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## VTs 8.28.02

(available from June 2025)

### New features

- A number of improvements have been made based on the VTS versions 8.28.00 and 8.28.01.
- A data cleaning mechanism was implemented to prevent unnecessary growth of the database.

### Bug fixes

- Under certain circumstances, it was not possible to perform license updates via V2C files. This problem has been remedied.
- When exporting results in VTS format (.xstp) via the new user interface, the file name and file extension were not saved correctly. This error has been fixed.

## VTs 8.28.01

(available from March 2025)

### Bug fixes

- A number of stability improvements have been made based on the VTS version 8.28.00.

## VTs 8.28.00

(available from March 2025)

### New features

- New test: MECH
- The item pool of the INT test was expanded in test form S2 for the subtests Logical reasoning, Numerical ability, Verbal ability and Visual-spatial ability.
- In the INT test, the extended options (wizard) now offer 5 difficulty levels (Very easy, Easy, Medium, Difficult and Very difficult) for the adaptive, linear and randomized presentation.
- The AVIS test has been reprogrammed for VTS8.
- VTS Analytics is a new feature available in VTS online. With VTS Analytics, you can carry out statistical analyses based on your data directly in VTS online.
- The Test Generator can be used to create simple knowledge tests, questionnaires or surveys.
- The new test language Lithuanian (lt-LT) has been added to the VTS8.
- The design of VTS online has been revised. This has made the user interface more user-friendly and efficient and at the same time improved the general functionality.
- The user interface of the VTS Admin Client has been unified with the VTS online design. However, it is still possible to return to the old design.
- VTS online is now also available in Chinese (Simplified), Czech, Dutch, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovene, Slovak, Spanish, Swedish and Turkish.
- Error handling in the VTS Testplayer and data storage for tests with multiple subtests (e.g. INT, INSBAT-2, etc.) have been improved. The data is now saved in full after each completed subtest. In addition, the VTS offers the option of completing a testing in progress but still score the results already available.
- The performance of the VTS has been improved to allow even more tests to be administered in parallel.
- The installation of the VTS Testplayer Client and the VTS Admin Client are now available via Velopack instead of Microsoft ClickOnce. This ensures a safe and smooth installation process. This update means that administrator rights are no longer required, installation warnings are avoided and uninstallation is possible via standard Windows 10 and Windows 11 processes. In addition, WebView2 and Telerik WPF components have been updated to the latest version.
- CSV export has been optimized to prevent system overload and to ensure stability and reliability when processing large volumes of results.
- The VTS has been improved to enable smooth use even with a slow Internet connection or low-performance computers.
- Several improvements have been implemented to increase general security and stability.
- The release notes can now be accessed via the menu in the VTS.
- Users will now receive a notification as soon as the size of the SQL database approaches the maximum database size. This is to avoid that new data is not stored in the database. This function is currently only activated for the SQL Express database supplied as standard with VTS.
- Test batteries or test batteries with customer-specific scoring (BATEVA) that have been exported from other VTS systems or provided by SCHUHFRIED can now also be imported into VTS online. After import, these test batteries are available under

"Testing > Test Batteries". If the test battery contains customer-specific scoring (BATEVA), then this is available as additional scoring method for completed tests from the test battery.

### Bug fixes

- There was an error in the Dutch version of the WAFV test. This error was fixed.
- In the ZBA test, the animation of the items was not stopped if the test was interrupted with ESC+F5/E and a password for the test supervisor window (ESC+F5/E window) was set. This error was fixed.
- There was an error in the Czech version of the Word report of the DRIVEPLS test set. This error was fixed.
- The WG test could not be administered correctly if more than one screen was available. This error has been fixed.
- In some cases, the WRST test was aborted when certain answer options were selected. This error has been fixed.
- When exporting results in VTS format (.xstp), settings for anonymizing the data were not applied correctly. This problem has been remedied.
- The VTS tool "CandidateDecryption" did not cover all possible scenarios for system updates. This problem has been remedied.
- Under certain circumstances, not all test results were listed correctly in the "Results" tab in VTS online. This problem has been remedied.
- Users of local VTS installations with multi-clients could not log in to the VTS portal if not all dongles of all clients were plugged in. This problem has been remedied.
- Under certain circumstances, longer loading times occurred when HTML tests were presented in the Testplayer Client. This problem has been remedied.
- Under certain circumstances, no password was requested for the test supervisor window (ESC+F5/E) for a short time after installing VTS if password protection was set in the VTS. This problem has been remedied.
- Under certain circumstances, the script-based installation of VTS was not possible due to a code and SQL server incompatibility. The problem has been solved by a new SQL script that covers this scenario.
- Certain elements in Word report templates were displayed incorrectly. This problem has been remedied.
- A problem has been fixed when resetting custom email templates to the default template of the VTS failed in locally installed systems.
- User-defined email templates could have incorrect formatting. This problem has been remedied.
- Test emails to check changes to user-defined email templates were not sent correctly under certain circumstances. This problem has been remedied.
- In VTS online, PDFs for several results could not be downloaded at the same time. This problem has been remedied.
- Under certain circumstances, test batteries were not displayed correctly in VTS online. This problem has been remedied.
- Under certain circumstances, the results of a test set were not automatically exported with the GDT or HL7 plugin. This problem has been remedied.
- An issue has been fixed to allow the installation of VTS with an Azure SQL database without manual steps.
- The exchange of a test battery for direct testing of tests that had already been started did not work. Instead of starting the new test battery, the old test battery was restarted. This problem has been remedied.
- Under certain circumstances, no norm-referenced scores were displayed in PDFs if several results were exported together. This problem has been remedied.

## New translations

Tests	New languages
2HAND	lt-LT
FGT	lt-LT
FLEI	lt-LT
INHIB	lt-LT
MECH	en-US
MOUSE	lt-LT
NBV	lt-LT
SIMKAP	el-GR
SMK	lt-LT
STROOP	el-GR
STROOP (scoring)	hu-HU, sl-SI
TMT-L	lt-LT
TOL-F	lt-LT
VISGED	bg-BG, el-GR
WAF	lt-LT, sr-Latn
Test sets	New languages
COGBAT	lt-LT

Norm update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>3D</b>	S1	1000-1003	Update	Rep	Expansion, representative up to 79 years	Representative norm sample	982	2004-2017	Total, gender, age, education level
<b>AVIS</b>	S1	1000-1003	Update	Rep	Expansion	Representative norm sample	585	2008-2020	Total, gender, age, education level
<b>DT</b>	S4	80111	New	Conv	New norm sample	Applicants - Portugal	1140	2024	Total
<b>INT</b>	S1 & S2	1000-1003	Update	Rep	Expansion	Representative norm sample	614	2021-2024	Total, gender, age, education level
<b>LEVE</b>	S1	1000-1003	Update	Rep	Expansion	Representative norm sample	602	2005-2017	Total, gender, age, education level
<b>MECH</b>	S1	1000-1003	New	Rep	New norm sample	Representative norm sample	306	2024	Total, gender, age, education level
<b>SIGNAL</b>	S1	1000-1003	Update	Rep	Expansion, representative up to 79 years	Representative norm sample	1105	2011-2024	Total, gender, age, education level
<b>ZBA</b>	S3	1000, 1002-1004	Update	Rep	Expansion	Representative norm sample	612	2010-2024	Total, gender, age, education level

## VTs 8.27.100

(available from January 2025, VTS online only)

### New features

- It is now possible to export data sets in VTS format (xstp file) directly from the VTS Portal.
- In the VTS Portal, it is now possible to download multiple test results at the same time as one PDF.
- A task monitor has been integrated into the VTS Portal, which can be used to track the status of exports, PDF creation and other downloads.
- It is now possible to display the VTS Admin Client in the new design based on the VTS Portal.
- In the VTS Portal, it is now possible to specify how the identity of a test person is to be verified. You can choose between entering the date of birth, confirming the name or a combination of both options.
- In the VTS Portal, it is now possible to set that the test administrator must confirm the end of a testing.
- The release notes can now be accessed via the menu in the VTS Portal.
- After deletion of test results in the VTS Portal, a summary of the number of deleted results is now displayed.
- The selection of scales and subtests in the VTS Portal has been improved. The scales and subtests that have been selected, as well as the estimated duration of this selection, are now clearly displayed.
- The extended options for the BMT, INSBAT-2, INT and SPAN tests can now be opened directly in the test sequence in the Testing tab.
- Data storage for tests with multiple subtests (e.g. INT, INSBAT-2, etc.) has been improved. The data is now saved in full after each completed subtest. In addition, the VTS Portal also offers the option of completing a testing in progress but still score the already available results.
- Error handling in the VTS Testplayer has been improved. In addition, the instructions for test persons have been revised to make them clearer and to enable them to continue a test after technical difficulties (e.g. short internet outages, etc.).
- The scoring code has been added as a new field under personal data in the VTS Portal. The scoring code is also available as a column in the "Persons" and "Results" tabs.
- The performance of the VTS has been improved to allow even more tests to be administered in parallel.
- The PAUSE and ADDINS tests are now also fully available in the VTS Portal.
- A new interactive tutorial on "Test results" is now available in the VTS Portal.

### Bug fixes

- Discarding unsaved settings in the VTS Portal could lead to errors. This problem has been fixed.
- Under certain circumstances, only raw scores were displayed when creating PDFs with multiple test results, but no norm values. This has been fixed.
- Under certain rare circumstances some values were missing in the results of BATEVAs. This problem has been fixed.

- An error message could appear and tests could be aborted if the F3 key was pressed during the administration of browser-ready tests in the VTS Testplayer Client. This problem has been fixed.
- Several UI issues have been fixed to improve navigation in the VTS Portal.

## VTs 8.27.03

(available from December 2024)

### Bug fixes

- In certain circumstances, problems occurred when updating to the latest VTS version when the tool CandidateDecryption was activated. This problem has been remedied.
- In certain circumstances, the port number in VTS Service was changed when updating to the latest VTS version. This problem has been remedied.

## VTs 8.27.02

(available from November 2024)

### Bug fixes

- In certain circumstances, problems occurred when updating to the latest VTS version with scripts. This problem has been remedied.
- In certain circumstances, a test sequence containing multiple entries of PAUSE or ADDINS could not be started. This problem has been remedied.
- In certain circumstances, the VTS service was not executed, preventing the VTS from starting. This problem has been remedied.

## VTs 8.27.01

(available from September 2024)

### Bug fixes

- In certain circumstances, interrupted tests in the INT test could lead to serialization problems. As a result, the testing could not be continued. The problem has been fixed.
- In certain circumstances, no values for subtests from the INT test were displayed in BATEVA scorings. The problem has been fixed.
- In certain circumstances, the extended options (wizard) of certain tests in the VTS Admin Client could not be opened correctly. The problem has been fixed.
- A VTS update could not be carried out correctly on systems with a special date format. The problem has been fixed.

## VTs 8.27.00

(available from August 2024)

### New features

- The FRF test has been reprogrammed for VTS8.
- For the INHIB test, the S13 and S14 test forms were reprogrammed for the VTS8.
- The IVPE-R and PAUSE tests are now fully browser-compatible.
- The Premium reports SALES, STAFF and MANAGEMENT can now be generated with all INT and FCB5 test forms.
- The Czech translation of the DT test has been revised.
- In the VTS online Portal, it is now possible to customize the text of email invitations in the settings.
- In the VTS online Portal, it is now possible to use your own mail server in the settings.
- In the VTS online Portal, it is now possible to use customer-specific norms and BATEVAs.
- In the VTS online Portal, it is now possible to edit and customize Word report templates.
- The VTS online Portal now has a "Direct Testing" function. Direct Testing can be used with the following steps:
  - Assign a previously created "Test battery for Direct Testing" when creating a new person. For already created persons, the test battery can be assigned at a later date.
  - Enter a unique personal ID in the personal data.
  - Start the VTS Testplayer; the respondent is asked to enter the personal ID.
  - The respondent enters the personal ID to start the test.
- The "Start later" testing mode has been removed. Existing test sequences can be completed, but it is not possible to create new ones. We recommend using the new "Direct Testing" function from the previous entry instead.
- In the VTS online Portal, it is now possible to import personal data from a CSV file.
- The download of test results has been improved. It is now possible to download all the results of a test sequence in one PDF file. In addition, the PDF file name contains more information about the respondent (name, test date, name of the test battery).
- The VTS Integration Service (VIS) has been revised and converted to a different technology. The configuration was changed from XML to JSON. Existing configurations must therefore be revised.
- The name of test batteries is now also displayed in the "Results" tab in the VTS online Portal. This entry was previously empty.
- When starting the VTS Testplayer from the "Apps" section in the VTS online Portal, the multi-client name is automatically applied.
- Technological and security improvements were put in place.
- The VTS is no longer available for 32bit systems. The VTS HR, VTS NEURO, VTS TRAFFIC and VTS SPORT versions are no longer available.
- The design of the VTS online Portal has been revised and the workflow for users has been simplified.
- Interactive tutorials have been added to the VTS online Portal to explain selected functions in a simple, comprehensible way.

## Bug fixes

- There was an error in the English version of the TOM test. This error was fixed.
- In the INSBAT-2 test, one item of the Verbal fluency subtest was not clearly solvable. The item has been removed from the test.
- In the English version of the INSBAT-2 test, one item of the Text comprehension subtest was corrected.
- Under certain circumstances, problems with the time limit and the overview page could occur in the SMART test when administering the test online. This error was fixed.
- In the LVT test, the MDR variable was calculated incorrectly in some cases. This error was fixed.
- In the test form S2 of the CFD test set, norm-adjusted values for the results of the CORSI test were not displayed correctly. This error was fixed.
- There was an error in the Polish version of the STROOP test. This error was fixed.
- In the PP-R test, certain date settings of the operating system could cause problems with the display of the test protocol. This error was fixed.
- Under certain circumstances, all subtests of the INT test were presented, although a selection had previously been made. This error was fixed.
- Under certain circumstances, it was not possible to complete the update to a newer VTS version because the database password had changed. The problem has been corrected.
- The invitation link for an already created test battery no longer worked if changes were made to this test battery. This error was fixed.
- Under certain circumstances, the personal data on test results were not updated correctly if the personal data were changed. This error was fixed.
- Under certain circumstances, the VTS Admin Client started very slowly or not at all. This error was fixed.
- Under certain circumstances, the ZBA test could not be started correctly within a test battery after updating to a newer VTS version. This error was fixed.
- Various minor errors for SPSS export, result import and deletion of test batteries have been fixed.
- Under certain circumstances, the date entry was converted from the Gregorian to the Persian calendar during the identity check. The problem has been corrected.

**New translations**

Tests	New languages
A3DW	el-GR
SIGNAL	el-GR

Norm update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>2HAND</b>	S1	1030-1033	Update	Rep	Update of the representative norm sample with new data	Representative norm sample	780	Latest wave 2021-2023	Total, gender, age, education level
<b>2HAND</b>	S6	1030-1033	Update	Rep	Implementation of a new representative norm sample	Representative norm sample	326	2018-2019	Total, gender, age, education level
<b>BFSI</b>	S1	5050-5053	New	Rep	Implementation of the representative norm sample for China	Representative norm sample China	506	2019-2022	Total, gender, age, education level
<b>COG</b>	S11	5050-5053	New	Rep	Implementation of the representative norm sample for China	Representative norm sample China	493	2019-2022	Total, gender, age, education level
<b>DT</b>	S1	5050-5053	New	Rep	Implementation of the representative norm sample for China	Representative norm sample China	505	2019-2022	Total, gender, age, education level
<b>DT</b>	S5	1000, 1002-1004	Update	Rep	Update of the representative norm sample with new data	Representative norm sample	785	Latest wave 2019-2020	Total, gender, age, education level
<b>DT</b>	S6	1000-1003	Update	Rep	Update of the representative norm sample with new data	Representative norm sample	685	Latest wave 2022-2023	Total, gender, age, education level
<b>FGT</b>	S11	5050-5053	New	Rep	Implementation of the representative norm sample for China	Representative norm sample China	451	2019-2022	Total, gender, age, education level
<b>FLEI</b>	S1	5050-5053	New	Rep	Implementation of the representative norm sample for China	Representative norm sample China	451	2019-2022	Total, gender, age, education level

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>INHIB</b>	S13	5050-5053	New	Rep	Implementation of the representative norm sample for China	Representative norm sample China	451	2019-2022	Total, gender, age, education level
<b>MOUSE</b>	S1	5050-5053	New	Rep	Implementation of the representative norm sample for China	Representative norm sample China	451	2019-2022	Total, gender, age, education level
<b>NBV</b>	S1	5050-5053	New	Rep	Implementation of the representative norm sample for China	Representative norm sample China	451	2019-2022	Total, gender, age, education level
<b>RT</b>	S3	5050-5053	New	Rep	Implementation of the representative norm sample for China	Representative norm sample China	492	2019-2022	Total, gender, age, education level
<b>RT</b>	S5	1030-1033	Update	Rep	Update of the representative norm sample with new data	Representative norm sample	480	2011/2022	Total, gender, age, education level
<b>RT</b>	S6	1030-1033	Update	Rep	Implementation of a new representative norm sample	Representative norm sample	355	2019-2020	Total, gender, age, education level
<b>SIGNAL</b>	S2	1000, 1002-1004	Update	Rep	Implementation of a new representative norm sample	Representative norm sample	348	2014-2018	Total, gender, age, education level
<b>SIGNAL</b>	S3	1030-1033	Update	Rep	Implementation of a new representative norm sample	Representative norm sample	322	2018	Total, gender, age, education level
<b>SIMKAP</b>	S2	1030-1033	Update	Rep	Implementation of a new representative norm sample	Representative norm sample	433	2020-2023	Total, gender, age, education level

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>TMT</b>	S1	5050-5053	New	Rep	Implementation of the representative norm sample for China	Representative norm sample China	451	2019-2022	Total, gender, age, education level
<b>TOL</b>	S1/S2/S3	5050-5053	New	Rep	Implementation of the representative norm sample for China	Representative norm sample China	451	2019-2022	Total, gender, age, education level
<b>VIGIL</b>	S4	1000-1003	New	Rep	Implementation of a new representative norm sample	Representative norm sample	303	2019-2020	Total, gender, age, education level
<b>WAF</b>	S1	5050-5053	New	Rep	Implementation of the representative norm sample for China	Representative norm sample China	451	2019-2022	Total, gender, age, education level

Test set	Test set form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
COGBAT	S1	5050-5053	New	Rep	Implementation of the representative norm sample for China	Representative norm sample COGBAT China	451	2019-2022	Total, gender, age, education level

## VTs 8.26.10

(available from June 2024)

### New features

- With the VTS Command Tool, it is now possible to update https certificates in all VTS services at once.
- The VTS client applications now support http cookies to enable cookie-based load balancing across several servers.
- A new command line parameter was introduced that allows specifying the VTS service address for the VTS Testplayer Client.
- Starting from this version, passwords are no longer limited to Latin characters.
- The security requirements for passwords have been adapted. It is now also possible to change the minimum number of characters.

## VTs 8.26.01

(available from April 2024)

### Bug fixes

- During test presentation of SMK and ZBA using the VTS Testplayer Client, animations appeared juddery or delayed in certain circumstances. This problem has been remedied.
- During test presentation of FCB5 in a browser, testing sometimes did not correctly resume after pausing and had to be restarted. This problem has been remedied.
- In the INSBAT-2 test, the Mathematical Estimation subtest was recalibrated.
- In certain circumstances, the MOI and BFSI test results could not be opened. This problem has been remedied.
- To avoid problems when starting HTML tests in a browser, handling of time zones with 30 or 45-minute offsets has been improved.

### Additional information

- SQL script "wts\_2\_create\_tables" used in install by script scenario contains wrong database name in the USE statement. The statement has to be manually changed to "USE [wts\_deploy]" in order to run the script successfully. This issue exists since version 8.23.01.
- SQL script "dtc\_1\_update\_schema\_v8.26.0.sql" used in update by script scenario will cause error. Script has to be modified and statement SET PARSEONLY ON; must be added as the first line of the script before running it.

## VTs 8.26.00

(available from December 2023)

### New features

- The TACO test has been expanded to include two new parallel test forms for measuring divided attention.
- New test: SPAN
- New test: TMT-S
- Portuguese translations for the tests 2HAND, AMT, ATAVT, CORSI, DAKT, EPP6, MOI, SIGNAL, and VIGIL have been revised, as have portions of the VTS user interface.
- Tests that are part of the SCHUHFRIED Selection are now marked with a symbol.
- Starting with this version, the SCHUHFRIED Selection license is also available for offline installations of VTS.
- A warning is displayed if a user tries to start testing without the appropriate licenses.
- Performance and stability improvements were made to the installer. These improvements include:
  - A back-up copy of configuration files is created in case the SCHUHFRIED Help Desk is called on to help with updates.
  - The installation of newer test versions has been optimized.
  - The selection of an own TLS/SSL certificate has been improved.
  - It is possible to update to this version if SQL Express 2012 was used in the previous version. Doing so requires manual steps.
- Tests, test sets, and test batteries can be marked as favorites in the VTS portal. Items marked as favorites appear on the “Home” page and can be started directly from there.
- The Test Assistant was expanded to include new functions. It is now possible to add additional dimensions to a battery, to search for individual dimensions, and to mark batteries from the Test Assistant as favorites.
- Time stamps for all of VTS are now given in the time zone UTC. This change applies to test results and all exports, as well. The date formats will be automatically converted in the course of an update.
- Results options can now be set in the VTS portal. This makes it possible to individually select which options (e.g., profile, test protocol, norm types, etc.) appear on the result.
- Using the “General Settings” page of the Admin Client, it is now possible to remove SCHUHFRIED branding from results documents and printed scoring.

### Bug fixes

- In the FCB5 test a variable description was corrected.
- The results of the WAF test showed an incorrect duration. The duration of the last subtest was mistakenly displayed as the total duration. This problem has been remedied.
- In certain circumstances, entries to the Activity Protocol were displayed twice. This problem has been remedied.
- In certain circumstances, the VTS service did not start up in time. It was then impossible to open the Admin Client. This problem has been remedied.
- For multi-client-specific desktop shortcuts to the Testplayer Client, repeated requests for updates were made although an update had already been installed. This problem has been remedied.

- The camera could not be configured for the Picture2Proof functionality. This problem has been remedied.
- In certain circumstances, the presentation of the INSBAT-2 test in the Testplayer Client was interrupted by an error and could not be restarted. This problem has been remedied.
- In certain circumstances, opening the test supervisor window resulted in an error. This problem has been remedied.
- It was not possible to delete more than 1,000 persons at once in the Admin Client. This problem has been remedied.

## New translations

Tests	New languages
FCB5	hu-HU, pt-PT
SPAN	en-US
TACO (new test forms S5 & S6)	en-US, es-ES, fr-FR, hu-HU, pl-PL, nb-NO
TMT-S	en-US
SIGNAL	sl-SI (scoring added), zh-CN (scoring added)
VIGIL	zh-CN (scoring added)
INHIB	el-GR
FGT	el-GR
FLEI	el-GR
MOUSE	el-GR
NBV	el-GR
TMT-L	el-GR
TOL-F	el-GR
WAF	el-GR
Test sets	New language
COGBAT	el-GR

Norm update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>FGT</b>	S11	1000 - 1003	Update	Rep	Old norm sample replaced by new norm sample	Representative norm sample	573	2012-2023	Total, gender, age, education level
<b>FLEI</b>	S1	1000 - 1003	Update	Rep	Old norm sample replaced by new norm sample	Representative norm sample	383	2010-2023	Total, gender, age, education level
<b>INHIB</b>	S13	1000 - 1003	Update	Rep	Old norm sample replaced by new norm sample	Representative norm sample	573	2012-2023	Total, gender, age, education level
<b>NBV</b>	S1	2000 - 2003	Update	Rep	Old norm sample replaced by new norm sample	Representative norm sample COGBAT	573	2012-2023	Total, gender, age, education level
<b>MOUSE</b>	S1	1000 - 1001	Update	Rep	Old norm sample replaced by new norm sample	Representative norm sample	361	2012-2023	Total, gender, age, education level
<b>TMT-L</b>	S1 & S2 & S3	2000 - 2003	Update	Rep	Old norm sample replaced by new norm sample	Representative norm sample COGBAT	573	2012-2023	Total, gender, age, education level
<b>TOL-F</b>	S1 & S2 & S3	2000 - 2003	Update	Rep	Old norm sample replaced by new norm sample	Representative norm sample COGBAT	573	2012-2023	Total, gender, age, education level
<b>WAF</b>	S1	2000-2003	Update	Rep	Old norm sample replaced by new norm sample	WAF representative norm sample – COGBAT	573	2012-2023	Total, gender, age, education level
<b>COGBAT</b>	S1 & S2	1000-1003	Update	Rep	Old norm sample replaced by new norm sample	Representative norm sample COGBAT	573	2012-2023	Total, gender, age, education level

## VTs 8.25.01

(available from October 2023)

### Bug fixes

- A number of stability improvements have been made building on version VTS 8.25.00.

## VTs 8.25.00

(available from August 2023)

### New features

- The MOUSE test has been reprogrammed for VTS8.
- VTS updates to version 8.25.00 or newer are halted for compatibility reasons if the existing database is hosted in SQL server 2012 or older.
- It is now possible to configure the display settings of columns in the “Persons” and “Results” sections of the VTS Portal.
- New licenses can be installed through the VTS Portal without manually downloading the license file.
- License use reports now include the client code, so that clients who run more than one instance of the Vienna Test System can be billed correctly for the products they use.
- Technological and security improvements were put in place. Performance was also optimized.
- The browser-based VTS Testplayer can now be launched directly from the “Apps” section of the VTS Portal.

### Bug fixes

- Individual termination conditions defined for a test battery were not correctly applied. This problem has been remedied.
- The test supervisor window did not open correctly after too many errors in the instruction phase. This problem has been remedied.
- In some cases, import and export of persons in the Admin Client did not work. This problem has been remedied.
- On the start page of the VTS Portal, tests with a time-based license were presented in demo mode. This problem has been remedied.
- In some cases, test batteries were not launched or test results not stored correctly despite sufficient licenses. This problem has been remedied.
- In the VTS Portal, tests could not be presented in certain languages. This problem has been remedied.
- Word reports were not updated correctly if the contents of certain person fields was changed after the fact.
- When importing test batteries, settings were not applied for certain tests despite having been configured beforehand in the extended options of the test. This problem has been remedied.
- In some cases, the results of the IBF test were not displayed in the VTS Portal. This problem has been remedied.
- In some cases, test presentation of the TOL test was ended prematurely and an error message displayed. This problem has been remedied.
- In the VTS Portal section “General”, some non-completed testings were displayed under the heading “Test results from completed testings”. This problem has been remedied.
- When several test results were printed at once, the test results were not sorted by test presentation date. This problem has been remedied.
- Several errors in the creation of Word and Premium reports were remedied.
- When filtering test results by status in the “General” section of the VTS Portal, tests could not be loaded in the section “Results”. This problem has been remedied.

**New translations**

Tests	New languages
FCB5	fr-FR, pl-PL
MOUSE	fa-IR

## VTs 8.24.00

(available from April 2023)

### New features

- New test: FCB5
- The INT test has been expanded to include the new Long-term memory subtest.
- The NBV test has been reprogrammed for VTS8.
- In the test set DRIVE-SARAIL, the INSSV test has been replaced by the INT test. This applies equally to the premium SARAIL report.
- Support for the optional encryption of personal data in the VTS database will be ending with this update. Where optional encryption had been in use, all personal data are decrypted as part of this update.
- Technical aspects of the test result display were optimized in order to reduce loading time.
- Portal Offline is a modern, browser-based user interface for VTS8 that can be used as an alternative to the Admin Client. No additional installation of client-side software is necessary to use the interface. Portal Offline offers the same design and the same user-friendliness as VTS online, but can be used completely offline within a local network. Most of the functionality available in VTS online is available in Portal Offline as well. However, due to its off-line operation, a few functions had to be adapted or limited.
- The Test Assistant helps users find a suitable test for the questions they are trying to answer. What makes the Test Assistant so user-friendly are its preconfigured test batteries, which are tailored to a large number of potential research questions and are subject to continual improvement. As a simple introduction to the world of testing, the Test Assistant is intended primarily for those users who are not yet familiar with the large selection of tests SCHUHFRIED offers.
- The name of the person is displayed in the format "Last name First name".
- The VTS settings can now be accessed directly through the main navigation menu.
- The test results displayed take up a larger portion of the screen, so that more information is visible without scrolling.
- For each test battery, it is now possible to generate an invitation link that supports testing in open mode or in proctored mode. This invitation link can be sent to a respondent without that respondent's personal data being known beforehand. The respondent then enters their own personal data into the system at the beginning of the test.
- If a test can be completed in an internet browser, it is preset to be presented in an internet browser. This setting can be deactivated, so that the tests are completed in the testplayer instead.
- The "Results" page in VTS online shows the test form for each result.
- It is now possible to sort the entries in the "Persons" and "Results" tables.
- The results of the last five completed tests can be accessed directly from the home page.
- The version information is now available at [schuhfried.com](https://schuhfried.com) and is no longer part of the installation package. The URL path can be found in the *Manuals* folder of the installation file.
- To avoid performance problems when processing large files, a cue management system was introduced for test results and persons import and export.
- Even when the test is administered in the browser, the key combination ESC + E now brings up the test supervisor window.
- The testplayer help window was optimized so that it can be used without problems even if the clipboard function is deactivated.

