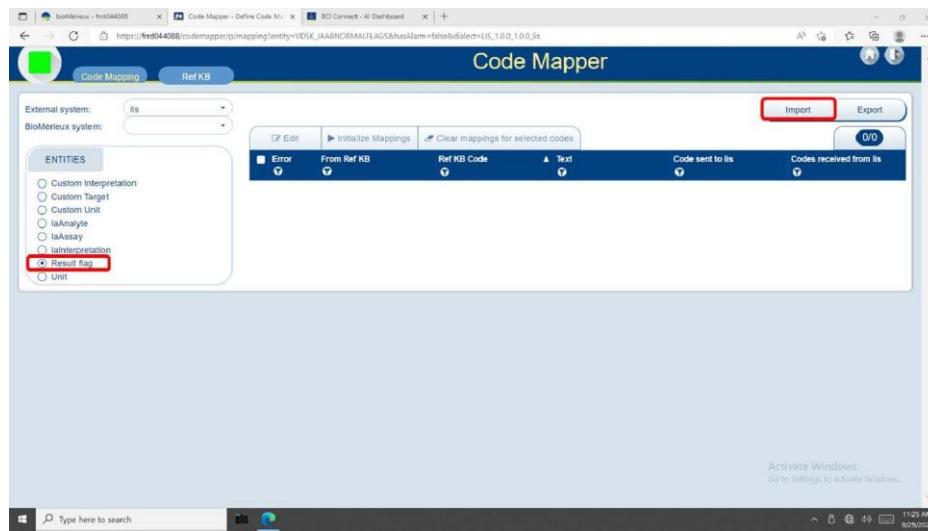


16. Modify the Code sent too lis into "POSITIVE" (1), modify the Codes received from lis into "POSITIVE" (2), then click "Save" (3).

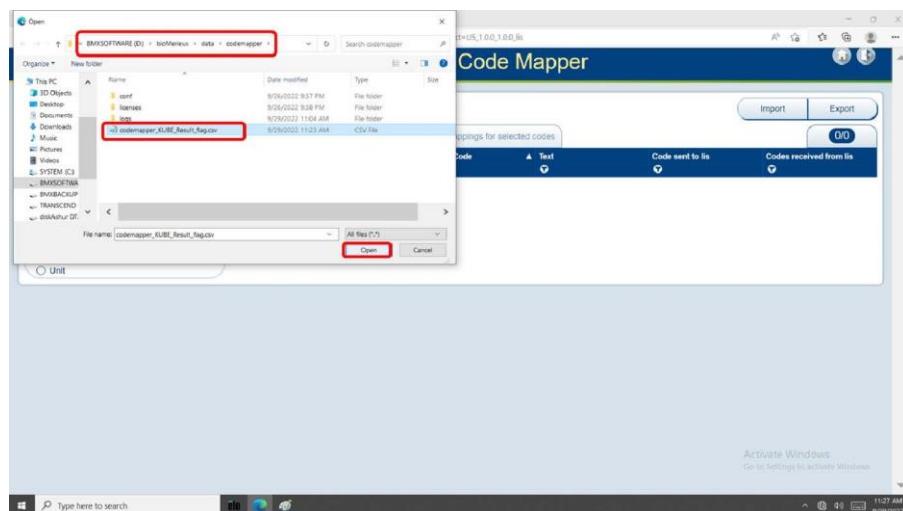


17. Open the file
D:\bioMerieux\data\codemapper\codemapper_VIDAS_KUBE_Result_flag_V1.csv
with notepad and change the name "lis" (in the first line of the file) by the name of the LIS/
LIMS entered in [ACTION 2: Create the BCI Connect Configuration Corresponding to the
Desired Protocol \(FTP, FTPS, SFTP\)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

