

Valab® 16.01

Release Notes

The VALAB company is certified ISO 9001 by:



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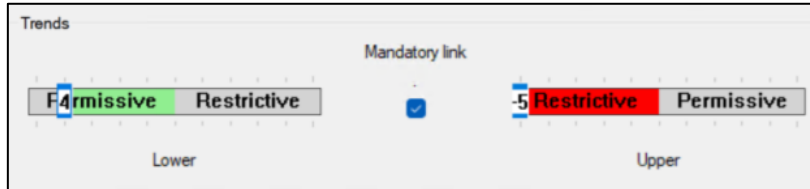
1 Object

This document provides a list of the modifications introduced in Version 16.01 of Valab® following Version 15.03.

2 Autoverification

2.1 Evolution of the behavior of the mandatory link

When a test has an anteriority, the mandatory link now extends the locking of the current result to the entire biological reference interval limits.



Specification: VLB-4148

2.2 Evolution of the behavior on the -5 influence

For the contextual rules and the inter-parametric rules, the behavior of the autoverification for the -5 rules on the anteriority level has been reinforced.

The negative rules with a weight of -5 will systematically apply from now on when the current result of the test is within the associated trend of the -5 rule, independent of the anteriority. No other condition applies.

This action only applies to rules with fixed weights “-5” and does not concern proportional inter-parametric rules.

500 [Digoxin] - 0470-0000-0000-101-000-000 - (MEDICAMENTS)

Overview of rule weights

Lower trend					Upper trend				
[]	[-7]	[-1]	[0]	[0]	Potassium	[-5]	[-5]	[3]	[]
[]	[-7]	[-1]	[0]	[0]	Creatinine	[-5]	[-2]	[3]	[]
[]	[-7]	[-1]	[0]	[0]	GGT	[-4]	[-2]	[4]	[]
[]	[-7]	[-1]	[0]	[0]	GOT	[-4]	[-2]	[4]	[]

Reset Delete

Input test influence range

Mandatory link

Permissive 0 Restrictive

Mandatory link

-5 Restrictive Permissive

Use improvement criteria

For example, a negative rule with weight “-5” on the upper trend will apply systematically if the current value of the test is in the upper trend (above the median), independent of the anteriority.

Specification: VLB-4423

2.3 New tests available

The tests that have been recently modelled since the previous major version of Valab® are now directly available in the application, via the “**IMPORT**” folder.

These tests cover several specialties, including:

- **Trace elements:** Blood Copper (Cupremia), Urinary Copper (Cupruria), Zinc, Selenium
- **Biochemistry:** Ceruleoplasmin, S100B Protein, Osteocalcin, CrossLaps CTX
- **Blood gases:** PO₂/FiO₂ ratio, FiO₂, Gas temperature
- **Serology / Virology (Molecular Biology):** Chlamydia PCR, Gonorrhoea PCR

All of these tests can be downloaded from [the website](#).

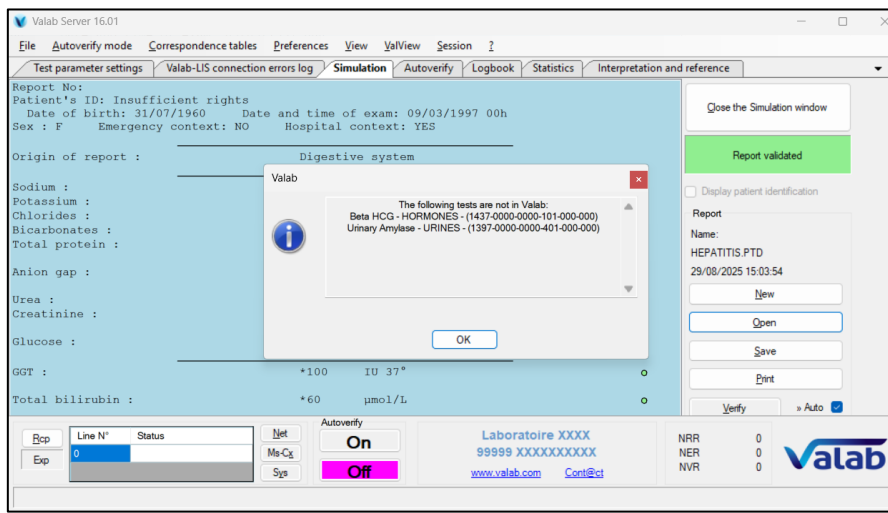
The Valab® tests catalogue is regularly updated and can be consulted at any time on our website or via automatic notifications through the tests subscription system, available from your customer area on www.valab.com.