- Due to changes in the underlying logic structure of the application with respect to simultaneous users, it is no longer possible for an individual user to be logged in multiple times in both Portal and Admin Client.
- The activity protocol was adapted to capture those activities performed in Portal Offline as well.
- When displaying the test results, it is now possible to select alternative scoring methods.
- It is now possible to select and open several test results simultaneously.
- Improvements were made to the “copying to clipboard” functionality, so that a user always knows what is copied and has the option to copy data manually.
- It is no longer necessary to pre-install additional NET Core components.
- Client set-up can now be installed without a running VTS service.

### Bug fixes

- In certain circumstances, a different norm was displayed in the dropdown menu on the test results page. This problem has been remedied.
- If a key was pressed on the response panel while the test was loading, the test could not be continued. This problem has been remedied.
- VTS service could not be configured to run on a larger number of servers connected with a database. This problem has been remedied.
- In certain circumstances, purchased subscriptions could not be applied correctly. This problem has been remedied.
- The time limit for the TOL and VISCO tests did not run if the tests were started from the VTS online portal. This problem has been remedied.
- Data for the NBV test could not be transmitted using the GDT plug-in. This problem has been remedied.
- It was possible to change the order of the subtests in a test set. This is now no longer possible.
- Results of individual scoring could not be sent automatically to the email address of the respondent. This problem has been remedied.
- When changing the test form, sometimes the incorrect test duration was displayed prior to the start of the test. This problem has been remedied.
- In certain circumstances, the respondent's birth year could not be entered.
- After an attempt to start testing in open mode without a license, the test could not be restarted after a license had been purchased. This problem has been remedied.
- In certain circumstances, the norms section of the manual could not be opened. This problem has been remedied.
- The extended options did not load correctly. This problem has been remedied.
- The VTS8 could not be installed with deactivated TLS 1.0 or 1.1. This problem has been remedied.
- In the results page, the test battery name was not displayed in the “Test name” column. This problem has been remedied.
- In certain circumstances, the SAFESC index was missing from the results of SAFESC-S1 and SAFESC-S2.
- If the testplayer had been installed via VTS8 client setup, it was not possible to connect to VTS online. This problem has been remedied.
- The “Cancel” button was active even during those times in the installation of VTS8 during which cancelling was no longer possible. This problem has been remedied.
- In certain circumstances, the outdated personal data could not be deleted properly. This problem has been remedied.
- For older tests, the update process could result in media being removed. The problem has been corrected.

- During an update/during creation of a database not all dimension values were applied correctly. The problem has been corrected.
- When the SAAIR test set was started from the VTS portal, all INSBAT subtests were presented. The problem has been corrected.
- There were also occasionally problems when loading the testplayer. Cache handling has therefore been updated and improved.
- Occasionally, printing test results for the tests AHA, IBF, MTA and VISGED did not work correctly. This problem has been remedied.
- In certain circumstances, errors occurred in the automatic PDF creation process, leading test results to be exported into multiple PDFs. This error has been fixed.
- In certain circumstances when exporting several test results simultaneously, there were problems compiling the test results. This problem has been remedied.
- If a test was interrupted, the test battery timer did not continue counting correctly. In addition, breaks in testing were not recorded correctly, affecting the calculation of the total test duration. As a result, interim testing results were not always saved. The problem has been corrected.
- In certain circumstances, the result of the SARAIL test set could not be opened if testing had been initiated from the VTS portal.
- After an update to a new VTS version, tests in a test battery were not updated to the current version. As a result, outdated test versions were still presented in test batteries. This created cases in which older tests and corresponding scales could not be installed. These problems have been remedied.
- The test supervisor window ignored the user's language settings and was presented in a different language than the one selected. The problem has been corrected.
- The testplayer ignored the INSBAT test battery configuration and administered the test with all available subtests. The problem has been corrected.
- Email address validation has been improved.
- The online testplayer mistakenly showed an error message relating to an unsupported device if a respondent accessed a test using a generated link. The problem has been corrected.
- British and American English were handled as incompatible languages, making it impossible to create a test sequence with this combination of languages. This problem has been remedied.
- Word reports could not be generated for a person with a comma in their name. This problem has been remedied.
- A problem leading to unexpected crashing, freezing, and/or infinitely repeated loading has been remedied.
- No test result was generated when the GDT plug-in created a new score. This problem has been remedied.
- In certain circumstances, emails could not be sent from the Admin Client in VTS online. This problem has been remedied.
- A selected norm or result language was sometimes not saved by the system, so that the user had to reselect the language when displaying the same result again later.
- During the instruction phase of the ZBA test, incorrect feedback was displayed for too early reactions.
- In the instruction phase on temporal anticipation as part of the ZBA test, respondents showed comprehension difficulties. The time delays triggering feedback were thus adapted.
- In the CORSI test, there were occasionally delays in saving results. This problem has been remedied.
- The Mathematical problem solving subtest of the INSBAT-2 test showed performance problems if the notepad contained long passages of text. These problems resulted from special characters.
- There was an error in the Czech version of the IVPE-R test. This error was corrected.

## New translations

Tests	New languages
FCB5	en-US
FGT	fa-IR
FLEI	fa-IR
INHIB	fa-IR
NBV	fa-IR
TMT-L	fa-IR
TOL-F	fa-IR
WAF	fa-IR
Test sets	New language
COGBAT (except MOUSE; planned for release 8.25)	fa-IR

Norm update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>ATAVT</b>	all forms	1001	Update	Rep	Implementation of a new division by age for the representative norm sample	Representative norm sample	831	2007-2015	Age
<b>CORSI</b>	S1	5040-5043	New	Rep	Implementation of the representative norm sample for Hungary	Representative norm sample – Hungary	415	2021-2022	Total, gender, age, education level
<b>FGT</b>	S1	5040-5043	New	Rep	Implementation of the representative norm sample for Hungary	Representative norm sample – Hungary	407	2021-2022	Total, gender, age, education level
<b>FLEI</b>	S1	5040-5043	New	Rep	Implementation of the representative norm sample for Hungary	Representative norm sample – Hungary	416	2021-2022	Total, gender, age, education level
<b>INHIB</b>	S3	5040-5043	New	Rep	Implementation of the representative norm sample for Hungary	Representative norm sample – Hungary	406	2021-2022	Total, gender, age, education level
<b>LAT</b>	S1	5040-5043	New	Rep	Implementation of the representative norm sample for Hungary	Representative norm sample – Hungary	410	2021-2022	Total, gender, age, education level
<b>NBV</b>	S1	5040-5043	New	Rep	Implementation of the representative norm sample for Hungary	Representative norm sample – Hungary	396	2021-2022	Total, gender, age, education level
<b>TMT</b>	S1	5040-5043	New	Rep	Implementation of the representative norm sample for Hungary	Representative norm sample – Hungary	409	2021-2022	Total, gender, age, education level

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>WAF</b>	S1	5040-5043	New	Rep	Implementation of the representative norm sample for Hungary	Representative norm sample – Hungary	378	2021-2022	Total, gender, age, education level
<b>AWLT</b>	S1	50010-50013	New	Conv	Implementation of the norm sample 50+ CFD for Portugal	Norm sample 50+ CFD – Portugal	395	2018-2021	Total, gender, age, education level
<b>AWLT</b>	S2	50014-50017	New	Conv	Implementation of the norm sample 50+ CFD for Portugal	Norm sample 50+ CFD – Portugal retesting	362	2018-2022	Total, gender, age, education level
<b>CORSI</b>	S7	50010-50013	New	Conv	Implementation of the norm sample 50+ CFD for Portugal	Norm sample 50+ CFD – Portugal	395	2018-2021	Total, gender, age, education level
<b>CORSI</b>	S7	50014-50017	New	Conv	Implementation of the norm sample 50+ CFD for Portugal	Norm sample 50+ CFD – Portugal retesting	362	2018-2022	Total, gender, age, education level
<b>TMT-L</b>	S1	50010-50013	New	Conv	Implementation of the norm sample 50+ CFD for Portugal	Norm sample 50+ CFD – Portugal	395	2018-2021	Total, gender, age, education level
<b>TMT-L</b>	S2	50014-50017	New	Conv	Implementation of the norm sample 50+ CFD for Portugal	Norm sample 50+ CFD – Portugal retesting	362	2018-2022	Total, gender, age, education level
<b>VISCO</b>	S3	50010-50013	New	Conv	Implementation of the norm sample 50+ CFD for Portugal	Norm sample 50+ CFD – Portugal	395	2018-2021	Total, gender, age, education level
<b>VISCO</b>	S4	50014-50017	New	Conv	Implementation of the norm sample 50+ CFD for Portugal	Norm sample 50+ CFD – Portugal retesting	362	2018-2022	Total, gender, age, education level

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>WAF</b>	S1	50010-50013	New	Conv	Implementation of the norm sample 50+ CFD for Portugal	Norm sample 50+ CFD – Portugal	395	2018-2021	Total, gender, age, education level
<b>WAF</b>	S1	50014-50017	New	Conv	Implementation of the norm sample 50+ CFD for Portugal	Norm sample 50+ CFD – Portugal retesting	362	2018-2022	Total, gender, age, education level
<b>WIWO</b>	S1, S3	50010-50013	New	Conv	Implementation of the norm sample 50+ CFD for Portugal	Norm sample 50+ CFD – Portugal	395	2018-2021	Total, gender, age, education level
<b>WIWO</b>	S2, S4	50014-50017	New	Conv	Implementation of the norm sample 50+ CFD for Portugal	Norm sample 50+ CFD – Portugal retesting	362	2018-2022	Total, gender, age, education level
<b>WOBT</b>	S1	50010-50013	New	Conv	Implementation of the norm sample 50+ CFD for Portugal	Norm sample 50+ CFD – Portugal	395	2018-2021	Total, gender, age, education level
<b>WOBT</b>	S2	50014-50017	New	Conv	Implementation of the norm sample 50+ CFD for Portugal	Norm sample 50+ CFD – Portugal retesting	362	2018-2022	Total, gender, age, education level

Test set	Test set form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
CFD	S1	50010-50013	New	Conv	Implementation of the norm sample 50+ CFD for Portugal	Norm sample 50+ CFD – Portugal	395	2018-2021	Total, gender, age, education level
CFD	S2	50010-50013	New	Conv	Implementation of the norm sample 50+ CFD for Portugal	Norm sample 50+ CFD – Portugal retesting	362	2018-2022	Total, gender, age, education level

## VTs 8.23.02

(available from March 2023)

### Bug fixes

- In Direct Testing, the language selection page sometimes displayed only very small versions of client logos. The page has been improved and the logos are now displayed in a larger size.
- The size of the reference and comparison images for the COG test differed very slightly. They have now been unified to the exact same size.
- In certain circumstances when exporting several test results simultaneously, there were problems compiling the test results.
- There were also occasionally problems when loading the testplayer. Cache handling has therefore been updated and improved.
- Occasionally, printing test results for the tests AHA, IBF, MTA and VISGED did not work correctly. This problem has been remedied.
- In certain circumstances, errors occurred in the automatic PDF creation process, with test results exported into several PDFs. This error has been fixed.
- For the SAAIR test set, all dimension of the INSBAT test were always automatically selected.

## VTs 8.23.01

(available from December 2022)

### New features

- The FGT test has been reprogrammed for VTS8.
- A link has been added to the encryption information in the Admin Client that points to the “Test security and data protection” page.

### Bug fixes

- For the TOL-F test, there could be errors with storing data under certain circumstances. This problem has been remedied.
- It could happen under certain circumstances that in VTS online more than the selected subtests were included in the test sequence for INT/S2. This problem has been remedied.
- The subtest settings for INT/S2, INSBAT-2, and BMT were sometimes not applied when a new version of VTS was installed between creating the test sequence and presenting the tests. This problem has been remedied.
- It could happen under certain circumstances that test results were not displayed for certain tests after opening them, and the user had to try again. This problem has been remedied.
- The user management and extended options for INT/S2, INSBAT-2, and BMT could sometimes not be opened after installing a new client instance. This problem has been remedied.
- It was not possible to use time-based licenses for certain tests. This problem has been remedied. The affected tests were: BMT, CORSI, INT, PRIO, and TACO.
- The GDT plugin ignored export variables configured for the test battery. This problem has been remedied.

## VTs 8.23.00

(available from November 2022)

### New features

- The LVT test has been reprogrammed for VTS8.
- The TOL-F test has been reprogrammed for VTS8.
- Support for the optional encryption of personal data in the VTS database will be ending with this version.
- The test invitation link sent to individuals by email has been shortened.
- It is now possible in VTS online to invite multiple persons at the same time for testing in open or proctored mode.
- It is now possible to define an expiration time for the password. Users with an expired password can no longer log on and need to change the password.
- On the “Results” page in VTS online, it is now possible to access the invitation link sent to the person and to copy it to the clipboard.
- On the “Results” page in VTS online, it is possible to select multiple test results at the same time and delete the details at the same time.
- On the “Persons” page in VTS online, it is now possible to select multiple persons at the same time and delete the details together with the associated test results.
- On the “Environment details” page in VTS online, it is now possible to find the license usage for a certain period.
- Direct updating of versions older than 8.12.00 is no longer supported. Customers with such versions have to update to version 8.12.00 and continue updating to the latest version in a further step.
- The field “End of testing” is now displayed with a date and time in the test result.
- The HL7 plug-in now also supports UTF-8 coding.
- The administrator can now generate a link for resetting the password for every user. The user can set a new password via this link.
- The version of the required .NET CORE Framework has been changed to 3.1.29.
- It is now possible in VTS online to start tests directly by clicking on the “Start” button.
- The automatic recovery option has been configured for the VTS Service so that it is started automatically in the case of a crash.
- Persons who complete the Web Testing can continue in the same spot where they stopped in case of a server-side error.

### Bug fixes

- In the SARAIL test set, some tests were marked as optional and could therefore not be presented in VTS online. This problem has been remedied.
- In the MLS test, there was an error in the French translation. This error was corrected.
- An error in the instructions was corrected in the Bulgarian version of the COG test.
- Under certain circumstances, a test sequence could be started on two different computers at the same time. This problem has been remedied.
- The loading speed of the results was slower when the results were filtered by status. This problem has been remedied.
- Entries in the Activity Protocol showed the wrong user for the activity “Test result opened”. This problem has been remedied.

- Under certain circumstances, generating the PDF file with the test result failed and the user was shown an error message. This problem has been remedied.
- Generating a shared PDF file for combined test results in a BATEVA created multiple files instead of one.
- Under certain circumstances, the test results could not be scored when a larger number of persons was tested at the same time.
- For the long-term memory of the INSBAT-2 test, no break was inserted automatically between the learning phase and test phase. This problem has been remedied.
- Under certain circumstances, the PDF file for the test results of the WAF could not be created.
- PR- and T-scores were not displayed in the PDF file of the test results for the SCL-90-R, VPT3, DT, SIGNAL, and COG tests when the PDF file was generated before opening the test result. This problem has been remedied.
- For Direct Testing, it was not possible to copy the HR ID from the Clipboard. This problem has been remedied.
- The function "Invite support" in VTS online did not work reliably. This problem has been remedied.
- The configuration for INSBAT-2, INT, and BMT was not stored correctly when the test was stored in a test battery. This problem has been remedied.
- The Vienna Test System 8 Client could not be started when the name of the PC contained special characters. This problem has been remedied.
- Under certain circumstances, the user was deactivated after updating to a newer version. This problem has been remedied.
- The user setting for the results option "Variable description" was not saved. This problem has been remedied.
- For smaller browser windows, the education level could sometimes not be selected when starting the test. This problem has been remedied.
- Under certain circumstances, the key combination ESC+E did not work correctly. This problem has been remedied.
- Under certain circumstances, the VTS service could not be started properly after restarting. As a result, the Vienna Test System Client 8 could not be opened and the Testplayer could not be loaded. This problem has been remedied.
- The function "Picture 2 Proof" sometimes did not save all picture of respondents. This problem has been remedied.
- Changes to the results options in the Vienna Test System 8 Client of test results already retrieved via VIS were not included when retrieving them again via VIS. This problem has been remedied.
- Under certain circumstances, the exported test results could not be imported into another system. This problem has been remedied.

### New translations

Tests	New languages
PRIO	it-IT
SWITCH	bg-BG
Tests by languages	Test
it-IT	PRIO
bg-BG	SWITCH

Norm update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>2HAND</b>	S3	80108	New	Conv	Implementation of a new convenience sample	Professional drivers - Portugal	3424	2017-2018	Total
<b>RT</b>	S3	80108	New	Conv	Implementation of a new convenience sample	Professional drivers - Portugal	724	2017-2018	Total
<b>WRBTv</b>	all	80108	New	Conv	Implementation of a new convenience sample	Professional drivers - Portugal	170	2017-2018	Total
<b>ZBA</b>	S2	80108	New	Conv	Implementation of a new convenience sample	Professional drivers - Portugal	704	2017-2018	Total
<b>ZBA</b>	S3	80108	New	Conv	Implementation of a new convenience sample	Professional drivers - Portugal	2881	2017-2018	Total
<b>RT</b>	S6	80109	New	Conv	Implementation of a new convenience sample	Applicants - Portugal	346	2017-2018	Total
<b>SIGNAL</b>	S1	80109	New	Conv	Implementation of a new convenience sample	Applicants - Portugal	355	2017-2018	Total

## VTs 8.22.03

(available from September 2022)

### New features

- The ZBA test has been reprogrammed for VTS8.
- The validation of e-mail addresses was improved to accept domains with more than 4 characters.

### Bug fixes

- It is now possible in VTS online to open the test result even if one of the tests in a battery was skipped.
- Under certain circumstances, it was not possible to delete a test battery or a word report. This problem has been remedied.
- A person's data sets are not adapted when changing the gender. This problem has been remedied.
- Creating the PDF of the WAF scoring took longer than usual. This problem has been remedied.
- When using a response panel, the numbers were sometimes entered twice when entering the personal ID. This problem has been remedied.
- The notes on password requirements have been improved for Direct Testing.
- It is now possible to use queuing for the generation of test results in scenarios with hosting on multiple servers.

New translations

Tests	New languages
2HAND	uk-UA
INT	pl-PL
ZBA	uk-UA
Test sets	New languages
DRIVE-PL	uk-UA
Tests by languages	Test
pl-PL	INT
uk-UA	2HAND, ZBA
Test sets/language	Test
uk-UA	DRIVE-PL

Norm update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
ZBA	S1	1000-1004	Update	Rep	Update of the representative norm sample with new data	Representative norm sample	864	2019-2020	Total, age, gender, education level
ZBA	S4	1000-1003	Update	Rep	Update of the representative norm sample with new data	Representative norm sample	625	2014-2017	Total, age, gender, education level

## VTs 8.22.00

(available from July 2022)

### New features

- The CORSI test has been reprogrammed for VTS8.
- The new DRIVE-R (Fitness to Drive France) test set is available for France.
- The user management in the Vienna Test System 8 Client has been replaced by a web-based version.
- The process for creating new users has been revised. An invitation link is now created for every user. Users can complete the registration after clicking on the invitation link by assigning their own user name and password.
- The security permissions for the "Vienna Test System 8" folder have been modified. The safety permission is now only set for the logged in user.
- The process of generating test results in the Vienna Test System has been improved.
- The user is now informed that changes to an existing test battery have no impact on already sent test batteries.
- It is now possible to adapt the settings for environments that have already been created. This includes:
  - Alternative display of the full birth date or birth year of the person to be tested
  - Test behavior for too many errors during the practice phase
  - Possibility of placing a user-defined logo at the start of a test
  - Configuring the test result options
  - Setting a test supervisor password
- French has been added as a new interface language for VTS Online.
- It is now possible to assign a cost center to a user.
- In addition, it is now possible to assign the department to a user and a person. This lets users filter the personal data according to these entries.
- It is now possible to transmit the education level when using the HL7 plugin.
- It is now possible to specify the multi-client for creating the person in the system when using the HL7 plugin.
- The HL7 plugin has been adapted so that the ACK message is now sent via the same TCP connection.
- In the HL7 plugin, it is now possible when generating the test results to define whether all of a candidate's test results should be used.
- It is now possible to include the time of completion of a test session in the export definition of the HL7 plugin.
- The GDT plugin has been expanded. It is now possible to also integrate calculated variables in the export in test sets.
- The displaying of errors when sending out test invitation e-mails in VTS Online has been improved. Users are informed that an e-mail could not be sent. This notification now no longer disappears automatically after a few seconds.
- The option to not set a password has now been added to the password change function.

### Bug fixes

- In the DAKT and SIMKAP tests, display issues could occur for very high screen resolutions combined with scaling over 125% when carrying out tests in the browser. This problem has been fixed.

- The Vienna Test System 8 Client sometimes was not installed with the setup automatically. This problem has been fixed.
- For Direct Testing, it was not possible to carry out the identity verification by entering the birth date. This problem has been fixed.
- The GDT plugin did not separate the variables of the individual tests for test batteries. The test variables will be exported in separate files from now on.
- In some cases, it was not possible to delete many test results at the same time in the Vienna Test System 8 Client. This problem has been fixed.
- It was not possible to open test results for the DRIVESTA, SAFESC/S3, WAF-LT, and CFADHD in VTS Online. This problem has been fixed.
- The dropdown menu for selecting the abort criterion was not displayed correctly in the extended options (wizard) of the INT and INSBAT-2. This problem has been fixed.
- Under certain circumstances, it was possible that test codes could not be generated correctly. This problem has been fixed.
- When the WAF-ST was presented as part of a test battery and individual subtests were deselected, these subtests were presented anyway. This problem has been fixed.
- Under certain circumstances, the test results were not imported automatically for online tests. This problem has been fixed.
- It was not possible to remove the INSBAT test from the test sequence in the SAAIR test set. This problem has been fixed.
- Under certain circumstances, loading of the test results was delayed and could result in an error in the Vienna Test System 8 Client. This problem has been fixed.
- Under certain circumstances, there were delays when starting the Vienna Test System 8 Client, which could result in an error. This problem has been fixed.
- It was not possible to purchase licenses for the TMT-L test in the Marketplace. This problem has been fixed.

#### Additional information

- The working time of the BMT test is currently not being displayed correctly in the DRIVE-FR test set. Instead of 8 minutes, the duration displayed is 65 minutes.

New translations

Tests	New languages
DT	uk-UA
INT	cs-CZ
TACO	pl-PL
Test sets	New languages
DRIVE-FR	de-DE, en-US, nl-NL, pl-PL tr-TR
Tests by languages	Test
cs-CZ	INT
pl-PL	TACO
uk-UA	DT
Test sets/language	Test
de-DE	DRIVE-FR
en-US	DRIVE-FR
nl-NL	DRIVE-FR
pl-PL	DRIVE-FR
tr-TR	DRIVE-FR

## VTs 8.21.01

(available from April 2022)

### New features

- The new test language Ukrainian (uk-UA) has been added to the VTS 8.
- In the test set DRIVE-PL, the IVPE test has been replaced by the IVPE-R test.
- An overall scoring is displayed in the DRIVEPLS test set even if the PP-R test was not presented. In this case, the calculation corresponds to the DRIVESTA test set calculation.
- Users can change their password on their own after logging in.
- If a user name should have already been taken, users are asked to select another name.
- The Administration area shows an overview of all linked environments, users, and the security levels assigned to the users.
- When presenting a test to a new respondent, the language of the user is preselected as the default language.
- The Administration area shows all users of the environment.
- Adding users in the environment has been made more intuitive.
- Respondents who have been inactive for a certain period and/or have not received any test invitations can now be archived automatically. Users can define this period themselves.
- Invitation e-mails have been streamlined and now also support text written from right to left.
- User roles in the VTS online have been simplified.

### Bug fixes

- In the Portuguese translation of the INHIB, a sentence was not displayed correctly in test forms S7 and S8. This error has been fixed.
- In the RT test, there were slightly delayed measurements in the purely auditory test forms S2 and S8 under certain circumstances. The test has been optimized and the problem has been fixed.
- In the SIGNAL test, it was possible for individual reactions to not be registered correctly under certain circumstances. This error has been fixed.
- Persons with a missing ID could not be imported from the CSV file. This error has been fixed.
- Under certain circumstances, no PDFs and WORD reports could be created. This error has been fixed.
- When installing the setup, WebView2 runtime was not installed in some cases. This error has been fixed.
- Due to an error while reading newly calculated variables, no more reports could be created. This has been corrected.
- After an update to 8.20, the status "not started" was sometimes displayed after sending out a test invitation and the test scoring could not be called up as a result. This error has been fixed.
- The same test could not be installed for multiple clients. This error has been fixed.
- Importing GDT files was not possible under certain circumstances. This error has been fixed.

- Copying an error message to the Clipboard was not possible in some cases. This error has been fixed.
- When starting AdminClient ClickOnce, an error occurred in rare cases. This error has been fixed.
- Invitations for tests in Proctored Mode were erroneously sent to the respondent's e-mail address. This error has been fixed.

New translations

Tests	New languages
AMT	uk-UA
B19	uk-UA
COG	uk-UA
INT	it-IT
IVPE-R	pl-PL; uk-UA
RT	uk-UA
Tests by languages	Test
it-IT	INT
pl-PL	IVPE-R
uk-UA	AMT, B19, COG, IVPE-R, RT

## VTs 8.20.00

(available from February 2022)

### New features

- The INT test has been expanded to include the new visual-spatial ability subtest.
- The TACO test has been expanded to include two new parallel test forms for measuring sustained attention.
- The SIMKAP test has been expanded to include an HTML-enabled version.
- Test batteries can be created and run in VTS online.
- HTML Testplayer was replaced with Testplayer Web. Testplayer Web is implemented in modern technology.
- The status of all tests is displayed in VTS online.
- In the Testplayer, multiple test types can now be combined into a single test presentation.
- In VTS online, it is now possible to invite SCHUHFRIED support staff into your own environment with just one click.
- VTS can be integrated with customer software via the HL7 protocol. Some use cases are supported.
- The display of the manuals in the AdminClient has been optimized.
- The fully qualified domain name (FQDN) is primarily used for communicating when installing the VTS. Alternatively, the machine name is used if the FQDN cannot be determined.
- The team version in the setup has been updated.
- The Control Monitor displays tests that are being carried out in the Testplayer Web.
- The entries "Intersex" and "No entry" have been introduced for the input options for the respondents' gender.
- For VTS online, applications are hosted in the Azure Cloud with 64 bit.
- When importing persons via CSV, a person will not be added twice if the personal ID number already exists in the system.

### Bug fixes

- In VTS online, the search did not always return all results under Administration → Users. This error has been fixed.
- In the AdminClient, the creation date was not imported when importing persons via CSV. This error has been fixed.
- The performance regarding the start of the test has been optimized.
- The performance of the scoring has been optimized in terms of generating the scoring.
- In VTS online, the link to the Marketplace under Administration → User was incorrect. This error has been fixed.
- In VTS online an error occurred when generating reports when they contained special characters in the name (e.g., č, ć, đ, ž...). This error has been fixed.
- An error could occur when deleting BATEVAs. This error has been fixed.
- In VTS online, the e-mail with the test results sent out automatically after testing could not be displayed correctly. This error has been fixed.
- In VTS online no new persons could be added at times. This error has been fixed.

- WTSResultUploader could not establish a connection to the server when this took place via HTTP. This error has been fixed.
- An error in the instructions has been corrected in the Polish version of the INHIB test.
- Some formulations were adapted in the Portuguese translation of the MOI test.

#### Additional information

- For ClickOnce Testplayer, the query for creating the shortcut with a Windows user is not handled specifically.
- The VIS HL7 plugin is currently not sending any ACK messages.
- When switching from the HTML Testplayer to the new Testplayer Web, already started tests will be restarted. The respective test that was interrupted previously will be restarted.

New translations

Tests	New languages
COMPRO	es-ES
LVT	cs-CZ
TMT-L	sv-SE
Test sets	New languages
FEV	cs-CZ
Tests by languages	Test
es-ES	COMPRO
cs-CZ	LVT
sv-SE	TMT-L
Test sets/language	Test/Test set
cs-CZ	FEV

Norm update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
INT	all	1000-1003	New	Rep	Renorming as part of including the new Visual-spatial ability subtest	Representative norm sample	387	2021-2022	INT
TACO	S3	1000-1003	New	Rep	Inclusion of the representative norm sample of the new test form S3	Representative norm sample	325	2021	TACO
TACO	S4	1000-1003	New	Rep	Inclusion of the representative norm sample of the new test form S3	Representative norm sample	317	2021	TACO

## VTs 8.19.01

(available from December 2021)

### Bug fixes

- Fixed issues with mail sending in VTS Admin Client
- Tackled problems in ELST test

## VTs 8.19.00

(available from October 2021)

### New features

- The COG test has been reprogrammed for VTS8.
- The SMK test has been reprogrammed for VTS8.
- An additional index for symptom validation of cranio-cerebral trauma or stroke was added to the GET test.
- TestResults now available in VTS online
- The automatic export in VTS now also supports network paths.
- UI improvements in VTS online
- VTS now shows the “about” information of SCHUHFRIED GmbH under General Settings > Info.
- The PRIO test can now also be sent out as an e-mail invitation from within the AdminClient.