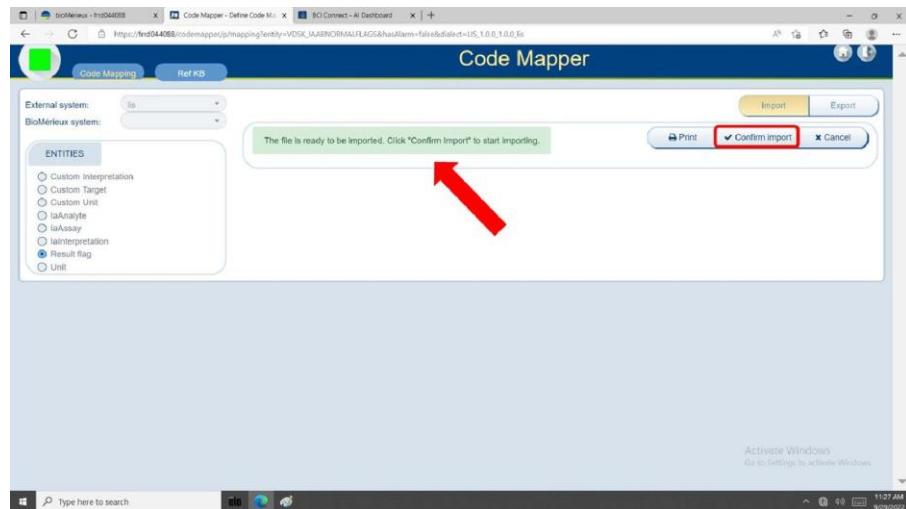
18. In ENTITIES, select Result flag then click "Import".



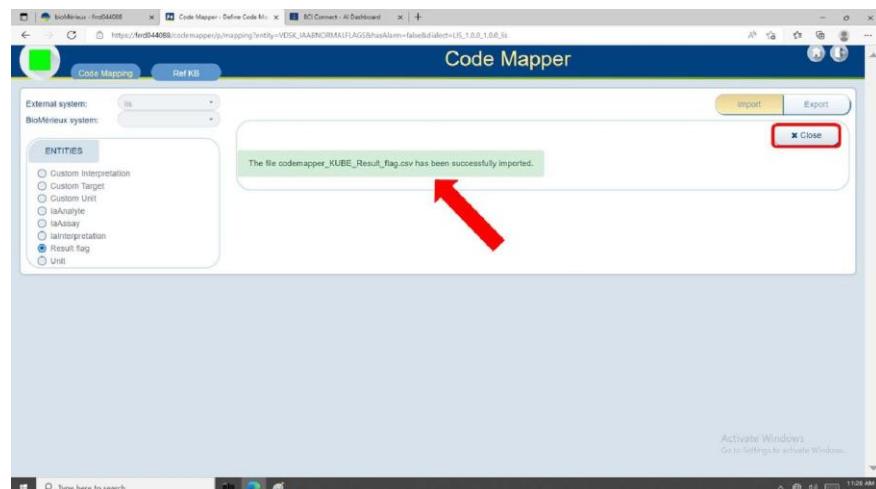
19. Select codemapper_VIDAS_KUBE_Result_flag_V1.csv file in D:\bioMerieux\data\codemapper and click “Open”:



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:

This screenshot shows the main 'Code Mapper' interface after the import. On the left, the 'ENTITIES' sidebar is visible. The main area displays a table with two columns: 'From Ref KB' and 'Codes received from IIS'. The table lists various result flags with their corresponding codes. A red arrow points to the body of the table. The top of the table has several buttons: 'OF Edit', 'Initialize Mappings', 'Clear mappings for selected codes', and a status indicator '18/18'.