3 Simulation

3.1 Displaying a report after deleting tests

A new test identification system has been set up to display tests of a report in simulation mode, after adding or removing tests. It is now possible to display an entire given medical report, even after having added or removed tests in Valab®.

A message will indicate the information about the tests which existed in the medical report but have meanwhile been deleted in Valab®. This will not prevent existing tests from being displayed.

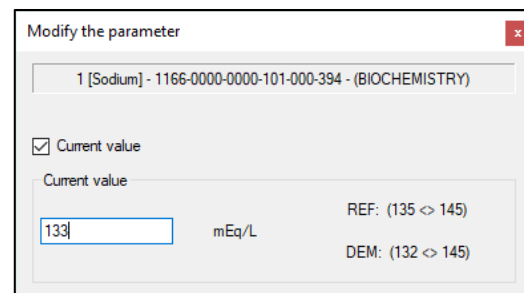
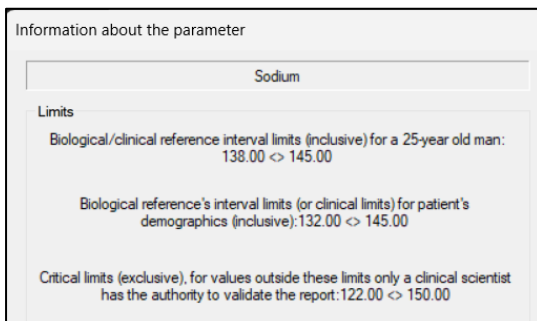


However, this new action is not retroactive and will only work for a report saved in Version 16 (or higher).

Specification: VLB-3748

3.2 Display of reference interval limits depending on demography

In the simulation mode, the biological reference interval limits corresponding to the demographic of the patient are now shown in the details and test edition windows. The display of the reference interval limits of a 25-year old man is preserved.



Note: this information is only available after verifying a report.

Specification: VLB-2367

3.3 Display of exceeded anteriority

In the simulation window, the date of the previous result is now displayed, even if it is not considered as it precedes the defined timeframe. In the latter case, the value will be displayed between brackets with the tag [PR limit exceeded].

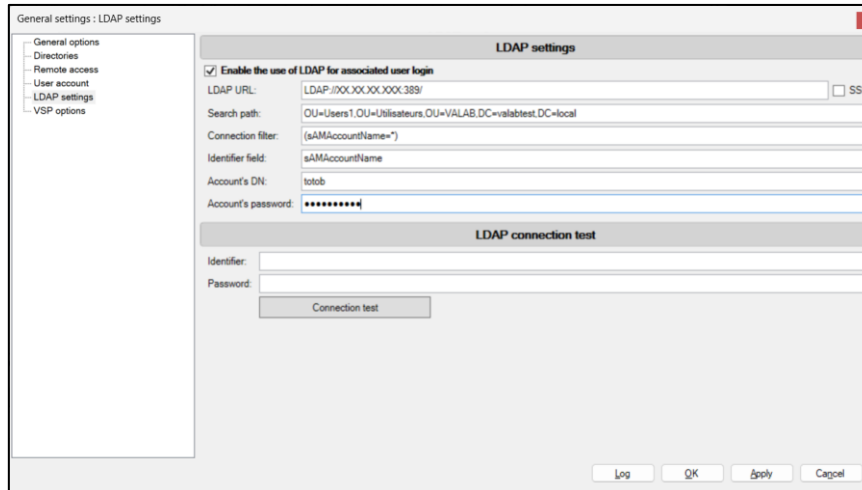
```
[1.2      12/02/2025 10h]
[PR limit exceeded]
```

Specification: VLB-3747

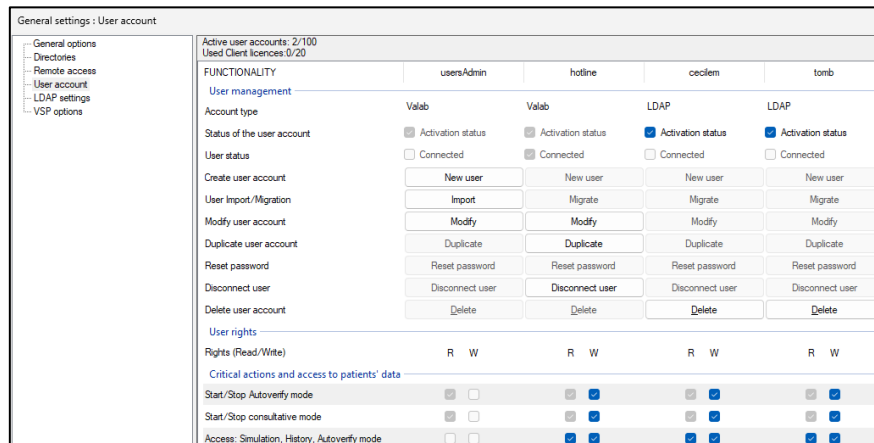
4 Security, traceability and GDPR

4.1 LDAP authentication support

From the current version, it is possible to connect the application Valab® to an LDAP directory (*Microsoft Active Directory, OpenLDAP...*), allowing users to connect through a unified authentication system. This option also allows for greater customization of the password strategy.