### Bug fixes

- There was an error in the translation in hu-HU for the CORSI and FGT tests. This error was corrected.
- There was an error in the nl-NL translation of the RT test. This error was corrected.
- In the TACO test, it was possible under certain circumstances that a feedback text was displayed truncated. This error was fixed.
- After installing customer-specific norms, it could happen that the standard norms were changed. This error was fixed.
- In VIS, there could be a deadlock when carrying out the action for creating a person. This error was fixed.
- For certain actions in VTS online, very many API calls regarding the licensing were executed. This error was fixed.
- When opening the Start testing dialog box, the focus was on the close button. This error was fixed.
- When redirecting from VTS online to VTS Marketplace, the language was not considered or the language in VTS Marketplace was always set to English. This error was fixed.
- In VTS online, an error could occur when an attempt was made to download a scoring before it was completed. This error was fixed.
- When importing the test results via the Testplayer Client, the progress was not displayed. This error was fixed.
- In VTS, different languages were selected as the fallback when opening a test manual when the originally selected language was not supported. This error was fixed.
- In the scoring, the age of the person was displayed incorrectly when testing was carried out on an operating system with a calendar set to Arabic. This error was fixed.
- When starting a time-sensitive test, there could be an error when two Testplayers with different versions were installed at the same time. This error was fixed.
- The link to Picture-to-Proof was not created. This error was fixed.
- In VTS online, it was possible for testing sent via the AdminClient to not be displayed. This error was fixed.

- After updating from an older VTS 8 version, it could happen that the persons and the test results were not displayed. This error was fixed.
- In VTS online, the identity of the tested person was checked when starting PRIO directly. This error was fixed.
- In VTS online, the button for downloading the Word report for BFSI-INT and B5PS-INT was active even though they do not support Word reports. This error was fixed.
- When logging onto the VTS, there was an error when the VTS Service was distributed to two or multiple servers (load balancing). This error was fixed.
- In VTS, the customer-specific reports were not shown immediately after installing them. The VTS Service had to be restarted. This error was fixed.
- For some tests, the test presentation sometimes froze when the test with data storage was canceled. This error was fixed.

New translations

Tests	New languages
BMT	tr-TR, ara
A3DW	nb-NO
BFSI	nb-NO
INT	nb-NO
SMK	nb-NO
TACO	nb-NO
VISGED	nb-NO
DT	nb-NO
SIGNAL	nb-NO
VIGIL	nb-NO
Test sets	New languages
COGBAT	hu-HU (Scoring added)
SAFESC	nb-NO
Tests by languages	Test
ara	BMT
nb-NO	A3DW, BFSI, INT, SMK, TACO, VISGED, SIGNAL, VIGIL, DT
tr-TR	BMT
Test sets/language	Test/Test set
hu-HU	COGBAT
nb-NO	SAFESC

Norm update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>BFSI</b>	S2	80110	New	Conv	The new norm sample "Applicants (Pilots) - Norway" was added.	Applicants (pilots) - Norway	182	2020-2021	Total
<b>INT</b>	S1	80110	New	Conv	The new norm sample "Applicants (Pilots) - Norway" was added.	Applicants (pilots) - Norway	182	2020-2021	Total
<b>TACO</b>	S1	80110	New	Conv	The new norm sample "Applicants (Pilots) - Norway" was added.	Applicants (pilots) - Norway	182	2020-2021	Total
<b>KEKS</b>	S2	80100	Update	Conv	The convenience sample "Alcohol dependent drivers and drivers likely to commit motoring offense - Austria" was moved to S1 from S2.	Alcohol dependent drivers and drivers likely to commit motoring offense - Austria	895	2017-2019	Total
Test set	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>SAFESC</b>	S1	80110	New	Conv	The new norm sample "Applicants (Pilots) - Norway" was added.	Applicants (Pilots) - Norway	182	2020-2021	Total

## VTs 8.18.00

(available from June 2021)

### New features

- The DT test has been reprogrammed for VTS8.
- The STROOP test has been reprogrammed for VTS8.
- Relevant manual updates:
  - cs-CZ: DRIVESTA, DRIVEPLS
  - sk-SK: DRIVESTA, DRIVEPLS
- The communication for the VIS will primarily take place via HTTPS from now on. In addition, the VIS now supports .NET CORE as a framework for the client integration.
- The HL7 interface was implemented for the following scenario: Respondents can be added in the VTS via the HL7 interface with a third-party system. After testing in the VTS, the test result can be transmitted to a third-party system via the HL7 interface.
- For the DT test in the Testplayer, there is now an option to skip the instructions. Using ESC + F5 takes you to the menu where you can use the "F1 - Restart test" function to choose which phase to start with. This lets you skip parts of the instructions that have already been explained.
- In a Word report, different norm samples can now be used instead of individual ones. This also applies for graphical elements in the Word report.

### Bug fixes

- A translation mistake in cs-CZ was corrected in the AMT test.
- In the EPP6 test, unselected evaluation elements (e.g. test protocol) were printed anyway. This error was fixed.
- In the MOI test, there was an error for the output of the job suggestions under certain conditions. This was corrected.
- In the SMATRT test, the scroll bar was not always displayed for Chromebooks under certain circumstances. This error was corrected.
- For the SKASUK test, no scales were selected by default.
- During installation, there was an error when the WTSKATALOG bacpac was imported. This problem was fixed with the setup for 8.18..
- For some tests, selecting the input devices for a testing did not work.

### Additional information

- The VIS has been switched over from HTTP to HTTPS. This may result in additional work for customers when updating the VIS since they will also have to switch their software to HTTPS. Alternatively, the VIS (or the configuration file) continue to support wsHttpBinding on HTTPS provisionally, but basicHttpBinding should be primarily used. Please adhere to the installation instructions for the installation.

New translations

Tests	New languages
PP-R	fi-FI
Word reports	New languages
SFTEAM	fr-FR
Tests by languages	Test
fi-FI	PP-R
Word reports according to languages	Test/Test set
fr-FR	SFTEAM

## VTs 8.17.01

(available from April 2021)

### Bug fixes

- It was not possible to create test codes for test sets in VTS online. This bug has been fixed.
- Right now it is not possible to start the PRIO test in VTS online. The possibility for that has been removed. It is still possible to invite a test person via mail to the PRIO test and the test person can execute the PRIO with the browser.
- The Quickstart feature of the HTML test player was not working. This bug has been fixed.
- Installation using clickonce setups did not work. This bug has been fixed.

## VTs 8.17.00

(available from April 2021)

### New features

- New test: BMT
- New test: PRIO
- The SIGNAL test has been reprogrammed for VTS8.
- The VIGIL test has been reprogrammed for VTS8.
- The administrator role for VTS online users has had the following functions added:
  - The sub-point “Users” and “Environment” have been added to the side navigation on the administration screen.
  - Administrators see a list of all the environment’s users and can click on them individually to view details and delete if necessary.
  - Invitation links for VTS online can be sent to users who have already been created.
  - For their environment, administrators can see which users have been assigned and can assign new users.
  - Administrators can see what test licenses are available to this environment.
- If a respondent makes multiple errors in the instruction examples, the instructions are now repeated by default. Customers with a Premium subscription can set other options here via the Admin Client.

### Bug fixes

- Sound output with the D-panel’s sound generator is no longer supported in the RT test. A comment to this effect has therefore been added to the scoring of the RT if an uncalibrated audio device has been used during the test.
- Presentation of DT/S6 required the computer’s audio settings to be confirmed even though the test form does not use any audio output. This has been corrected.
- The updating of versions prior to 8.10.00 could in some cases lead to problems in using the database.
- The display of supervisor-supported instructions in the TMT-L test was faulty when HTML presentation was used. The problem has been corrected.
- Some browsers displayed texts incorrectly in VTS online.
- When a test was started via ClickOnce, the language was not always identical to the language selected in VTS online.
- Installation of the VTS occasionally caused an unwanted restart of the computer.
- Problems occurred during login when additional multi-clients were installed.
- Installation caused problems with the SQL server.
- In some cases there were problems when tests were started via the Testplayer, even if the correct code was entered.
- In some cases it was possible to re-start tests that had already been completed.
- In some cases the language of the test, the input window for entering personal data and the test loading window was not identical.
- In some cases there was a problem with creating licenses for locally installed VTS systems.

## Additional information

- Major changes have been made to the config files of “Service” and “Client”. Existing config file templates should not be transferred one to one; instead, they must be adapted to the individual system.
- If the computer is renamed, several manual steps are then needed to make the VTS operational again. The procedure can be found in the installation instructions.
- The system requirements have changed. Windows 7 is no longer supported. The SQL server must be at least the 2014 version.
- In installations with multiple servers and a DB, an error occurs when logging into the AdminClient.

## New translations

Tests	New languages
ATAVT	ara
BMT	en-US, fr-FR, nl-NL, pl-PL
FGT	zh-CN
FLEI	zh-CN
INHIB	zh-CN
MOUSE	zh-CN
NBV	zh-CN
PRIO	en-US
STROOP	da-DK
TMT-L	zh-CN
TOL-F	zh-CN
Test sets	New languages
COGBAT	zh-CN
FEV	ara
Manuals	New languages
BMT	en-US
PRIO	en-US
Tests by languages	Test
ara	ATAVT
en-US	BMT, PRIO
da-DK	STROOP
zh-CN	FGT, FLEI, INHIB, MOUSE, NBV, TMT-L, TOL-F
Test sets/language	Test
ara	FEV
zh-CN	COGBAT

Norm update

Test	Test form	Norm no.	Update/new	Rep/Conv/Excl	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>BMT</b>	S1	1000-1003	New	Rep	Inclusion of the representative norm sample	Representative norm sample	357	2020	Total, age, gender, education level
<b>PRIO</b>	S1	1000-1003	New	Rep	Inclusion of the representative norm sample	Representative norm sample	341	2021	Total, age, gender, education level
<b>VIGIL</b>	S1	1030-1033	Update	Rep	Update of the representative norm sample with new data	Representative norm sample	611	2017-2018	Total, age, gender, education level
<b>VIGIL</b>	S2	1040-1043	Update	Rep	Update of the representative norm sample with new data	Representative norm sample	738	2017-2018	Total, age, gender, education level

## VTs 8.16.01

(available from February 2021)

### New features

- The DRIVESTA and DRIVEPLS test sets have a new scoring system. The opportunities for compensating for performance impairments have been revised on the basis of new samples/data.
- Following feedback, several points in the translation of RT in pt-PT have been revised and improved.
- HTTPS is being used for communication between client and server to encrypt the exchange of data and thus make it safer. This has involved making some changes and improvements in the setup for local VTS systems.
- Multiple candidates can start a test session with the same link. Previously, a separate link had to be sent to each candidate. If the testing is started via the link, an individual candidate data set is created in the VTS.
- Test results can be downloaded directly in the Testplayer.
- Customers in the Marketplace can now buy a one-year license for each locally installed VTS system. Previously it was only possible to buy licenses for individual test presentations.
- The user interface in the Marketplace has been adapted. Products are now highlighted graphically and the text has been improved or had explanations added.
- New user interface in the Administration for managing “environments” and their users.
- When tests are emailed to candidates, the candidates are informed that they should not / cannot reply to the email. The email is sent from autoreply@schuhfried.com. They are told to contact the test supervisor with any questions.

### Bug fixes

- In the RT test, there were certain circumstances in which the Testplayer window did not close properly at the end of the test. This problem has been remedied.
- The feedback text for right answers in a subtest of SMART S1 was not correct and has been corrected.
- For the ATAVT text, the translation of the test names in zh-CN has been corrected in all test forms.
- In the S4 test form of SMK, the representative norm sample was not correctly displayed. This problem has been remedied.
- In the HTML-version of TMT-L a button was not displayed properly. This problem has been remedied.
- In the subtest Long-Term Memory of INSBAT-2, under certain circumstances the “Next” button could not be pressed after the pause had expired.
- In some cases candidates were duplicated, and test links could not be opened. This has been corrected.
- Sometimes test results were not saved in the database at the end of the test. There are now several safety mechanisms that ensure that the test results are saved.
- During updates it was suggested to users that they should change the port for the connection to the server. The port is now set correctly automatically.
- In client-server installations, service calls regarding system availability sometimes failed. This resulted in a lot of error entries in the Testplayer log file.

### Additional information

- Major changes have been made to the config files of “Service” and “Client”. Existing config file templates should not be transferred one to one; instead, they must be adapted to the individual system.
- If the computer is renamed, several manual steps are then needed to make the VTS operational again. The procedure can be found in the installation instructions.
- The system requirements have changed. Windows 7 is no longer supported. The SQL server must be at least the 2014 version.
- Updating of versions earlier than 8.10.00 can lead to problems with the database user. This can be resolved through manual interventions or by an update to 8.10 and a further update to 8.16.
- Manually configured certificates are overwritten by the setup process with “standard” certificates. To prevent this, the certificate must be stated as a setup parameter.
- Customers who are used the HTML Testplayer cannot continue unfinished test sessions at the last position, but start again from the beginning.

### New translations

Tests	New languages
IVPE-R	ara
MAP	ro-RO
SMART	ro-RO

Norm update

Test	Test form	Norm no.	Update/new	Rep/Conv/Excl	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>FGT</b>	S11	90003	New	Excl	A new exclusive norm sample "Patients with affective disorders - Germany" has been produced.	Patients with affective disorders - Germany	155	2016-2018	Total
<b>INHIB</b>	S13	90003	New	Excl	A new exclusive norm sample "Patients with affective disorders - Germany" has been produced.	Patients with affective disorders - Germany	126	2016-2018	Total
<b>NBV</b>	S1	90003	New	Excl	A new exclusive norm sample "Patients with affective disorders - Germany" has been produced.	Patients with affective disorders - Germany	152	2016-2018	Total
<b>TMT</b>	S1	90003	New	Excl	A new exclusive norm sample "Patients with affective disorders - Germany" has been produced.	Patients with affective disorders - Germany	152	2016-2018	Total
<b>TOL</b>	S1	90003	New	Excl	A new exclusive norm sample "Patients with affective disorders - Germany" has been produced.	Patients with affective disorders - Germany	145	2016-2018	Total
<b>WAF</b>	S1	90003	New	Excl	A new exclusive norm sample "Patients with	Patients with affective disorders - Germany	138	2016-2018	Total

Test	Test form	Norm no.	Update/new	Rep/Conv/Excl	Type of change	Name	Scope [N]	Data collection period	Segmentation
					affective disorders - Germany" has been produced.				
<b>AMT</b>	S1-S2, S5-S11	90005	New	Excl	A new exclusive norm sample "Healthy older drivers - Austria" has been produced.	Healthy older drivers - Austria	107	2017-2018	Total
<b>ATAVT</b>	all	90005	New	Excl	A new exclusive norm sample "Healthy older drivers - Austria" has been produced.	Healthy older drivers - Austria	108	2017-2018	Total
<b>COG</b>	S11	90005	New	Excl	A new exclusive norm sample "Healthy older drivers - Austria" has been produced.	Healthy older drivers - Austria	108	2017-2018	Total
<b>DT</b>	S1	90005	New	Excl	A new exclusive norm sample "Healthy older drivers - Austria" has been produced.	Healthy older drivers - Austria	107	2017-2018	Total
<b>FGT</b>	S11	90005	New	Excl	A new exclusive norm sample "Healthy older drivers - Austria" has been produced.	Healthy older drivers - Austria	102	2017-2018	Total
<b>FLEI</b>	S1	90005	New	Excl	A new exclusive norm sample "Healthy older drivers - Austria" has been produced.	Healthy older drivers - Austria	108	2017-2018	Total
<b>INHIB</b>	S13	90005	New	Excl	A new exclusive norm sample "Healthy older	Healthy older drivers - Austria	102	2017-2018	Total

Test	Test form	Norm no.	Update/new	Rep/Conv/Excl	Type of change	Name	Scope [N]	Data collection period	Segmentation
					drivers - Austria" has been produced.				
<b>NBV</b>	S1	90005	New	Excl	A new exclusive norm sample "Healthy older drivers - Austria" has been produced.	Healthy older drivers - Austria	103	2017-2018	Total
<b>PP-R</b>	S1	90005	New	Excl	A new exclusive norm sample "Healthy older drivers - Austria" has been produced.	Healthy older drivers - Austria	105	2017-2018	Total
<b>RT</b>	S3	90005	New	Excl	A new exclusive norm sample "Healthy older drivers - Austria" has been produced.	Healthy older drivers - Austria	108	2017-2018	Total
<b>TMT</b>	S1	90005	New	Excl	A new exclusive norm sample "Healthy older drivers - Austria" has been produced.	Healthy older drivers - Austria	104	2017-2018	Total
<b>TOL</b>	S1	90005	New	Excl	A new exclusive norm sample "Healthy older drivers - Austria" has been produced.	Healthy older drivers - Austria	104	2017-2018	Total
<b>WAF</b>	S1	90005	New	Excl	A new exclusive norm sample "Healthy older drivers - Austria" has been produced.	Healthy older drivers - Austria	101	2017-2018	Total

## VTs 8.15.03

(available from June 2021)

### Bug fixes

- Logging improvements for “HealthCheck”

## VTs 8.15.02

(available from November 2020)

### Bug fixes

- Setup could not be carried out in 32-bit versions of Windows.
- Because of a faulty version check, setup could not be carried out on some software from a third-party provider.
- If a user had forgotten their user name, it was not possible for them to log in. The user name could not be restored.
- On the desktop version (AdminClient) of the Vienna Test System, installation of updates failed on systems with more than one user. It was no longer possible to log in.
- In Word reports and BATEVAs, values with decimal points were missing if the test was conducted in the Farsi language.
- In some tests with a special presentation algorithm and a time limit, expiry of the time limit sometimes resulted in everything that the respondent had entered being deleted. This problem has been remedied.
- In Windows 8.1 a certificate error sometimes occurred when an attempt was made to log into the desktop version (AdminClient) of the Vienna Test System.
- Sometimes an error occurred if VTS was installed without a preinstalled .NET 4.8 Framework.
- Under certain conditions the Testplayer Web session could not be saved. In this case testing cannot be interrupted.

### New translations

Tests	New languages
PP	pl-PL
Test set	New language
FEV	el-GR

## VTs 8.15.01

(available from November 2020)

### New features

- New test: INSBAT-2
- The ELST test has been revised for VTS 8. During the conversion process some test forms were added and some removed:
  - Test form S5 (screening form) was added.
  - Test form S2 was removed during the reprogramming but it is still available as a translation into en-US in test form S1.
  - Test form S4 was removed during the reprogramming but it is still available as a translation into en-US in test form S3.
- The INT test has been expanded to include a new test form S2. Extended options are available for test form S2. For example, settings on target reliability and test presentation mode (linear, randomized or adaptive) can be chosen.
- In the MOI test, the Austrian professional register has been updated with entries for 2019 and 2020.
- Relevant manual adaptations de-DE:
  - INT
- Relevant manual adaptations en-US:
  - INT
- Relevant adaptations in the Word report de-DE
  - INT
  - ELST
- Relevant adaptations in the Word report en-US
  - INT
  - ELST
- The design of the AdminClient login screen has been revised.
- The deletion of persons has been optimized.
- The Marketplace search function has been improved.
- The setup for the VTS as a single workstation or as server/client has been standardized.
- The archiving and memory requirements of log files has been optimized.

### Bug fixes

- If the time available for a subtest runs out, the last item presented is no longer counted. This has been standardized across all tests.
- At the start of testing in Testplayer Web, the respondent can now choose from various languages for the registration process, provided that this option has been activated in the AdminClient settings.
- In the WRST test in Testplayer Web, the practice example in test form S3 and in S4 for HTML presentation has been corrected, as in some cases incorrect answers were being scored as correct entries.
- During presentation of tests in languages that write from right to left (e.g. Arabic), some images that depict keys on the panel were also shown in mirror image. This has been corrected.

- INT test: Numerical ability: when the “Back” button is pressed during the Instruction phase, the system now also records which answer in the practice examples the respondent chose previously.
- During CSV export of test results, the person’s first name was shown incorrectly in Excel if not specified.
- During the first automated CSV export of test results, the variables were sometimes missing.
- During deletion of test results, the AdminClient sometimes crashed.
- Migrated results from VTS 6 could not be deleted in the AdminClient.
- An error occurred when presenting two consecutive tests to the same respondent despite different test codes.
- During anonymous SPSS export, an error sometimes occurred.
- During CSV export of CFD-S1 and CFD-S2 test results, values of variables were missing.
- In French, the introductory page in the VTS Testplayer was incorrectly displayed.
- The maximum length of the inputtable domain ending of the email address in personal details has been extended.
- Occasional timeouts when test results were repeatedly saved as PDF have been corrected.

## New translations

Tests	New languages
5POINT	ru-RU
INSBAT-2	en-US
INT	hu-HU
TACO	hu-HU
ATAVT	el-GR
Manuals	New language
INSBAT-2	en-US

Norm update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>INSBAT-2</b>	All	1000-1003	New	Rep	A new representative norm sample for INSBAT-2 has been included.	Representative norm sample	714	2019-2020	Total, age, gender, education level
<b>ELST</b>	All forms	1000-1003	New	Rep	A new representative norm sample for ELST has been included.	Representative norm sample	304	2017	Total, age, gender, education level
<b>B5PS</b>	S3	90000	New	Excl	A new exclusive norm sample "Employees – Hungary" has been produced.	Employees - Hungary	265	2018-2019	Total
<b>B5PS</b>	S4	90000	New	Excl	A new exclusive norm sample "Employees – Hungary" has been produced.	Employees - Hungary	265	2018-2019	Total
<b>SMART</b>	S2	90000	New	Excl	A new exclusive norm sample "Employees – Hungary" has been produced.	Employees - Hungary	254	2018-2019	Total
<b>SMART</b>	S3	90000	New	Excl	A new exclusive norm sample "Employees – Hungary" has been produced.	Employees - Hungary	254	2018-2019	Total
<b>B5PS</b>	S4	90001	New	Excl	A new exclusive norm sample "Managers" has been produced.	Managers	124	2017-2018	Total

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
AMT	S1-S3, S5-S11	90002	New	Excl	A new exclusive norm sample "Pilots - Portugal" has been produced.	Pilots - Portugal	198	2016-2018	Total
DT	S2	90002	New	Excl	A new exclusive norm sample "Pilots - Portugal" has been produced.	Pilots - Portugal	163	2017-2018	Total
SMK	S1	90002	New	Excl	A new exclusive norm sample "Pilots - Portugal" has been produced.	Pilots - Portugal	131	2017-2018	Total
MOI	S2	90004	New	Excl	A new exclusive norm sample "Secondary school graduates - Austria" has been produced.	Secondary school graduates - Austria	2247	2017-2018	Total
COG	S11	90006	New	Excl	A new exclusive norm sample "Professional drivers (tram and metro drivers) – Netherlands" has been produced.	Professional drivers (tram and metro drivers) – Netherlands	1447	2015-2018	Total
DT	S5	90006	New	Excl	A new exclusive norm sample "Professional drivers (tram and metro drivers) – Netherlands" has been produced.	Professional drivers (tram and metro drivers) – Netherlands	1123	2015-2018	Total
RT	S3	90006	New	Excl	A new exclusive norm sample "Professional drivers (tram and metro drivers) – Netherlands" has been produced.	Professional drivers (tram and metro drivers) – Netherlands	1621	2015-2018	Total

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
					drivers) – Netherlands” has been produced.				

## VTs 8.14.11

(available from July 2020)

### Bug fixes

- After deleting test results, the AdminClient could crash.
- It was not possible to delete migrated VTS 6 test results in the AdminClient.

## VTs 8.14.10

(available from June 2020)

### New features

- TACO test: The integrated “wiggle” animation for buttons means that the respondent’s attention is drawn to a button because it is moving.
- The labels of the TMT and TOL tests have been changed in the manuals to TMT-L and TOL-F.
- FEV test set: The long version of the Word report has been removed.
- WTS Command: The new archiving tool for personal data and test results is available.
- AdminClient: Multiple files containing personal data / test results can now be imported simultaneously.
- VIS: Individuals or all an individual’s test results can be deleted.
- VIS: The VTS Integration Service is available as a separate license module
- AdminClient: Candidates can now also be filtered by department in the VTS user management system.
- AdminClient: Settings made to the test results view are now saved for each VTS user.
- AdminClient: The “Norming” and “Connectest” tabs have been removed.
- AdminClient: The license view for online and offline licenses has been standardized.
- VTS Online: Automatically generated test codes for test presentation have been simplified and shortened to eight characters.
- VTS Marketplace: Authorized users can from now on download test and test set manuals as PDFs.
- VTS Online: From now on, respondents’ date of birth can also be entered using the keyboard.

### Bug fixes

- In auditory subtests of the WAF test, the audio instruction page was in exceptional cases not displayed
- From now on the test administrator window of the WAF and RT tests can be opened not only via ESC+F5 but also via ESC+E as well as via ESC+F11.
- In certain circumstances an error could occur when updating licenses via an SFLIC file.
- Runtime errors could occur if a lot of results were printed simultaneously.
- Simultaneous deletion of a very large quantity of test results took a long time and could result in an error.
- In some cases, creation of a Word report could lead to very high CPU usage and result in an error.
- The screensaver was sometimes not blocked during testing.
- Testplayer Web: An error occurred when a test was presented with different license types (offline & online).
- Testplayer Web: The GMX email client executed the invitation link to an HTML test session several times and thus resulted in the system not working properly.
- VIS: When CSV export was performed using the Universal Plugin, the main variables of the BFSI test were not exported.

New translations

Tests	New languages
AVEM	bg-BG
BFSI	bg-BG
Test sets	New language
DRIVESC-2	hu-HU
Manuals	New language
DRIVESTA/PLS	cs-CZ, sk-SK
SAFESC	en-US
Tests by languages	Test
bg-BG	AVEM, BFSI
Test sets by languages	Test set
hu-HU	DRIVESC-2

Norm update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>AMT</b>	S1-S3, S5-S11	80105	New	Conv	Implementation of a convenience sample of professional drivers from the Czech Republic.	Professional drivers - Czech Republic	172	2018-2020	Total
<b>ATAVT</b>	all	80105	New	Conv	Implementation of a convenience sample of professional drivers from the Czech Republic.	Professional drivers - Czech Republic	178	2018-2020	Total
<b>COG</b>	S11	80105	New	Conv	Implementation of a convenience sample of professional drivers from the Czech Republic.	Professional drivers - Czech Republic	178	2018-2020	Total
<b>DT</b>	S1	80105	New	Conv	Implementation of a convenience sample of professional drivers from the Czech Republic.	Professional drivers - Czech Republic	179	2018-2020	Total
<b>RT</b>	S3	80105	New	Conv	Implementation of a convenience sample of professional drivers from the Czech Republic.	Professional drivers - Czech Republic	179	2018-2020	Total

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
Test set	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>DRIVESTA</b>	S1	80105	New	Conv	Implementation of a convenience sample of professional drivers from the Czech Republic.	Professional drivers - Czech Republic	AMT: 172 ATAVT: 178 COG: 178 DT: 179 RT: 179	2018-2020	Total

## VTs 8.14.00

(available from April 2020)

### New features

- New tests: TACO, SCL-90-R
- RT has been reprogrammed for VTS 8.
- New test set: SAFESC
- BD12 and BAI can be presented in the browser.
- MOI/S2 can be worked in full in the browser with the mouse.
- The instructions for COMPRO have been revised and the language has been simplified.
- Relevant manual updates de-DE: RT and IVPE-R
- The time bar display has been revised: it works smoothly and without jumps even within a few seconds of the time limit.
- Licenses for online presentations are not used in the VTS, or are only used as a fallback, if a normal test license is not available.

### Bug fixes

- INSSV-R in HTML: if a subtest timed out, the last item was not saved correctly.
- In the DT test, the norm sample of Form S4 has been corrected because two variables were incorrectly poled.
- In the 2HAND test, auditory signals were missing in all languages except de-DE.
- In the DRIVESTA and DRIVEPLS test sets, the text of the overall assessment was not correctly displayed.
- Under certain conditions, VTS Service could sometimes crash when generating the Word report.
- At the start of testing, and when the sound was emitted via the integrated sound output device in the response panel, a warning that the sound output device was not calibrated was sometimes displayed.
- Under certain conditions, the wrong norm sample was sometimes used to calculate variables in BATEVAs.
- In AdminClient it was possible to create a person with a personal ID that had already been used. This led to errors at the start of testing.
- The naming and description of the setting "Always print test records on a separate page" (Result output > output options) was incorrect.
- In AdminClient the memory could become overfull if too many PDFs were printed within a short time.
- In the VTS Testplayer Web, testing could freeze if the user navigated to the next page as the test time expired.
- An error occurred in AdminClient if a person was saved with too long a scoring code.
- With a lot of persons, an error could occur in AdminClient when the name filter was reset.
- With a lot of persons, an error could occur in AdminClient when a person was created.