	From Ref KB	Ref KB Code	Text	Code sent to IIS	Codes received from IIS
<input type="checkbox"/>	<input checked="" type="checkbox"/>	0520	pbpump	pbpump	0520
<input type="checkbox"/>	<input checked="" type="checkbox"/>	0522	pbpump	pbpump	0522
<input type="checkbox"/>	<input checked="" type="checkbox"/>	2401	calinc	calinc	2401
<input type="checkbox"/>	<input checked="" type="checkbox"/>	3403	contnor	contnor	3403
<input type="checkbox"/>	<input checked="" type="checkbox"/>	3404	contneff	contneff	3404
<input type="checkbox"/>	<input checked="" type="checkbox"/>	3405	calewp	calewp	3405
<input type="checkbox"/>	<input checked="" type="checkbox"/>	3501	postcal	postcal	3501
<input type="checkbox"/>	<input checked="" type="checkbox"/>	9550	tempchn	tempchn	9550
<input type="checkbox"/>	<input checked="" type="checkbox"/>	9551	tempchn	tempchn	9551
<input type="checkbox"/>	<input checked="" type="checkbox"/>	9552	tempchn	tempchn	9552
<input type="checkbox"/>	<input checked="" type="checkbox"/>	9553	tempchn	tempchn	9553
<input type="checkbox"/>	<input checked="" type="checkbox"/>	9554	tempchn	tempchn	9554
<input type="checkbox"/>	<input checked="" type="checkbox"/>	9555	tempchn	tempchn	9555
<input type="checkbox"/>	<input checked="" type="checkbox"/>	9996	nocalib	nocalib	9996
<input type="checkbox"/>	<input checked="" type="checkbox"/>	SAMPLE_PREPARATION_VERIFIED_BY_OPERATOR	sampver	SAMPLE_PREPARATION_VERIFIED_BY_OPERATOR	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	SPR_VERIFIED_BY_OPERATOR	caspr	SPR_VERIFIED_BY_OPERATOR	

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

The screenshot shows the 'Code Mapper - Define Code Mappings' window. On the left, under 'ENTITIES', the 'Unit' option is selected. At the top center, there is a button labeled 'Initialize Mappings'. A red box highlights this button. Below it is a table with columns: Error, From Ref KB, Ref KB Code, Text, Code sent to lis, and Codes received from lis. The table contains 21 rows of data. At the bottom right of the table, there is a note: 'Activate Windows. Go to Settings to activate Windows.' and a date: '9/29/2022'.

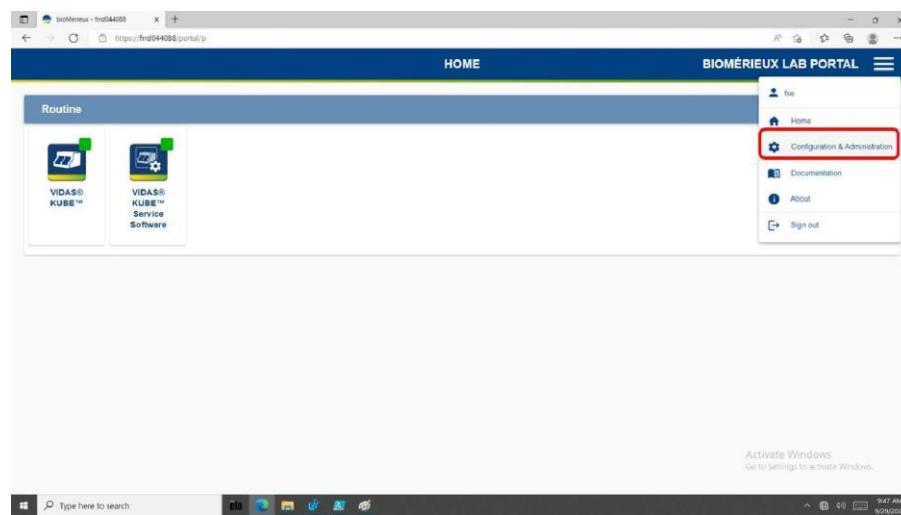
24. Check that the Unit array is filled in:

This screenshot is similar to the previous one, showing the 'Code Mapper - Define Code Mappings' window. The 'Unit' entity is selected in the ENTITIES list. A large red box highlights the entire 'Code sent to lis' column in the main mapping table. The table structure is identical to the previous screenshot, with 21 rows of mappings between Ref KB codes and their corresponding Text and Codes received from lis.

