

Keys:

- [KERNEL] - kernel of Valentina, affects all products.
- [SQL] - SQL parser and executer, affects all products.
- [VSDK] - Valentina C++ SDK,
- [VCOM] - Valentina COM/ActiveX
- [V4RB] - Valentina for REALbasic.
- [V4MD] - Valentina for Macromedia Director.
- [V4WS] - Valentina for WebSiphon.
- [VXCMD] - Valentina XCMD.
- [GUI] - User Interface of Valentina application.
- [AS] - AppleScript dictionary of Valentina application.

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Latest documentation for beta products can be found at (if a link doesn't work, then a file doesn't exist now):

- http://www.paradigmasoft.com/docs/ValentinaKernel_beta.pdf
- http://www.paradigmasoft.com/docs/ValentinaSQL_beta.pdf
- http://www.paradigmasoft.com/docs/V4RBReference_beta.pdf
- http://www.paradigmasoft.com/docs/V4MDReference_beta.pdf
- http://www.paradigmasoft.com/docs/V4WSReference_beta.pdf

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Version 1.10b20 // Dec 6, 2003

- [CLIENT][NEW] Now all client products can work with many databases located on VServer inside of one logical connection. To support this added VDatabase constructors that accept object of Vserver class.
- [KERNEL][BUG] UNIQUE index with EMPTY STRING do not accept NULL values any more.
- [KERNEL][BUG] XML import crash, as result of wrong max text length for Date field.
- [KERNEL][BUG] Corruption of db file if table have VarChar field. Can Happens if do a lots of updates/deelted with no flush.
- [SQL][BUG] UPDATE for kernel made with GCC not works with boolean fields.
- [SQL][BUG] DELETE WHERE did have leak.
- [CLIENT][BUG] Update of TEXT field by shorter value now works.

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Version 1.10b12 // Nov 14, 2003

- [KERNEL][BUG] Medium fields provide not correct calculations in BaseObject methods.
- [KERNEL][BUG] In case we use Date/Time function in BaseObject method on AddRecord get -39 error.

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Version 1.10b11 // Nov 12, 2003

- [KERNEL][BUG] Record locks did work not correctly for OUTER JOIN.

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Version 1.10b10 // Nov 6, 2003

- [V4RB][BUG] Crash on OS X Panther fixed.
- [VAPP][BUG] Crash on OS X Panther fixed.

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Version 1.10b9 // Oct 23, 2003

- [VNET][BUG] Crash if many times open/close db. Issue was in c++ DLL call.
- [VNET][BUG] Problem with SQL and binded parameters fixed.

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Version 1.9.8 // July 31, 2003

[IMPORTANT!!!] The main point of this release -- added support to record locks.
On API this is reflected by adding of 3 parameters to SqlSelect() which create cursor.
You **MUST** update your current searches in all places where you create cursor that modify its records.
For read only cursors all can be as it was.

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Version 1.9.8b20 // July 26, 2003

- [KERNEL][BUG] wrong results for subselects.
- [KERNEL][BUG] wrong result for case IN(SUBSELECT) AND IN(SUBSELECT), if one operand give empty result.
- [KERNEL][BUG] Not correct indexing of ObjetcPtr field after such operation as UpdateAll(), LoadDump().
- [KERNEL][BUG][Win] DIAGNOSE now produce file in the folder of db files.

- [SQL][BUG][WIN] CRASH on RDB link that uses a BaseObject method.

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Version 1.9.8b9

// July 2, 2003

- [KERNEL][NEW] **Implemented Record Locks:** READ, WRITE, NOLOCK.
- [VSDK][NEW] **EscapeString()**
- [V4RB][NEW] ValentinaEscapeString()
- [V4MD][NEW] ValentinaEscapeString()
- [VCOM][NEW] ValentinaEscapeString()

- [V4RB][Chg] Now SqlSelect() have 3 new parameters
- [V4MD][Chg] **CursorLocation** (kClient = 1, kServer = 2)
- [VSDK][Chg] **LockType** (kNoLock = 1, kReadOnly = 2, kReadWrite = 3)
- CursorDirection** (kForwardOnly = 1, kRandom = 2)

- [SQL][BUG] UPDATE, INSERT, DELETE commands now work with [name with space]
- [SQL][BUG] Aggregate functions from RecID field now works.
- [SQL][BUG] GROUP BY from BaseObject method now works.

- [V4MD][BUG] Fixed crash on MacOS if call new Xtra before ValentiaInit()
- [VAPP][BUG] Replace All Records With ("cmd + =" command)
- have change WRONG field of table, in case if you create real fields
- and BaseObject methods in the mixed order.