New translations

Tests	New languages
A3DW	zh-CN
INT	zh-CN
TACO	en-US, es-ES, fr-FR
VIP	fr-FR
Test sets	New language
SAFESC	en-US, es-ES, fr-FR
Manuals	New language
TACO	en-US
Tests by languages	Test
en-US	TACO
es-ES	TACO
fr-FR	TACO, VIP
zh-CN	A3DW, INT
Test sets by languages	Test set
en-US	SAFESC
es-ES	SAFESC
fr-FR	SAFESC
Manuals by languages	Manual
en-US	TACO

Norm update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>BFSI</b>	S1	1000-1003	Update	Rep	Update of the representative norm sample with new data	Representative norm sample	1621	Latest wave 2016-2018	Total, gender, age, education level
<b>TACO</b>	S1	1000-1003	New	Rep	Implementation of the representative norm sample	Representative norm sample	479	2019-2020	Total, gender, age, education level
<b>TACO</b>	S2	1000-1003	New	Rep	Implementation of the representative norm sample	Representative norm sample	479	2019-2020	Total, gender, age, education level
<b>KEKS</b>	S1	80100	New	Conv	Implementation of a new convenience sample	Alcohol dependent drivers and drivers likely to commit motoring offense - Austria	895	2017-2019	Total
<b>SCL-90-R</b>	S1	1000	New	Rep	Implementation of the representative norm sample for adults	Representative norm sample adults	966	2012	Gender
<b>SCL-90-R</b>	S1	1010	New	Rep	Implementation of the representative norm sample for adolescents	Representative norm sample adolescents	642	2015	Gender

## VTs 8.13.10

(available from Dezember 2019)

### New features

- Relevant manual updates en-US:
  - ATAVT
  - COG
  - DT
  - LVT
  - RT
- Reports can now be produced in HTML AdminClient (VTs Web).
- The VTs setup supports SQL Server 2019.
- When downloading the caches via VTs Testplayer (launched with Option “-d”), a message is now displayed upon completion.
- Person-related activities are now logged in the HTML AdminClient (VTs Web). The log can be viewed via the VTs settings (Settings > General settings > Activity Protocol).

### Bug fixes

- If the “Prize competition - anniversary magazine” subtest of SMART was presented in HTML on MacOS, an error occurred if an entry was deleted.
- The automatic scaling of resolutions in which the height is more than the width was removed for selected tests when presented in HTML.
- Monitoring of the continuous availability of VTs Service was introduced. This now enables error-free installation of the client setup per command line via the prompt. Previously, problems sometimes occurred when starting the VTs after installation.
- In the VTs Testplayer Web, the page numbers were sometimes not correctly displayed in the header.
- An error occurred with a VTs update in an operating system where the region was set to “Turkish (Turkey)”.
- Migrating data from the VTs 6 caused an error if large quantities of data were imported.
- An error occurred when the “Comment” button in the test result display window was used.
- An error sometime occurred in Direct Testing if the second test in the test sequence was cancelled using data storage.
- After a successful restore of the database, persons were sometimes displayed incompletely in the VTs.
- When importing test results, an error sometimes occurred if the import was divided between multiple files.

New translations

Tests	New languages
ATAVT	hr-HR (scoring en-US)
LAT	hu-HU
FGT	hi-IN (scoring en-US)
FLEI	hi-IN (scoring en-US)
INHIB	hi-IN (scoring en-US)
MOUSE	hi-IN (scoring en-US)
NBV	hi-IN (scoring en-US)
TMT	hi-IN (scoring en-US)
WAF	hi-IN (scoring en-US)
TOL	hi-IN (scoring en-US)
3D	zh-CN
CORSI	zh-CN (scoring en-US)
SIGNAL	zh-CN (scoring en-US), hu-HU (scoring only)
VIGIL	zh-CN (scoring en-US), hu-HU (scoring only)
VISGED	zh-CN (scoring en-US), hu-HU (scoring only)
ZBA	zh-CN (scoring en-US)
A3DW	hu-HU (scoring only)
BFSI	hu-HU (scoring only)
DT	hu-HU (scoring only)
INSBAT	hu-HU (scoring only)
PAUSE	hu-HU (scoring only)
SMK	hu-hU (scoring only)
Test sets	New languages
COGBAT	hi-IN (scoring en-US)
FEV	hr-HR (scoring de-DE)
FEV	sr-RS (scoring de-DE)
SAAIR	hu-HU (scoring only)
Reports	New languages
Tests by language	Tests
hi-IN	FGT, FLEI, INHIB, MOUSE, NBV, TMT, WAF, TOL
hr-HR	ATAVT
hu-HU	LAT, A3DW, BFSI, DT, INSBAT, PAUSE, SMK
zh-CN	3D, CORSI, SIGNAL, VIGIL, VISGED, ZBA
Test sets by language	Test set
hi-IN	COGBAT (scoring en-US)
hr-HR	FEV (scoring de-DE)
sr-RS	FEV (scoring de-DE)
hu-HU	SAAIR (scoring only)

Norm update

Test	Test form	Norm No.	Update/new	Rep/con	Description of change	Name	Size [N]	Data collection period	Segmentation
INT	S1			Rep	The representative norm sample was extended to include people age 69+.	Representative norm sample	430	2019	Total, age, gender, education level

## VTs 8.13.00

(available from September 2019)

### New features

- New test: INT
- New test: GECO
- 2HAND has been adapted to the new design for VTS 8.
- B5PS & BFSI have been optimized for presentation on a smartphone.
- Relevant manual updates in en-US
  - AMT
  - TMT
  - WAFA
  - TAKIDS
- It is now possible to choose whether the introductory page for the input device is displayed (Settings > Test administration > Administration > Show the initial page for the input device for Web Testing).
- The display of the demo tests in VTS and VTS Web was aligned (if the necessary license is enabled).
- In Windows 7 and Windows 8.1, SQL Server 2012 Express (instead of Server 2008 Express) is now installed by default when VTS 8 is installed.

### Bug fixes

- When performing a detailed search of test results by test date, some results were not displayed (despite matching test date).
- An error sometimes occurred when searching for persons if a space was entered in the name filter field.
- Error entries in the log file were displayed when updating control monitor entries in the database.
- When printing out tests results in PDF format, only one copy was printed even if the number of copies was set to more than one.
- When starting a time-critical test in the Testplayer, an error sometimes occurred if the Windows user did not have sufficient rights for the operating system.
- A person can now be created in the VTS Web (as in the VTS) without giving a first name.
- After a VTS update, problems occurred when logging on to the VTS if the password contained non-supported special characters.
- After updating the VTS, it was not possible to halt the VTS Service. This prevented client setup being executed if this was attempted immediately after completion of server setup.
- An error sometimes occurred if a ranking was calculated with a profile without variables.

New translations

Tests	New languages
5POINT	pl-PL
COG	zh-CN
FGT	pl-PL
FLEI	pl-PL
INHIB	pl-PL
INT	en-US, es-ES, fr-FR
MOUSE	pl-PL
NBV	pl-PL
SWITCH	pl-PL
TMT	pl-PL
TOL	pl-PL
TOM	pl-PL
VIP	urd
WAF	pl-PL, zh-CN
Test sets	New language
COGBAT	pl-PL
SAAIR	hu-HU (scoring en-US)
Word reports	New language
INT	en-US
Manuals	New language
DRIVESTA/PLS	fr-FR
INT	en-US
Tests by language	Test
en-US	INT
es-ES	INT
fr-FR	INT
pl-PL	5POINT, FGT, FLEI, INHIB, MOUSE, NBV, SWITCH, TMT, TOL, TOM, WAF
zh-CN	COG, WAF
urd	VIP
Test sets by language	Test sets
hu-HU	SAAIR (scoring in en-US)
pl-PL	COGBAT
Word reports by language	Word reports
en-US	INT
Manuals by language	Manuals
en-US	INT
fr-FR	DRIVESTA/PLS

Norm update

Test	Test form	Norm no.	Update/new	Rep/con	Description of change	Name	Size [N]	Data collection period	Segmentation
<b>GECO</b>	S1	1000-1003	New	Rep	Inclusion of a new representative norm sample	Representative norm sample	345	2018-2019	Total, age, gender, education level
<b>INT</b>	S1	1000-1003	New	Rep	Inclusion of a new representative norm sample	Representative norm sample	404	2018-2019	Total, age, gender, education level

## VTs 8.12.11

(available from July 2019)

### Bug Fixes

- In „Direct Testing“, under certain conditions (e.g. multiple execution of test BFSI/S1), an error could occur, if the Testplayer was not restarted for longer time.
- An error occurred when correcting the last item in test ISR.

## VTs 8.12.10

(available from June 2019)

### New features

- New presentation language: Marathi (mr-IN) for BFSI & EPP6
- New test: AIST-3
- ATAVT has been reprogrammed for VTS 8
- EPP6 has been reprogrammed for VTS 8
- Manual updates:
  - Tests:  
de-DE: ATAVT, COG, DT, LVT and RT  
en-US: FLEI, HCTA, INHIB, MOUSE and NBV
  - Test sets:  
en-US: COGBAT
- In the VTS user interface persons are displayed page by page. This optimizes performance when loading the list of persons.

### Bug fixes

- The driver's license (if given) was not imported during CSV import.
- In the VTS hardware test, the integrated audio device in the SCHUHFRIED response panel was not recognized if all other audio devices were deactivated in Windows.
- In the VTS Web, the duration of the third test form of the PAUSE test was not displayed.
- In the VTS Web, the duration of the INSBAT test was shown incorrectly in the text sequence if not all the subtests were selected.
- In the ranking tool, values on the boundary of the target range were marked and scored as outside the target range.
- In the VTS Web > Testing tab, the persons in the drop-down selection of last tested persons were sometimes shown without their surname.
- In the VTS Web, the extended options of tests were not applied if the test sequence was created in the VTS user interface.
- In some cases an error occurred when importing test results as part of a migration of data from VTS 6.
- After an update, customers' programs were sometime no longer able to communicate with the VIS Universal Plug-in.
- Since the PP-R design changes in 8.12.0, an instruction feedback, explaining the candidate to sit straight and upright in front of the sensor, wasn't displayed anymore.

New translations

Tests	New languages
BFSI	hi-IN, mr-IN
EPP6	mr-IN
Manuals	New language
DRIVESC2	en-US
SAROAD	fr-FR, it-IT
Tests by language	Test
hi-IN	BFSI
mr-IN	BFSI, EPP6

## VTs 8.12.01

(Available from April 2019)

### Bug fixes

When the test protocol of certain tests was viewed an error occurred.

## VTs 8.12.00

(Available from March 2019)

### New features

- New test set DRIVESC2
- Update of manuals (en-US):
  - Tests: AHA, AVEM, COG, DT, INSSVR, ISR, KEKS, LAT, MLS, MOI, MTA, PAD, PP-R, SMART, SMK, STROOP, SWITCH, TOL, VIGIL, VISGED, WAFA and WG
  - Test sets: CFD, COGBAT, DRIVESC, DRIVESTA, DRIVEPLS, SAAIR, SARAIL, SFMOTOR and SFTEAM
  - Sector: HR, NEURO and TRAFFIC
- Fit score .csv export: Fit scores of test sets and test batteries (BATEVAs) can now be exported as .csv. "Additionally Calculated Variables" from BATEVAs (e.g. conversion of fit score into suitability grades) can also be exported using this feature.
- Test result .csv import: The results of simple questionnaires or TQs can be imported into the VTS as a .csv file for multiple individuals simultaneously. If the respondent exists, the result will be correctly assigned; otherwise the individual will be created. The feature must always be configured on a customer-specific basis with IT involvement.
- Several tests have a new design on the desktop and in HTML.
- It is possible to combine the printouts of multiple test results in one PDF file. This feature can be turned on via the settings in AdminClient (Results output > Output options > Always print test records on a separate page).
- A person's first name is now optional and does not need to be entered when new individuals are created.
- For some tests it is possible to buy additional norms from SCHUHFRIED. These norms have to be imported over the settings of the AdminClient (Settings > General Settings > Database > Import additional norms).

### Bug fixes

- The driver's license (if given) was not imported during CSV import.
- An error occurred at the start of the MLS test if the extended options had not been set beforehand.
- Test results were not updated if the education level or age of the associated person had been changed.
- In the STROOP test the variables at item level were missing from the SPSS export.
- At the start of time-critical tests an error occurred if all the audio devices were deactivated.
- The license summary for additional licenses (Settings > License administration > Licenses) was not updated after a license update.
- When test results were printed out an error occurred if the name of the associated person contained the \* symbol.
- At the start of the WAF test the page for setting the volume was not displayed if an older version of the SCHUHFRIED response panel was used.
- The VTS 8 setup produced an error if CogniPlus or VTS 6 were open at the same time.

- When scoring ISR results a display error occurred.
- An error occurred if the database was updated using SQL scripts.
- At the start of a time-critical test an error occurred if no screen driver was installed.
- If a test was administered with the SCHUHFRIED response panel, an error occurred after the identify check (Settings > Test administration > Administration).
- In the scoring of the SAMINE test set, there was greater rounding of the variable "anticipation of movement" than in the individual scoring.
- In the HTML AdminClient an error occurred in that manuals were not displayed.
- When individuals were imported via the VIS interface a timeout occurred.
- All VTS product lines were installed even though the licenses for them were not present.
- The maximum test duration of a test battery was shown incorrectly in the Testplayer.
- The search for candidate names did not work properly in the HTML AdminClient.

**New translations**

<b>WORD reports</b>	<b>New languages</b>
DRIVESC2	en-US

Norm update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
2HAND	S5	1030-1033	update	Rep	Update of the representative norm sample with new data	Representative norm sample	313	2012-2019	Total, gender, age, education level
RT	S4	1030-1033	New	Rep.	New representative norm sample	Representative norm sample	362	2016-2018	Total, gender, age, education level

## VTs 8.11.30

### New features

- It is possible to export test set- and BATEVA-specific test result variables into a CSV file.
- It is possible to import test results from a CSV file.
- In a client server setup, the WTS Service can be configured to communicate over HTTPS (a more detailed description can be found in the installation guide).

## VTs 8.11.20

### New features

- Update of manuals (en-US):
  - Tests: AMT, DSI
  - Test sets: CFADHD, CFD, CFSD, COGBAT
  - Sector: SPORT
- WRST report (exclusively for Webshop and S3/S4)
- New administration language in the VTS: hu-HU
- For test batteries it is possible to define a time-out at which testing will be terminated. This time-out must be selected in the settings for test batteries (Settings > Test batteries > Edit test battery).
- The language of the user interface of the AdminClient can now be set for each Multi-Client.
- The test administration window can be launched with the key combination ESC-E as well as with ESC-F5.

### Bug fixes

- In the CFD test set a warning that was displayed in the scoring in the scoring window did not appear in the PDF printout.
- The CSV export of a test result with an invalid signature was empty.
- In the CVLT the counting of some variables was not correct.
- An error occurred if the touch-screen calibration was launched in Windows 7.
- In the HCTA test some variables could not be calculated if the test result was imported from another VTS.
- In the HTML AdminClient the sequence of the tests and test sets in a test battery was lost if the test battery was created in the desktop version of the AdminClient.
- In the HTML AdminClient the suggested name of the downloaded scoring was wrong in Internet Explorer.
- In the HTML AdminClient the selection of tests was lost in test sets that were saved in a test battery in the desktop version of the AdminClient.
- In the HTML Testplayer the precision of the saved working time was faulty.
- The results of the AMT test from older VTS versions could not be imported into the latest VTS version.
- In the Testplayer the text of the message displayed if no more free presentations are available has been optimized.
- In the INSBAT and FGT tests the person's name was not displayed correctly in some languages during the break.
- The scoring method was not taken into account when individuals were imported/exported.
- The AdminClient was frozen during the printing process and so could not be used.
- When the WAF test was presented after the PAUSE test, it was incorrectly stated at the end of the testing that the person had not responded during the permitted time.
- Some entries were missing in the PDF printout of the product information.
- In the AdminClient the selected settings in the scoring window were not saved reliably.

- On Chinese operating systems an error occurred when the AdminClient was launched.
- An incorrect pop-up message was displayed when test results were imported.

## New translations

Tests	New languages
BFSI	ja-JP
DAKT	ja-JP
Manuals	New languages
KEKS	en-US
LAT	en-US
WG	en-US
Tests by languages	Test
ja-JP	BFSI, DAKT

## VTs 8.11.10

### New features

- Optimization or rather stabilization of the SCHUHFRIED panel usage on Windows 8 and 10.

### Bug fixes

- False answers were marked as correct in the report of the test ORD123.
- There was an error at importing persons via CSV if the corresponding CSV file was from an older VTS version.
- In Settings > Data export/import > “Manage export settings” it was not possible to choose norm values for selected variables in the export definition.

## VTs 8.11.00

### New features

- New tests: KEKS, LAT, WG, WRST
- Relevant test updates: AMT is now fully reprogrammed for VTS8
- Relevant test set updates:
  - CFADHD: WAFS & WAFV were replaced by the equivalent WAF subtests
  - CFD: WAFS & WAFG were replaced by the equivalent WAF subtests
  - CFSD: WAFS, WAFG & WAFV were replaced by the equivalent WAF subtests
  - COGBAT: WAFS, WAFG & WAFR were replaced by the equivalent WAF subtests;
  - SARAIL: WAFV was replaced by the equivalent WAF subtest; the display of the scoring was slightly revised
  - SFMOTOR: WAFV was replaced by the equivalent WAF subtest.
  - SLEEP: WAFG, WAFS & WAFV were replaced by the equivalent WAF subtests
- Relevant de-DE manual updates:
  - 2D, 2HAND, 3D, AHA, ATAVT, AWLT, COG, CORSI, FGT, FLEI, INHIB, LVT, MOUSE, NBV, SIGNAL, SIMKAP, SMT, STROOP, TMT, TOL, TOM, VISCO, WAF, WIWO, WOBTS & ZBA: Implementation of new norm samples
  - AMT: Revision of the theoretical background; implementation of new norm samples
  - DT & RT: Revision of the theoretical background & the interpretation instructions, implementation of a new norm sample
  - CFADHD, CFD (S1 & S2), CFSD, COGBAT, SARAIL, SFMOTOR & SLEEP: Implementation of the equivalent WAF subtests as a replacement for the previously existing subtests from WAFS, WAFG, WAFS, WAFR & WAFV
- Relevant en-US manual updates:
  - DAKT, IVPE-R, VIP, WAFS, WAFV, PERSROAD
- Relevant updates of Word reports:
  - CFADHD: WAF integration in de-DE, en-US
  - CFD: WAF integration in de-DE, en-US
  - CFSD: WAF integration in de-DE, en-US, nl-NL
  - COGBAT: WAF integration in de-DE, en-US, es-ES
  - SARAIL: WAF integration in de-DE, en-US
  - SFMOTOR: WAF integration in de-DE, en-US
  - SLEEP: WAF integration in de-DE, en-US
- For test batteries, it is possible to define conditions that will abort the test. These conditions are based on values of test variables calculated during the test. These conditions are defined by way of a pop-up window which is available via the settings (Settings > Test batteries > Manage test batteries).
- It is possible to directly integrate a consent form for collecting the relevant personal data into the test. This consent is shown as a test result in the report.
- For persons who have been added, it is possible to define periods according to which the persons should be deleted automatically. These periods refer to the person's oldest test result. Optionally, it is also possible to delete persons who have no test results. In this case, the period is calculated from the time that the person was added.

- It is possible to only specify the birth year when adding a person. This option can also be selected by way of the settings (Settings > Person management > Management).
- Personal activities are recorded in the VTS. The log can be viewed via the settings of the AdminClient (Settings > General settings > Activity protocol).
- The list of test results (similar to the list of persons) can be hidden, if required.
- It is possible to install the VTS single workstation setup with a command line via the Command Prompt (Windows > Command Prompt).
- The performance of the import/export of persons/test results was optimized for large quantities.
- The help file of the VTS is now displayed in the browser.

### Bug fixes

- An error occurred when updating the VTS (from versions of the VTS 8.5 or lower) with SQL scripts.
- In some cases, the last selected tests were not saved correctly in test sets.
- When loading persons in the list of person, the order was not taken into account, which is why the display of the list of persons was slow.
- In the list of persons, the display of the number of loaded persons in some cases did not match the correct number of persons in the list.
- During the VTS there could be an error when there was a large number of test results of the same test set.
- For the SMART test – due to an activated caps lock – no keyboard entries were possible.
- After the VTS update in some cases there could be an error when starting time-critical tests.
- In the IVPE-R test, the slide control in Urdu was labeled incorrectly.
- For some tests the scoring code in the SPSS was not included in the export.
- Sometimes the selected language of the report did not match the language of the printout when printing the test scoring.
- For the client setup, in some cases there was an error when only the Testplayer was selected.
- When switching the interface language of the AdminClient, there could be update issues of the test and test set descriptions.
- In the INSSV test, the order of the variables in the results table and the profile were aligned.
- Creating a person with a hyphen in the name resulted in an error.
- For the INSSVR test some variables were not calculated when the presentation was interrupted by a test-time-out.
- After performing the VTS update it could happen that test descriptions in some languages (e.g. Russian) were not displayed correctly (question marks instead of letters).
- In the AHA Word report, the event description were not displayed for some dimensions.

New translations

Tests	New languages
KEKS	en-US
WG	en-US
LAT	en-US
IVPE-R	fr-FR
WAF	pt-PT, sl-SI
PAD	zh-TW
Test sets	New language
SAROAD	fr-FR
Tests by languages	Test
en-US	KEKS, WG, LAT
fr-FR	IVPE-R
pt-PT	WAF
sl-SI	WAF
zh-TW	PAD
Test sets/language	Test set
fr-FR	SAROAD

Norm update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>2HAND</b>	S4	1030-1033	Update	Rep	Update of the representative norm sample with new data	Representative norm sample	545	2014-2018	Total, age, gender, education level
<b>COG</b>	S1	1030-1033	Update	Rep	Update of the representative norm sample with new data	Representative norm sample	796	2016-2018	Total, age, gender, education level
<b>COG</b>	S3	1030-1033	Update	Rep	Update of the representative norm sample with new data	Representative norm sample	354	2014-2018	Total, age, gender, education level
<b>COG</b>	S5	1030-1033	New	Rep	Implementation of a new representative norm sample	Representative norm sample	340	2016-2017	Total, age, gender, education level
<b>DT</b>	S1	1000-1002, 1521	Update	Rep	Update of the representative norm sample with new data	Representative norm sample	759	2016-2017	Total, age, gender, education level
<b>DT</b>	S3	1000, 1002-1004	Update	Rep	Update of the representative norm sample with new data	Representative norm sample	547	2016-2018	Total, age, gender, education level
<b>DT</b>	S4	1000-1003	New	Rep	Implementation of a new representative norm sample	Representative norm sample	347	2014-2018	Total, age, gender, education level
<b>KEKS</b>	S1 & S2	1000-1003	New	Rep	Implementation of a new representative norm sample	Representative norm sample	390	2018	Total, age, gender, education level

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>LAT</b>	S1 & S2	1000-1003	New	Rep	Implementation of a new representative norm sample	Representative norm sample	374	2018	Total, age, gender, education level
<b>RT</b>	S8	1030-1033	Update	Rep	Update of the representative norm sample with new data	Representative norm sample	338	2014-2018	Total, age, gender, education level
<b>WG</b>	S1 & S2	1000-1003	New	Rep	Implementation of a new representative norm sample	Representative norm sample	335	2018	Total, age, gender, education level
<b>WRST</b>	S1 & S2	1000-1003	New	Rep	Implementation of a new representative norm sample	Representative norm sample	317	2018	Total, age, gender, education level
<b>WRST</b>	S3 & S4	1000-1003	New	Rep	Implementation of a new representative norm sample	Representative norm sample	322	2018	Total, age, gender, education level
<b>2D</b>	S1	5030-5033	New	Rep	Implementation of a representative norm sample for Poland	Representative norm sample - Poland	360	2016-2018	Total, age, gender, education level
<b>2HAND</b>	S4	5030-5033	New	Rep	Implementation of a representative norm sample for Poland	Representative norm sample - Poland	345	2016-2018	Total, age, gender, education level
<b>3D</b>	S1	5030-5033	New	Rep	Implementation of a representative norm sample for Poland	Representative norm sample - Poland	352	2016-2018	Total, age, gender, education level
<b>AHA</b>	S1	5030-5033	New	Rep	Implementation of a representative norm sample for Poland	Representative norm sample - Poland	351	2016-2018	Total, age, gender, education level

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>AMT</b>	S4	5030-5033	New	Rep	Implementation of a representative norm sample for Poland	Representative norm sample - Poland	348	2017-2018	Total, age, gender, education level
<b>COG</b>	S1	5030-5033	New	Rep	Implementation of a representative norm sample for Poland	Representative norm sample - Poland	310	2016-2018	Total, age, gender, education level
<b>CORSI</b>	S1	5030-5033	New	Rep	Implementation of a representative norm sample for Poland	Representative norm sample - Poland	355	2016-2018	Total, age, gender, education level
<b>CORSI</b>	S5	5030-5033	New	Rep	Implementation of a representative norm sample for Poland	Representative norm sample - Poland	319	2016-2018	Total, age, gender, education level
<b>DT</b>	S1	5030-5033	New	Rep	Implementation of a representative norm sample for Poland	Representative norm sample - Poland	345	2016-2018	Total, age, gender, education level
<b>LVT</b>	S3	5030-5033	New	Rep	Implementation of a representative norm sample for Poland	Representative norm sample - Poland	351	2016-2018	Total, age, gender, education level
<b>RT</b>	S3	5030-5033	New	Rep	Implementation of a representative norm sample for Poland	Representative norm sample - Poland	346	2016-2018	Total, age, gender, education level
<b>RT</b>	S7	5030-5033	New	Rep	Implementation of a representative norm sample for Poland	Representative norm sample - Poland	351	2016-2018	Total, age, gender, education level
<b>SIGNAL</b>	S1	5030-5033	New	Rep	Implementation of a representative norm sample for Poland	Representative norm sample - Poland	349	2016-2018	Total, age, gender, education level

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>SIMKAP</b>	S2	5030-5033	New	Rep	Implementation of a representative norm sample for Poland	Representative norm sample - Poland	330	2016-2018	Total, age, gender, education level
<b>STROOP</b>	S7	5030-5033	New	Rep	Implementation of a representative norm sample for Poland	Representative norm sample - Poland	329	2016-2018	Total, age, gender, education level
<b>ZBA</b>	S3	5030-5033	New	Rep	Implementation of a representative norm sample for Poland	Representative norm sample - Poland	357	2016-2018	Total, age, gender, education level
<b>AWLT</b>	S1	50000-50003	Update	Conv	Update of the norm sample "Norm sample 50+ CFD" with new data	Norm sample 50+ CFD	625	2016-2018	Total, age, gender, education level
<b>CORSI</b>	S7	50000-50003	Update	Conv	Update of the norm sample "Norm sample 50+ CFD" with new data	Norm sample 50+ CFD	625	2016-2018	Total, age, gender, education level
<b>TMT</b>	S1	50000-50003	Update	Conv	Update of the norm sample "Norm sample 50+ CFD" with new data	Norm sample 50+ CFD	625	2016-2018	Total, age, gender, education level
<b>VISCO</b>	S3	50000-50003	Update	Conv	Update of the norm sample "Norm sample 50+ CFD" with new data	Norm sample 50+ CFD	625	2016-2018	Total, age, gender, education level
<b>WAF</b>	S1	50000-50003	Update	Conv	Update of the norm sample "Norm sample 50+ CFD" with new data	Norm sample 50+ CFD	625	2016-2018	Total, age, gender, education level
<b>WIWO</b>	S1	50000-50003	Update	Conv	Update of the norm sample "Norm sample 50+ CFD" with new data	Norm sample 50+ CFD	625	2016-2018	Total, age, gender, education level

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>WIWO</b>	S3	50000-50003	Update	Conv	Update of the norm sample "Norm sample 50+ CFD" with new data	Norm sample 50+ CFD	625	2016-2018	Total, age, gender, education level
<b>WOBT</b>	S1	50000-50003	Update	Conv	Update of the norm sample "Norm sample 50+ CFD" with new data	Norm sample 50+ CFD	625	2016-2018	Total, age, gender, education level
<b>RT</b>	S5	80017	Update	Conv	Update of the norm sample "Young soccer players - Brazil" with new data	Young soccer players - Brazil	402	2011-2016	Total
<b>ATAVT</b>	all	80088	New	Conv	Implementation of a new convenience sample "Bus drivers - Chile"	Bus drivers - Chile	148	2016-2017	Total
<b>DT</b>	S1	80088	New	Conv	Implementation of a new convenience sample "Bus drivers - Chile"	Bus drivers - Chile	148	2016-2017	Total
<b>RT</b>	S3	80088	New	Conv	Implementation of a new convenience sample "Bus drivers - Chile"	Bus drivers - Chile	148	2016-2017	Total
<b>CORSI</b>	S5	80089	New	Conv	Implementation of a new convenience sample "Patients with schizophrenic disorders"	Patients with schizophrenic disorders	133	2014-2018	Total
<b>FGT</b>	S11	80089	New	Conv	Implementation of a new convenience	Patients with schizophrenic disorders	164	2012-2016	Total

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
					sample "Patients with schizophrenic disorders"				
<b>FLEI</b>	S1	80089	New	Conv	Implementation of a new convenience sample "Patients with schizophrenic disorders"	Patients with schizophrenic disorders	192	2012-2016	Total
<b>INHIB</b>	S1	80089	New	Conv	Implementation of a new convenience sample "Patients with schizophrenic disorders"	Patients with schizophrenic disorders	130	2014-2016	Total
<b>MOUSE</b>	S1	80089	New	Conv	Implementation of a new convenience sample "Patients with schizophrenic disorders"	Patients with schizophrenic disorders	192	2012-2016	Total
<b>NBV</b>	S1	80089	New	Conv	Implementation of a new convenience sample "Patients with schizophrenic disorders"	Patients with schizophrenic disorders	199	2012-2016	Total
<b>SMT</b>	S1	80089	New	Conv	Implementation of a new convenience sample "Patients with schizophrenic disorders"	Patients with schizophrenic disorders	100	2014-2016	Total
<b>TMT</b>	S1	80089	New	Conv	Implementation of a new convenience sample "Patients with schizophrenic disorders"	Patients with schizophrenic disorders	155	2012-2016	Total
<b>TOL</b>	S1	80089	New	Conv	Implementation of a new convenience	Patients with schizophrenic disorders	200	2012-2016	Total

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
					sample "Patients with schizophrenic disorders"				
<b>TOM</b>	S3	80089	New	Conv	Implementation of a new convenience sample "Patients with schizophrenic disorders"	Patients with schizophrenic disorders	136	2014-2016	Total
<b>WAF</b>	S1	80089	New	Conv	Implementation of a new convenience sample "Patients with schizophrenic disorders"	Patients with schizophrenic disorders	161	2012-2016	Total
<b>COG</b>	S11	80090	New	Conv	Implementation of a new convenience sample "Young soccer players - Brazil"	Young soccer players - Brazil	312	2016	Total
<b>RT</b>	S1	80091	New	Conv	Implementation of a new convenience sample "Young judoka - Brazil"	Young judoka – Brazil	110	2016-2017	Total
<b>KEKS</b>	S1	80092	New	Conv	Implementation of a new convenience sample "Adolescents - Austria"	Adolescents – Austria	234	2015	Total
<b>WG</b>	S1	80092	New	Conv	Implementation of a new convenience sample "Adolescents - Austria"	Adolescents – Austria	256	2015	Total

## WTS 8.10.11

### Bug Fixes

- An update to the version 8.10.10 caused test batteries, that contain the test set COGBAT, to be empty. The editing of such test batteries (over Settings > Test batteries) was not possible, because an error got shown.
- While using an older version of the panel a message got shown on start of a test indicating that the audio device was not calibrated.
- In rare cases, the test SMART could freeze during testing while running the test in the HTML Testplayer.