Once set up, it is possible to import users from the directory via the user management window. It is also possible to migrate a local user to an LDAP user. The users rights are preserved.



Specifications: VLB-3745, VLB-3892, VLB-3894, VLB-3895, VLB-3896, VLB-3897, VLB-3924, VLB-3985

4.2 Blocking multiple connections attempts

In order to enhance the application's security, a brute-force protection system has been implemented during the connection to the Valab® client.

A waiting time is triggered between two consecutive connection attempts. Multiple connection attempts are permitted (three by default, the number can be customized). After each failed attempt, the waiting time is doubled.

Specification: VLB-2265

4.3 Evolution of displaying the patient identifier

A new user right has been added, allowing to manage the visibility of the patient identifier in the simulation and the autoverify window. The right is called “Display patient identifier” (category “Critical actions and access to patients' data”) and replaces the global option in the “Modifying autoverification options” window. Neither “usersAdmin” nor “hotline” accounts have this right by default.

In addition, a checkbox located in the simulation window will allow masking the patient identifier. This action is only available if the user has the right: “Display patient identifier”.

Specifications: VLB-2102, VLB-3986

User rights				
Rights (Read/Write)	R	W	R	W
Critical actions and access to patients' data				
Start/Stop Autoverify mode	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Start/Stop consultative mode	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Access: Simulation, History, Autoverify mode	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Access: Real-time trace (RCP)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Display patient identifier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logbook access	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

4.4 Right associated to the logbook

A new user right for the access to the logbook has been introduced.

Specification: VLB-2221

4.5 Tracing users connection failures

All users connection failures are traced in the application logbook. Whether the latter arise from the situations “unknown user” or “wrong password” is not specified.

Specification: VLB-3743

4.6 Application signature

Valab® application and its installers are now digitally signed using a code signature certificate. This assures users that the application is provided by the VALAB company and that it has not been altered since it was signed.

Specification: VLB-4647

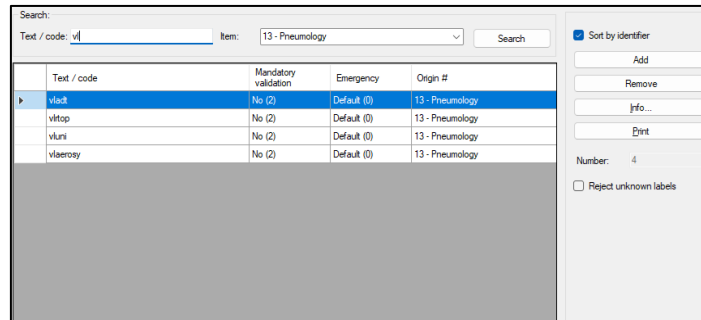
5 Correspondence tables

5.1 Adding a new filtering system

A filtering system has been set up in the “Correspondence tables” window.

It is now possible to filter entries by text, using an input box, and/or by item, using a drop-down menu, and by then pressing the button “Search”.

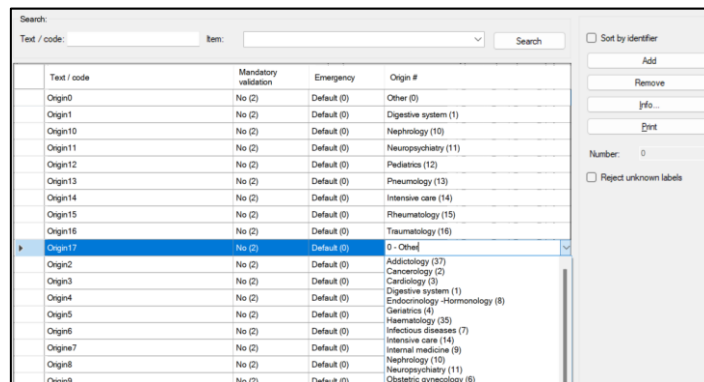
The filter is reset every time a different table is selected.



Specifications: VLB-2522, VLB-3680

5.2 Adding alphabetical filtering of items

It is now possible to filter items by alphabetical order (instead of identifier), by unticking the box “Sort by identifier”.