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Version 1.9.8b5-b8

// June 5, 2003

- [SQL][NEW] BETWEEN operator
- [SQL][NEW] IN operator
- [SQL][NEW] WHERE f IN (SELECT ...) -- first kind of subquery that now support Valentina! :-)

- [KERNEL][BUG] Small old bug in INDEX.
- [KERNEL][BUG] Crash on cursor.UpdateAll() for a field, that have not indexed BaseObject method.

- [SQL][BUG] INSERT, string value that start on 'NULL' was recognised as NULL value.
- [SQL][BUG] removed limit in 32K on SQL query string.
- [SQL][BUG] Aggregate functions for String types now return values.

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Version 1.9.8b4

// April 17, 2003

- [KERNEL][BUG] FixedBinary and VarBinary methods now correctly return values when are used with methods encode() / decode().
- [SQL][BUG] UPDATE Tbl SET blob = NULL WHERE ... must delete BLOB data.

- [VSDK][NEW] Added new constants for Cursor parameters.
- [VSDK][BUG] VDK_Text class must override Find(const char*) to work correctly.
- [VSDK][BUG] FBL_Array::Resize(0) did not zero data pointer.

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Version 1.9.8b1-b2

// March 25, 2003

- [KERNEL][BUG] VarChar > 32KB have glitches.
- [KERNEL][BUG][X] GetPath() do not touch now const char*, so no crash.
- [KERNEL][BUG] Aggregate functions on JOIN with ONE record did not produce result.
- [KERNEL][BUG] Happens when you delete some record at the end of table,
- then you work with other records close to the end of table.

- [VXCMD][BUG] Field_SetEncryption, now not returns error 310.
- [VXCMD][BUG] Cursor_AddRecords, now correctly work with default recDelimiter.

- [VAPP][FIX] Now it can open db from folder that have for us Read-Only permission.

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Version 1.9.7 RELEASE // Feb 24, 2003

Major points of this release are:

- Introduced Carbon version of V4MD for Director MX.
- Fixed all broken Classic products
- in the C and C++ SDK introduced support of C-string path for MAC also.
- in the C SDK many new features added (because we use them in VPHP module)
- introduced Valentina for PHP and Valentina JDBC products as betas.

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Version 1.9.7b8 // Feb 1, 2003

- | | |
|----------------------|---|
| - [KERNEL][BUG][Win] | GetName() and GetPath() not correctly have work in some cases. Introduced in one of beta. |
| - [V4MD][BUG] | Dump() XML did not print field types. |
| - [VSDK][PB] | fixed some glitches in archive. |

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Version 1.9.7b7 // Jan 26, 2003

- | | |
|---------------|---|
| - [VPHP][NEW] | Picture field type works now. |
| - [VPHP][NEW] | BLOB field type works now. i.e. you can read/write ANY binary data. |

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Version 1.9.7b6 // Jan 19, 2003

- | | |
|-----------------------|--|
| - [KERNEL] [ROLLBACK] | Removed feature for OS X to add extention always. |
| - [SQL][BUG] | INSERT INTO T VALUES(v1, v2) now works. |
| - [SQL][BUG] | INSERT INTO T (f) VALUES (NULL) correctly assign NULL value. |
| - [SQL][BUG] | INSERT of escaped string into TEXT field crashes. |

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Version 1.9.7b2-b5 // Jan 17, 2003 (Happy New Year :-)

- | | |
|--------------------|--|
| - [KERNEL][X][Chg] | Now if you specify name of db files without extension then Valentina add it for X, like on Windows. |
| - [VPHP][NEW] | Implemented work with BLOB fields. Pictures also can be stored directly into BLOB, although this break rule of "Picture" field, i.e. picture stored in BLOB will not be accessible to other Valentina products. It is still TODO support of correct picture field. |
| - [KERNEL][BUG] | ChangeEncryption() for existed database, have not correctly encrypt last Kilobyte of file. |
| - [KERNEL][BUG] | BitSetIterator.Prev() was broken. |

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Version 1.9.7b1

// Dec 16, 2002

- [VPHP][NEW]

Introduced VPHP module for OS X and Windows.

- [V4MD][NEW]

V4MD is Carbonized, so it works with Director MX and Projector on OS X.

- [VSDK][NEW]

VDK_Database class now have functions
 CreateDataBase(char* path)
 OpenDataBase(char* path)
that works on all platofrms, including MacOS classic.