## VTs 8.10.10

### New features

- The ranking tool was expanded with the option of defining thresholds yourself. The order of the respondents in the AdminClient is expanded with a self-defined text. The thresholds are easily defined by way of a pop-up window. The ranking information is also included in the exports.
- The results of the screen calibration are only saved per screen and not per PC.
- The SQL Server version is displayed in the product information of the AdminClient (Settings > General Settings > Information).
- A setting can be used to not display tests and test sets in the list that have no valid license.
- The performance of the loading of respondents and test results in the VTS was optimized.
- The automatic start of the VTS Service when booting the computer was optimized.

### Bug fixes

- A full export of all data sets in the test results was only possible for the data sets visible (loaded) in the window. Test results can now be exported as a whole.
- In some cases, the VTS update could not be restarted after cancellation. The update can now be run again.
- In the scoring of the COGBAT test set the norm scores of the dimensions were not displayed.
- In the HTML TestPlayer there could be errors when continuing the testing.
- For persons under 16, incomplete test pages were displayed in the VIP test.
- When the computer was booted without a valid dongle, an error was displayed when starting the AdminClient even when the dongle was connected later on.
- A test battery containing one or more test sets could not be exported.
- In some cases, screen calibrations were performed on a different screen than required for the testing when more than one screen was available.
- There could be an error for "Direct Testing" when the "Password for reports" persons field was not added to the selected fields in the persons database (Settings > General Settings > Persons Database).
- The variable name was cut off for the ranking and CSV profile pop-ups.
- After the VTS update to version 8.10.00, there was an error for the configuration of the test batteries (Settings > Test Batteries) when they included the COGBAT.

New translations

Tests	New languages
FLEI	hu-HU (Scoring in en-US)
IVPE-R	urd (Scoring in en-US)
MOUSE	hu-HU (Scoring in en-US)
VIP	it-IT
WAF	hu-HU (Scoring in en-US)
Test Sets	New language
CFADHD	hu-HU (Scoring in en-US)
COGBAT	hu-HU (Scoring in en-US)
SFTEAM	hu-HU (Scoring in en-US)
Manuals	New languages
WIWO	en-US
Tests/language	Test
hu-HU	FLEI, MOUSE, WAF
it-IT	VIP
urd	IVPE-R
Test sets/language	Test set
hu-HU	CFADHD, COGBAT, SFTEAM

## VTs 8.10.00

### New features

- New tests: WAF
- New test forms: FGT/S12, INHIB/S14
- Relevant test updates:
  - SIMKAP: A new practice example was implemented in test form S1, subtest Figures – baseline (subtest 3).
  - WAFV: WAFV was reprogrammed for VTS8 and supervisor-supported instructions and touch screen presentation were implemented, as well.
- COGBAT test set update: A parallel form was added and the scoring was revised and new norm samples were added.
- New manual: WIWO and WAF in de-DE
- Relevant de-DE manual updates:
  - INSBAT: Implementation of a new representative norm sample
  - SIMKAP: Implementation of a new representative norm sample
- Relevant en-US manual updates
  - INSBAT
- Relevant updates of Word reports:
  - COGBAT – report adjustment to test set update in de-DE, en-US and es-ES
- In addition to the standard instructions, WAF has supervisor-supported instructions for all subtests and can also be presented completely with a touch screen in addition to the response panel.
- The norm adjustment, progress chart, and display of traffic lights are available for the scoring of the test for WAF.
- A Wizard was added for WAF for selecting subtests and settings for the test sequence.
- In WAF, it is possible to compile and save individual subtest sequences within the test using the Wizard.
- For the scoring of WAF, it is possible to add or remove main, subsidiary and additional variables in the scoring table by way of separate check boxes.
- In the WAF SPSS export, it is possible to choose whether main, subsidiary, and additional variables as well as information at the individual item level should be included in the SPSS export.
- Norm scores (PR, IQ, etc.) can also be exported to SPSS for WAF.
- The selected norm table can be filtered by variable abbreviation in the norm table explorer.
- Persons and tests results can be exported anonymized.
- The AdminClient records when users log on and off in the database.
- PDFs and Word documents that are exported automatically can be encrypted with a password.
- Personal data are stored in the database with pseudonyms.
- The VTS AdminClient is offered as a separate browser application.
- The USB driver for SCHUHFRIED hardware (e.g. response panel) was updated.
- The performance for the start of some tests was optimized.
- Word templates are filtered based on the licensing or only Word templates are displayed for which a suitable test, test set, or report license is available. It is still possible to show all Word templates.

- The AdminClient now includes the PP-R hardware test.

### Bug fixes

- On the audio page, there sometimes were issues with going to the next page when using the keyboard.
- There sometimes was an error during the CSV import of a large quantity of persons.
- The tooltip for the CORSI test was incorrect in the "Advanced options" window of the CFD test set.
- There was an error when logging into the AdminClient with a user who has a security level of 2 or lower.
- There was an error when printing a test battery that has a colon in the name.
- Multiple variables were missing for the SPSS export for the TMT test.
- For the OMLT test, the screen sometimes turned white during the instructions.
- For the ranking, persons who were deselected from a profile were also deselected from all other profiles.
- It was possible that a test result was not scored after testing.
- On the audio page, it was possible that the test tone could not be stopped when moving onto the next page.
- In the Testplayer, an error was thrown during the instructions for the input medium when switching the input medium from the response panel to the mouse.
- There was an error in the TMT test when clicking on the last node multiple times.
- In the VIGIL test, a variable was calculated incorrectly when some intervals were not reacted to correctly.

New translations

Tests	New languages
AWLT	pt-PT
WIWO	pt-PT
WOBT	pt-PT
VISCO	pt-PT
VISGED	hu-HU
AMT	is-IS
WAF	cs-CZ, en-US, es-ES, fr-FR, it-IT, nl-NL, ru-RU, sk-SK, tr-TR, zh-TW
Test sets	New language
SFMOTOR	hu-HU (Scoring in en-US)
SARAIL	hu-HU (Scoring in en-US)
CFD	pt-PT
DRIVEPLS	is-IS (Scoring in en-US)
Reports	New languages
PERSROAD	cs-CZ
Manuals	New languages
WAF	en-US
Tests/language	Test
cs-CZ	WAF
en-US	WAF
es-ES	WAF
fr-FR	WAF
hu-HU	VISGED
is-IS	AMT
it-IT	WAF
nl-NL	WAF
pt-PT	AWLT, WIWO, WOBT, VISCO
ru-RU	WAF
sk-SK	WAF
tr-TR	WAF
zh-TW	WAF
Test sets/language	Test set
hu-HU	SFMOTOR, SARAIL
is-IS	DRIVEPLS
pt-PT	CFD

Norm update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>2HAND</b>	S1	5000-5003	New	Rep	Implementation of a representative norm sample for Italy	Representative norm sample - Italy	370	2016-2017	Total, gender, age, education level
<b>AMT</b>	S1-S3 & S5-S11	5000-5003	New	Rep	Implementation of a representative norm sample for Italy	Representative norm sample - Italy	411	2016-2017	Total, gender, age, education level
<b>COG</b>	S11	5000-5003	New	Rep	Implementation of a representative norm sample for Italy	Representative norm sample - Italy	325	2016-2017	Total, gender, age, education level
<b>DSI</b>	S1	1000-1003	Update	Rep	Change of the norm score calculation for STABE and STABI	Representative norm sample	378	2003-2004	Total, gender, education, age
<b>DSI</b>	S3	1000-1003	Update	Rep	Change of the norm score calculation for STABE and STABI	Representative norm sample	334	2010	Total, gender, education, age
<b>FGT</b>	S11	5000-5003	New	Rep	Implementation of a representative norm sample for Italy	Representative norm sample - Italy	378	2016-2017	Total, gender, age, education
<b>FGT</b>	S11	80083-80084	New	Conv	Implementation of a norm sample of children and adolescents	Children and adolescents (COGBAT)	250	2016-2017	Total, age
<b>FGT</b>	S12	1000-1003	New	Rep	Implementation of a representative norm sample	Representative norm sample	314	2012-2013	Total, gender, education, age

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>FLEI</b>	S01	5000-5003	New	Rep	Implementation of a representative norm sample for Italy	Representative norm sample - Italy	401	2016-2017	Total, gender, age, education
<b>FLEI</b>	S01	80083-80084	New	Conv	Implementation of a norm sample of children and adolescents	Children and adolescents (COGBAT)	228	2016-2017	Total, age
<b>INHIB</b>	S4	1000-1003	Update	Rep	Update of the representative norm sample	Representative norm sample	417	2010-2017	Total, age, education, gender
<b>INHIB</b>	S13	80083-80084	New	Conv	Implementation of a norm sample of children and adolescents	Children and adolescents (COGBAT)	250	2016-2017	Total, age
<b>INHIB</b>	S14	1000-1003	New	Rep	Implementation of a representative norm sample	Representative norm sample	417	2010-2017	Total, gender, education, age
<b>INSBAT</b>	S2	1000-1002	Update	Rep	Update of the representative norm sample	Representative norm sample	1226	2017	Total, age and gender, age and education level
<b>IVPE-R</b>	S1	5000-5003	New	Rep	Implementation of a representative norm sample for Italy	Representative norm sample - Italy	346	2016-2017	Total, gender, age, education level
<b>LVT</b>	S3	5000-5003	New	Rep	Implementation of a representative norm sample for Italy	Representative norm sample - Italy	402	2016-2017	Total, gender, age, education level
<b>NBV</b>	S1	80083-80084	New	Conv	Implementation of a norm sample of children and adolescents	Children and adolescents (COGBAT)	250	2016-2017	Total, age
<b>NBV</b>	S2	1000-1003	Update	Rep	Update of the representative norm sample	Representative norm sample	482	2010-2017	Total, age, education, gender

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>TMT</b>	S1	80083-80084	New	Conv	Implementation of a norm sample of children and adolescents	Children and adolescents (COGBAT)	250	2016-2017	Total, age
<b>TMT</b>	S2	80083-80084	New	Conv	Implementation of a norm sample of children and adolescents	Children and adolescents (COGBAT)	250	2016-2017	Total, age
<b>TMT</b>	S3	80083-80084	New	Conv	Implementation of a norm sample of children and adolescents	Children and adolescents (COGBAT)	250	2016-2017	Total, age
<b>TOL</b>	S1	80083-80084	New	Conv	Implementation of a norm sample of children and adolescents	Children and adolescents (COGBAT)	250	2016-2017	Total, age
<b>TOL</b>	S2	80083-80084	New	Conv	Implementation of a norm sample of children and adolescents	Children and adolescents (COGBAT)	250	2016-2017	Total, age
<b>TOL</b>	S3	80083-80084	New	Conv	Implementation of a norm sample of children and adolescents	Children and adolescents (COGBAT)	250	2016-2017	Total, age
<b>SIMKAP</b>	S1	1030-1033	Update	Rep	Update of the representative norm sample	Representative norm sample	339	2016-2017	Total, gender, age, education level
<b>WAF</b>	S1	1000-1003	New	Rep	Update of the representative norm sample	Representative norm sample	306	2016-2017	Total, gender, age, education level
<b>WAFa</b>	S1-S2	1000-1003	Update	Rep	Update of the representative norm sample	Representative norm sample	306	2016-2017	Total, gender, age, education level
<b>WAFa</b>	S1-S2	1050-1053	Update	Rep	Update of the representative norm sample	Representative norm sample – retesting	306	2016-2017	Total, gender, age, education level

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>WAFA</b>	S2	80083-80084	New	Conv	Implementation of a norm sample of children and adolescents	Children and adolescents (COGBAT)	250	2016-2017	Total, age
<b>WAFV</b>	S1-S8	1000-1003	Update	Rep	Update of the representative norm sample	Representative norm sample	306	2016-2017	Total, gender, age, education level

## VTs 8.9.10

### New features

- Relevant manual updates in de-DE:
  - Test set: CFD (target words and supplementary notes on administration of WOBT added to the appendix)
- Manual updates in en-US:
  - 2HAND, AISTR, AMT, ATAVT, AWLT, BFSI, COG, DT, INSSVR, PP-R, RT, SIGNAL, SMART, STROOP, VISCO, COGBAT, DRIVESC, DRIVESTA, DRIVEPLS, SAAIR, SARAIL
- VTS Integration Service supports the import of candidates from a CSV file and the export of test results to a CSV file
- The performance of the VTS Service has been improved
- The single workstation setup now includes the option to set up a link for Direct Testing
- The stability and performance of the VTS setup has been improved
- It is possible to define the sender's name and email address immediately before sending the invitation email
- In Direct Testing it is possible to add the name of the Word report template that has been used to the file name of the automatically generated Word report
- The printing of test results has been improved

### Bug fixes

- Test results were not combined when printing if the setting 'Always print results on a separate page' was selected
- For some test results, SPSS export of INSBAT failed
- In the SMART test, the wrong hour format was used in English
- In the printout of the WAFAT test, blank results were displayed for subtests that had not been administered
- An error could occur in the SPSS export of the HCTA test which meant that the export of SPSS programs could not be loaded correctly
- Placeholders were displayed in invitation emails in some languages
- Problems could occur in the PDF printout of the Hardware Test
- A passage in English was displayed incorrectly in the chart of the OLMT test
- The audio output in the DT test sometimes failed to work
- In the test results of the CFADHD test set, the variable "Spread of reaction time" was displayed in the wrong format
- Multiple results emails were sent in Direct Testing if multiple Word templates were used
- In the PERSEV test, touch input did not work on some devices
- In CSV export of the BFSI test, some variables were missing if the export was performed via the VTS Integration Service

New translations

Tests	New languages
VIP	sk-SK
Test sets	New languages
TATEENS2	sr-RS (scoring in en-US)
PERSROAD	sk-SK
Manuals	New languages
AWLT	en-US
GET	en-US
ISR	en-US
Tests by languages	Test
VIP	sk-SK
Test sets by languages	Test sets
TATEENS2	sr-RS (scoring in en-US)
PERSROAD	sk-SK

## VTs 8.9.00

### New features

- New tests: ISR and GET
- The test IVPE was replaced by IVPE-R in the test sets SAROAD and PERSROAD.
- New report: SAROAD in ru-RU
- New manual: AWLT in de-DE, IVPE-R in en-US
- Relevant German manual updates:
  - SAROAD: IVPE-R was integrated
  - PERSROAD: IVPE-R was integrated
  - Disclaimer integrated in all manuals
- Update of English manuals:
  - INHIB, MLS, VIGIL, WAFA
- Update of Word-Reports:
  - IVPE-R was integrated in SAROAD and PERSROAD
- The age restriction was removed for all tests.
- For the MLS test, individual test results at the subtest level can be combined into one test result.
- In the Testplayer, the design of the page for setting the volume was revised.
- The calibration notification before the start of the test specifies which devices are not calibrated. In addition, the status of the calibration is displayed in the VTS settings in the AdminClient.

### Bug fixes

- Some files were missing for the client server setup when only the AdminClient was installed.
- When printing a test battery, the duration of tests that contain scales was reported incorrectly.
- For the WAFA test, the warning for audio calibration was shown for subtests that do not require audio calibration.
- In the profile of the IVPE test, some variables did not match the scores of the results table.
- In the HTML Testplayer, it was not possible to continue for the date entry in some languages.
- In the HTML Testplayer, it was possible to enter an invalid date for the date entry.
- For the APM test, the text was truncated in the presentation.
- In the AdminClient, not all licenses were installed during the installation of licenses by way of an SFLIC file when one or multiple licenses are invalid.

New translations

Tests	New languages
PAUSE	is-IS
SMART	es-ES
B5PS	es-ES
A3DW	sr-RS
IVPE-R	cs-CZ, ru-RU, sk-SK
GET	en-US
ISR	en-US
Test Sets	New language
SAROAD	ru-RU
Reports	New languages
SAROAD	ru-RU
Manuals	New languages
IVPE-R	en-US
Tests/language	Test
is-IS	PAUSE
es-ES	SMART, B5PS
sr-RS	A3DW
cs-CZ	IVPE-R
ru-RU	IVPE-R
sk-SK	IVPE-R
en-US	GET, ISR
Test sets/language	Test set
ru-RU	SAROAD

Norm Update

Test	Test form	Norm No.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
LVT	S1	1005-1008	update	Rep	Addition to representative norm sample with new data from 2017	Representative norm sample	708	2001-2017	Total, age, gender, education level
LVT	S2	1001-1004	update	Rep	Addition to representative norm sample with new data from 2017	Representative norm sample	772	2001-2017	Total, age, gender, education level
LVT	S3	1001-1004	update	Rep	Adding new data from 2017 to representative norm sample	Representative norm sample	772	2001-2017	Total, age, gender, education level
AMT	S5	80068	update	Conv	Adding new data to sample	Healthy older drivers – Germany	300	2015-2016	Total
ATAVT	S5	80068	update	Conv	Adding new data to sample	Healthy older drivers – Germany	300	2015-2016	Total
COG	S11	80068	update	Conv	Adding new data to sample	Healthy older drivers – Germany	223	2015-2016	Total
DT	S1	80068	update	Conv	Adding new data to sample	Healthy older drivers – Germany	299	2015-2016	Total
RT	S3	80068	update	Conv	Adding new data to sample	Healthy older drivers – Germany	296	2015-2016	Total
TMT	S1	80068	update	Conv	Adding new data to sample	Healthy older drivers – Germany	298	2015-2016	Total

Test	Test form	Norm No.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>2HAND</b>	S3	80074	New	Conv	New convenience sample "Employees (industry) – China"	Employees (industry) – China	128	2016	Total
<b>3D</b>	S1	80074	New	Conv	New convenience sample "Employees (industry) – China"	Employees (industry) – China	128	2016	Total
<b>BFSI</b>	S2	80074	New	Conv	New convenience sample "Employees (industry) – China"	Employees (industry) – China	128	2016	Total
<b>DT</b>	S1	80074	New	Conv	New convenience sample "Employees (industry) – China"	Employees (industry) – China	128	2016	Total
<b>RT</b>	S3	80074	New	Conv	New convenience sample "Employees (industry) – China"	Employees (industry) – China	128	2016	Total
<b>SIGNAL</b>	S1	80074	New	Conv	New convenience sample "Employees (industry) – China"	Employees (industry) – China	128	2016	Total
<b>TCT</b>	S1	80074	New	Conv	New convenience sample "Employees (industry) – China"	Employees (industry) – China	128	2016	Total
<b>IBF</b>	S2	80075	New	Conv	New convenience sample "School students – Austria"	School students – Austria	2053	2016-2017	Total

## WTS 8.8.22

### Bug Fixes

- An error is shown at loading of test results if there are any results which are created by an imported test battery
- Test results, which are created by an imported test battery, are not shown per default in the list of results

## WTS 8.8.21

### Bug Fixes

- An error is shown at loading of test results if there are any results which are created by a test battery which contains tests in different languages

## VTs 8.8.20

### New features

- Update of English (en-US) manuals:
  - Tests: AMT, CORSI, TMT, WAFG
  - Sector: NEURO
- Update of Word-Reports:
  - IBF - de-DE, en-US, es-ES, fr-FR, it-IT, nl-NL, pt-PT
- Optimization of the sending of invitation emails
- If an attempt is made to change the individual's details during a test session, a warning is displayed
- Optimization of touch-screen calibration
- Optimization of the control monitor
- Optimization of the loading of test results
- CSV export of the 2HAND test contains additional variables

### Bug fixes

- The result of a test set within a test battery is shown in the results list as an individual test sequence
- It is possible to set up a test battery with a name that has already been used
- The control monitor is not launched automatically, although it is installed via setup
- Pictures in some Word reports may be cut off
- An error message is displayed during CSV import if the personal ID is not selected in the person database
- During automatic report generation at the end of the test session, an error message is displayed if the export path has not been defined
- The settings in the person database are not used for the ranking
- A error message is displayed during the import of the results of the SKASUK test
- During export of the CSV profile, the test name is not displayed
- An error message is displayed when sending test invitation emails if the sending process is not configured
- The test name is cut off in the scoring header if it is too long
- It is not possible to delete the default folder for data exports
- An error may occur logging into the VTS if there are two multi-clients with different login settings
- The test battery for Direct Testing is not reported correctly in the scoring
- In the SPSS export of MMG, answers are shown as empty
- A test battery that is exported with an older version of the VTS cannot be imported with a more recent version
- In the ALS test in the HTML test player, an error may occur if automatic test repetition is activated
- Scoring methods of other multi-clients are offered
- It is possible to set up a person without first name and surname
- In the ATAVT test, pictures on the instruction pages are smaller than pictures in the test phase
- The client code is not displayed in the Word report
- When changing pages in the B5PS test in the HTML test player, an error message is sometimes displayed

- An error may occur when changing the details of an individual with a lot of test results
- An error may occur when changing the VTS language
- The dialog window in the background disappears when printing scorings
- An error may occur when generating a Word report for the SKASUK test
- An error occurs at the start of testing if an individual's education level is missing in the CSV import
- Some test variable names are not displayed correctly in CSV export
- No input device for the MOI/S2 test is shown in the settings
- During automatic report generation, the test player is blocked at the end of the test session
- When launching VTS HR, NEURO, SPORT or TRAFFIC, the set languages are not used
- When updating the VTS, it is not possible to install the latest license via an .sflic file
- It is not possible to generate the Word report for the COGBAT test set
- An error may occur in the SPSS export of the TOM/S1 test
- Deleting a test battery that is being used in a current test session results in an error
- An error may occur if the MOI/S1 test is used in Hungarian
- Automatic report generation ceases to work if a Word report template that is used has been deleted
- An error may occur during generation of a PDF
- When generating a Word report for the IBF test in English, some of the values are not shown correctly
- A test battery containing the CFD test set cannot be imported

New translations

Tests	New languages
MTA	sr-RS
VISGED	sr-RS
ZBA	sr-RS
3D	hu-HU
5POINT	hu-HU
FGT	hu-HU
FLIM	hu-HU, ru-RU
INHIB	hu-HU
MDT	hu-HU, ru-RU
NBV	hu-HU
SWITCH	hu-HU
TOL-F	hu-HU
WAFA	hu-HU
WAFG	hu-HU
WAFS	hu-HU
WAFV	hu-HU
WAFW	hu-HU
PP-R	hi-IN
AISTR	it-IT
PAD	nl-NL
VISCO	nl-NL
A3DW	ru-RU
FVW	ru-RU
PAUSE	bg-BG, bs-BA, et-EE, hi-IN, vi-VI, zh-CN
Test Sets	New language
SAAIR	ru-RU
Reports	New languages
Sales	fr-FR
Manuals	
NEURO	nl-NL
CFD	en-US
Tests/language	Test
sr-RS	MTA, VISGED, ZBA
hu-HU	3D, 5POINT, FGT, FLIM, INHIB, MDT, NBV, SWITCH, TOL-F, WAFA, WAFG, WAFS, WAFV, WAFW
hi-IN	PP-R, PAUSE
it-IT	AISTR
nl-NL	PAD, VISCO
ru-RU	A3DW, FLIM, MDT, FVW
bg-BG	PAUSE
bs-BA	PAUSE
et-EE	PAUSE

hi-IN	PAUSE
vi-VI	PAUSE
zh-CN	PAUSE
<b>Test sets/language</b>	<b>Test set</b>
ru-RU	SAAIR

## VTs 8.8.11

### Bug fixes

- Wrong values shown in confidence interval on “CFD” result

## VTs 8.8.10

### New features

- New tests: AWLT, WIWO & WOBT
- New test set: CFD (S1 & S2)
- New test forms: WAFG/S3
- New Word report: CFD
- Relevant German manual updates
  - WAFG (integrated test form S3)
  - WAFG (reprogramming for VTS8)
  - NEURO (integrated new tests and CFD S1 and S2)
- Progress chart for retesting with the CFD test set
- Implementation of reliable change indices for the CFD test set
- Possibility of norms adjustment for the CFD test set.
- Possibility to calculate and standardize index values
- Implementation of a Result Editor for editing/correcting results for AWLT, WIWO and WOBT
- WAFG and WAFG can now be worked on touchscreens.
- Animations in the standard instructions for a better understanding in WAFG and WAFG

New translations

Tests	New languages
AWLT	en-US, it-IT
WIWO	en-US, it-IT
WOBT	en-US, it-IT
Test-Sets	New languages
CFD	en-US, it-IT
Reports	New languages
Word-Reports	New languages
CFD	en-US
Tests/language	Test
en-US	AWLT, WIWO, WOBT
it-IT	AWLT, WIWO, WOBT
Test-Sets/language	Test-Set
en-US	CFD
it-IT	CFD

Norm Update

Test	Test form	Norm No.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>AWLT</b>	S1	1000	New	Rep	New representative norm sample	Representative norm sample	312	2016	Total, gender, age, education level
<b>AWLT</b>	S2	1000	New	Rep	New representative norm sample	Representative norm sample	305	2016	Total, gender, age, education level
<b>WAFG</b>	S3	1000	New	Rep	New representative norm sample	Representative norm sample	312	2016	Total, gender, age, education level
<b>WIWO</b>	S1	1000	New	Rep	New representative norm sample	Representative norm sample	312	2016	Total, gender, age, education level
<b>WIWO</b>	S2	1000	New	Rep	New representative norm sample	Representative norm sample	305	2016	Total, gender, age, education level
<b>WIWO</b>	S3	1000	New	Rep	New representative norm sample	Representative norm sample	312	2016	Total, gender, age, education level
<b>WIWO</b>	S4	1000	New	Rep	New representative norm sample	Representative norm sample	305	2016	Total, gender, age, education level
<b>WOBT</b>	S1	1000	New	Rep	New representative norm sample	Representative norm sample	312	2016	Total, gender, age, education level
<b>WOBT</b>	S2	1000	New	Rep	New representative norm sample	Representative norm sample	305	2016	Total, gender, age, education level
<b>AWLT</b>	S1	50000	New	Conv	New convenience sample of healthy older persons over 50 years	Norm sample 50+ CFD	407	2016	Total, gender, age, education level
<b>AWLT</b>	S2	50004	New	Conv	New convenience sample of healthy older persons over 50 years	Norm sample 50+ CFD – retesting	376	2016	Total, gender, age, education level

Test	Test form	Norm No.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>CORSI</b>	S7	50000	New	Conv	New convenience sample of healthy older persons over 50 years	Norm sample 50+ CFD	407	2016	Total, gender, age, education level
<b>CORSI</b>	S7	50004	New	Conv	New convenience sample of healthy older persons over 50 years	Norm sample 50+ CFD – retesting	376	2016	Total, gender, age, education level
<b>VISCO</b>	S3	50000	New	Conv	New convenience sample of healthy older persons over 50 years	Norm sample 50+ CFD	407	2016	Total, gender, age, education level
<b>VISCO</b>	S4	50004	New	Conv	New convenience sample of healthy older persons over 50 years	Norm sample 50+ CFD – retesting	376	2016	Total, gender, age, education level
<b>WAFA</b>	S2	50000	New	Conv	New convenience sample of healthy older persons over 50 years	Norm sample 50+ CFD	407	2016	Total, gender, age, education level
<b>WAFA</b>	S2	50004	New	Conv	New convenience sample of healthy older persons over 50 years	Norm sample 50+ CFD – retesting	376	2016	Total, gender, age, education level
<b>WAFG</b>	S3	50000	New	Conv	New convenience sample of healthy older persons over 50 years	Norm sample 50+ CFD	407	2016	Total, gender, age, education level
<b>WAFG</b>	S3	50004	New	Conv	New convenience sample of healthy older persons over 50 years	Norm sample 50+ CFD – retesting	376	2016	Total, gender, age, education level
<b>WIWO</b>	S1	50000	New	Conv	New convenience sample of healthy older persons over 50 years	Norm sample 50+ CFD	407	2016	Total, gender, age, education level

Test	Test form	Norm No.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>WIWO</b>	S2	50004	New	Conv	New convenience sample of healthy older persons over 50 years	Norm sample 50+ CFD – retesting	376	2016	Total, gender, age, education level
<b>WIWO</b>	S3	50000	New	Conv	New convenience sample of healthy older persons over 50 years	Norm sample 50+ CFD	407	2016	Total, gender, age, education level
<b>WIWO</b>	S4	50004	New	Conv	New convenience sample of healthy older persons over 50 years	Norm sample 50+ CFD – retesting	376	2016	Total, gender, age, education level
<b>WOBT</b>	S1	50000	New	Conv	New convenience sample of healthy older persons over 50 years	Norm sample 50+ CFD	407	2016	Total, gender, age, education level
<b>WOBT</b>	S2	50004	New	Conv	New convenience sample of healthy older persons over 50 years	Norm sample 50+ CFD – retesting	376	2016	Total, gender, age, education level
<b>CFD</b>	S1	50000	New	Conv	New convenience sample of healthy older persons over 50 years	Norm sample 50+ CFD	407	2016	Total, gender, age, education level
<b>CFD</b>	S2	50004	New	Conv	New convenience sample of healthy older persons over 50 years	Norm sample 50+ CFD – retesting	376	2016	Total, gender, age, education level

## VTs 8.8.00

### New features

- New presentation option: supervisor-supported testing for selected tests
- New test: IVPE-R
- New test forms: CORSI/S7, VISCO/S3, VISCO/S4
- New test features: Suggestions for jobs and college majors for the MOI
- Relevant German manual updates
  - MOI (suggestions for jobs and college majors)
  - CORSI (integrated test form S7)
  - SMART (DIN checklist updated and new validation studies)
  - TMT (reprogramming for VTS8)
  - VISCO (integrated test forms S3 and S4)
- Update of English (en-US) manuals
  - Tests: 2HAND, SMART
  - Test sets: COGBAT, DRIVESC, DRIVESTA, DRIVEPLS, SAROAD, SARAIL
  - Sector: HR; SPORT, TRAFFIC
- Animations in the standard instructions for a better understanding in TMT
- MS Word no longer has to be installed to create (Word) reports. In addition, a PDF printer (novaPDF) no longer has to be installed.
- Log files can simply be opened via the backstage (menu item: General Settings->Info) to analyze program errors.
- VTS licenses can be imported collectively as an SFLIC file.
- Via the setting General Settings->User interface->System Name, a name can be defined for the VTS system which then is displayed in the title of the AdminClient window.