Specification: VLB-2523

5.3 Updating of prescriber items

The items of the table “Prescriber” have been updated, by replacing the term “Metabolic diseases” by “Endocrinology - Hormonology” (item 8) and by adding a new item named “Addictology” (item 37).

Specification: VLB-4032

5.4 Adding new TCI items

The “Therapeutic and clinical information (TCI)” item list has been extended with the following items¹:

190 - Methotrexate	211 - Giant cell arteritis (Horton)	231 - Bone metastasis
191 - Hydroxychloroquine	212 - von Willebrand disease	232 - Monoclonal gammopathy of undetermined significance
192 - Pre-exposure prophylaxis against HIV	213 - Gallstone	233 - Parathyroidectomy
193 - Lithium salt	214 - Gout	234 - Bariatric surgery
194 - TNF inhibitor	215 - Erysipelas	235 - Blood transfusion
195 - Immunotherapy	216 - Lyme disease	236 - Obesity
196 - Isotretinoin	217 - Prostatitis	237 - Amenorrhea
197 - Inflammatory bowel diseases	218 - Urinary tract infection	238 - Allergy
198 - Connective tissue disease	219 - Paget's disease of bone	239 - Intracranial hypertension
199 - Systemic lupus erythematosus	220 - Age-related neurodegenerative disease	240 - Sterility
200 - Coeliac disease	221 - Hypoparathyroidism	241 - Infertility
201 - Rheumatoid arthritis	222 - Acromegaly	242 - Cycle disorders (oligo-spanio-amenorrhoea)
202 - Ankylosing spondylitis	223 - Structural haemoglobinopathies (sickle cell disease)	243 - Decreased libido
203 - Coronary artery disease	224 - Myasthenia gravis	244 - Erectile dysfunction
204 - Haemophilia (A and B)	225 - Antiphospholipid syndrome	245 - Polycystic ovary syndrome
205 - Polycythaemia vera	226 - Multiple sclerosis	246 - Breastfeeding
206 - Pernicious anaemia	227 - Cardiomyopathy	247 - Hyperprolactinaemia
207 - Haemochromatosis	228 - Amyloidosis	248 - Galactorrhoea
208 - Hepatic steatosis	229 - Gilbert's syndrome	
209 - Sarcoidosis	230 - Cushing's syndrome	
210 - Arteriopathy		

Specification: VLB-3694

5.5 Adding new CI items

The “Complementary information (CI)” item list has been extended with the following items¹:

25 - Urinary catheterization	39 - Vet / Iguana	51 - Vet / Animal on critical antibiotics
26 - Second urine stream	40 - Vet / Python	52 - Vet / Stressed animal
27 - Vet / Sterilised	41 - Vet / Grey parrot	53 - Vet / Medetomidine
28 - Vet / Dog	42 - Vet / Bovines	54 - Vet / Portosystemic shunt
29 - Vet / Cat	43 - Vet / Pigs	55 - Vet / Exercise excess
30 - Vet / Equidae	44 - Vet / Sheep	56 - Vet / Insulinoma
31 - Vet / Ferret	45 - Vet / Goat	57 - Vet / Glucagonoma
32 - Vet / Rabbit	46 - Vet / Poultry	58 - Vet / Polyuria polydipsia
33 - Vet / Mouse	47 - Vet / Male	59 - Vet / Oestrus
34 - Vet / Rat	48 - Vet / Female	60 - Vet / Pro-oestrus
35 - Vet / Guinea pig	49 - Vet / Castrated	61 - Vet / Metestrus
36 - Vet / Hamster	50 - Vet / Cushing treatment	62 - Vet / Anoestrus
37 - Vet / Birds		
38 - Vet / Tortoise and Turtle		

Specification: VLB-3695

¹ New items will be incorporated into the test autoverification progressively, in line with rule updates.

5.6 Adding new Auto-Expert items

The Auto-Expert item list has been extended with the following items¹.

