



VISTEC
Vision Technologies

Specification

Interface Description Vistec App

| | | | |
|-------------------------------------|---|--------------|--------------------|
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| Vistec AG – Vision Technologies | | | |

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1 General Information

The Vistec App commands the following interfaces:

- GDT-interface, with PDF and/or XML-file option
- XML-interface for importing/exporting of examinations
- CSV-interface for importing/exporting test persons
- data bank

1.1 Starting the Vistec App with – selection parameters

When calling up the Vistec App software, an XML or GDT file can be transferred with or without file path information. If no path is indicated for the file which is to be imported, the standard file is searched for this file name.

Standard indices: (freely definable):

- GDT: Vistec App-*Install-file*\gdt
- XML: Vistec App-*Install-file*\Examinations

GDT Example:

With path indication:

- " Vistec App.exe C:\GDT\EDVOPT.gdt"

Without path indication:

- " Vistec App.exe EDVOPT.gdt"

XML Example:

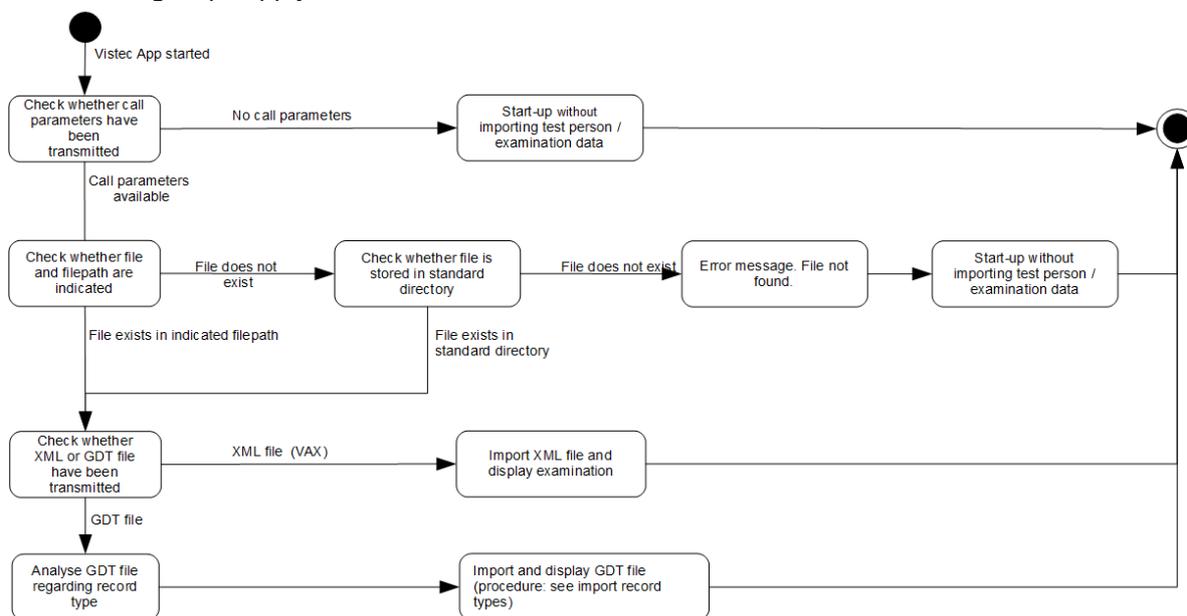
With path indication:

- " Vistec App.exe C:\Exam\Testexam.vax"

Without path indication:

- " Vistec App.exe Testexam.vax"

The following steps apply:



2 GDT Interface

2.1 Data Exchange

Data exchange is based on the GDT interface of the „Quality Medical Software“ (QMS).

2.1.1 Application Possibilities

Please note that the Vistec App “always” saves all results redundantly in its own data bank, regardless of which of the following options are used.

Recording of Computing Results:

- Directly reading examination results out of the GDT file and displaying them in a separate mask.
- Importing examination results as a PDF file and displaying as needed.
- Importing examination results as an XML file and returning this XML file back to the Vistec App as needed; the Vistec App downloads all result exclusively from this XML file.
 - Options for returning the XML file
 - The XML file can be transferred within the GDT file, see Chapter 2.2.2
 - The XML file can be transferred via parameter selection, see Chapter 1.1. The XML file can be started with the Vistec App via double click directly in Windows. To do this, the XML ending (.vax) must be linked to Windows with the Vistec App programme.
- Importing examination results as a GDT file, i.e. store the complete GDT file similarly to a PDF or XML file, and re-loading this GDT file to the Vistec App when needed. The Vistec App re-loads all results exclusively from this GDT file.
 - The GDT file can be transferred via parameter call up, see Chapter 1.1
 - The GDT file can be started directly in Windows with the Vistec App with a double click. To do this, the GDT ending (.gdt) must be linked to Windows with the Vistec App programme.
- Examination results are not imported, only the test person and date as well as the time of the examination as an option. If desired, a GDT file can be returned to the Vistec App with test person, date, and, optionally, also the time of the examination. Based on this data, the Vistec App automatically reloads the examination from its data bank.

2.1.2 File Naming Convention

Transfer of patient data from/to the data processing is carried out via 2 files, whose naming conventions can be freely assigned in the Vistec App under Settings / GDT-transfer. The standard values can be found in Chapters 2.3.1 and 2.4.1.1.

- <receiver abbreviation><sender abbreviation> . GDT
- or
- <receiver abbreviation><sender abbreviation>. <upwards counting number> (e.g. *.005)

2.1.3 File Ending

The standard ending for the generated GDT files is „.gdt“. Should a file with the same name already exist in the GDT file, it will be deleted and replaced by the new file. In order to successively file several examinations in the GDT file, the Vistec App can be configured so that the file name extension for “*transferring examination data*” (*.001 to *.999) is automatically generated.

2.1.4 Index Structure

GDT files are stored in freely definable transfer indices. The standard index can be found in Chapters 2.3.1 and 2.4.1.1. The transfer path for Import and Export can be changed separately in Settings / GDT-Transfer. It also supports UNC addresses.

2.1.5 Computer – MG (Requirements File)

Commented Example (with blanks for better readability):

| | | |
|----------|----------------------------------|--------------------------------------|
| 013 8000 | 6302 | Record type: request new examination |
| 014 8100 | 00159 | Record length |
| 014 9218 | 02.10 | GDT version |
| 015 8402 | OPTO00 | Equipment and process-specific grid |
| 009 3000 | 1234 | Patient No. / ID |
| 019 3101 | Maier | Surname |
| 015 3102 | Monika | Given name |
| 017 3103 | 01061997 | Birthdate TTMMJJJJ |
| 022 3106 | 82140 Olching | Town |
| 024 3107 | Max Otto Str. 7 | Street |
| 010 3110 | 2 | Gender (1 = male, 2 = female) |
| 013 8410 | <i>Examination name</i> | Test name |
| 012 8411 | <i>optional examination name</i> | <i>optional test name</i> |

The test name indicates the examination which is to be carried out.

2.1.6 Result – Export

The Vistec App can be configured so that PDF documents and/or an XML file containing examination results can be exported in addition to the GDT examination results.

2.1.7 Data Transfer - Procedure

The import file is generated by data processing prior to starting the Vistec App programme (record type “request new examination”). It contains test person data (at least surname and given name) and the examination which is to be carried out.

When starting the Vistec App, this test person data is read into the Vistec App from the GDT file and integrated into the Vistec App data bank. The GDT file is deleted by the Vistec App after importing it. The export file is generated immediately by the Vistec App when storing the examination (record type “transfer examination data”). It contains the test person, the examination date and time. If pre-set in the Vistec App, a PDF and/or XML file is generated in addition containing the examination results.