### Bug fixes

- There may be an error when printing on a printer in the network.
- An error occurs when printing BATEVA-based test results.
- Only an English name was suggested when creating a new test battery.
- The weekdays in the backstage were only displayed in German under General Settings->Database.
- An error may occur when importing test results that were exported with an older version of VTS.
- The names of the MLS test subtests are not translated correctly into Russian.

## New translations

<b>Tests</b>	<b>New languages</b>
B5PS	hu-HU
IVPE-R	en-US, es-ES, hi-IN, it-IT
SMART	hu-HU
VISCO	it-IT
<b>Reports</b>	<b>New languages</b>
Management	hu-HU
<b>Tests/language</b>	<b>Test</b>
en-US	IVPE-R
es-ES	IVPE-R
hi-IN	IVPE-R
hu-HU	B5PS, SMART
it-IT	IVPE-R, VISCO

Norm Update

Test	Test form	Norm No.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>CORSI</b>	S7	1000	New	Rep	New representative norm sample	Representative norm sample	312	2016	Total, gender, age, education level
<b>IVPE-R</b>	S1	1000	New	Rep	New representative norm sample	Representative norm sample	345	2016	Total, gender, age, education level
<b>VISCO</b>	S3	1000	New	Rep	New representative norm sample	Representative norm sample	408	2016	Total, gender, age, education level
<b>VISCO</b>	S4	1000	New	Rep	New representative norm sample	Representative norm sample	337	2016	Total, gender, age, education level
<b>AMT</b>	S1-S3 & S5-S11	5020	New	Rep	New Brazilian representative norm sample	Representative norm sample – Brazil	436	2016	Total, gender, age, education level
<b>ATAVT</b>	S1-S6	5020	New	Rep	New Brazilian representative norm sample	Representative norm sample – Brazil	436	2016	Total, gender, age, education level
<b>BFSI</b>	S1	5020	New	Rep	New Brazilian representative norm sample	Representative norm sample – Brazil	436	2016	Total, gender, age, education level
<b>COG</b>	S11	5020	New	Rep	New Brazilian representative norm sample	Representative norm sample – Brazil	355	2016	Total, gender, age, education level
<b>DT</b>	S1	5020	New	Rep	New Brazilian representative norm sample	Representative norm sample – Brazil	436	2016	Total, gender, age, education level
<b>IVPE</b>	S1	5020	New	Rep	New Brazilian representative norm sample	Representative norm sample – Brazil	399	2016	Total, gender, age, education level

Test	Test form	Norm No.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
RT	S3	5020	New	Rep	New Brazilian representative norm sample	Representative norm sample – Brazil	434	2016	Total, gender, age, education level
VIP	S1	5020	New	Rep	New Brazilian representative norm sample	Representative norm sample – Brazil	399	2016	Total, gender, age, education level

## VTs 8.7.00

### New features

- New test forms: SMART/S3
- Relevant German manual updates
  - SMART (integrated test form S3)
  - HR (SMART – integrated test form S3)
- Update of English (en-GB) manuals
  - BFSI, INSBAT
- Update of English (en-US) manuals
  - VISGED, WAFV, SAAIR
- Relevant updates of Word reports
  - SMART – de-DE and en-US (integrated test form S3)
- The VTS setup has been upgraded to additionally enable manual corrections and updates of the database via SQL script.
- When reinstalling VTS, SQL Server 2016 Express is used for Windows 8 (64-bit) and Windows 10. SQL Server 2008 Express will be used for Windows 7 and Windows 8 32-bit, as before.
- When VTS is first installed, it is not necessary by default to enter a password for the VTS user. However, you can assign a password, if required.
- VTS can (generally) be operated on a terminal server.
- Meaningful file names are suggested to the user when creating or saving files.
- Additional multi-clients can be added in the settings of the AdminClient.
- The norm type can be changed for the profile for some tests.
- When there is an identity check, it can be filled in with all available input media.
- In the AdminClient, “connectest” is integrated as an additional tab.
- Various optimizations regarding performance in the AdminClient.

### Bug fixes

- An error occurs when importing a test battery of a newer VTS version.
- An error occurs when importing test results as part of data migration from VTS 6.
- An error occurs in the VTS Service when there is no connection to the database.
- Changes to the “Advanced options” for the INSBAT test sometimes are not stored correctly.
- In rare cases, an error can occur in rare cases after displaying the test administrator window for the B5PS test.
- For the ATAVT test, the displayed images can be displayed distorted for special aspect ratios.
- An error occurs when during the CSV export of the BFSI test results.
- An operating system with the language sk-SK may result in a crash for the MOI/S1 test.
- An error may occur when pressing the keyboard shortcut ESC-F5 during loading or when switching from some tests to another.
- After deactivating for saving the logon password, it still is not removed for the next VTS logon.
- The FLIM and CVLT tests are offered in more languages than they are actually available in.

- For some tests, the elements displayed in the scoring cannot be changed using the display option.
- Some fields of the personal details are not displayed entirely in the AdminClient.

New translations

Tests	New languages
B5PS	it-IT
SMART	it-IT
FBS	hu-HU
PAUSE	sl-SI, fa-IR
ATAVT	hi-IN
VISCO	es-ES
2HAND	sl-SI (scoring)
AISTR	sl-SI (scoring)
DAUF	sl-SI (scoring)
DT	sl-SI (scoring)
FVW	sl-SI (scoring)
RT	sl-SI (scoring)
VIGIL	sl-SI (scoring)
Test Sets	New language
Reports	New languages
Sales	it-IT
Tests/language	Test
it-IT	B5PS, SMART
hi-IN	ATAVT
es-ES	VISCO
hu-HU	FBS
sl-SI	PAUSE, 2HAND (scoring), AISTR (scoring), DAUF (scoring), DT (scoring), FVW (scoring), RT (scoring), VIGIL (scoring)
fa-IR	PAUSE
Test sets/language	Test set

Norm Update

Test	Test form	Norm No.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>2D</b>	S1	1000-1003	update	Rep	Additional new data for representative norm sample	Representative norm sample	634	2010-2016	Total, gender, age, education level
<b>2HAND</b>	S3	1030-1033	update	Rep	Additional new data for representative norm sample	Representative norm sample	659	2007-2016	Total, gender, age, education level
<b>AHA</b>	S1	1003-1006	update	Rep	Additional new data for representative norm sample	Representative norm sample	807	2000-2014	Total, gender, age, education level
<b>APM</b>	S3	1792-1795	update	Rep	Additional new data for representative norm sample	Representative norm sample	681	2009-2016	Total, gender, age, education level
<b>BFW</b>	S1	1000-1003	update	Rep	Additional new data for representative norm sample	Representative norm sample	546	2003-2016	Total, gender, age, education level
<b>COG</b>	S4	1030-1033	New	Rep	New representative norm sample	Representative norm sample	318	2015-2016	Total, gender, age, education level
<b>COG</b>	S11	1030-1033	update	Rep	Additional new data for representative norm sample	Representative norm sample	662	2005-2015	Total, gender, age, education level
<b>CORSI</b>	S1-S4	1000-1004	update	Rep	Additional new data for representative norm sample	Representative norm sample	576	2011-2015	Total, gender, age, education level, age & education level
<b>DT</b>	S2	1000-1003	New	Rep	New representative norm sample	Representative norm sample	303	2013-2015	Total, gender, age, education level

Test	Test form	Norm No.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>FRM</b>	S2	1000-1003	update	Rep	Additional new data for representative norm sample	Representative norm sample	718	2012-2016	Total, gender, age, education level
<b>GAT</b>	S1	2000-2003	New	Rep	New representative norm sample	Representative norm sample	327	2012-2014	Total, gender, age, education level
<b>MMG</b>	S1	1000-1003	update	Rep	Additional new data for representative norm sample	Representative norm sample	544	2014-2016	Total, gender, age, education level
<b>RT</b>	S2	1030-1033	New	Rep	New representative norm sample	Representative norm sample	305	2013-2015	Total, gender, age, education level
<b>RT</b>	S3	1030-1033	update	Rep	Additional new data for representative norm sample	Representative norm sample	1050	1996-2016	Total, gender, age, education level
<b>SMART</b>	S3	1000-1003	New	Rep	New representative norm sample	Representative norm sample	325	2014	Total, gender, age, education level
<b>SMK</b>	S4	1030-1033	New	Rep	New representative norm sample	Representative norm sample	303	2012-2014	Total, gender, age, education level
<b>SPMPLS</b>	S1	2000-2003	New	Rep	New representative norm sample	Representative norm sample	300	2009-2014	Total, gender, age, education level
<b>TMT</b>	S1-S3	1000-1003	update	Rep	Additional new data for representative norm sample	Representative norm sample	600	2012-2016	Total, gender, age, education level
<b>ZBA</b>	S2	1000-1003	update	Rep	Additional new data for representative norm sample	Representative norm sample	533	2007-2015	Total, gender, age, education level
<b>DT</b>	S3	5000-5003	New	Rep	New Italian representative norm sample	Representative norm sample - Italy	393	2014-2016	Total, gender, age, education level

Test	Test form	Norm No.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>MDT</b>	S2	5000-5003	New	Rep	New Italian representative norm sample	Representative norm sample - Italy	381	2014-2016	Total, gender, age, education level
<b>MDT</b>	S3	5000-5003	New	Rep	New Italian representative norm sample	Representative norm sample - Italy	393	2014-2016	Total, gender, age, education level
<b>RT</b>	S1	5000-5003	New	Rep	New Italian representative norm sample	Representative norm sample - Italy	355	2014-2016	Total, gender, age, education level
<b>RT</b>	S3	5000-5003	update	Rep	Additional new data for Italian representative norm sample	Representative norm sample - Italy	673	2014-2016	Total, gender, age, education level
<b>RT</b>	S5	5000-5003	New	Rep	New Italian representative norm sample	Representative norm sample - Italy	357	2014-2016	Total, gender, age, education level
<b>TMT</b>	S1-S3	5000-5003	New	Rep	New Italian representative norm sample	Representative norm sample - Italy	383	2014-2016	Total, gender, age, education level
<b>WAFG</b>	S2	5000-5003	New	Rep	New Italian representative norm sample	Representative norm sample - Italy	350	2014-2016	Total, gender, age, education level
<b>AMT</b>	S1-S3 & S5-S11	5010	New	Rep	New Slovakian representative norm sample	Representative norm sample – Slovakia	250	2008-2010	Total
<b>ATAVT</b>	S1-S6	5010	New	Rep	New Slovakian representative norm sample	Representative norm sample – Slovakia	331	2008-2011	Total

Test	Test form	Norm No.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>COG</b>	S11	5010	New	Rep	New Slovakian representative norm sample	Representative norm sample – Slovakia	311	2008-2010	Total
<b>DT</b>	S1	5010	New	Rep	New Slovakian representative norm sample	Representative norm sample – Slovakia	382	2007-2010	Total
<b>IVPE</b>	S1	5010	New	Rep	New Slovakian representative norm sample	Representative norm sample – Slovakia	311	2009-2010	Total
<b>PP</b>	S1	5010	New	Rep	New Slovakian representative norm sample	Representative norm sample – Slovakia	152	2009-2010	Total
<b>RT</b>	S3	5010	New	Rep	New Slovakian representative norm sample	Representative norm sample – Slovakia	263	2007-2011	Total
<b>WRBTv</b>	S1	5010	New	Rep	New Slovakian representative norm sample	Representative norm sample – Slovakia	204	2007-2010	Total
<b>DT</b>	S5	80010	New	Conv	New convenience sample for Indian truck drivers	Truck drivers – India	183	2012-2016	Total
<b>RT</b>	S5	80010	New	Conv	New convenience sample for Indian truck drivers	Truck drivers – India	195	2012-2016	Total
<b>AMT</b>	S1-S3 & S5-S11	80012	update	Conv	Additional new data for the convenience sample “Traffic psychological clients – France”	Traffic psychological clients - France	661	2010-2014	Total

Test	Test form	Norm No.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>ATAVT</b>	S1-S6	80012	update	Conv	Additional new data for the convenience sample "Traffic psychological clients – France"	Traffic psychological clients - France	3017	2010-2016	Total
<b>COG</b>	S1	80012	update	Conv	Additional new data for the convenience sample "Traffic psychological clients – France"	Traffic psychological clients - France	730	2010-2016	Total
<b>COG</b>	S11	80012	update	Conv	Additional new data for the convenience sample "Traffic psychological clients – France"	Traffic psychological clients - France	1017	2010-2015	Total
<b>DT</b>	S1	80012-80013	update	Conv	Additional new data for the convenience sample "Traffic psychological clients – France"	Traffic psychological clients - France	3415	2007-2016	Total, age
<b>RT</b>	S3	80012	update	Conv	Additional new data for the convenience sample "Traffic psychological clients – France"	Traffic psychological clients - France	2286	2010-2016	Total
<b>WRBTV</b>	S1	80012	update	Conv	Additional new data for the convenience sample "Traffic psychological clients – France"	Traffic psychological clients - France	771	2010-2016	Total
<b>AMT</b>	S1-S3 & S5-S11	80023	New	Conv	New convenience sample for "Applicants (bus drivers) – Slovakia"	Applicants (bus drivers) – Slovakia	643	2011-2014	Total

Test	Test form	Norm No.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>ATAVT</b>	S1-S6	80023	New	Conv	New convenience sample for “Applicants (bus drivers) – Slovakia”	Applicants (bus drivers) – Slovakia	645	2011-2014	Total
<b>AVIS</b>	S1-S2	80023	New	Conv	New convenience sample for “Applicants (bus drivers) – Slovakia”	Applicants (bus drivers) – Slovakia	570	2011-2014	Total
<b>COG</b>	S11	80023	New	Conv	New convenience sample for “Applicants (bus drivers) – Slovakia”	Applicants (bus drivers) – Slovakia	565	2011-2014	Total
<b>DT</b>	S1	80023	New	Conv	New convenience sample for “Applicants (bus drivers) – Slovakia”	Applicants (bus drivers) – Slovakia	655	2011-2014	Total
<b>IVPE</b>	S1	80023	New	Conv	New convenience sample for “Applicants (bus drivers) – Slovakia”	Applicants (bus drivers) – Slovakia	571	2011-2014	Total
<b>PP</b>	S1	80023	New	Conv	New convenience sample for “Applicants (bus drivers) – Slovakia”	Applicants (bus drivers) – Slovakia	232	2011-2014	Total
<b>RT</b>	S3	80023	New	Conv	New convenience sample for “Applicants (bus drivers) – Slovakia”	Applicants (bus drivers) – Slovakia	642	2011-2014	Total
<b>STROOP</b>	S7	80023	New	Conv	New convenience sample for “Applicants (bus drivers) – Slovakia”	Applicants (bus drivers) – Slovakia	257	2011-2014	Total
<b>WRBTv</b>	S1	80023	New	Conv	New convenience sample for “Applicants (bus drivers) – Slovakia”	Applicants (bus drivers) – Slovakia	574	2011-2014	Total

Test	Test form	Norm No.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>ZBA</b>	S2	80023	New	Conv	New convenience sample for “Applicants (bus drivers) – Slovakia”	Applicants (bus drivers) – Slovakia	563	2011-2014	Total
<b>AMT</b>	S1-S3 & S5-S11	80024	New	Conv	New convenience sample for “Applicants (tram drivers) – Slovakia”	Applicants (tram drivers) – Slovakia	337	2011-2014	Total
<b>ATAVT</b>	S1-S6	80024	New	Conv	New convenience sample for “Applicants (tram drivers) – Slovakia”	Applicants (tram drivers) – Slovakia	341	2011-2014	Total
<b>AVIS</b>	S1-S2	80024	New	Conv	New convenience sample for “Applicants (tram drivers) – Slovakia”	Applicants (tram drivers) – Slovakia	307	2011-2014	Total
<b>COG</b>	S11	80024	New	Conv	New convenience sample for “Applicants (tram drivers) – Slovakia”	Applicants (tram drivers) – Slovakia	336	2011-2014	Total
<b>DT</b>	S1	80024	New	Conv	New convenience sample for “Applicants (tram drivers) – Slovakia”	Applicants (tram drivers) – Slovakia	343	2011-2014	Total
<b>IVPE</b>	S1	80024	New	Conv	New convenience sample for “Applicants (tram drivers) – Slovakia”	Applicants (tram drivers) – Slovakia	571	2011-2014	Total
<b>PP</b>	S1	80024	New	Conv	New convenience sample for “Applicants	Applicants (tram drivers) – Slovakia	159	2011-2014	Total

Test	Test form	Norm No.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
					(tram drivers) – Slovakia”				
<b>RT</b>	S3	80024	New	Conv	New convenience sample for “Applicants (tram drivers) – Slovakia”	Applicants (tram drivers) – Slovakia	339	2011-2014	Total
<b>WRBTV</b>	S1	80024	New	Conv	New convenience sample for “Applicants (tram drivers) – Slovakia”	Applicants (tram drivers) – Slovakia	311	2011-2014	Total
<b>ZBA</b>	S2	80024	New	Conv	New convenience sample for “Applicants (tram drivers) – Slovakia”	Applicants (tram drivers) – Slovakia	305	2011-2014	Total
<b>AMT</b>	S1-S3 & S5-S11	80025	New	Conv	New convenience sample for “Applicants (trolley bus drivers) – Slovakia”	Applicants (trolley bus drivers) – Slovakia	320	2011-2014	Total
<b>ATAVT</b>	S1-S6	80025	New	Conv	New convenience sample for “Applicants (trolley bus drivers) – Slovakia”	Applicants (trolley bus drivers) – Slovakia	322	2011-2014	Total
<b>AVIS</b>	S1-S2	80025	New	Conv	New convenience sample for “Applicants (trolley bus drivers) – Slovakia”	Applicants (trolley bus drivers) – Slovakia	282	2011-2014	Total
<b>COG</b>	S11	80025	New	Conv	New convenience sample for “Applicants	Applicants (trolley bus drivers) – Slovakia	297	2011-2014	Total

Test	Test form	Norm No.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
					(trolley bus drivers) – Slovakia”				
<b>DT</b>	S1	80025	New	Conv	New convenience sample for “Applicants (trolley bus drivers) – Slovakia”	Applicants (trolley bus drivers) – Slovakia	322	2011-2014	Total
<b>IVPE</b>	S1	80025	New	Conv	New convenience sample for “Applicants (trolley bus drivers) – Slovakia”	Applicants (trolley bus drivers) – Slovakia	282	2011-2014	Total
<b>PP</b>	S1	80025	New	Conv	New convenience sample for “Applicants (trolley bus drivers) – Slovakia”	Applicants (trolley bus drivers) – Slovakia	124	2011-2014	Total
<b>RT</b>	S3	80025	New	Conv	New convenience sample for “Applicants (trolley bus drivers) – Slovakia”	Applicants (trolley bus drivers) – Slovakia	321	2011-2014	Total
<b>WRBTV</b>	S1	80025	New	Conv	New convenience sample for “Applicants (trolley bus drivers) – Slovakia”	Applicants (trolley bus drivers) – Slovakia	283	2011-2014	Total
<b>ZBA</b>	S2	80025	New	Conv	New convenience sample for “Applicants (trolley bus drivers) – Slovakia”	Applicants (trolley bus drivers) – Slovakia	276	2011-2014	Total
<b>AMT</b>	S1-S3 & S5-S11	80028	update	Conv	Additional new data for the convenience sample	Professional drivers - Poland	161	2011-2013	Total

Test	Test form	Norm No.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
					"Professional drivers – Poland"				
<b>B19</b>	S1	80028	update	Conv	Additional new data for the convenience sample "Professional drivers – Poland"	Professional drivers - Poland	1305	2011-2015	Total
<b>COG</b>	S11	80028	update	Conv	Additional new data for the convenience sample "Professional drivers – Poland"	Professional drivers - Poland	1096	2011-2015	Total
<b>RT</b>	S3	80028	update	Conv	Additional new data for the convenience sample "Professional drivers – Poland"	Professional drivers - Poland	1297	2011-2015	Total
<b>ZBA</b>	S4	80028	update	Conv	Additional new data for the convenience sample "Professional drivers – Poland"	Professional drivers - Poland	1307	2011-2015	Total
<b>COG</b>	S11	80029	update	Conv	Additional new data for the convenience sample "Machine operators – Poland"	Machine operators – Poland	468	2012-2015	Total
<b>RT</b>	S3	80029	update	Conv	Additional new data for the convenience sample "Machine operators – Poland"	Machine operators – Poland	596	2012-2015	Total
<b>MDT</b>	S2	80063	New	Conv	New convenience sample for racing drivers in Germany	Racing drivers – Germany	100	2010-2016	Total

Test	Test form	Norm No.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>FNA</b>	S1	80064	New	Conv	New convenience sample for older people in Germany	Older people – Germany	103	2011-2014	Total
<b>DAKT</b>	S1	80067	New	Conv	New convenience sample for adolescents in Austria	Adolescents – Austria	132	2015	Total
<b>DT</b>	S1	80067	New	Conv	New convenience sample for adolescents in Austria	Adolescents – Austria	225	2015	Total
<b>AMT</b>	S1-S3 & S5-S11	80068	New	Conv	New convenience sample for healthy older drivers in Germany	Healthy older drivers – Germany	222	2015-2016	Total
<b>ATAVT</b>	S1-S6	80068	New	Conv	New convenience sample for healthy older drivers in Germany	Healthy older drivers – Germany	222	2015-2016	Total
<b>COG</b>	S11	80068	New	Conv	New convenience sample for healthy older drivers in Germany	Healthy older drivers – Germany	223	2015-2016	Total
<b>DT</b>	S1	80068	New	Conv	New convenience sample for healthy older drivers in Germany	Healthy older drivers – Germany	222	2015-2016	Total
<b>RT</b>	S3	80068	New	Conv	New convenience sample for healthy older drivers in Germany	Healthy older drivers – Germany	221	2015-2016	Total
<b>TMT</b>	S1-S3	80068	New	Conv	New convenience sample for healthy older drivers in Germany	Healthy older drivers – Germany	222	2015-2016	Total

## VTs 8.6.21

(Available from July 2016)

### Bug Fixes

- Correction of the norm-file of INHIB (S13) for variable DW
- A problem can occur with tests on PCs without an audio device though there's no prerequisite for an audio device to run that test.
- While running the test SIMKAP a problem can occur in very rare cases.

## VTs 8.6.20

(Available from July 2016)

### New features

- New report: SAAIR (Overall & Ability)
- Relevant German manual updates:
  - Sector manual NEURO (VISCO description)
  - Sector manual HR (description of new SAAIR report)
  - SAAIR (description of new report)
- Update of English manuals:
  - COG, DT, MDT, MLS, SIGNAL, STROOP, VIGIL, DRIVESC, DRIVESTA, DRIVEPLS, SARAIL
- Relevant updates of Word reports:
  - SAAIR de-DE, en-US, fr-FR (Extended with BFSI)
- SAAIR test set
  - PST removed and replaced with A3DW
  - BFSI added

### Bug Fixes

- SARAIL Report: If datasets are incomplete, the system now correctly reports only the test results.
- When creating a new person existing persons with identical names are not shown
- On very slow PCs VTS update can fail
- After an interruption and subsequent closing of the Test player the status of the test is not updated in the Control Monitor
- Single elements of a scoring may be cut off after copying them to Clipboard

### New translations

Tests	New languages
B19	ru-RU
ATAVT	fa-IR
BFSI	pt-BR
COG	fa-IR
DT	fa-IR
FGT	sl-SI
FLEI	sl-SI
INHIB	sl-SI
LVT	fa-IR
MLS	es-ES
MOUSE	sl-SI
NBV	sl-SI
RT	fa-IR
TMT-L	sl-SI
TOL-F	sl-SI
VIP	nl-NL

WAFA	sl-SI
WAFG	sl-SI
WAFR	sl-SI
<b>Manuals</b>	<b>New language</b>
VISCO	en-US
<b>Tests/language</b>	<b>Test</b>
es-ES	MLS
fa-IR	ATAVT, COG, DT, LVT, RT
nl-NL	VIP
pt-BR	BFSI
sl-SI	FGT, FLEI, INHIB, MOUSE, NBV, TMT-L, TOL-F, WAFA, WAFG, WAFR
ru-RU	B19

Norm Update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
DT	S1	80066	New	Conv	New convenience sample	Applicants (pilots) - Italy	312	2015-2016	Total
INSBAT	S2	80066	New	Conv	New convenience sample	Applicants (pilots) - Italy	313	2015-2016	Total
SIGNAL	S3	80066	New	Conv	New convenience sample	Applicants (pilots) - Italy	312	2015-2016	Total
SMK	S1	80066	New	Conv	New convenience sample	Applicants (pilots) - Italy	311	2015-2016	Total
VIGIL	S1	80066	New	Conv	New convenience sample	Applicants (pilots) - Italy	311	2015-2016	Total
VISGED	S11	80066	New	Conv	New convenience sample	Applicants (pilots) - Italy	312	2015-2016	Total

## WTS 8.6.10

(Available from May 2016)

### Bug Fixes

- HCTA: Fix in the evaluation window
- INSSV/S2: Result correction after updating VTS 8.1.xx
- PAUSE & ADDINS: License information was removed

### New translations

Tests	New languages
MLS	es-ES
BFSI	pt-BR
Tests/language	Test
es-ES	MLS
pt-BR	BFSI

## VTs 8.6.00

(Available from April 2016)

### New Features

- New test: VISCO (S1, S2)
- New report: SARAIL
- New test set: TATEENS2
- Relevant German manual updates:
  - HR sector manual (description of new SARAIL report)
  - SARAIL (description of new report)
  - DRIVESC (integration of linear test forms)
  - DRIVESTA (integration of linear test forms)
  - DRIVEPLS (integration of linear test forms)
  - FEV (integration of linear test forms)
- Update of English manuals:
  - DAUF, DTKI, HCTA, INHIB, RT, SWITCH, WAFA, WAFF, WAFG, WAFR, WAFS, WAFV, TATEENS2
- Relevant updates of Word reports:
  - DRIVESC in de-DE, en-US, es-ES, fr-FR (integration of linear test forms)
  - DRIVESTA in de-DE, en-US, cs-CZ, fr-FR, sk-SK (integration of linear test forms)
  - DRIVEPLS in de-DE, en-US, cs-CZ, fr-FR, sk-SK (integration of linear test forms)
  - FEV in de-DE (integration of linear test forms)
  - DRIVE-PL in pl-PL (integration of linear test forms)
- Implementation of linear test forms of AMT and ATAVT to DRIVESC, DRIVESTA, DRIVEPLS, DRIVE-PL, FEV
- SIGNAL: Update of stimulus table in test form S4
- The AdminClient can be worked on touch screens.
- The SIMKAP test can be worked on touch screens.
- The performance of the AdminClient has been greatly improved in a number of places. This affects in particular customers with several thousand candidates and test results.
- Performance in drawing up scorings and reports has been improved.
- If a test is administered as part of a test battery, the name of the test battery is displayed on the control monitor.
- In the client setup (server solution), settings for a proxy server can be made.
- The VTS Hardware Test can be launched directly from the Windows start menu.
- When test results are exported automatically, only one value from the person database fields can be used to name the files.
- The functions for suppressing Windows energy-saving options have been revised and function reliably in all supported versions of Windows.
- The standard input medium for a test battery can be defined.
- In the license administration section, the most recently applied license update can be viewed in AdminClient.
- A statistic documenting the use of test licenses can be displayed in VTS AdminClient.
- In a scoring only the most frequently used elements are preselected for display.
- The PDF printer used by VTS is installed as the "Vienna Test System Printer". This is to avoid it being unintentionally deleted.