5.6.1 Conclusions of electrophoresis proteins

- | | |
|---|---|
| <ul style="list-style-type: none"> 69 - SPE / Haemolyzed: analysis not feasible 70 - SPE / Lipemic: analysis not feasible 71 - SPE / Profile with no significant anomalies 72 - SPE / Prescribed immunotyping (profile without anomalies) 73 - SPE / Presence of IgA Kappa monoclonal immunoglobulin 74 - SPE / Presence of an IgA Lambda monoclonal immunoglobulin 75 - SPE / Presence of an IgG Kappa monoclonal immunoglobulin 76 - SPE / Presence of an IgG Lambda monoclonal immunoglobulin 77 - SPE / Presence of an IgM Lambda monoclonal immunoglobulin 78 - SPE / Presence of an IgM Kappa monoclonal immunoglobulin 79 - SPE / Significant hypoalbuminemia 80 - SPE / Moderate hypoalbuminemia associated with an increase in A2-globulins 81 - SPE / Probable nephrotic syndrome (hypoalbuminemia, increased A2-globulins and decreased G-globulins) 82 - SPE / Profile compatible with an inflammatory syndrome associated with hypoalbuminemia 83 - SPE / Probable haemoconcentration 84 - SPE / Bisalbuminemia: congenital or secondary 85 - SPE / Increase in B1-globulins compatible with sideropenia 86 - SPE / Peak in B2-globulin fraction | <ul style="list-style-type: none"> 87 - SPE / Significant inflammatory syndrome or biliary cholestasis 88 - SPE / B2-globulins higher than the B1-globulins that justified immunotyping 89 - SPE / Beta-Gamma block suggestive of hepatocellular damage 90 - SPE / Presence of a monoclonal peak 91 - SPE / Collapse of gamma globulins (Immunotyping and Bence-Jones proteinuria recommended) 92 - SPE / Moderate decrease in G-globulins 93 - SPE / Peak G-globulin fraction 94 - SPE / Deformation of G-globulins: polyclonal increase, heterogeneity restriction, oligoclonal appearance or discrete monoclonal peak 95 - SPE / Profile compatible with an inflammatory syndrome with immune reaction and polyclonal activation of G-globulins 96 - SPE / Inflammatory profile 97 - SPE / Moderate inflammatory syndrome 98 - SPE / Significant inflammatory syndrome 99 - SPE / Probable alpha 1 antitrypsin deficiency 100 - SPE / Intravascular haemolysis possible (haptoglobin assay recommended) 101 - SPE / Global hypoproteinaemia 102 - SPE / No change from the previous layout 103 - SPE / Electrophoretic abnormality requiring immunofixation |
|---|---|

5.6.2 Phenotypes groups

- | | |
|--|--|
| <ul style="list-style-type: none"> 104 - Phenotype group A+ 105 - Phenotype group A- 106 - Phenotype group B+ 107 - Phenotype group B- | <ul style="list-style-type: none"> 108 - Phenotype group AB+ 109 - Phenotype group AB- 110 - Phenotype group O+ 111 - Phenotype group O- |
|--|--|

5.6.3 Antigen/phenotype rhesus

- | | |
|---|--|
| <ul style="list-style-type: none"> 112 - Rhesus Antigen C 113 - Rhesus Antigen c 114 - Rhesus Antigen E 115 - Rhesus Antigen e 116 - Rhesus phenotype CCEe 117 - Rhesus phenotype CCEe 118 - Rhesus phenotype CCee | <ul style="list-style-type: none"> 119 - Rhesus phenotype CcEE 120 - Rhesus phenotype CcEe 121 - Rhesus phenotype Ccee 122 - Rhesus phenotype ccEE 123 - Rhesus phenotype ccEe 124 - Rhesus phenotype ccee |
|---|--|

5.6.4 Veterinarians

- | | |
|--|--|
| <ul style="list-style-type: none"> 125 - Vet / Blood group dog A negative 126 - Vet / Blood group dog A1 127 - Vet / Blood group dog A2 128 - Vet / Blood group dog B, C, D, E, F, G | <ul style="list-style-type: none"> 129 - Vet / Blood group cat A 130 - Vet / Blood group cat B 131 - Vet / Blood group cat AB |
|--|--|

Specifications: VLB-2576, VLB-3108, VLB-3110, VLB-3116, VLB-4340

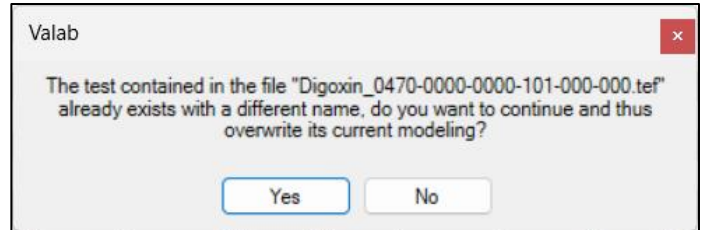
¹ New items will be incorporated into the test autoverification progressively, in line with rule updates.

6 Test parameter settings

6.1 Ability to import a renamed test

It is now possible to import an existing Auto-Expert test into the application with a same Names-Lab code and a different name.