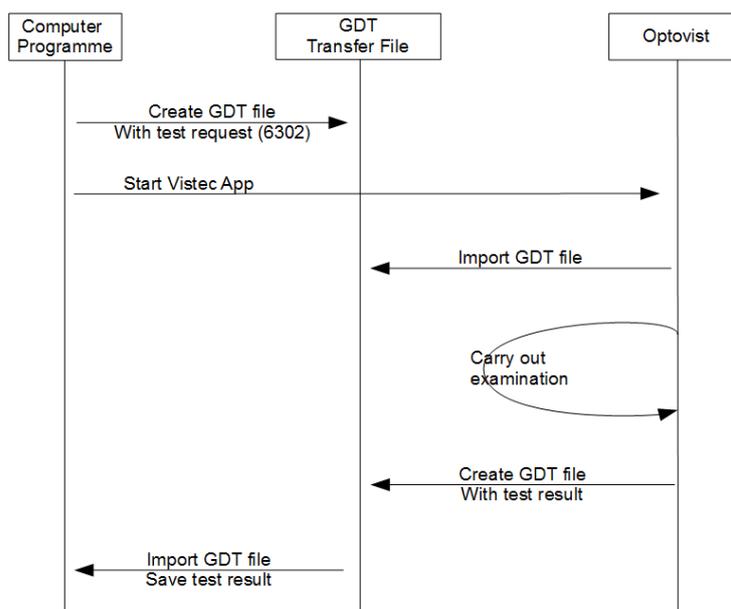


Figure 1: GDT – Data Transfer Process

2.1.7.1 Display of Examination

An already completed examination can be re-sent to the Vistec App, re-loaded there and displayed. The import file is generated by the computer programme (record type "display examination data") prior to starting the Vistec App Programme. It contains test person data, date and time of the examination.

Only Test Person Data

- If only the test person but no time of the examination is to be uploaded, the Vistec App opens a selection window with all examinations of the test person in question.

Test Person Data and Date

- If the test person and date are to be uploaded, but not the time, the Vistec App opens a selection window with all examinations of the test person on the selected date.

2.2 GDT Record Type Specification

2.2.1 Supporting Record Types

- Request master file data "6300" - (not supported by Vistec App)
- Transmit master file data "6301" - Import
- Request new examination "6302" - Import
- Transmit examination data "6310" - Export and Import (needs XML file)
- Display examination data "6311" - Import

2.2.2 Import of Computer Information

The following record types with their application information can be uploaded. The sequence of information in the GDT file doesn't matter.

Required Data:

- GDT version
- Device code
- Test person surname and given name

6301 – Transmission of Master File Data

- 9218 - GDT Version
- 8402 - Device code field
- 0132 - Databank Password (optional)
- 3000 - Patient No. / ID
- 3101 - Surname
- 3102 - Given name
- 3103 - Birthdate
- 3106 - Location
- 3111 - Birthplace
- 3107 - Street
- 3110 - Gender

6302 - Request New Examination

- 9218 - GDT Version
- 8402 - Device code field
- 0132 - Databank Password (optional)
- 3000 - Patient No. / ID
- 3101 - Surname
- 3102 - Given name
- 3103 - Birthdate
- 3106 - Location
- 3111 - Birthplace
- 3107 - Street
- 3110 - Gender
- 8990 - Examiner
- 8410 - Examination Type
- 8411 - optional: Examination Type

- 6310 - Transmitting Examination Data
- 9218 - GDT Version
 - 8402 - Device Code Field
 - 0132 - Databank Password (optional)
 - 8411 - additional ID
 - 3000 - Patient No. / ID
 - 6303 - File Format
 - 6305 - File Reference
 - optional: Examination Results

- 6311 - Display Examination
- 9218 - GDT Version
 - 8402 - Device code field
 - 0132 - Databank Password (optional)
 - 3000 - Patient No. / ID
 - 3101 - Surname
 - 3102 - Given name
 - 3103 - Birthdate
 - 3106 - Location
 - 3111 - Birthplace
 - 3107 - Street
 - 3110 - Gender
 - 8990 - Examiner
 - 6200 - Examination Date
 - 6201 - Examination Time
 - 8432 - optional: Examination Date
 - 8439 - optional: Examination Time

2.2.3 Export to Data Processing

- 6310 - Transmit Examination Data
- 9218 - GDT Version
 - 9206 - Font (ISO 8859-1)
 - 8402 - Device Code Field
 - 8411 - additional ID
 - 3000 - Patient No. / ID
 - 3101 - Surname
 - 3102 - Given name
 - 3103 - Birthdate
 - 3106 - Location
 - 3107 - Street
 - 3110 - Gender
 - 8990 - Examiner
 - 8470 - Remark
 - 6200 - Examination Date
 - 6201 - Examination Time
 - 8432 - Examination Date
 - 8439 - Examination Time
 - 8410 - Test ID
 - 8420 - Value (result)
 - 8438 - Data flow (details)

- 6310 – options (for PDF or/and XML)
- 6303 00000x - FileArchiveID
 - 6303 - File format ("VAX" or "PDF")
 - 6304 - Data contents ("designation")
 - 6305 - Data reference (file path)
 - optional: Examination results see Chapter **Fehler!**
Verweisquelle konnte nicht gefunden werden.

2.2.4 Attachment - PDF/XML

The Vistec App can transmit the examination as a PDF and/or as XML file to the computer programme, if desired.

Example:

```
0156302000001
0126303VAX
0276304Examinationdata
0766305file:///C:/Program Files/Vistec/Vistec App/gdt/EDVOPT_examination.vax
0156302000002
0126303PDF
0376304Examinationsummary
0726305file:///C:/Program Files/Vistec/Vistec App/gdt/EDVOPT_summary.pdf
```

2.3 One Interface for All Products

The Vistec App can tie in all Vistec products via GDT and via an interface. Thereby, result data is transmitted only in attachment form. The GDT field 8402 (device code field) is thereby read dynamically according to device type or can be adjusted as a fixed value, for example ALLG00.

2.3.1 Interface Characteristics for Collective Interfaces

One interface for all products.

| | |
|--|---|
| GDT Version | 2.10 |
| Device Code | Device-specific or fix <i>ALLG00</i> (adjustable) |
| Naming convention from data processing to MG | VIDPVS (adjustable) |
| Naming convention from MG to data processing | PVSVID (adjustable) |
| File ending | .gdt (optionally .001 - .999) |
| Additional export | PDF, XML file |
| Standard GDT Transfer Index | "C:\Program Files (x86)\Vistec\Vistec App\GDT" |

Table 1: One GDT – Interface for all Devices

2.4 Product – Optovist

2.4.1 Optovist I & II

2.4.1.1 Interface Characteristics for Eye Test Device

For Eye Test Devices Optovist I and Optovist II

| | |
|--|---|
| GDT Version | 2.10 |
| Device Code | Opto00 (Opto00 – Opto09) / (changed name) |
| Naming convention from data processing to MG | OPTEDV (adjustable) |
| Naming convention from MG to data processing | EDVOPT (adjustable) |
| File ending | .gdt (optionally .001 - .999) |
| Additional export | PDF, XML file |
| Standard GDT Transfer Index | "C:\Program Files (x86)\Vistec\Vistec App\GDT\Optovist" |

Table 2: Optovist GDT – Interface Characteristics

2.4.1.2 Result Export MG - EDV

Examination Results

An examination consists of individual test steps (visual acuity, colour test ...). With each test step (e.g. visual acuity) several eyes can be tested. The individual test steps are filed in GDT as one test block for each eye successively. Each test detail is stored separately with an individual test ID. The first two letters of the test ID characterize the test type, then one letter for the eye, the last two characterize the tested value. Example:

CVRDS: CV = colour test; R = right; DS = distance

Structure of a Test Block

| | | | |
|----------|-------|---|---|
| 014 8410 | VFRDS | - test type, eye, distance | (example: vision far range, right eye, distance) |
| 010 8420 | 6 | - distance value in metres | (example: 6m) |
| 014 8410 | VFRGL | - test type, eye, visual correction | (example: vision far range, right eye, visual correction) |
| 013 8420 | 0 | - see Chapter 2.4.1.3 <i>Visual Corr.</i> | (example: no visual correction) |
| 014 8410 | VFRVA | - test type, eye, result value | (example: vision far range, right eye, vision) |
| 011 8420 | 0.80 | - tested vision | (example: vision 0.80) |
| 010 8438 | 1 | - index of test step | (example: 1 = first test within the examination) |
| 014 8410 | VFRRS | - test type, eye, result | (example: vision far range, right eye, result) |
| 011 8420 | 1 | - see Chapter 2.4.1.3 <i>Result</i> | (example: identified) |
| 010 8438 | 0 | - see Chapter 2.4.1.3 <i>Data Flow</i> | (example: no data provided) |

Test Types

| | |
|--|---|
| VN = Visual acuity at Distance Near | SE = Long Stereoscopic Test 1 documentation (without device, with tables) |
| VM = Visual acuity at Distance Intermediate | SZ = Long Stereoscopic Test 2 documentations (without device, with tables) |
| VF = Vision at Distance Far | SO = TNO Stereoscopic Test documentation (without device, with tables) |
| VA = Vision at all Distance ranges | RT = Recovery Test (rest after glare) |
| CV = Colour Test (Device) | AT = Astigmatism Test |
| CL = Colour Test manual with Velhagen Tables | DC = Duochrome Test |
| CH = Colour Test manual with Ishihara Tables | |
| PR = Visual Field / Perimetrics | |
| ST = Stereo Test | |

| | |
|--|--|
| <p>PH = Phoria Test HY = Hyperopia CT = Contrast (with "LT = 0") / glare (with "LT = 1") AK = Accommodation Test AM = Amsler Test manual NT = Night Vision Test TW = Twilight Vision Test with and without glare</p> | <p>FT = Fusion Test DO = DOG Test PL = Phoria Horizontal Letter Test PT = Phoria Horizontal Notes Test PV = Phoria Vertical Notes Test PN = Phoria Vertical Numbers Test TM = Titmus Stereoscopic Test Documentation PD = Perimetric Documentation MA = Colour Test Matsubara (manual with tables) ME = Colour Test Waggoner „made easy“ (manual with tables)</p> |
|--|--|

Eye Mode

R = right eye
 L = left eye
 B = both / binocular

Zusätzliche Angaben

DS = distance
 CT = contrast value
 LT = lighting (glare)
 GL = Glasses (visual aids)
 VA = value, data flow contains details of individual test type
 RS = test status, data flow contains details

Manual tests (e.g. colour or Amsler test) are only included as extensions of the eye test. They can also be retrieved from and stored directly in the administration software, if contained in the masks.

Test ID (8410), result value (8420) and data flow (8438) form a composite data group and are repeated in different tests.

For each test type, only the necessary information items are transmitted: e.g. contrast and glare may be omitted for the normal eye test, the result value would be filled in only for the visual and stereoscopic test.

2.4.1.3 Detail Meanings

Distance (*DS)

Field 8420
 unit: meter
 scope:
 0,25 – 20 Meter
 "U" = endless

Corrective Lenses (*GL) :

Optovist II – Interface

Corrective lenses are transmitted in plain text
 Field 8420
 „long distance lenses“ - plain text – name of corrective lenses

Optovist I - Interface

Corrective lenses are usually transmitted in plain text. In order to ensure compatibility to the older Optovist I interface, the software can be set up to transmit only index numbers for fixed, pre-defined corrective lenses.

Field 8420
 „long distance lenses“ - plain text – name of corrective lenses

Optovist I interface:

- 0 = without (*no corrective lenses*)
- 1 = reading lenses
- 2 = bifocal lenses
- 3 = trifocal lenses
- 4 = varifocal lenses
- 5 = VDU (visual display unit) lenses
- 6 = contact lenses
- 7 = long distance lenses
- 8 = children's lenses
- 9 = contact lenses and reading lenses
- 10 = contact lenses and VDU
- 11 = Lasik
- 12 = IOL
- 13 = varifocal contact lenses
- 14 = CL + reading lenses

Tested Visual (*VA)

Field 8420

- 0.00 = no visual used
- 1 = no visual tested
- 0.05 – 2.0 = tested visual

Result (*RS):

Field 8420

- 1 = incomplete / not executed
- 0 = not identified / not conform / conspicuous
- 1 = recognised / conform
- 2 = questionable / partly executed

Field 8438

Details: test type specific, see Chapter **Fehler! Verweisquelle konnte nicht gefunden werden**. Structure of Test Types

Contrast Value (*CT):

Field 8420

- contrast value of picture in percent 0-100%
- In the Twilight Vision Test, contrast is indicated in relation to the ambient luminosity, not in percent, e.g.: 1 : 2,7

Glare (*LT):

Field 8420

- 0 = glare light source off
- 1 = glare light source on

2.4.1.4 Structure of Test Types

Visual Acuity – Visual Test

| | | | |
|-----|------|-------|---|
| 014 | 8410 | VNLDS | visual close-up range left eye distance |
| 010 | 8420 | 6 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | VNLGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | VNLVA | tested visual acuity |
| 011 | 8420 | 0.7 | visual, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 1 | index of test step within the examination |

| | | | |
|-----|------|-------|--|
| 014 | 8410 | VNLRS | result |
| 011 | 8420 | -1 | 1 = recognised, 0 = not recognised -1 = incomplete |
| 010 | 8438 | 0 | details are not used, always "0" |

Stereoscopic Test

| | | | |
|-----|------|-----------------|--|
| 014 | 8410 | STBDS | stereoscopic binocular distance |
| 013 | 8420 | 0.67 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | STBGL | corrective lenses |
| 019 | 8420 | reading glasses | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | STBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 4 | index of test step within the examination |
| 014 | 8410 | STBRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 011 | 8438 | 96 | value: -1 = no value recognised value: between 0 – 800 recognised angle seconds |

Test executed but no results:

8420 - 0 not conform

8438 - -1 no result

Colour Test (Device)

| | | | |
|-----|------|-----------------|---|
| 014 | 8410 | CVBDS | colour test binocular distance |
| 013 | 8420 | 0.67 | Distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | CVBGL | corrective lenses |
| 019 | 8420 | reading glasses | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | CVBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 5 | index of test step within the examination |
| 014 | 8410 | CVBRS | result |
| 011 | 8420 | -1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 010 | 8438 | 0 | details are not used, always "0" |

Hyperopia

| | | | |
|-----|------|-------------------------------|---|
| 014 | 8410 | HYRDS | hyperopia right eye distance |
| 010 | 8420 | U | Distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | HYRGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | HYRVA | visual acuity |
| 013 | 8420 | <i>suspicion of hyperopia</i> | - result text |
| 010 | 8438 | 1 | index of test step within the examination |
| 014 | 8410 | HYRRS | result |
| 010 | 8420 | 0 | 1 = conform, 0 = not conform, -1 = incomplete /not evaluated |
| 020 | 8438 | 1,0,1 | sequence: 0.5dpt, 1dpt, 1.5dpt value: -1 = no measurement / incomplete value: 0 = worse value: 1 = better / same example: 1,0,1 0.5dpt = better / same |