- The new ADDINS test enables information to be displayed to the testee before the test starts, e.g. instructing him/her to put on the headphones.
- When saving files from VTS, a default file name is suggested in the file dialog.
- In the ranking, all the persons can be selected and removed.
- The result of a ranking can be exported and saved as a CSV file.
- If the Testplayer (in a server solution) has no connection to the server, a comprehensible message is displayed.
- A VTS Server Solution can be used on VMs by using a load balancer.

### Bug Fixes

- MMG scoring, English – dimension names corrected
- B5PS report - corrections
- The CVLT test can crash under Windows 10.
- Delays in displaying the PP-R test can occur under Windows 10.
- In certain circumstances it is not always possible to assign a unique personal ID when registering individuals.
- The B5PS uses too much working memory when worked in the browser.
- When printing multiple ranking results, only the first page is printed.
- In the tests 2D, AMT, AVEM, BFSI, INSSV, INSSV-R, LAMBDA, MOI, SMART and VIP, comments in the test protocols are missing.
- The printout of individuals for Direct Testing is not always on a single side for each one.
- In Direct Testing a new test battery is not always presented immediately after selection.
- When importing/creating a test battery, an error can occur in VTS installations in which more than one multi-client is installed.
- The filter functions and the display of the number of search results relating to test results are sometimes incorrect.
- The sequence of variables in a printout of a ranking does not always correspond to the sequence in the ranking definition.
- If an audio device is missing or deactivated, the error message is incomprehensible.
- Delays occur when adding tests to a test list in which they are already included.
- An error occurs when importing very large numbers of people from a CSV file.

New translations

Tests	New languages
3D	pl-PL
AMT	sl-SL, sv-SE, hi-IN, pl-PL
IBF	fa-IR
MOI	sk-SK
MOI (S2)	hi-IN
MTA	fa-IR
PP-R	sl-SL
VISCO	en-US
VTS AdminClient	New languages
Presentation & scoring	ch-ZN, sl-SL
Presentation	fa-IR
Test scoring	New languages
AHA	es-ES
CORSI	es-ES
LVT	es-ES
SMK	es-ES
VISGED	es-ES
PST	nl-NL
SMK	nl-NL
VIGIL	nl-NL
NVLT	nl-NL
AMT	tr-TR
IVPE	tr-TR
STROOP	tr-TR
VIGIL	tr-TR
WRBTV	tr-TR
Reports	New languages
SARAIL	en-US
Test set	New languages
TATEENS2	en-US, es-ES, fr-FR, it-IT, nl-NL, pl-PL, pt-PT, ro-RO, ru-RU, sk-SK, sv-SE, tr-TR, arb, fi-FI, hu-HU
Tests/language	Test
en-US	VISCO
sl-SL	AMT, PP-R
sv-SE	AMT
pl-PL	3D, AMT
fa-IR	IBF, MTA
hi-IN	MOI (S2), AMT
sk-SK	MOI

Norm Update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
AMT	S4	80059	New	Conv	New convenience sample	Adolescent athletes - Germany	161	2015	Total
BDI2	S1	80060-80062	New	Conv	New convenience sample	Employees - Austria	420	2015	Total, gender, education level
BFSI	S2	80056-80058	New	Conv	New convenience sample	Executive managers - Austria	230	2015	Total, gender, education level
BFSI	S2	80059	New	Conv	New convenience sample	Adolescent athletes - Germany	141	2015	Total
BFSI	S2	80060-80062	New	Conv	New convenience sample	Employees - Austria	453	2015	Total, gender, education level
CORSI	S2	80059	New	Conv	New convenience sample	Adolescent athletes - Germany	197	2015	Total
DT	S1	80059	New	Conv	New convenience sample	Adolescent athletes - Germany	195	2015	Total
LVT	S2	80059	New	Conv	New convenience sample	Adolescent athletes - Germany	197	2015	Total
RT	S3	80059	New	Conv	New convenience sample	Adolescent athletes - Germany	199	2015	Total
SIGNAL	S3	80059	New	Conv	New convenience sample	Adolescent athletes - Germany	196	2015	Total
SIGNAL	S4	1000-1003	Update	Rep	Update and new norming of the representative norm sample	Representative norm sample	380	2015-2016	Total, gender, education level, age
VISCO	S1	1000-1003	New	Rep	Implementation of the representative norm sample for the new VISCO/S1 test	Representative norm sample	311	2015-2016	Total, gender, education level, age
VISCO	S2	1000-1003	New	Rep	Implementation of the representative norm	Representative norm sample	301	2015-2016	Total, gender, education level, age

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
					Sample for the new VISCO/S2 test				

## VTs 8.5.21

(Available from March 2016)

### Bug Fixes

- In rare cases there can be a problem while saving after running a test
- Rapid, repeated clicking on a button in the test LAMBDA leads to an error message

## VTs 8.5.20

(Available from December 2015)

### New features

- A VTS Single solution can be installed/activated with a product key when installing for the first time
- When a Test battery is presented separately it can be calculated together within a Ranking
- The variables of a Ranking printout are sorted

### Bug Fixes

- HCTA: Improvement of several wordings in the item texts

### New translations

Tests	New languages
IPS	zh-TW
MMG	zh-TW
COMPRO	zh-CN
DSI	sr-RS
AMT	sr-RS
MLS	sr-RS
Manuals	New languages
AMT	pl-PL
Tests/language	Test
zh-TW	IPS, MMG
zh-CN	COMPRO
sr-RS	DSI, AMT, MLS

## VTs 8.5.10

(Available from October 2015)

### New features

- New test forms: HCTA/S3, HCTA/S4
- Re-designed tests: HCTA, SIMKAP
- IBF: The minimum age has been reduced to 12 years

## VTs 8.5.00

(Available from October 2015)

### New Features

- New test: COMPRO
- New test forms: ATAVT/S3, ATAVT/S4, MIP/S2
- Re-designed tests: DDF, MIP
- New Word report:
  - SAAIR – overall – HR professional (special form)
- Relevant manual updates:
  - HR sector manual (COMPRO description)
  - NEURO sector manual (FRM replaced by AMT)
  - SPORT sector manual (DSIHR replaced by DSI)
- Support for Windows 10
- The VTS backend services (for Testplayer and AdminClient) have been simplified and combined into a single Windows Service (VTS Service)
- Personal comments can be added to scorings and saved
- Redesign of the backstage page for configuring input devices and test versions
- On launching the MLS test the user is asked whether the person taking the test is left- or right-handed
- Customer-specific reports can be installed in the VTS AdminClient
- Optimized design for messages in the VTS AdminClient
- In Direct Testing test results can be exported automatically in CSV format
- Test results can be opened directly in the VTS AdminClient by double-clicking

### Bug Fixes

- Dimension list for sectors updated
- DDF: Scoring profile modified: up-to-date boundary values for the clinically normal area given in the manual are now used
- ATAVT: An inaccuracy in the test scoring which occurred when items at the end of linear forms of the test were not answered has been corrected
- Revision of Polish Drive PL Word reports (4 versions): correction of technical errors, STEN scores added
- PP-R: On certain PCs (specific hardware configuration) an error message may appear when running the test.
- On low-resolution screens, part of the hardware test window is cut off
- In (BATEVA) scorings, umlauts are partially cut off
- In the ANF test the profile is missing from the scoring
- The printout of personal details is badly formatted
- The sorting of test results (by test names) is incorrect
- When displayed on-screen, the individual test result pages become narrower when switching between them
- In the COGBAT Word report the profile appears as an empty diagram
- The Testplayer may hang if the network connection (VTS Server Solution) is interrupted
- The screen calibration results are only saved per Windows user (instead of per PC)

New translations

Tests	New languages
2HAND	sl-SL
2HAND	hi-IN
AMT	pt-BR
ATAVT	pt-BR
ATAVT	sl-SL
BACO	hu-HU
COG	pt-BR
COMPRO	en-US
DAKT	sl-SL
DSI	hu-HU
DT	pt-BR
IVPE	pt-BR
PP-R	arb
PP-R	hr-HR
PP-R	hu-HU
PP-R	sk-SK
PP-R	sr-RS
RT	pt-BR
VIP	pt-BR
WRBTV	pt-BR
ZBA	hi-IN
Reports	New languages
SAROAD-overall-HR professional	fr-FR
SAROAD-ability-HR professional	fr-FR
STAFF-overall-candidate	en-US
STAFF-overall-manager	en-US
STAFF-overall-HR professional	en-US
STAFF-personality-candidate	en-US
STAFF-personality-manager	en-US
STAFF-personality-HR professional	en-US
MANAGEMENT-overall-candidate	en-US
MANAGEMENT-overall-manager	en-US
MANAGEMENT-overall-HR professional	en-US
MANAGEMENT-personality-candidate	en-US
MANAGEMENT-personality-manager	en-US
MANAGEMENT-personality-HR professional	en-US
SAAIR-overall-HR professional	en-US
Word reports	New languages
COGBAT	es-ES
DRIVESC	es-ES
INSSVR	en-US, fr-FR, nl-NL
SLEEP	en-US

Test sets	New languages
DRIVESTA	pt-BR
SAMINE	hi-IN
SLEEP	en-US
Manuals	New languages
AMT	pl-PL
B19	pl-PL
COG	pl-PL, ru-RU
ZBA	pl-PL
RT	pl-PL
2HAND	ru-RU
FGT	ru-RU
INSSV	ru-RU
MTA	ru-RU
NBV	ru-RU
VIGIL	ru-RU
DRIVESC	en-US
SAMINE	ru-RU
SAROAD	en-US
DRIVESC	en-US
SAMINE	ru-RU
NEURO	es-ES
NEURO	fr-FR
Tests/language	Test
arb	PP-R
en-US	COMPRO
hi-IN	2HAND, ZBA
hr-HR	PP-R
hu-HU	BACO, DSI, PP-R
pt-BR	AMT, ATAVT, COG, DT, IVPE, RT, VIP, WRBTV
sk-SK	PP-R
sl-SL	2HAND, ATAVT, DAKT
sr-RS	PP-R
Test sets/language	Test set
en-US	SLEEP
hi-IN	SAMINE
pt-BR	DRIVESTA

Norm Update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>2HAND</b>	S3	80052	New	Conv	Implementation of a new norm sample	Bus drivers – Austria	125	2014	Total
<b>AHA</b>	S1	80054	New	Conv	Implementation of a new norm sample	Applicants (HR sector) – Hungary	922	2010-2015	Total
<b>AMT</b>	all except S4	2001 – 2004	update	Rep	Update of the representative norm sample	Representative norm sample	615	2000-2015	Total, age, education, gender
<b>AMT</b>	all except S4	80053	New	Conv	Implementation of the norms for adolescents from INSBAT to AMT	Adolescents – Austria	1595	2008	Age
<b>AMT</b>	all except S4	80052	New	Conv	Implementation of a new norm sample	Bus drivers – Austria	126	2014	Total
<b>ATAVT</b>	S1 to S6	1000	update	Rep	Update of the norm sample	Representative norm sample	831	2007-2015	Total
<b>ATAVT</b>	S1 to S6	80052	New	Conv	Implementation of a new norm sample	Bus drivers – Austria	126	2014	Total
<b>BFSI</b>	S1	80054	New	Conv	Implementation of a new norm sample	Applicants (HR sector) – Hungary	570	2010-2015	Total
<b>BFSI</b>	S1	80052	New	Conv	Implementation of a new norm sample	Bus drivers – Austria	125	2014	Total
<b>COG</b>	S11	80052	New	Conv	Implementation of a new norm sample	Bus drivers – Austria	126	2014	Total
<b>COMPRO</b>	S1	1000-1003	New	Rep	Implementation of the norm sample of COMPRO/S1	Representative norm sample	326	2015	Total, age, education, gender

Test	Test form	Norm no.	Update/ new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>COMPRO</b>	S2	1000-1003	New	Rep	Implementation of the norm sample of COMPRO/S2	Representative norm sample	302	2015	Total, age, education, gender
<b>CORSI</b>	S1-S4	80055	New	Conv	Implementation of a new norm sample	Adolescents of sports schools – Austria	96	2014	Total
<b>DDF</b>	S1	2001	update	Conv	Übernahme der Normwerte für die Skala "anankastisch" aus S2	Patients with mental disorders	501	1991-2005	Total
<b>DT</b>	S1	80055	New	Conv	Implementation of a new norm sample	Adolescents of sports schools – Austria	95	2014	Total
<b>DT</b>	S1	80052	New	Conv	Implementation of a new norm sample	Bus drivers – Austria	125	2014	Total
<b>EPP6</b>	S1,S2	1100-1103	New	Rep	Update of the norm table 1100 and implementation of the norm tables 1101 and 1103	Representative norm sample	341	2007-2011	Total, age, education, gender
<b>EPP6</b>	S1, S2	1100-1103	Update (1101), New (1101 - 1103)	Rep	Update of norm sample, implementation of segmentation	Representative norm sample	341	2007-2011	Total, age, education, gender
<b>IPS</b>	S1	80054	New	Conv	Implementation of a new norm sample	Applicants (HR sector) – Hungary	1246	2010-2015	Total
<b>IVPE</b>	S1	80052	New	Conv	Implementation of a new norm sample	Bus drivers – Austria	126	2014	Total
<b>LVT</b>	S2	80055	New	Conv	Implementation of a new norm sample	Adolescents of sports schools – Austria	96	2014	Total
<b>MAP</b>	S1	80054	New	Conv	Implementation of a new norm sample	Applicants (HR sector) – Hungary	700	2014-2015	Total

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
PP-R	S1	80052	New	Conv	Implementation of a new norm sample	Bus drivers – Austria	124	2014	Total
RT	S3	80055	New	Conv	Implementation of a new norm sample	Adolescents of sports schools – Austria	96	2014	Total
RT	S3	80052	New	Conv	Implementation of a new norm sample	Bus drivers – Austria	125	2014	Total
SIGNAL	S3	80055	New	Conv	Implementation of a new norm sample	Adolescents of sports schools – Austria	97	2014	Total
VISGED	S1-S3, S11	1001-1004	update	Rep	Update of the norm tables 1001 - 1003, implementation of the norm table 1004	Representative norm sample	744	2000-2014	Total, age, education, gender
WAFG	S2	80052	New	Conv	Implementation of a new norm sample	Bus drivers – Austria	124	2014	Total

## VTS 8.4.11

(Available from July 2015)

### New features

- Actualized norms for test AMT

## VTS 8.4.10

(Available from July 2015)

### New features

- New reports
  - Staff report total HR (de-DE)
  - Staff report total Manager (de-DE)
  - Staff report total Candidate (de-DE)
  - Staff report personality HR (de-DE)
  - Staff report personality Manager (de-DE)
  - Staff report personality Candidate (de-DE)
  - Management report total HR (de-DE)
  - Management report total Manager (de-DE)
  - Management report total Candidate (de-DE)
  - Management report personality HR (de-DE)
  - Management report personality Manager (de-DE)
  - Management report personality Candidate (de-DE)
  - SAROAD report overall HR Professional (de-DE)
  - SAROAD report ability HR Professional (de-DE)
- PP-R: Minor changes in the output of results (e.g. revised order of scoring elements; changed output of reaction times in the test protocol)
- SAROAD: Revision of the test set
- Relevant manual updates:
  - HR sector manual (description of new reports: SAROAD; Staff, Management)
  - SAROAD: Additions to validation study and report description
  - LAMBDA-2: Change of long name
- Relevant report updates:
  - SAROAD (de-DE, en-US): Revision of the test set
  - DRIVE-PL (pl-PL): Four Word reports for different issues incorporated
- WTS Result Uploader
- VTS Integration Service (with GDT plugin/interface)
- Improved performance on installing VTS updates
- Support for Windows 10 (Preview)
- Testplayer and AdminClient frontends allow configuration for communication via a proxy server

### Bug fixes

- 2D, 3D: Correction of errors in the key to the test protocol
- DAKT, AVEM: correction of test presentation in Arabic language
- IPS: long texts in profile in test results are cut off
- MLS: No text shown for extended options for languages sv-SE, sk-SK, es-ES, tr-TR

New translations

Tests	New languages
AVEM	cs-CZ
AVEM	pl-PL
AVEM	ro-RO
AVEM	arb
AVEM	hr-HR
AVEM	sr-RS
AVEM	bs-BA
IBF	bs-BA
IBF	ro-RO
IBF	ru-Ru
COG	bs-BA
CORSI	bs-BA
CORSI	hr-HR
PAUSE	ro-RO
PAUSE	sv-SE
PAUSE	da-DK
PAUSE	no-NO
PAUSE	pt-BR
Reports	New languages
SAROAD Report Overall HR Professional	en-US
SAROAD Report Ability HR Professional	en-US
Basic software	New languages
Adminsoftware	bs-BA
Manuals	New languages
SWITCH	en-US
Tests/language	Test
arb	AVEM
bs-BA	AVEM, IBF, COG, CORSI
cs-CZ	AVEM
da-DK	PAUSE
hr-HR	AVEM, CORSI
no-NO	PAUSE
pl-PL	AVEM
pt-BR	PAUSE
ro-RO	AVEM, IBF, PAUSE
ru-RU	IBF
sr-RS	AVEM
sv-SE	PAUSE

## VTs 8.4.03

(Available from April 2015)

### Bug fixes

- Updating VTS from version 8.4.00 to 8.4.02 can cause troubles

## VTs 8.4.02

(Available from April 2015)

### Bug fixes

- Some norm sample descriptions are misleadingly appended with “selection based on age”
- The norms for test DAKT are not up to date
- The presentation of the item analysis protocol for some tests are sometimes blurred

## VTs 8.4.01

(Available from April 2015)

### Bug fixes

- The Administration client shows an error when a test with an expired license is assigned to a candidate
- In the result window there is shown a “?” for the texts of the report settings for some languages with test AMT and ATAVT
- Installation of the VTS setup can fail on PCs with a language different than German or English
- If the result of a test battery is shown immediately after testing then only the result of the first test is shown

## VTS 8.4.00

(Available from April 2015)

### New features

- New tests: LAMBDA-2
- New test forms: AISTR/S1, AISTR/S2, AISTR/S3, AMT/S5, AMT/S6, ATAVT/S5, ATAVT/S6, DAKT/S2
- Newly implemented test: DAKT/S1
- New browser tests: DAKT, LAMBDA-2, SMART
- New/changed test sets: DRIVEPLS, SFMOTOR, DRIVE-AT, DRIVE-PL
- Relevant manual updates: PP-R and SIMKAP (update and expansion of theoretical background)
- Before reinstalling VTS or updating to version 8.4 the setup checks whether there is a valid license
- „Picture 2 Proof“ – a picture can be taken from the candidate during testing and printed later on together with the test results
- The VTS Testplayer (WTSTestplayer.exe) can be started directly (i.e. now also without the parameter „-a“) and can thus be used also for Direct Testing
- From now on the VTS hardware test (WTSHardwareTest.exe) is part of each Testplayer (Client) installation and can be started independently or also outside of the VTS
- The Norm Table Explorer is now able to more specifically search according to age
- The VTS setup creates an entry in the Windows menu, which allows you to easily invite the SCHUHFRIED help desk to a remote connection
- The language of the Control Monitor can be set during installation
- It is possible to optionally activate "unknown" when choosing the person's gender
- The automatic CSV export writes only in a single (rather than each export in a separate) file
- If a person doesn't specify the "Client ID" with a CSV import, a unique "Client ID" will be created and saved anyhow
- If a CSV-file (with personal data) isn't imported correctly, the error message can be copied to the clipboard by simply clicking on a button
- Word reports can now also present elements like the profile, results table and test protocol
- Update and optimization of user groups and security levels
- Optimization of Neuronal Network
- Norm Table Explorer: optimization of tables display
- Performance optimization with test scoring (above all those with many variables)
- Performance optimization with the generation of scorings

### Bug fixes

- In case of server solutions, printing problems can only be fixed with a restart of the VTS services
- Serial number is missing on the hardware test printout

- Big graphics (e.g. results table) are not fully presented in Word reports
- The test set scoring of missing tests contains headings without content
- The identity check page contains no text in some languages
- With the AMT/S4 test scoring corrected answers are not marked correctly
- The reaction time is missing in the SPSS export for the test INHIB/S13
- The PAUSE/S3 test contains no "Next" button
- The profile is missing in the scoring of the test ALS/S7
- Some more smaller and non-critical bugs have been fixed

New translations

<b>Tests</b>	<b>New languages</b>
B5PS	nl-NL
SIMKAP	tr-TR
SMART	nl-NL
VISGED	nl-NL
WAFA	ru-RU
WAFG	ru-RU
WAFW	ru-RU
<b>Test-Sets</b>	<b>New languages</b>
COGBAT	ru-RU
<b>Reports</b>	<b>New languages</b>
Total - Candidate	nl-NL
Total - Manager	nl-NL
Total - HR	nl-NL
Personality - Candidate	nl-NL
Personality - Manager	nl-NL
Personality - HR	nl-NL
<b>Tests/language</b>	<b>Test</b>
nl-NL	B5PS, SMART, VISGED
ru-RU	WAFA, WAFG, WAFW
tr-TR	SIMKAP
<b>Test sets/language</b>	<b>Test-Set</b>
ru-RU	COGBAT

Norm Update

Test	Test form	Norm No.	Update/ New	Rep/ Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>2HAND</b>	S2	1000-1003	New	Rep	New representative norm sample (replaces the previous one)	Representative norm sample	347	2008-2013	Total, age, education, gender
<b>2HAND</b>	S2	80012-80013	New	Conv	New norm sample	Traffic psychological clients - France	1534	2007-2014	Total, age
<b>AMT</b>	S1,S2, S3,S5, S6	2001-2004	Update/ New	Rep	The Representative norm sample was updated with gender-, age- and education-specific tables	Representative norm sample	457	2006-2014	Total, age, education, gender
<b>B19</b>	S1	80012-80013	New	Conv	New norm sample 80012 and implementation of an age-specific norm table (80013)	Traffic psychological clients - France	1534	2007-2014	Total, age
<b>DT</b>	S1	80045-80046	New	Conv	New norm sample	Professional drivers, mines - Chile	651	2014	Total, age
<b>DT</b>	S1	80012-80013	Update	Conv	Upgrade of norm sample 80012 and implementation of an age-specific norm table (80013)	Traffic psychological clients - France	2159	2007-2014	Total, age
<b>IBF</b>	S2	1000-1003	New	Rep	New representative norm sample	Representative norm sample	301	2012-2014	Total, age, education, gender
<b>IBF</b>	S2	80048-50051	Update	Conv	Because of the sample size, the older	Adolescents and adults	5581	2001-2004	Total, age, education, gender

Test	Test form	Norm No.	Update/ New	Rep/ Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
					representative sample was registered as convenience sample with a new number and name				
<b>INHIB</b>	S13	5000-5003	New	Rep	New Italian representative sample	Representative norm sample - Italy	352	2014	Total, age, education, gender
<b>INHIB</b>	S13	1000-1003	Update	Rep	The poling of the variable SDRZ (standard deviation of reaction time) has been switched	Representative norm sample	419	2012-2013	Total, age, education, gender
<b>LAMBDA-2</b>	S1	100-1003	New	Rep	Representative norm sample for the new test LAMBDA-2	Representative norm sample	321	2015	Total, age, education, gender
<b>MDT</b>	S1-S3	80042	New	Conv	New norm sample	Students - Brazil	89	2014	Total
<b>NBV</b>	S1	5000-5003	New	Rep	New Italian representative sample	Representative norm sample - Italy	352	2014	Total, age, education, gender
<b>NBV</b>	S1	80047	New	Conv	New norm sample	School students - Australia	88	2014	Total
<b>TOL-F</b>	S1-3, S11-S13	5000-5003	New	Rep	New Italian representative sample	Representative norm sample - Italy	352	2014	Total, age, education, gender
<b>TOL-F</b>	S11-S13	1000-1003	Update	Rep	Recalculation of norms for Austrian representative norm sample	Representative norm sample	269	2011	Total, age

Test	Test form	Norm No.	Update/ New	Rep/ Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>TOL-F</b>	S11-S13	80047	New	Conv	New norm sample	School students - Australia	87	2014	Total
<b>WAFA</b>	S2	5000-5003	New	Rep	New Italian representative sample for subtests 1 and 2	Representative norm sample - Italy	352	2014	Total, age, education, gender
<b>WAFG</b>	S1	80047	New	Conv	New norm sample	School students - Australia	88	2014	Total
<b>WAFV</b>	S5	80047	New	Conv	New norm sample	School students - Australia	89	2014	Total
<b>ZBA</b>	S3	80045-80046	New	Conv	New norm sample	Professional drivers, mines - Chile	649	2014	Total, age

## VTs 8.3.21

(Available from February 2015)

### Bug fixes

- Direct Testing: Automatic, via E-Mail sent Word reports don't contain results under special constellations
- Direct Testing: Network problems (between server and client) during test execution can cause a wrong order of presented tests of a test battery

## VTs 8.3.20

(Available from January 2015)

### New features

- New test: PP-R

### Bug fixes

- Problem with displaying the test protocol on results with test INSSV/S2
- The VTS Control Monitor does not show all information during a test (if the HTTP protocol was used for network communication)

## VTS 8.3.10

(Available from December 2014)

### New translations

<b>Tests</b>	<b>New languages</b>
DTKI	tr-TR
PP-R	zh-TW, zh-CN
SMK	tr-TR
VISGED	tr-TR
WAFA	pt-BR
WAFF	pt-BR
WAFR	pt-BR
WAFW	pt-BR
<b>Test-Sets</b>	<b>New languages</b>
DRIVESC	pl-PL, sr-RS
DRIVESTA	pl-PL
PERSROAD	pt-PT
SARAIL	tr-TR
SAROAD	pl-PL
SFMOTOR	tr-TR, pt-PT, ru-RU
SFTEAM	tr-TR, ru-RU
TAKIDS	pl-PL, tr-TR
TATEENS	pl-PL
<b>Manuale</b>	<b>New languages</b>
SMART	en-US
INSSV-R	en-US
PP-R	en-US
<b>Reports</b>	<b>New languages</b>
SARAIL	fr-FR
<b>Tests/language</b>	<b>Test</b>
pt-BR	WAFA, WAFF, WAFR, WAFW
tr-TR	DTKI, SMK, VISGED
zh-CN	PP-R
zh-TW	PP-R
<b>Test sets/language</b>	<b>Test Set</b>
pl-PL	DRIVESC, DRIVESTA, SAROAD, TAKIDS, TATEENS
pt-PT	PERSROAD, SFMOTOR
ru-RU	SFMOTOR, SFTEAM
sr-RS	DRIVESC
tr-TR	SARAIL, SFMOTOR, SFTEAM, TAKIDS

## VTs 8.3.00

(Available from September 2014)