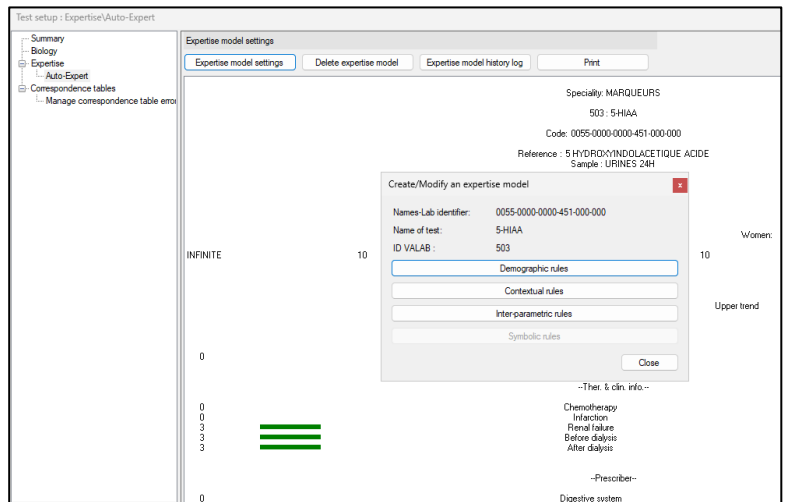
Specification: VLB-4169



6.2 Access to Auto-Expert test parameter settings

The access to Auto-Expert test parameter settings has been simplified by removing an intermediate dialog window. Buttons have been reorganized.

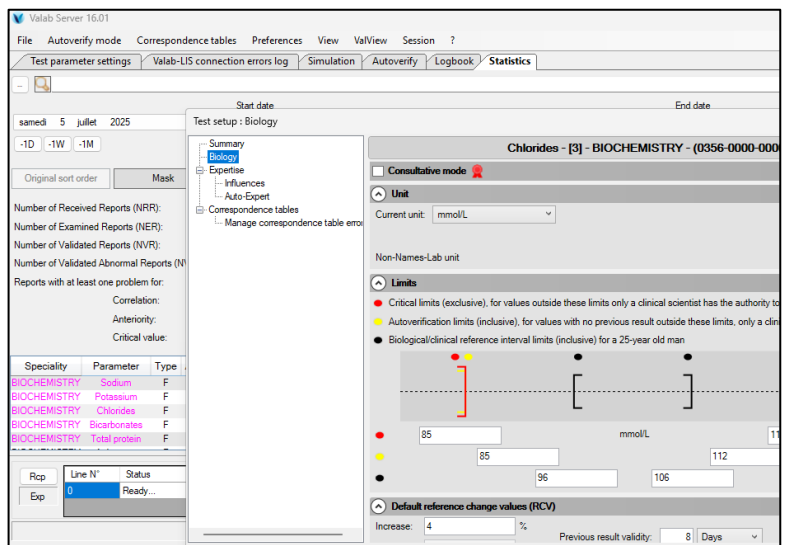
Specification: VLB-4523



6.3 Access to test parameter settings from statistics

The access to test parameter settings is now possible from the statistics window, through the table context menu (right click).

Specification: VLB-2632



7 Communication with the SIL

7.1 Removal of the old autoverification flags

From this version on, the autoverification flags “V12 extended” were renamed as “Standard” and are now the only preconfigured flags. It remains possible to customize flags, e.g. for the scenario that the SIL does not support the display of the standard flags.



When launching the application after the current update, flag behavior will be as follows: if the previous setup used old flags, the option will now be set to standard flags, thus changing the flags displayed in the SIL. This change will be logged in the system alerts as well as in the server logs file.

Specification: VLB-4547

7.2 Blocking numerical analysis received multiple times (if values differ)

The communication protocol now signals if multiple different numerical values are sent for the same test (or its redirected tests) within the same frame. A technical error flag (eT) will now show for these tests which will block the report. None of the received test values will be taken into account in the autoverification. An entry in the connection error log will be generated.

Specifications: VLB-2104, VLB-2508

7.3 Bridling of ‘O’ commands interpretation

For ‘O’ commands (prescribers or report origin), the interpretation system for frames coming from the SIL will no longer try to match those commands with the labels from Complementary information (CI), Therapeutic and clinical information (TCI) or symbolic tests.

Specification: VLB-2480

7.4 Removing N flag

The Neutral flag (N) has been removed from the flag settings. For this scenario, a Validated flag (V) is now being sent to the SIL.

Specification: VLB-3744

7.5 Activating default connections

During the first setup of the application, all connections with the SIL will now be activated.

Specification: VLB-4546

7.6 Interpretation of years on 4 characters only

Frames exchanged between Valab® and the SIL must use a 4-digit year date format. If the condition is not met, a syntax error is logged.