1dpt = worse
1.5dpt = better / same

Contrast Test without Glare

| | | | |
|-----|------|-------|---|
| 014 | 8410 | CTRDS | contrast right eye distance |
| 010 | 8420 | U | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | CTRGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | CTRVA | used visual acuity |
| 013 | 8420 | 0.16 | visual, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 2 | index of test step within the examination |
| 014 | 8410 | CTRRS | result |
| 010 | 8420 | 0 | 1 = recognised, 0 = not recognised -1 = incomplete |
| 010 | 8438 | 0 | details are not used, always "0" |
| 014 | 8410 | CTRCT | contrast in percent |
| 013 | 8420 | 80.0 | contrast value (example: 80%), see Chapter 2.4.1.3 detail meaning (*CT) |
| 014 | 8410 | CTRLT | glare |
| 010 | 8420 | 0 | glare source always = 0, see Chapter 2.4.1.3 detail meaning (*LT) |

Contrast Test with Glare (Glare Test)

| | | | |
|-----|-------|-------|---|
| 014 | 8410 | CTRDS | contrast right eye distance |
| 010 | 8420 | U | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | CTRGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | CTRVA | used visual acuity |
| 013 | 8420 | 0.16 | visual, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 6 | index of test step within the examination |
| 014 | 8410 | CTRRS | result |
| 010 | 8420 | 0 | 1 = recognised, 0 = not recognised -1 = incomplete |
| 010 | 8438 | 0 | details are not used, always "0" |
| 014 | 8410 | CTRCT | contrast in percent |
| 013 | 84208 | 0.0 | contrast value (example: 80%), see Chapter 2.4.1.3 detail meaning (*CT) |
| 014 | 8410 | CTRLT | glare |
| 010 | 8420 | 1 | glare source always = 1, see Chapter 2.4.1.3 detail meaning (*LT) |

Twilight Vision Test

| | | | |
|-----|------|--------|---|
| 014 | 8410 | TWRDS | twilight vision test right eye distance |
| 010 | 8420 | U | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | TWRGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | TWRVA | used visual acuity |
| 013 | 8420 | 0.10 | visual, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 2 | index of test step within the examination |
| 014 | 8410 | TWRRS | result |
| 010 | 8420 | 0 | 1 = recognised, 0 = not recognised -1 = incomplete |
| 010 | 8438 | 0 | details are not used, always "0" |
| 014 | 8410 | TWRCT | contrast value |
| 013 | 8420 | 1:2.70 | contrast value, see Chapter 2.4.1.3 detail meaning (*CT) |

014 8410 TWRLT glare
010 8420 0 glare source always = 0, see Chapter 2.4.1.3 detail meaning (*LT)

Twilight Vision Test with Glare

014 8410 TWRDS twilight vision test right eye distance
010 8420 U distance, see Chapter 2.4.1.3 detail meaning (*DS)
014 8410 TWRGL corrective lenses
013 8420 none corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL)
014 8410 TWRVA used visual acuity
013 8420 0.10 visual, see Chapter 2.4.1.3 detail meaning (*VA)
010 8438 2 index of test step within the examination
014 8410 TWRRS result
010 8420 0 1 = recognised, 0 = not recognised -1 = incomplete
010 8438 0 details are not used, always "0"
014 8410 TWRCT contrast value
013 8420 1 : 2.70 contrast value, see Chapter 2.4.1.3 detail meaning (*CT)
014 8410 TWRLT glare
010 8420 1 glare source always = 1, see Chapter 2.4.1.3 detail meaning (*LT)

Night Vision Test - Scotopic Vision Acuity – Visual Test

014 8410 NTBDS scotopic vision acuity binocular distance
010 8420 6 distance, see Chapter 2.4.1.3 detail meaning (*DS)
014 8410 NTBGL corrective lenses
013 8420 none corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL)
014 8410 NTBVA tested visual acuity
011 8420 0.7 visual, see Chapter 2.4.1.3 detail meaning (*VA)
010 8438 1 index of test step within the examination
014 8410 NTBRS result
011 8420 -1 1 = recognised, 0 = not recognised -1 = incomplete
010 8438 0 details are not used, always "0"

Phoria Test

014 8410 PHBDS phoria binocular distance
013 8420 0.67 distance, see Chapter 2.4.1.3 detail meaning (*DS)
014 8410 PHBGL corrective lenses
013 8420 none corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL)
014 8410 PHBVA visual acuity
013 8420 0.00 not used, see Chapter 2.4.1.3 detail meaning (*VA)
010 8438 3 index of test step within the examination
014 8410 PHBRS result
011 8420 -1 1 = conform, 0 = not confirm, -1 = incomplete
011 8438 0,0,1,0,1 sequence: orthophoria, hypophoria, hyperphoria, esophoria, exophoria
value: 0 = not recognised, 1 = recognised
example: 0,0,1,0,1 = hyperphoria and exophoria recognised
meaning: conform = orthophoria
not conform = hyperphoria, hypophoria, esophoria, exophoria
incomplete = test not executed

Example – test executed but no results:

8420 - 0 – not conform
8438 - 0,0,0,0,0 none recognised

Accommodation Test

| | | | |
|-----|------|-----------------|---|
| 014 | 8410 | AKRDS | accommodation right eye distance |
| 012 | 8420 | 0.8 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | AKRGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | AKRVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 8 | index of test step within the examination |
| 014 | 8410 | AKRRS | result |
| 010 | 8420 | 0 | details are not used, always "0" |
| 027 | 8438 | 0.7,1.5,0.4,2.5 | |

sequence: max. accommodation, clear distance, actual accommodation, clear distance

value: -1 = no measurement taken

value: 0 – 20 dioptre or meter value, according to position

units:

max. accommodation = 0 - 20 dioptre (dpt)

clear distance = 0 - 20 meter (m)

used accommodation = 0 - 20 dioptre (dpt)

clear distance = 0 - 20 meter (m)

example: 0.7,1.5,0.4,2.5

max. accommodation = 0.7 dpt

clear distance = 1.5 m

actual accommodation = 0.4 dpt

clear distance = 2.5 m

Note:

If the accommodation test has been executed, all values are always visible; if the test has not been carried out, all values (-1,-1,-1,-1) are always missing. It cannot happen that values are only partially shown in the accommodation test.

Perimetric Test – Orientational Visual Field Test

| | | | |
|-----|------|-------|---|
| 014 | 8410 | PRBDS | perimetry binocular distance |
| 010 | 8420 | 6 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | PRBGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | PRBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 1 | index of test step within the examination |
| 014 | 8410 | PRBRS | result |
| 010 | 8420 | 0 | 1 = conform, 0 = not conform, -1 = incomplete |
| 010 | 8438 | 0 | details are not used, always "0" |

Amsler Test (without device, with table)

| | | | |
|-----|------|-------|--|
| 014 | 8410 | AMRDS | Amsler right eye distance |
| 012 | 8420 | 0.4 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |

| | | | |
|-----|------|-------|--|
| 014 | 8410 | AMRGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | AMRVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 7 | index of test step within the examination |
| 014 | 8410 | AMRRS | result |
| 011 | 8420 | -1 | 1 = conform, 0 = suspicion of retina damage, -1 = incomplete |
| 023 | 8438 | 1,0,1 | sequence: question-1, question-2, question-3 value: 0 = no, 1 = yes question-1: white dot in the centre of the square recognised? question-2: grid square completely visible? question-3: all lines within grid square parallel? |

Ishihara Test (without device, with tables)

| | | | |
|-----|------|-------|---|
| 014 | 8410 | CHRDS | Ishihara right eye distance |
| 012 | 8420 | 0.4 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | CHRGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | CHRVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 1 | index of test step within the examination |
| 014 | 8410 | CHRRS | result |
| 011 | 8420 | -1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 023 | 8438 | 0 | details are not used, always "0" |