### New features

- New tests: AMT/S4, B5PS/S4, BFSI/S2, DSI/S3, DSI/S4, INSSV-R, SMART
- Reports
- New scoring design
- Norm upload
- Support for SQL Server 2008, 2012 and 2014
- Sector manuals can be opened directly from VTS
- Manuals and norms for tests can be opened directly from the dimension list
- New Norm Table Explorer design
- Improved usability for creating, managing and selecting Word reports
- Additional customer-specific notes can be displayed with scorings
- VTS users can be created without a mandatory password
- When importing person data from a CSV, the user is informed if the data is invalid
- Re-designed VTS Control Monitor with new features
- Paused tests can be resumed from the VTS Control Monitor
- VTS shows detailed product and system information
- Automated database backups can be scheduled
- CSV data export definitions can be exported and imported
- The buttons on the login screen have been swapped
- Improved performance when generating Word-Reports
- Performance optimized in a number of different ways

### Bug fixes

- Exporting large quantities of data (test results, csv, ...) caused an error
- On several Word reports the profile was missing
- It was possible to enter an invalid date of birth in Direct Testing
- Numerous minor and non-critical issues have been fixed

New translations

Tests	New languages
PP-R	en-US, fr-FR, es-ES, it-IT, nl-NL, pt-PT, cs-CZ, pl-PL, ru-RU, tr-TR
TQQPD	en-US, it-IT, nl-NL
SKASUK	ro-RO (scoring only)
SMART	en-US, fr-FR
ZBA	tr-TR
Test sets	New languages
CFSD	en-US, fr-FR, it-IT, nl-NL
Manuals	New languages
CFSD	en-US, nl-NL
Reports	New languages
CFSD	en-US, nl-NL
SMART	en-US
SAAIR	fr-FR
SFMOTOR	en-US
SFTEAM	en-US
TAKIDS	en-US
TATEENS	en-US
Report Sales	en-US
Tests/language	Test
cs-CZ	PP-R
en-US	SMART, PP-R, TQQPD
es-ES	PP-R
fr-FR	SMART, PP-R
it-IT	PP-R, TQQPD
nl-NL	PP-R, TQQPD
pl-PL	PP-R
pt-PT	PP-R
ro-RO	SKASUK (scoring only)
ru-RU	PP-R
tr-TR	PP-R, ZBA
Test sets/language	Test set
en-US	CFSD
fr-FR	CFSD
it-IT	CFSD
nl-NL	CFSD

Norm Update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>2HAND</b>	S1	80035	New	Conv	New convenience sample - Australia	Applicants (general) - Australia	311	2007-2009	Total
<b>2HAND</b>	S1	80038	New	Conv	New convenience sample - Australia	Applicants (technology and commerce) - Australia	623	2008-2009	Total
<b>2HAND</b>	S1	80041	New	Conv	New convenience sample - Australia	Applicants (trainee train drivers) - Australia	872	2008-2009	Total
<b>2HAND</b>	S2	80038	New	Conv	New convenience sample - Australia	Applicants (technology and commerce) - Australia	973	2010-2011	Total
<b>2HAND</b>	S2	80041	New	Conv	New convenience sample - Australia	Applicants (trainee train drivers) - Australia	738	2010-2011	Total
<b>3D</b>	S1-S2	80041	New	Conv	New convenience sample - Australia	Applicants (trainee train drivers) - Australia	657	2010	Total
<b>A3DW</b>	S1-S3	1570-1573	Update	Rep	Update of Norm tables 1570-1571 and new norm tables 1572-1573	Representative norm sample	322	2013-2014	Total, age, education, gender
<b>A3DW</b>	S1-S3	1510-1511	Correction	Conv	Correction of norm description for norm numbers 1510-1511	School students of all grades (8-13) and school types	866	?	Total, gender, education level
<b>AMT</b>	S4	2000 – 2003	New	Rep	Repr. norm samples for new test form S4	Representative norm sample	340	2012	Total, gender, age, education level
<b>ATAVT</b>	S1-S2	5000-5001	New	Rep	New representative norm sample - Italy	Representative norm sample - Italy	343	2014	Total, gender

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
ATAVT	S1	80020	Correction	Conv	Correction of norm description for norm numbers 80020	Applicants (professional drivers) - Netherlands	1572	2007-2013	Total
ATAVT	S1-S2	80035	New	Conv	New convenience sample - Australia	Applicants (general) - Australia	133	2009-2010	Total
ATAVT	S1-S2	80036	New	Conv	New convenience sample - Australia	Applicants (shunter/yardmaster) - Australia	169	2009-2010	Total
ATAVT	S1-S2	80039	New	Conv	New convenience sample - Australia	Applicants (train controller and network operator) - Australia	198	2009-2010	Total
ATAVT	S1-S2	80040	New	Conv	New convenience sample - Australia	Applicants (train staff) - Australia	429	2009-2010	Total
ATAVT	S1-S2	80041	New	Conv	New convenience sample - Australia	Applicants (trainee train drivers) - Australia	1572	2009-2011	Total
B5PS	S4	1000 – 1003	New	Rep	Repr. norm samples for new test form S4	Representative norm sample	401	2013-2014	Total, gender, age, education level
BFSI	S2	1000 – 1003	New	Rep	Repr. norm samples for new test form S2	Representative norm sample	1270	2009-2014	Total, gender, age, education level
COG	S4	80035	New	Conv	New convenience sample - Australia	Applicants (general) - Australia	350	2007-2010	Total
COG	S4	80036	New	Conv	New convenience sample - Australia	Applicants (shunter/yardmaster) - Australia	172	2008-2010	Total
COG	S4	80040	New	Conv	New convenience sample - Australia	Applicants (train staff) - Australia	424	2009-2010	Total
COG	S4	80041	New	Conv	New convenience sample - Australia	Applicants (trainee train drivers) - Australia	1576	2008-2011	Total

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
CVLT	S1	1000-1001	Correction	Conv	Incorporation of norm scores from the manual for the variable IFW. Education-specific norm set as default.	Adults	303	-	Total, education level
CVLT	S2	1000-1001	Correction	Conv	Incorporation of norm scores from the manual for the variable IFW; adjustment of particular norms in the norm tables according to manual (for the variables RDG1, RVFW1, DWALT). Education-specific norm set as default.	Adults	303	-	Total, education level
DAUF	S3	80041	New	Conv	New convenience sample - Australia	Applicants (trainee train drivers) - Australia	658	2009-2010	Total
DT	S1	5000-5002	New	Rep	New representative norm sample - Italy	Representative norm sample - Italy	343	2014	Total, age, gender
DT	S1	80035	New	Conv	New convenience sample - Australia	Applicants (general) - Australia	358	2007-2010	Total
DT	S1	80036	New	Conv	New convenience sample - Australia	Applicants (shunter/yardmaster) - Australia	165	2008-2010	Total
DT	S1	80040	New	Conv	New convenience sample - Australia	Applicants (train staff) - Australia	424	2008-2010	Total
DT	S1	80041	New	Conv	New convenience sample - Australia	Applicants (trainee train drivers) - Australia	1627	2008-2011	Total

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
ELST	S2	80034	New	Conv	New convenience sample - Australia	Applicants (administration and customer service) - Australia	443	2010-2011	Total
ELST	S2	80037	New	Conv	New convenience sample - Australia	Applicants (supervisor) - Australia	196	2010-2011	Total
ELST	S2	80038	New	Conv	New convenience sample - Australia	Applicants (technology and commerce) - Australia	973	2010-2011	Total
ELST	S2	80041	New	Conv	New convenience sample - Australia	Applicants (trainee train drivers) - Australia	108	2010-2011	Total
EPP6	S1	80034	New	Conv	New convenience sample - Australia	Applicants (administration and customer service) - Australia	1049	2008-2011	Total
EPP6	S1	80035	New	Conv	New convenience sample - Australia	Applicants (general) - Australia	414	2008-2010	Total
EPP6	S1	80037	New	Conv	New convenience sample - Australia	Applicants (supervisor) - Australia	207	2009-2011	Total
EPP6	S1	80038	New	Conv	New convenience sample - Australia	Applicants (technology and commerce) - Australia	1645	2008-2011	Total
EPP6	S1	80039	New	Conv	New convenience sample - Australia	Applicants (train controller and network operator) - Australia	451	2008-2010	Total
EPP6	S1	80040	New	Conv	New convenience sample - Australia	Applicants (train staff) - Australia	491	2008-2010	Total
EPP6	S1	80041	New	Conv	New convenience sample - Australia	Applicants (trainee train drivers) - Australia	1830	2008-2011	Total

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
FGT	S1	1000-1003	Correction	Rep	Modification of norming of variable ZR in S1 (reversion of norm polarity)	Representative norm sample	279	2012	Total, age, education, gender
INSBAT	S2-S3	80034	New	Conv	New convenience sample - Australia	Applicants (administration and customer service) - Australia	1015	2008-2011	Total
INSBAT	S2-S3	80035	New	Conv	New convenience sample - Australia	Applicants (general) - Australia	362	2008-2010	Total
INSBAT	S2-S3	80036	New	Conv	New convenience sample - Australia	Applicants (shunter/yardmaster) - Australia	182	2008-2010	Total
INSBAT	S2-S3	80037	New	Conv	New convenience sample - Australia	Applicants (supervisor) - Australia	210	2009-2011	Total
INSBAT	S2-S3	80038	New	Conv	New convenience sample - Australia	Applicants (technology and commerce) - Australia	1600	2008-2011	Total
INSBAT	S2-S3	80039	New	Conv	New convenience sample - Australia	Applicants (train controller and network operator) - Australia	390	2008-2010	Total
INSBAT	S2-S3	80040	New	Conv	New convenience sample - Australia	Applicants (train staff) - Australia	463	2008-2010	Total
INSBAT	S2-S3	80041	New	Conv	New convenience sample - Australia	Applicants (trainee train drivers) - Australia	1613	2008-2011	Total
INSSVR	S1	1000 – 1003	New	Rep	Repr. norm samples for new test form S1	Representative norm sample	904	2008	Total, gender, age, education level
INSSVR	S2	1000 – 1003	New	Rep	Repr. norm samples for new test form S2	Representative norm sample	340	2012	Total, gender, age, education level

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
LVT	S2	80035	New	Conv	New convenience sample - Australia	Applicants (general) - Australia	213	2007-2010	Total
LVT	S2	80039	New	Conv	New convenience sample - Australia	Applicants (train controller and network operator) - Australia	176	2008-2009	Total
LVT	S3	80039	New	Conv	New convenience sample - Australia	Applicants (train controller and network operator) - Australia	198	2010	Total
LVT	S3	80041	New	Conv	New convenience sample - Australia	Applicants (trainee train drivers) - Australia	660	2010	Total
MDT	S1	1000-1003	Update	Rep	Upgrade of norm sample for MDT/S1	Representative norm sample	492	2009-2014	Total, age, education, gender
RT	S3	5000-5002	New	Rep	New representative norm sample - Italy	Representative norm sample - Italy	343	2014	Total, age, gender
RT	S7	1030-1032	New	Rep	New Representative norm sample - Standard (Austria - Test Center)	Representative norm sample	281	2014	Total, age, gender
RT	S3	80035	New	Conv	New convenience sample - Australia	Applicants (general) - Australia	223	2007-2010	Total
RT	S3	80041	New	Conv	New convenience sample - Australia	Applicants (trainee train drivers) - Australia	662	2008-2010	Total
SMART	S1	1000 – 1003	new	Rep	Representative norm sample for SMART S1	Representative norm sample	318	2014	Total, gender, education level, age
SMART	S2	1000 – 1003	new	Rep	Representative norm sample for SMART S2	Representative norm sample	325	2014	Total, gender, education level, age

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>ZBA</b>	S1	80041	New	Conv	New convenience sample - Australia	Applicants (trainee train drivers) - Australia	567	2009-2012	Total
<b>ZBA</b>	S2	80035	New	Conv	New convenience sample - Australia	Applicants (general) - Australia	233	2007-2009	Total
<b>ZBA</b>	S3	80041	New	Conv	New convenience sample - Australia	Applicants (trainee train drivers) - Australia	662	2009-2010	Total

## VTs 8.2.21

(Available from October 2014)

### New translations

Tests	New languages
COG	vi-VN (presentation only)
DT	vi-VN (presentation only)
INSBAT (FID, AK, ASF, VIK, NID)	vi-VN (presentation only)
LVT	vi-VN (presentation only)
RT	vi-VN (presentation only)
SIGNAL	vi-VN (presentation only)
SMK	vi-VN (presentation only)
Tests/language	Test
vi-VN (presentation only)	COG, DT, INSBAT (FID, AK, ASF, VIK, NID), LVT, RT, SIGNAL, SMK

## VTs 8.2.11

(Available from August 2014)

### Bug fixes

- In the AVEM test, form S2 could not be scored

## VTs 8.2.10

(Available from July 2014)

### New features

- New SLEEP test set
- Newly implemented test IPS
- MMPIK test now also available in VTS8
- Test forms ELST S3 and S4 now also available with VTS8
- Several minor performance improvements

### Bug fixes

- In the CORSI test there were sometimes problems with the sound output
- Numerous minor and non-critical issues have been fixed
- The setting "Supervisor must confirm the end of the test sequence" did not work as expected
- The setting "Arabic numerals" did not work as expected
- VTS login did not work if login button was pressed repeatedly or too fast

New translations

Tests	New languages
DAKT	fr-FR, hu-HU
FLEI	cs-CZ
FGT	cs-CZ
GESTA	sr-RS
INHIB	cs-CZ
INSBAT (excl. crystallized intelligence)	sr-RS
MDT	fr-FR, it-IT
MOUSE	cs-CZ
NVB	cs-CZ
TMT-L	cs-CZ, hu-HU
TOL	cs-CZ
TOM	en-US, fr-FR, it-IT, nl-NL
PAD	en-US
PST	sr-RS
SIGNAL	sr-RS
SIMKAP	sr-RS
SMK	sr-RS
VIGIL	sr-RS
VIP	cs-CZ
WAFF	hu-HU
WAFR	hu-HU
Test sets	New language
COGBAT	cs-CZ
PERSROAD	cs-CZ
Reports	New languages
COKEYHR	en-US, fr-FR
PSKEYHR	en-US, fr-FR
SFMOTOR	en-US
SFTEAM	en-US
TAKIDS	en-US
TATEENS	en-US
Tests/language	Test
cs-CZ	FGT, FLEI, INHIB, MOUSE, NBV, TMT-L, TOL, VIP
en-US	PAD, TOM
fr-FR	DAKT, MDT, TOM
it-IT	MDT, TOM
hu-HU	DAKT, TMT-L, WAFF, WAFR
nl-NL	TOM
sr-RS	GESTA, INSBAT (excl. crystallized intelligence), PST, SIGNAL, SIMKAP, SMK, VIGIL
Test sets/language	Test set
cs-CZ	COGBAT, PERSROAD

Norm Update

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
<b>AHA</b>	S1	80033	New	Conv	New norm sample	Adults - Romania	182	2008-2012	None
<b>AMT</b>	S11	80028	New	Conv	New norm sample	Professional drivers - Poland	127	2011-2013	None
<b>AMT</b>	S11	80030-80032	New	Conv	New norm sample	Adults - Romania	209	2008-2009	Gender/Education
<b>ATAVT</b>	S1	80030-80032	New	Conv	New norm sample	Adults - Romania	406	2008-2009	Gender/Education
<b>ATAVT</b>	S2	80030-80032	New	Conv	New norm sample	Adults - Romania	406	2008-2009	Gender/Education
<b>B19</b>	S1	80028	New	Conv	New norm sample	Professional drivers - Poland	329	2011-2013	None
<b>B19</b>	S1	80033	New	Conv	New norm sample	Adults - Romania	491	2008-2012	None
<b>BFSI</b>	S1	80027	New	Conv	New norm sample	Applicants (HR sector) - Romania	724	2013-2014	Gender
<b>COG</b>	S11	80028	New	Conv	New norm sample	Professional drivers - Poland	262	2011-2013	None
<b>COG</b>	S11	80029	New	Conv	New norm sample	Machine operators - Poland	142	2012-2013	None
<b>COG</b>	S11	80030-80032	New	Conv	New norm sample	Adults - Romania	379	2008-2009	Gender/Education
<b>DAKT</b>	S1	80033	New	Conv	New norm sample	Adults - Romania	171	2008-2012	None
<b>DAKT</b>	S1 and S2	1000-1001	Update	Conv	Addition to norm sample	Employees - Sweden	2742	2002-2012	Age
<b>DT</b>	S1	80030-80032	New	Conv	New norm sample	Adults - Romania	440	2008-2009	Gender/Education

Test	Test form	Norm no.	Update/new	Rep/Conv	Type of change	Name	Scope [N]	Data collection period	Segmentation
FFT	S3	1700	New	Rep	New representative norm sample (replaces the previous one)		300	2013-2014	None
INSSV	S2	80027	New	Conv	New norm sample	Applicants (HR sector) - Romania	588	2013-2014	Gender
LVT	S2	80026	New	Conv	New norm sample	Young soccer players	108	2009-2011	None
RT	S7	1000	Update	Rep	Two additional variables were normed, no further changes				
RT	S3	80028	New	Conv	New norm sample	Professional drivers - Poland	320	2011-2013	None
RT	S3	80029	New	Conv	New norm sample	Machine operators - Poland	180	2012-2013	None
RT	S3	80030-80032	New	Conv	New norm sample	Adults - Romania	392	2008-2009	None
SKASUK	S1	80027	New	Conv	New norm sample	Applicants (HR sector) - Romania	222	2013-2014	None
STROOP	S7	80026	New	Conv	New norm sample	Young soccer players	88	2009-2011	None
VISGED	S1	80033	New	Conv	New norm sample	Adults - Romania	168	2009-2012	None
WRBTV	S1	80033	New	Conv	New norm sample	Adults - Romania	184	2008-2012	None
ZBA	S2	80026	New	Conv	New norm sample	Young soccer players	75	2009-2010	None
ZBA	S4	80028	New	Conv	New norm sample	Professional drivers - Poland	330	2011-2013	None
ZBA	S2	80033	New	Conv	New norm sample	Adults - Romania	131	2008-2011	None

## VTs 8.2.01

(Available from May 2014)

### New features

- Improved performance of ranking
- Improved performance with CSV export
- Availability of B5PS for testing in the browser

### Bug fixes

- Updating to version 8.2.00 did not update norms of the AMT test

## VTs 8.2.00

(Available from May 2014)

### New features

- New tests: B5PS, TOM, WSP, PAD
- New test sets: CFSD, COKEYHR, PSKEYHR
- Newly implemented tests: B5PO, HCTA/S2, MMG, EBF, EBFSP0
- New implementation of Norm Table Explorer including new and unified structure and categorization of norms. Norm Table Explorer contains new rich filter and search functionality.
- New help file (currently only in German)
- ControlMonitor now supports wsHttpBinding and netPeerTcpBinding
- AdminClient and Testplayer now support wsHttpBinding, netTcpBinding and netNamedPipeBinding
- Optimization of test caching
- New design of login screen
- New design of splash screen
- Improved performance during startup of VTS
- Improved performance of scoring
- Vienna Test System stores the scoring settings
- Automatic printing of test results (direct testing) does not start until all the person's tests are finished
- Upper and lower confidence interval can be exported in CSV export
- Test results can be merged if tests are presented separately in a test set or test battery
- Test set results can be merged if the test set has been presented in separate parts
- VTS Client setup supports unattended installation
- In VTS Server setup it is possible to select a pre-installed SQL Server
- New option in Direct Testing allows candidates to enter their own personal details
- A refresh button has been added to the "Persons" view
- Default printer for automatic printing (Direct Testing) can be defined in VTS settings
- Info message appears at startup if time licenses expire in less than 6 months or if fewer than 6 test presentations are available
- BATEVAs can now score tests even if they are not presented consecutively
- Numerous minor performance enhancements

### Bug fixes

- Exporting test results caused an exception in PCs with insufficient memory (RAM)
- Automatic generation of results failed if no default language had been set for the candidate
- Automatic generation of results failed if no printer was defined in the configuration file
- Scoring with a BATEVA was not possible after exporting and importing into another VTS installation (10535)
- Scoring with a BATEVA was not possible if the sequence of tests in a test battery had been changed
- The Test Player sometimes presented tests in the wrong order or presented duplicate (sub-) tests

- VTS user interface froze after changes to person data
- Numerous minor and non-critical issues have been fixed

New translations

Tests	New languages
5POINT	en-US, fr-FR, nl-NL
B5PS	en-US, fr-FR
BFSI corrections	it-IT, zh-CN, cs-CZ, es-ES
DAKT	ro-RO
INSSV (PB-WB)	it-IT, pt-PT
IPS	nl-NL
MDT	es-ES
MTA	ro-RO
RISIKO	es-ES
SWITCH	fr-FR, nl-NL
Test sets	New language
CFADHD	en-US, fr-FR, nl-NL
SFMOTOR	es-ES (presentation only)
TAKIDS	sr-LATN (presentation only)
KEYHR, COKEYHR, PSKEYHR	it-IT, pt-PT
SARAIL	it-IT, pt-PT
Manuals	New languages
5POINT	en-US
CFADHD	en-US
B5PS	en-US
Reports	New languages
CFADHD	en-US
DRIVESC	fr-FR
Tests/language	Test
cs-CZ	BFSI corrections
en-US	5POINT, B5PS
es-ES	MDT, RISIKO, BFSI corrections
fr-FR	5POINT, B5PS, SWITCH
it-IT	BFSI corrections, INSSV (PB-WB)
nl-NL	5POINT, IPS, SWITCH
pt-PT	INSSV (PB-WB)
ro-RO	DAKT, MTA
zh-CN	BFSI revision
Test sets/language	Test set
en-US	CFADHD
es-ES	SFMOTOR
fr-FR	CFADHD
it-IT	KEYHR, COKEYHR, PSKEYHR, SARAIL
nl-NL	CFADHD
pt-PT	KEYHR, COKEYHR, PSKEYHR, SARAIL
sr-LATN	TAKIDS

Norm Update

Test	Test form	Update/new	Norm no.	Rep/Conv <sup>1</sup>	Name	Scope [N]	Data collection period	Segmentation	Note
2HAND	S1	Update	1030-1033	Rep	Representative norm sample	631	2007-2013	Gender/Education /Age	
2HAND	S1	New	80011	Conv	Applicants (crane operators) - Africa	603	2006-2011	None	
2HAND	S5	New	80011	Conv	Applicants (crane operators) - Africa	581	2006-2011	None	
2HAND	S1, S5	New	80011	Conv	Applicants (crane operators) - Africa	489-617	2007-2011	None	
ALS	S1	Update	1000-1002	Rep	Representative norm sample	304	2007-2011	Education/Age	
ALS	S2	Update	1000-1002	Rep	Representative norm sample	329	2008-2011	Education/Age	
ALS	S7	Update	1000-1002	Rep	Representative norm sample	329	2007-2011	Education/Age	
AMT		New	80020, 80021	Conv	Applicants (professional drivers) - Netherlands	645-1417	2008-2013	Age	
AMT		New	80012	Conv	Traffic psychological clients - France	617-626	2010-2012	None	
APM	S3	New	1792	Rep	Representative norm sample	321	2009-2012	Education/Age	
APM	S3	New	80011	Conv	Applicants (crane operators) - Africa	595	2007-2011	None	
APM	S3	New	80011	Conv	Applicants (crane operators) - Africa	489-617	2007-2011	None	
ATAVT		New	80020, 80021	Conv	Applicants (professional drivers) - Netherlands	645-1417	2008-2013	Age	
ATAVT		New	80012	Conv	Traffic psychological clients - France	617-626	2010-2012	None	
B19		Update	1000-1003	Rep	Representative norm sample	673	2010-2013	Gender/Education /Age	

<sup>1</sup> Rep ... Representative, Anf ... Convenience

Test	Test form	Update/new	Norm no.	Rep/Conv <sup>1</sup>	Name	Scope [N]	Data collection period	Segmentation	Note
B19		New	80011	Conv	Applicants (crane operators) - Africa	595	2006-2011	None	
B19		New	80011	Conv	Applicants (crane operators) - Africa	489-617	2007-2011	None	
B5PS	S1, S2, S3	New	1000, 1001, 1002, 1003	Rep	Representative norm sample	401	2013-2014	Gender/Education /Age	
COG	S11	New	80020, 80021	Conv	Applicants (professional drivers) - Netherlands	645-1417	2008-2013	Age	
COG	S9	New	80011	Conv	Applicants (crane operators) - Africa	489-617	2007-2011	None	
COG	S11	New	80012	Conv	Traffic psychological clients - France	617-626	2010-2012	None	
COG	S11	New	2100	Conv	Air traffic controllers - Brazil	60-64	2008-2009	None	
CORSI	S5, S6	New	1000, 1001, 1002, 1003	Rep	Representative norm sample	300	2011-2014	Age/Education/Ag e+Education	
CORSI	S1-S4	New	80011	Conv	Applicants (crane operators) - Africa	506	2007-2011	None	
CORSI	S1-S4	New	80011	Conv	Applicants (crane operators) - Africa	489-617	2007-2011	None	
CPM	S1, S3	New	1600	Conv	Children - Germany and France	1218	1998-1999	Age	
DT	S1	New	80020, 80021	Conv	Applicants (professional drivers) - Netherlands	645-1417	2008-2013	Age	
DT	S1	New	80010	Conv	Applicants (professional drivers) - Netherlands	233-238	2012	None	
DT	S1	New	80011	Conv	Truck drivers - India	489-617	2007-2011	None	
DT	S1	New	80012	Conv	Applicants (crane operators) - Africa	617-626	2010-2012	None	
DT	S1	New	2100	Conv	Traffic psychological clients - France	60-64	2008-2009	None	
EPP6	S2	New	2200	Conv	Air traffic controllers - Brazil	332-349	2008-2012	None	

Test	Test form	Update/new	Norm no.	Rep/Conv <sup>1</sup>	Name	Scope [N]	Data collection period	Segmentation	Note
FGT	S11	Update	1000, 1001, 1002, 1003	Rep	Representative norm sample	419	2012-2013	Gender/Education /Age	addition to COGBAT norm data
FLIM		New	1000-1002	Rep	Representative norm sample	314	2013	Education/Age	
INHIB	S13	Update	1000, 1001, 1002, 1003	Rep	Representative norm sample	419	2012-2013	Gender/Education /Age	addition to COGBAT norm data
LVT	S3	New	80010	Conv	Truck drivers - India	233-238	2012	None	
MDT	S2	New	80010	Conv	Truck drivers - India	233-238	2012	None	
MOUSE	S1	Update	1000, 1001, 1002, 1003	Rep	Representative norm sample	419	2012-2013	Gender/Education /Age	addition to COGBAT norm data
NBV	S1	Update	2000, 2001, 2002, 2003	Rep	Representative norm sample COGBAT	419	2012-2013	Gender/Education /Age	addition to COGBAT norm data
PAD	S1	New	1000, 1001, 1002, 1003, 1004	Rep	Representative norm sample	302	2013-2014	Age/Education/Gender/Age+Education	
RT	S3	New	80020, 80021	Conv	Applicants (professional drivers) - Netherlands	645-1417	2008-2013	Age	
RT	S6	New	80011	Conv	Applicants (crane operators) - Africa	489-617	2007-2011	None	
RT	S3	New	80012	Conv	Traffic psychological clients - France	617-626	2010-2012	None	
RT	S6	New	2100	Conv	Air traffic controllers - Brazil	60-64	2008-2009	None	
RT	S1	New	2200	Conv	Tennis players - Brazil	332-349	2008-2012	None	
RT	S5	New	2300	Conv	Young soccer players - Brazil	76	2011	None	
SIMKAP	S1	Update	1030-1032	Rep	Representative norm sample	502	2002-2008	Education/Age	

Test	Test form	Update/new	Norm no.	Rep/Conv <sup>1</sup>	Name	Scope [N]	Data collection period	Segmentation	Note
SIMKAP	S2	Update	1030-1032	Rep	Representative norm sample	402	2007-2010	Education/Age	
TMT-L	S1-S3	Update	1000, 1001, 1002, 1003	Rep	Representative norm sample	419	2012-2013	Gender/Education /Age	addition to COGBAT norm data
TMT-L	S11	New	1000, 1001, 1002, 1003	Rep	Representative norm sample	293	2013-2014	Gender/Education /Age	new touch screen norms
TOL	S1-S3	Update	2000, 2001, 2002, 2003	Rep	Representative norm sample COGBAT	419	2012-2013	Gender/Education /Age	addition to COGBAT norm data
TOM		New	1000, 1001.1002, 1003	Rep	Representative norm sample	312	2013-2014	Gender/Education /Age	
WAFA	S2	Update	2000, 2001, 2002, 2003	Rep	Representative norm sample COGBAT	419	2012-2013	Gender/Education /Age	addition to COGBAT norm data
WAFG	S2	Update	2000, 2001, 2002, 2003	Rep	Representative norm sample COGBAT	419	2012-2013	Gender/Education /Age	addition to COGBAT norm data
WAFR	S1	Update	1000-1001	Rep	Representative norm sample	575	2006-2013	Education	
ZBA	S4	New	80010	Conv	Truck drivers - India	233-238	2012	None	
ZBA	S2	New	80011	Conv	Applicants (crane operators) - Africa	489-617	2007-2011	None	