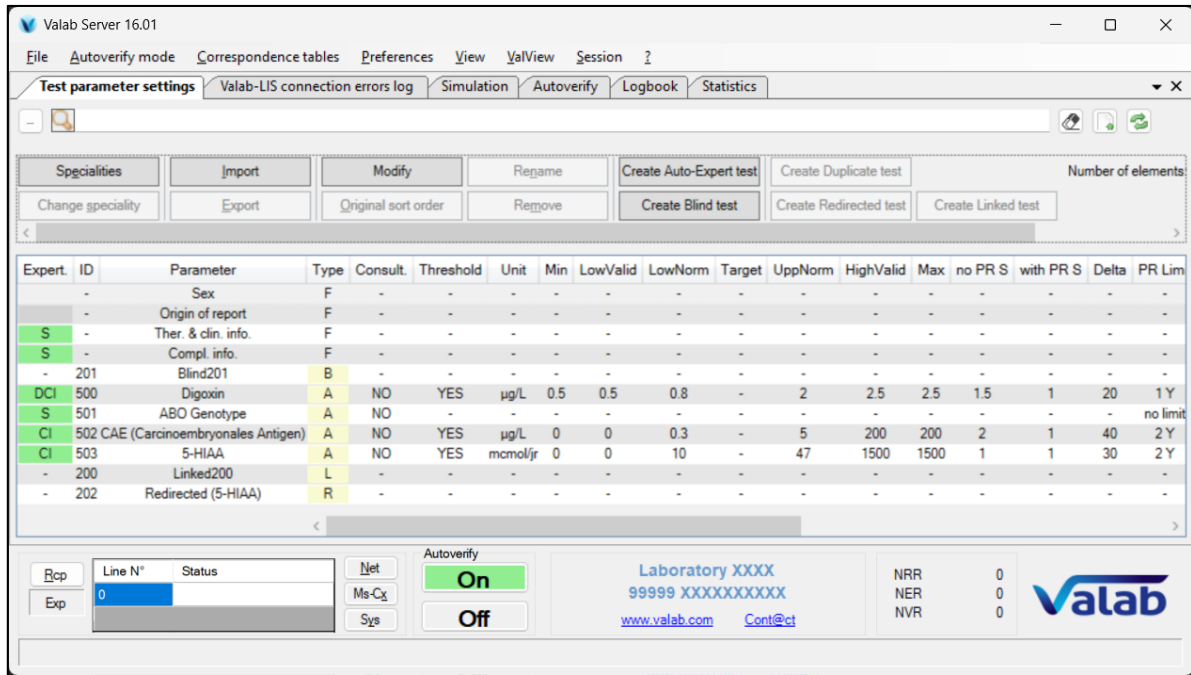
Specification: VLB-2595

8 License management

8.1 New option for license without module

The Valab® server can now run with a license that does not contain any active module.

In this case, the server will not have any module test loaded. Functionalities of Auto-Expert tests are preserved. They can be created, imported, customized and used. This is equally true for other test types (duplicate, redirected, linked or blind tests).



Specification: VLB-2626

8.2 Managing the items and specialties of original standard tests

Specialties and items of original standard tests are no longer determined by the active modules in the license. All (empty) specialties and items are now available in the application.

Similarly, importing an Auto-Expert analysis from an original specialty is no longer blocked if the specialty belongs to a module that is inactive in the license. However, it is still not possible to import an original standard test (type 'F') if its module is not active.

Specifications: VLB-3850, VLB-3851

8.3 Reactivation of the autoverify mode after switching to blocked mode

Autoverify will reactivate if it was active before the server entered blocked mode, upon returning to nominal mode from blocked mode, for clients on a VSP server license.

Specification: VLB-4458

9 Other developments

9.1 User interface

9.1.1 Development of the behavior of the “Expert.” column

For the “Expert.” column in the test parameter settings window, the C (contextual) and I (inter-parametric) acronyms will now take into account the activation (or not) of the influences of the original standard tests, in addition to the Auto-Expert rules.

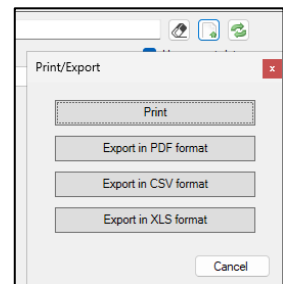
Specification: VLB-3683

9.1.2 CSV statistics export

Statistics can now be exported to the CSV format (separator: “;”).

The first line of the file contains both start and end dates, the second line contains global statistics information and the following lines contain the statistics test by test.

Specification: VLB-3741



9.1.3 Removal of the TXT export

In simulation mode, to view the real-time trace and the history of the patient report frames, the consultation mechanism using an external editor has been replaced by a copy to clipboard system.