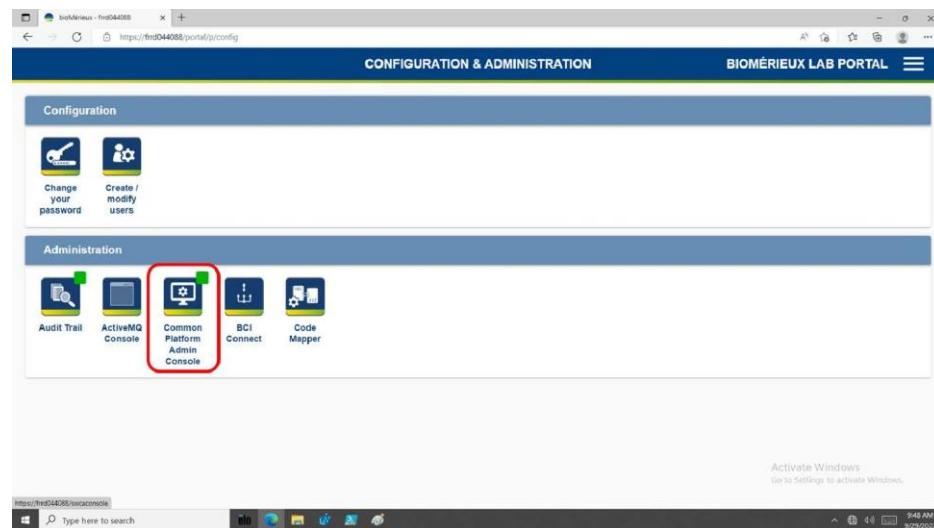
25. Close the folder Code Mapper by closing the tab.

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

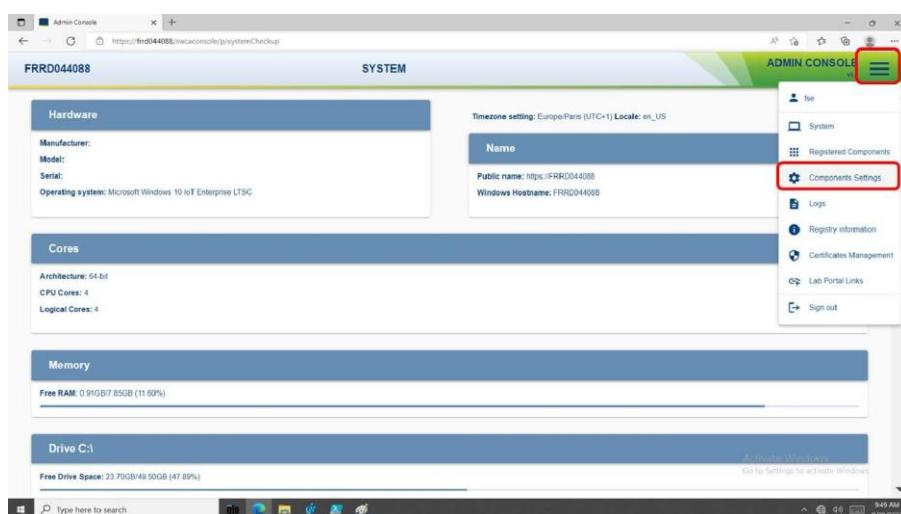
- Click “Configuration & Administration”:



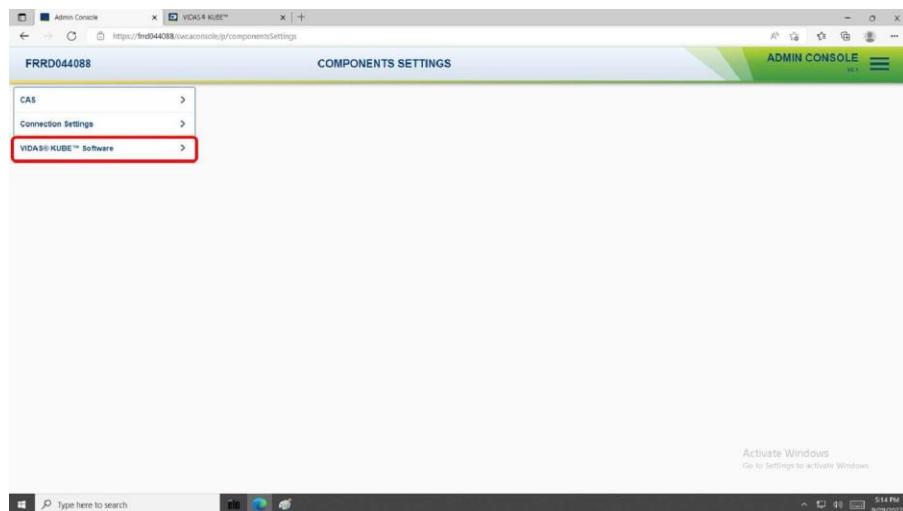
2. Click "Common Platform Admin Console":



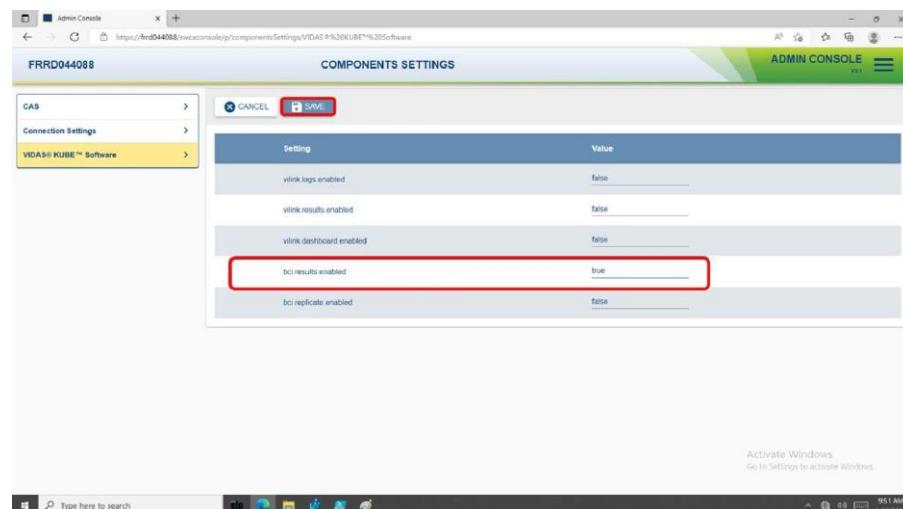
3. Click "Components Settings":



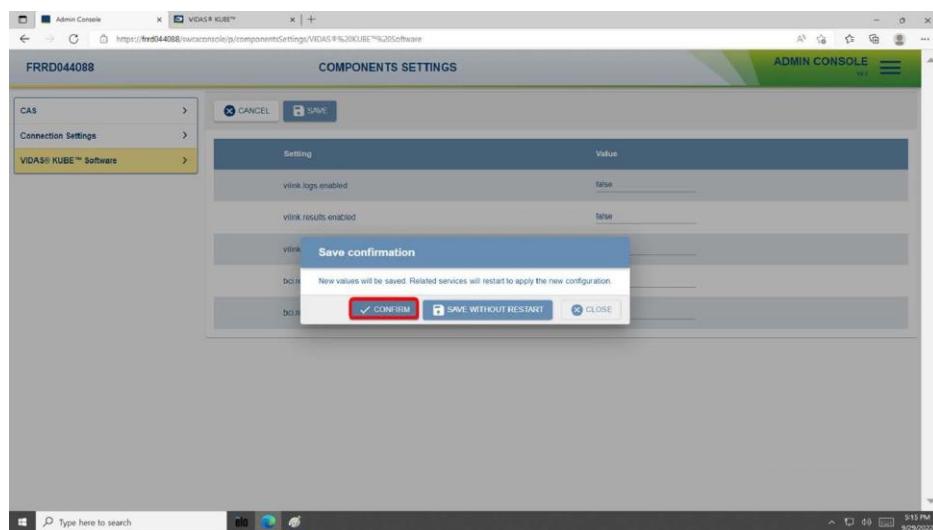
4. Click "VIDAS® KUBE™ Software":