Velhagen Test (without device, with tables)

| | | | |
|-----|------|-------|---|
| 014 | 8410 | CLRDS | Velhagen right eye distance |
| 012 | 8420 | 0.4 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | CLRGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | CLRVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 1 | index of test step within the examination |
| 014 | 8410 | CLRRS | result |
| 011 | 8420 | -1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 023 | 8438 | 0 | details are not used, always "0" |

Lang Stereoscopic Test 1 (without device, with tables)

| | | | |
|-----|------|-------|---|
| 014 | 8410 | SEBDS | Lang stereoscopic test 1 binocular distance |
| 012 | 8420 | 0.4 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | SEBGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | SEBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 1 | index of test step within the examination |
| 014 | 8410 | SEBRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 023 | 8438 | 1,0,1 | recognised angular seconds: Pos-1, Pos-2, Pos-3 |

values: 0 = not recognised, 1 = recognised, -1 = not executed

Pos-1: 550"

Pos-2: 600"

Pos-3: 1200"

Lang Stereoscopic Test 2 (without device, with tables)

| | | | |
|-----|------|-------|---|
| 014 | 8410 | SZBDS | Lang stereoscopic test 2 binocular distance |
| 012 | 8420 | 0.4 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | SZBGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | SZBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 1 | index of test step within the examination |
| 014 | 8410 | SZBRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 023 | 8438 | 1,0,1 | recognised angular seconds: Pos-1, Pos-2, Pos-3 values: 0 = not recognised, 1 = recognised, -1 = not executed Pos-1: 200" Pos-2: 400" Pos-3: 600" |

TNO Stereoscopic Test (without device, with tables)

| | | | |
|-----|------|--------------|--|
| 014 | 8410 | SOBDS | TNO stereoscopic test binocular distance |
| 012 | 8420 | 0.4 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | SOBGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | SOBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 1 | index of test step within the examination |
| 014 | 8410 | SOBRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 023 | 8438 | 0,0,0,0,1,30 | recognised results Pos-1, 2, 3, 4 values: 0 = not recognised, 1 = recognised, -1 = not executed Pos-1: Table 1 – all butterflies recognised Pos-2: Table 2 – largest circle recognised Pos-3: Table 3 – all 4 symbols recognised Pos-4: Table 4 – all 3 circles recognised Pos-5: belongs to Table 4 of Pos-4 If Pos-4 = 1, then Pos-5 not used and Pos-5 = -1 If Pos-4 = 0, then Pos-5 is answer to question: <i>larger circle on right?</i> right = 1 or left = 0 Pos-6: recognised angular seconds (30, 60, 120, 240, 480) values: 0 - 480 |

Titmus Stereoscope Test (without device, with tables)

| | | | |
|-----|------|-------|---|
| 014 | 8410 | TMBDS | Titmus stereoscopic test binocular distance |
|-----|------|-------|---|

| | | | |
|-----|------|-----------------------------|--|
| 012 | 8420 | 0.4 | distance, see Chapter 2.4.1.3 detail meaning (<i>*DS</i>) |
| 014 | 8410 | TMBGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (<i>*GL</i>) |
| 014 | 8410 | TMBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (<i>*VA</i>) |
| 010 | 8438 | 1 | index of test step within the examination |
| 014 | 8410 | TMBRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 023 | 8438 | 200,0,1,0,0,1,0,0,0,0,0,0,0 | recognised results (Pos-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13) Pos-1 (final result – recognised angular seconds) values: 0 – 800 Pos-2,3,4 (cat, rabbit, monkey) values: 0 = not recognised, 1 = recognised, -1 = not executed Pos-2: 400" Pos-3: 200" Pos-4: 100" Pos-5,6,7,8,9,10,11,12,13 (circles) values: 0 = not recognised, 1 = recognised, -1 = not executed Pos-5: 800" Pos-6: 400" Pos-7: 200" Pos-8: 140" Pos-9: 110" Pos-10: 80" Pos-11: 60" Pos-12: 50" Pos-13: 40" |

Recovery Test

| | | | |
|-----|------|-------------|--|
| 014 | 8410 | RTBDS | Recovery binocular distance |
| 013 | 8420 | 0.67 | distance, see Chapter 2.4.1.3 detail meaning (<i>*DS</i>) |
| 014 | 8410 | RTBGL | corrective lenses |
| 019 | 8420 | eye glasses | corrective lenses, see Chapter 2.4.1.3 detail meaning (<i>*GL</i>) |
| 014 | 8410 | RTBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (<i>*VA</i>) |
| 010 | 8438 | 4 | index of test step within the examination |
| 014 | 8410 | RTBRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 011 | 8438 | 15 | value: -1 = no value recognised value: between 0 – 8000 time in seconds |

Astigmatism Test

| | | | |
|-----|------|-------------|--|
| 014 | 8410 | ATBDS | astigmatism test binocular distance |
| 013 | 8420 | 0.67 | distance, see Chapter 2.4.1.3 detail meaning (<i>*DS</i>) |
| 014 | 8410 | ATBGL | corrective lenses |
| 019 | 8420 | eye glasses | corrective lenses, see Chapter 2.4.1.3 detail meaning (<i>*GL</i>) |
| 014 | 8410 | ATBVA | visual acuity |

| | | | |
|-----|------|-------|---|
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 4 | index of test step within the examination |
| 014 | 8410 | ATBRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 011 | 8438 | 6 | value: -1 = no position indicated value: between 1 – 7 = position of fat line 1-3 – right side, 4 - middle, 5-7 – left side |

Duochrome Test

| | | | |
|-----|------|-----------------|--|
| 014 | 8410 | DCBDS | duochrome test binocular distance |
| 013 | 8420 | 0.67 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | DCBGL | corrective lenses |
| 019 | 8420 | eye glasses | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | DCBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 4 | index of test step within the examination |
| 014 | 8410 | DCBRS | result |
| 011 | 8420 | 0 | 1 = conform, 0 = not conform, -1 = incomplete |
| 020 | 8438 | relative myopia | results text: - „relative myopia“ - „relative hyperopia“ |

Fusion Test

| | | | |
|-----|------|-------------|---|
| 014 | 8410 | FTBDS | fusion test binocular distance |
| 013 | 8420 | 0.67 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | FTBGL | corrective lenses |
| 019 | 8420 | eye glasses | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | FTBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 4 | index of test step within the examination |
| 014 | 8410 | FTBRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 011 | 8438 | 0 | not used |

DOG Test

| | | | |
|-----|------|-------------|---|
| 014 | 8410 | DOBDS | DOG test binocular distance |
| 013 | 8420 | 0.67 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | DOBGL | corrective lenses |
| 019 | 8420 | eye glasses | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | DOBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 4 | index of test step within the examination |
| 014 | 8410 | DOBRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 011 | 8438 | 0 | not used |

Phoria Horizontal Letter Test

| | | | |
|-----|------|-------------|---|
| 014 | 8410 | PLBDS | phoria horizontal letter test binocular distance |
| 013 | 8420 | 0.67 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | PLBGL | corrective lenses |
| 019 | 8420 | eye glasses | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | PLBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 4 | index of test step within the examination |
| 014 | 8410 | PLBRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 011 | 8438 | 0 | not used |

Phoria Vertical Numbers Test

| | | | |
|-----|------|-------------|---|
| 014 | 8410 | PNBDS | phoria vertical numbers test binocular distance |
| 013 | 8420 | 0.67 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | PNBGL | corrective lenses |
| 019 | 8420 | eye glasses | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | PNBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 4 | index of test step within the examination |
| 014 | 8410 | PNBRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 011 | 8438 | 0 | not used |