Specifications: VLB-1203, VLB-2565

9.1.4 Removal of the display of active modules in the license

The information in the title bar showing modules loaded by the license and the client language as well as the duplicate information in the dialog window “About Valab” has been removed.

Specification: VLB-4094

9.2 Environment files

9.2.1 Removal of the obsolete files linked to patient reports

The system removing files linked to patient reports present in the file LIS_REPORT has been modified. It is now based on the date contained in the directory name.

Specification: VLB-4113

9.3 Installers

9.3.1 Addition of the “Portuguese” language

The Portuguese language (pt-PT) has been added to the installers and is now integrated into the Valab® application, both in the user interface and on the server side.

Specification: VLB-5033

9.3.2 Integration of new documents

The installers now include the user quick help document (flags) in German, Spanish, Italian, and Portuguese, as well as the qualification file of Valab in Spanish and Portuguese.

Specification: VLB-4079

9.3.3 Always deploy VAT for the server installer

The tool “Valab Anonymization Tool” (VAT), used by the VALAB Support for some services, is now always deployed by the Valab® server installer.

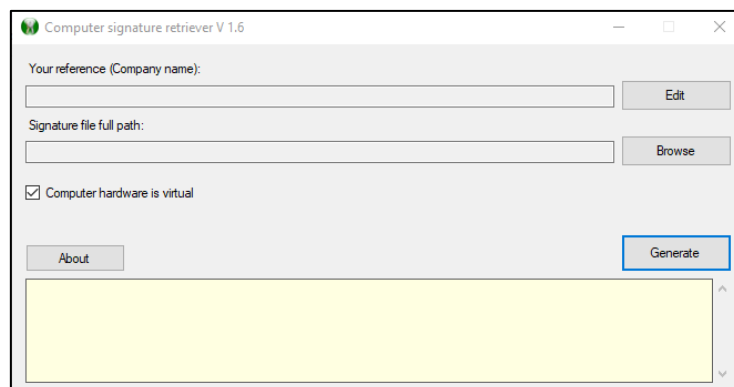
The “advanced tools” option of the installers now only concerns the tool "ValabSilReportExchangeAnalyser".

Specification: VLB-4038

9.4 Tools

9.4.1 Update of the options of the tool ComputerSignatureRetriever

Removal of an obsolete option and activation of the option by default “Hardware is virtual”, for the tool “ComputerSignatureRetriever”, used in the process of generating license files.



Specification: VLB-4062

10 Bug fixes

10.1 SIL connection

10.1.1 Switching to blocked mode when exceeding the limit of a VSP license

Integrating a fix for a situation where a switch to blocked mode could occur after exceeding the limit of report/day for a VSP license, for patient reports which have been sent from SIL to Valab earlier in the day.

Specification: VLB-4434

10.1.2 Inappropriate error trace for the connection

An inappropriate trace of type “Test with no value” was removed which occurred in the scenario when a symbolic test was received with unknown labels while the connection option “Ignore empty tests” was activated. The correspondence tables were configured to refuse unknown labels.

Specification: VLB-3981

10.2 User interface

10.2.1 Reading in simulation after original standard test import

Fix for a display problem of reports in simulation mode (verified by autoverification) after importing an original standard test (type “F”).

Specification: VLB-4112

10.2.2 Global data truncated in the statistics printing

Fix for a truncation issue for general data with more than five digits when printing or exporting the statistic in PDF format.

Specification: VLB-4083

10.2.3 Incorrect label in the edition trace of statistic alerts

Fix for non-matching values and labels in the logbook trace, which occurred when modifying statistics alerts.

Specification: VLB-4561

10.3 ValView

10.3.1 Date format

Corrected date formatting when communicating through the API to avoid errors that prevented data retrieval, depending on the date configuration in Windows®.

Specification: VLB-4324

10.3.2 Tooltip with absolute values for the indicator “Validation rate drift by test”

Fix for the information displayed in the tooltip of the indicator “Validation rate drift by test” to be able to display negative values as limits.

Specification: VLB-3952

10.3.3 Export indicator naming “Laboratory reference autoverification rate”

Fix for the default naming of the export file for the indicator “Laboratory reference autoverification rate”.

Specification: VLB-4657

10.4 VSP

10.4.1 Sending statistics to the VSP

Fix for a problem that rarely occurred when sending statistics information between ValabServer, ValabNode and the VSP.

Specification: VLB-4829

10.5 Automated system

10.5.1 Automated system latency when opening « Correspondence table errors »

Fix for a situation where the Automated system would be blocked (real-time autoverification) during the loading of the window “Correspondence table errors” when the correspondence tables are filled with a lot of entries.

Specification: VLB-4889