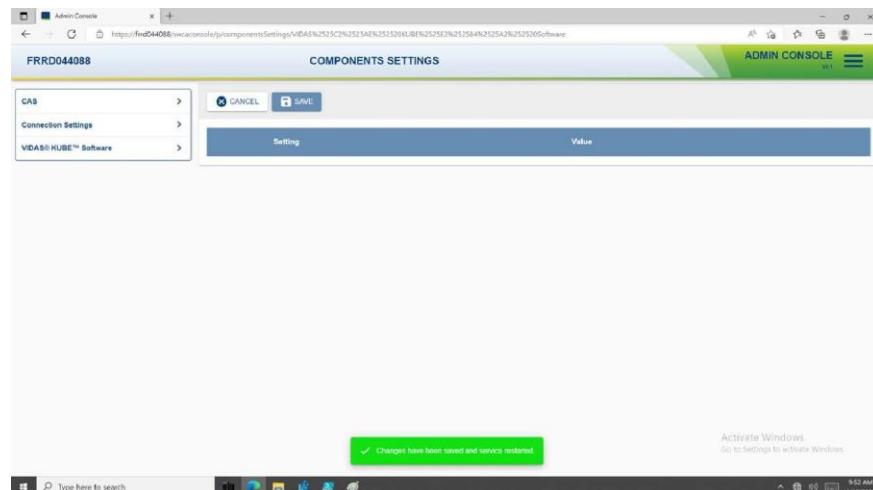
5. Update bci.results.enabled to true by writing "true" instead of "false", then click SAVE:



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).

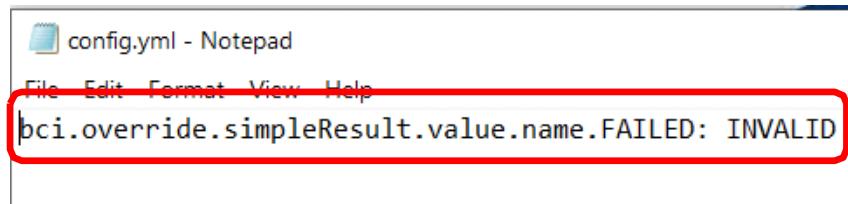
Some LIS won't understand Failed status and could reject the message. See what was reported in the pre check-list.

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.

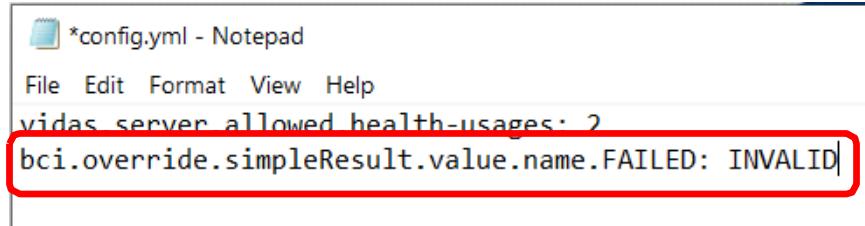
2. Write bci.override.simpleResult.value.name.FAILED: INVALID respecting case and blank between ":" and "INVALID".

- For Clinical:



A screenshot of a Windows Notepad window titled "config.yml - Notepad". The menu bar includes File, Edit, Format, View, and Help. The main content area contains the text "bci.override.simpleResult.value.name.FAILED: INVALID". The entire line of text is highlighted with a red rectangular box.

- For Industry:



A screenshot of a Windows Notepad window titled "*config.yml - Notepad". The menu bar includes File, Edit, Format, View, and Help. The main content area contains the text "vidas server allowed health-usages: 2" followed by "bci.override.simpleResult.value.name.FAILED: INVALID". The line "bci.override.simpleResult.value.name.FAILED: INVALID" is highlighted with a red rectangular box.

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.](#)