2.4.1.5 Commented Example (with blanks for better readability):

| | | | |
|----------|--------|--|-------------------|
| 013 8000 | 6310 | record type: transmit data of an examination | |
| 014 8100 | 01729 | record length | |
| 014 9218 | 01.00 | version GDT | |
| 010 9206 | 3 | symbol set 3 = ISO8859-1(ANSI) CP 1252 | |
| 015 8402 | OPTO00 | device code field | |
| 014 3000 | 12345 | patient number | |
| | | | |
| 014 8410 | VFRDS | distant visual acuity right | distance |
| 014 8420 | 6 | | 6.00m |
| 014 8410 | VFRGL | | corrective lenses |
| 013 8420 | none | | |
| 014 8410 | VFRVA | | visual acuity |
| 013 8420 | 0.50 | | |
| 010 8417 | 1 | | |
| 014 8410 | VFRRS | | result |
| 010 8420 | 0 | | |
| 018 8417 | 0 | | details |
| | | | |
| 014 8410 | VFLDS | distant visual acuity left | distance |
| 014 8420 | 99.00 | | |
| 014 8410 | VFLGL | | corrective lenses |
| 013 8420 | none | | |
| 014 8410 | VFLVA | | visual acuity |
| 013 8420 | 0.63 | | |
| 010 8417 | 1 | | |
| 014 8410 | VFLRS | | result |
| 010 8420 | 0 | | |
| 019 8417 | 0 | | details |
| | | | |
| 014 8410 | VFBDS | distant visual acuity binocular | distance |
| 014 8420 | 99.00 | | |
| 014 8410 | VFBGL | | corrective lenses |
| 013 8420 | none | | |

| | | | |
|----------|---------|---|-------------------|
| 014 8410 | VFBVA | | visual acuity |
| 013 8420 | 0.80 | | |
| 010 8417 | 1 | | |
| 014 8410 | VFBRS | | result |
| 010 8420 | 1 | | |
| 019 8417 | 0 | | details |
| 014 8410 | VMRDS | visual acuity intermediate distance right | distance |
| 013 8420 | 0.55 | | |
| 014 8410 | VMRGL | | corrective lenses |
| 013 8420 | none | | |
| 014 8410 | VMRVA | | visual acuity |
| 013 8420 | 1.00 | | |
| 010 8417 | 2 | | |
| 014 8410 | VMRRS | | result |
| 010 8420 | 1 | | |
| 018 8417 | 0 | | details |
| 014 8410 | VMLDS | visual acuity intermediate distance left | distance |
| 013 8420 | 0.55 | | |
| 014 8410 | VMLGL | | corrective lenses |
| 013 8420 | none | | |
| 014 8410 | VMLVA | | visual acuity |
| 013 8420 | 1.25 | | |
| 010 8417 | 2 | | |
| 014 8410 | VMLRS | | result |
| 010 8420 | 1 | | |
| 019 8417 | 0 | | details |
| 014 8410 | VMBDS | visual acuity interm. dist. binocular | distance |
| 013 8420 | 0.55 | | |
| 014 8410 | VMBGL | | corrective lenses |
| 013 8420 | none | | |
| 014 8410 | VMBVA | | visual acuity |
| 013 8420 | 0.50 | | |
| 010 8417 | 2 | | |
| 014 8410 | VMBRS | | result |
| 010 8420 | 0 | | |
| 019 8417 | 0 | | details |
| 014 8410 | PHBDS | phoria binocular | distance |
| 013 8420 | 0.55 | | |
| 014 8410 | PHBGL | | corrective lenses |
| 013 8420 | none | | |
| 014 8410 | PHBVA | | visual acuity |
| 013 8420 | 0.00 | | |
| 010 8417 | 3 | | |
| 014 8410 | PHBRS | | result |
| 010 8420 | 1 | | |
| 010 8417 | 1,0,0,0 | | Details |
| 014 8410 | STBDS | stereoscopic binocular | distance |
| 013 8420 | 0.55 | | |
| 014 8410 | STBGL | | corrective lenses |
| 013 8420 | none | | |
| 014 8410 | STBVA | | visual acuity |
| 013 8420 | 0.00 | | |
| 010 8417 | 4 | | |
| 014 8410 | STBRS | | result |
| 010 8420 | 1 | | |
| 020 8417 | 40 | | details |
| 014 8410 | CVBDS | colour test binocular | distance |
| 013 8420 | 0.55 | | |
| 014 8410 | CVBGL | | corrective lenses |
| 013 8420 | none | | |
| 014 8410 | CVBVA | | visual acuity |
| 013 8420 | 0.00 | | |
| 018 8417 | 5 | | |
| 014 8410 | CVBRS | | result |
| 010 8420 | 1 | | |
| 016 8417 | 0 | | details |
| 014 8410 | VNRDS | visual acuity near distance right | distance |

| | | | |
|----------|------------|---------------------------------------|-------------------|
| 013 8420 | 0.33 | | |
| 014 8410 | VNRGL | | corrective lenses |
| 013 8420 | none | | |
| 014 8410 | VNRVA | | visual acuity |
| 013 8420 | 0.63 | | |
| 010 8417 | 6 | | |
| 014 8410 | VNRRS | | result |
| 010 8420 | 0 | | |
| 018 8417 | 0 | | details |
| | | | |
| 014 8410 | VNLDS | visual acuity near distance left | distance |
| 013 8420 | 0.33 | | |
| 014 8410 | VNLGL | | corrective lenses |
| 013 8420 | none | | |
| 014 8410 | VNLVA | | visual acuity |
| 013 8420 | 0.80 | | |
| 010 8417 | 6 | | |
| 014 8410 | VNLRS | | result |
| 010 8420 | 1 | | |
| 019 8417 | 0 | | details |
| | | | |
| 014 8410 | VNBDS | visual acuity near distance binocular | distance |
| 013 8420 | 0.33 | | |
| 014 8410 | VNBGL | | corrective lenses |
| 013 8420 | none | | |
| 014 8410 | VNBVA | | visual acuity |
| 013 8420 | 1.00 | | |
| 010 8417 | 6 | | |
| 014 8410 | VNBRS | | result |
| 010 8420 | 1 | | |
| 019 8417 | 0,0,0,28,0 | | details |

2.4.2 Optovist II – Expanded GDT Interface

The Optovist II interface shows corrective lenses in plain text, see Chapter 2.4.1.3 detail meaning (*GL).
The Optovist II interface shows addition values in GDT, see following chapters.

2.4.2.1 Further Test Types

Perimetric Documentation

| | | |
|----------|-------------|---|
| 014 8410 | PDRDS | perimetric right eye distance |
| 013 8420 | 0.67 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 8410 | PDRGL | corrective lenses |
| 019 8420 | eye glasses | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 8410 | PDRVA | visual acuity |
| 013 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 8438 | 5 | index of test step within the examination |
| 014 8410 | PDRRS | result |
| 011 8420 | -1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 010 8438 | 0 | details are not used, always "0" |

Differentiated Colour Test (Device) for Determination of Red-Green Impairment

| | | |
|----------|-------------|---|
| 014 8410 | CDBDS | differentiated colour test binocular distance |
| 013 8420 | 0.67 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 8410 | CDBGL | corrective lenses |
| 019 8420 | eye glasses | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 8410 | CDBVA | visual acuity |

| | | | |
|-----|------|--------------------------|--|
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 5 | index of test step within the examination |
| 014 | 8410 | CDBRS | result |
| 011 | 8420 | 0 | 1 = conform, 0 = not conform, -1 = incomplete |
| 010 | 8438 | suspicion red deficiency | result in plain text |

Phoria Horizontal Notes Test

| | | | |
|-----|------|-------------|---|
| 014 | 8410 | PTBDS | phoria horizontal notes test binocular distance |
| 013 | 8420 | 0.67 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | PTBGL | corrective lenses |
| 019 | 8420 | eye glasses | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | PTBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 4 | index of test step within the examination |
| 014 | 8410 | PTBRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 011 | 8438 | 0 | not used |

Phoria Vertical Notes Test

| | | | |
|-----|------|-------------|---|
| 014 | 8410 | PVBDS | phoria vertical notes test binocular distance |
| 013 | 8420 | 0.67 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | PVBGL | corrective lenses |
| 019 | 8420 | eye glasses | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | PVBVA | vision value |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 4 | index of test step within the examination |
| 014 | 8410 | PVBRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 011 | 8438 | 0 | not used |

Colour Test Matsubara (without device, with tables)

| | | | |
|-----|------|-------|---|
| 014 | 8410 | MABDS | Matsubara test binocular distance |
| 012 | 8420 | 0.4 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | MABGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | MABVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 1 | index of test step within the examination |
| 014 | 8410 | MABRS | result |
| 011 | 8420 | -1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 023 | 8438 | 0 | details are not used, always "0" |

Colour Test Waggoner „made easy“ (without device, with tables)

| | | | |
|-----|------|-------|---|
| 014 | 8410 | MEBDS | Waggoner test binocular distance |
| 012 | 8420 | 0.4 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | MEBGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |

| | | | |
|-----|------|-------|--|
| 014 | 8410 | MEBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 1 | index of test step within the examination |
| 014 | 8410 | MEBRS | result |
| 011 | 8420 | -1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 023 | 8438 | 0 | details are not used, always "0" |

Hyperopia Children's Eye Test

| | | | |
|-----|------|----------|---|
| 014 | 8410 | HYRDS | hyperopia right eye distance |
| 010 | 8420 | U | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | HYRGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | HYRVA | visual acuity |
| 013 | 8420 | 0.7 | visual acuity, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 1 | index of test step within the examination |
| 014 | 8410 | HYRRS | result visual acuity |
| 010 | 8420 | 0 | 1 = conform, 0 = not conform, -1 = incomplete |
| 020 | 8438 | -1,-1,-1 | not used |

2.4.2.2 Dioptries (dpt) – Result Values

Additional dioptries can be prepended in the individual eye test for the patient, leading to an additional result "with Dpt" which is recorded and exported.

The following test types may contain diopetre results:

- visual acuity
- phoria
- twilight & twilight with glare
- contrast & contrast with glare
- scotopic visual acuity

Structure – Detail Meanings

Dioptries (*DP)

| | | |
|------------|--------|-----------------|
| Field 8420 | unit: | Dioptries (dpt) |
| | scope: | 4.5 to -3.5 dpt |

Tested Visual Acuity (*DPVA)

| | | |
|------------|------------|-----------------------------|
| Field 8420 | 0.00 | = no visual acuity employed |
| | -1 | = no visual acuity tested |
| | 0.05 – 2.0 | = tested visual acuity |

Contrast Value (*DPCT):

- | | |
|------------|--|
| Field 8420 | <ul style="list-style-type: none"> • Contrast value in percent 0-100% or in proportion to surrounding luminosity, e.g.: 1 : 2,7 |
|------------|--|

Result (*DPRS):

| | |
|------------|--|
| Field 8420 | -1 = incomplete / not executed |
| | 0 = not recognised / not conform / conspicuous |

1 = recognised / conform
2 = questionable / partially completed
Field 8438

Details: test type specific, see Chapter Fehler! Verweisquelle konnte nicht gefunden werden. Structure Test Types

2.4.2.3 Structure Test Types with Dioptres - Result

Visual Acuity Test

| | | | |
|-----|------|---------|---|
| 014 | 8410 | VNLDS | visual close-up left eye distance |
| 010 | 8420 | 6 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | VNLGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | VNLVA | tested visual acuity |
| 011 | 8420 | 0.7 | visual, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 1 | index of test step within the examination |
| 014 | 8410 | VNLRS | result |
| 011 | 8420 | -1 | 1 = recognised, 0 = not recognised, -1 = incomplete |
| 010 | 8438 | 0 | details are not used, always "0" |
| 014 | 8410 | VNLDP | prepended dioptres |
| 013 | 8420 | -1.5 | dioptr value (dpt) |
| 016 | 8410 | VNLDPVA | tested visual acuity |
| 013 | 8420 | 1.00 | vision, see Chapter 2.4.1.3 detail meaning (*VA) |
| 016 | 8410 | VNLDPRS | result |
| 010 | 8420 | 1 | 1 = recognised, 0 = not recognised, -1 = incomplete |
| 010 | 8438 | 0 | details are not used, always "0" |

Phoria Test

| | | | |
|-----|------|-----------|--|
| 014 | 8410 | PHBDS | phoria binocular distance |
| 013 | 8420 | 0.67 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | PHBGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | PHBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 3 | index of test step within the examination |
| 014 | 8410 | PHBRS | result |
| 011 | 8420 | -1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 011 | 8438 | 0,0,1,0,1 | sequence: orthophoric, hypophoria, hyperphoria, esophoria, exophoria |
| 014 | 8410 | PHBDP | prepended dioptres |
| 013 | 8420 | -0.5 | dioptr value (dpt) |
| 016 | 8410 | PHBDPVA | visual acuity |
| 010 | 8420 | 0 | not used, always "0" |
| 016 | 8410 | PHBDPRS | result |
| 010 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 010 | 8438 | 0 | details are not used, always "0" |

Twilight Vision Test

| | | | |
|-----|------|-------|---|
| 014 | 8410 | TWRDS | twilight vision test right eye distance |
|-----|------|-------|---|

| | | | |
|-----|------|---------|---|
| 010 | 8420 | U | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | TWRGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | TWRVA | employed visual acuity |
| 013 | 8420 | 0.10 | vision, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 2 | index of test step within the examination |
| 014 | 8410 | TWRRS | result |
| 010 | 8420 | 0 | 1 = recognised, 0 = not recognised, -1 = incomplete |
| 010 | 8438 | 0 | details are not used, always "0" |
| 014 | 8410 | TWRCT | contrast value |
| 013 | 8420 | 1:2,70 | contrast value, see Chapter 2.4.1.3 detail meaning (*CT) |
| 014 | 8410 | TWRLT | glare |
| 010 | 8420 | 0 | glare source always = 0, see Chapter 2.4.1.3 detail meaning (*LT) |
| 014 | 8410 | TWRDP | prepended dioptres |
| 013 | 8420 | +0.5 | dioptr value (dpt) |
| 016 | 8410 | TWRDPCT | tested contrast |
| 012 | 8420 | 1:2 | contrast value, see Chapter 2.4.1.3 detail meaning (*CT) |
| 016 | 8410 | TWRDPRS | result |
| 010 | 8420 | 1 | 1 = recognised, 0 = not recognised, -1 = incomplete |
| 010 | 8438 | 0 | details are not used, always "0" |

Contrast Test with and without Glare

| | | | |
|-----|------|---------|---|
| 014 | 8410 | CTRDS | contrast right eye distance |
| 010 | 8420 | U | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | CTRGL | corrective lenses |
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | CTRVA | employed visual acuity |
| 013 | 8420 | 0.16 | vision, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 2 | index of test step within the examination |
| 014 | 8410 | CTRRS | result |
| 010 | 8420 | 0 | 1 = recognised, 0 = not recognised, -1 = incomplete |
| 010 | 8438 | 0 | details are not used, always "0" |
| 014 | 8410 | CTRCT | contrast in percent |
| 013 | 8420 | 80.0 | contrast value (example: 80%), see Chapter 2.4.1.3 detail meaning (*CT) |
| 014 | 8410 | CTRLT | glare |
| 010 | 8420 | 0 | glare source always = 0, see Chapter 2.4.1.3 detail meaning (*LT) |
| 014 | 8410 | CTRDP | prepended dioptres |
| 011 | 8420 | +1 | dioptr value (dpt) |
| 016 | 8410 | CTRDPC | tested contrast |
| 013 | 8420 | 10.0 | contrast value, see Chapter 2.4.1.3 detail meaning (*CT) |
| 016 | 8410 | CTRDPRS | result |
| 010 | 8420 | 1 | 1 = recognised, 0 = not recognised, -1 = incomplete |
| 010 | 8438 | 0 | details are not used, always "0" |

Scotopic Visual Acuity Test

| | | | |
|-----|------|-------|--|
| 014 | 8410 | NTBDS | scotopic visual acuity binocular distance |
| 010 | 8420 | 6 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | NTBGL | corrective lenses |

| | | | |
|-----|------|---------|---|
| 013 | 8420 | none | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | NTBVA | tested visual acuity |
| 011 | 8420 | 0.7 | vision, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 1 | index of test step within the examination |
| 014 | 8410 | NTBRS | result |
| 011 | 8420 | -1 | 1 = recognised, 0 = not recognised, -1 = incomplete |
| 010 | 8438 | 0 | details are not used, always "0" |
| 014 | 8410 | NTBDP | prepended dioptrres |
| 013 | 8420 | -1.5 | dioptrres value (dpt) |
| 016 | 8410 | NTBDPVA | tested visual acuity |
| 013 | 8420 | 1.00 | vision, see Chapter 2.4.1.3 detail meaning (*VA) |
| 016 | 8410 | NTBDPRS | result |
| 010 | 8420 | 1 | 1 = recognised, 0 = not recognised, -1 = incomplete |
| 010 | 8438 | 0 | details are not used, always "0" |

Astigmatism Test

| | | | |
|-----|------|-------------|---|
| 014 | 8410 | ATBDS | astigmatism test binocular distance |
| 013 | 8420 | 0.67 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | ATBGL | corrective lenses |
| 019 | 8420 | eye glasses | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | ATBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 4 | index of test step within the examination |
| 014 | 8410 | ATBRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 011 | 8438 | 6 | value: -1 = no position indicated value: between 1 – 7 = position of fat line 1-3 – right side, 4 - middle, 5-7 – left side |
| 014 | 8410 | ATBDP | prepended dioptrres |
| 013 | 8420 | -1.5 | dioptrre value (dpt) |
| 014 | 8410 | ATBDPVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 014 | 8410 | ATBDPRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 011 | 8438 | 6 | value: -1 = no position indicated value: between 1 – 7 = position of fat line 1-3 – right side, 4 - middle, 5-7 – left side |

Duochrome Test

| | | | |
|-----|------|-------------|---|
| 014 | 8410 | DCBDS | duochrome test binocular distance |
| 013 | 8420 | 0.67 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | DCBGL | corrective lenses |
| 019 | 8420 | eye glasses | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | DCBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 4 | index of test step within the examination |
| 014 | 8410 | DCBRS | result |
| 011 | 8420 | 0 | 1 = conform, 0 = not conform, -1 = incomplete |

| | | | |
|-----|------|-----------------|---|
| 020 | 8438 | relative myopia | result text: „relative myopia“, relative hyperopia“ |
| 014 | 8410 | DCBDP | prepended dioptries |
| 013 | 8420 | -0.5 | dioptry value (dpt) |
| 014 | 8410 | DCBDPVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 014 | 8410 | DCBDPRS | result |
| 011 | 8420 | 0 | 1 = conform, 0 = not conform, -1 = incomplete |
| 020 | 8438 | relative myopia | result text: - „relative myopia“ - „relative hyperopia“ |

DOG Test

| | | | |
|-----|------|-------------|---|
| 014 | 8410 | DOBDS | DOG test binocular distance |
| 013 | 8420 | 0.67 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | DOBGL | corrective lenses |
| 019 | 8420 | eye glasses | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | DOBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 4 | index of test step within the examination |
| 014 | 8410 | DOBRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 011 | 8438 | 0 | not used |
| 014 | 8410 | DOBDP | prepended dioptries |
| 013 | 8420 | -0.5 | dioptry value (dpt) |
| 014 | 8410 | DOBDPVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 014 | 8410 | DOBDPRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 011 | 8438 | 0 | not used |

Fusion Test

| | | | |
|-----|------|-------------|---|
| 014 | 8410 | FTBDS | fusion test binocular distance |
| 013 | 8420 | 0.67 | distance, see Chapter 2.4.1.3 detail meaning (*DS) |
| 014 | 8410 | FTBGL | corrective lenses |
| 019 | 8420 | eye glasses | corrective lenses, see Chapter 2.4.1.3 detail meaning (*GL) |
| 014 | 8410 | FTBVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 010 | 8438 | 4 | index of test step within the examination |
| 014 | 8410 | FTBRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 011 | 8438 | 0 | not used |
| 014 | 8410 | FTBDP | prepended dioptries |
| 013 | 8420 | -0.5 | dioptry value (dpt) |
| 014 | 8410 | FTBDPVA | visual acuity |
| 013 | 8420 | 0.00 | not used, see Chapter 2.4.1.3 detail meaning (*VA) |
| 014 | 8410 | FTBDPRS | result |
| 011 | 8420 | 1 | 1 = conform, 0 = not conform, -1 = incomplete |
| 011 | 8438 | 0 | not used |

3 XML Interface

The Vistec App enables a complete examination to be exported as an XML file. These XML files have the ending ".vax". If this file ending is registered in Windows in the Vistec App programme, the XML file can be started and loaded directly in the Vistec App with a double click.

With the help of the XML file, it is possible to re-load the complete examination in the Vistec App without a data bank, thereby automatically importing the examination (if not already present). This option would be helpful in the following scenario, for example:

Initial situation:

- Vistec App data bank is not distributed over the network.
 - PC-A has a local Vistec App installation and PVS (practice management software) network connection.
 - PC-B has a local Vistec App installation and PVS network connection.
1. An examination is carried out in PC-A and transmitted to the PVS.
 2. The examination in PC-A is to be re-displayed on PC-B with the help of the PVS.
 - PC-B – Vistec App data bank empty
 - The computing programme transmits the previously stored XML file from PC-A during the GDT transfer; Vistec App can upload and display the examination from the XML file.

4 Data Bank

The data bank consists of a file and is normally located in the programme file. In addition, it is possible to configure the Vistec App so that the data bank can be externally stored in another file. In the process, UNC addresses are also supported.

Data bank characteristics:

- name of data bank: "db_vistec.vadb"
- type of data bank: SQLite Version 3.15.0

5 CSV Interface

With the help of the CSV interface, it is possible to export test persons from the data bank into a CSV file, as well as to import test persons from a CSV file into the Vistec App data bank.

5.1.1 Exporting Test Persons

When exporting test persons, all selected test persons in a file with the ending .csv are exported. In this process, test person data is transmitted line by line. The individual parameters are separated by semi-colons.

The file structure is as follows:

- given name
- surname
- birth date
- YYYY-MM-DD
- gender
- personnel ID number
- postal code
- town
- street
- house number
- state / province
- country
- company
- department
- GDT-ID

5.1.2 Importing Test Persons

When importing test person data, all test persons in a file with the ending .csv are imported. As in exporting, test person data is transmitted line by line. The individual parameters must be separated by semi-colons. The parameter sequence must be analogous to the export sequence in order to correctly import test person data.

Parameter sequence

- given name
- surname
- birth date
- YYYY-MM-DD
- gender
- personnel ID number
- postal code
- town
- street
- house number
- state / province
- country
- company
- department
- GDT-ID

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