- [VSDK][NEW]

VDK_Database class now have function
 VDK_DataBase* VDK_Database::GetDataBaseByPath(const char* inFullPath);
which can be used as well as GetDatabase(FBL_String inName) to check if for required database
already exists VDK_Database object. On success returns pointer to this object.

- [VSDK][NEW]

class VDK_Cursor now have functions GetEOF() and GetBOF() which provide OTHER logic
of record navigation. than NextRecord(), PrevRecord(). We was need them for VPHP module.

- [VCSDK][NEW]

- [VSDK][Imp]

Now functions
 const FBL_String& VDK_Database::GetName()
 const FBL_String& VDK_Database::GetFullPath()
work on all platforms in the same way. GetName() returns the name of db file.
And GetFullPath() returns the full path in format of corresponded platform.

- [KERNEL][Imp]

Now Valentina can accept UNIX paths.

- [VCSDK][Imp]

function GetErrorString() now have parameter errCode.

---- FIXED BUGS ----

- [KERNEL][BUG]

Crash if method use field that has name with underscores.

- [KERNEL][BUG]

Orphaned segments if do DeleteBLOBValue() and UpdateRecord()
for a BLOB that is not indexed.

- [KERNEL][SQL][BUG]

UPDATE ...WHERE uniqueFld = value, did not work.

- [V4MD][BUG]

Crash on finish of script if forget to do db = VOID

- [V4MD][BUG]

AddRecord() now returns FALSE in case of error.

- [V4RB][WIN][BUG]

Property HOUR in Time field was broken. Probably CW 8 bug. It was workarounded.

- [VAPP][AS]

Command 'recordsAsString' now do not change position of cursor.

- [VXCMD][BUG]

Command 'SetEncryption' now is recognized.

- [VXCMD][Fix]

Classic version was broken after move to CodeWarrior 8.

- [VCSDK][BUG]

Now works error strings.

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Version 1.9.6 FINAL // Oct 26, 2002

- [VAPP][NEW] Added property of field class 'quality'. This property allow you via AS control rate of picture compression. Note, that you need assign it only once before you start add records, but it is not stored in disk file. Different fields can have different default quality values.
- [KERNEL][BUG] Memory leak for SQL query with link based on few fields.
- [KERNEL][BUG] Broken in latest betas import of coma-separated data with comas inside of text.

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Version 1.9.6b26 // Oct 22, 2002

- [KERNEL][BUG] Not correct update of index of BaseObject method that depend on few real fields, and some of that real fields was not changed.

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Version 1.9.6b24-25 // Oct 16, 2002

- [KERNEL][BUG] Text field NOT sorted by words, after Update() not correctly sort modified record.
- [KERNEL][BUG] Export could crash if size of record > 20KB.

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Version 1.9.6b23 // Oct 9, 2002

- [KERNEL][BUG] Cursor.UpdateAll() and SQL command "Update ... WHERE" have not update indexes of BaseObject methods.

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Version 1.9.6b22 // Oct 7, 2002

- [KERNEL][BUG] Random crash on deletion of cursor that owns TMP table.
- [KERNEL][BUG] Another random crash on deletion of cursor that owns TMP table.
- [VODBC][NEW] support of import map saving.

/*****/

Version 1.9.6b21 // Oct 2, 2002

- [KERNEL][BUG] BLOB field now do not have orphan segments for Cursor.fld.Delete() also
- [KERNEL][BUG][Win] Diagnose did fail because was broken path builder routine.

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Version 1.9.6b20 // Sept 27, 2002

- [SQL][BUG] Min Max functions throw EOF error if you have join of several tables and function is called not for first table in FROM list.
- [KERNEL][BUG] BLOB field now do not have orphan segments. Was broken month ago.
- [KERNEL][Imp] Now Valentina can read COMA separated file generated by MS Access.

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Version 1.9.6b19 // Sept 27, 2002

- [KERNEL][BUG][MAC] CW 8 have broke locale(), was run arounded.

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Version 1.9.6b17-18 // Sept 27, 2002

- [SQL][BUG] GROUP BY now works for several columns.
- [SQL][BUG] self - recursion on RDB link now works.

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Version 1.9.6b16 // Sept 17, 2002

- [KERNEL][BUG][Win] LIKE now correctly work with non-English languages.
- [KERNEL][BUG] Encryption bug that could affect reindexing on each open().
- [KERNEL][BUG] SQL aggregate functions now create tmp table in tmp folder if db is locked.
- [V4RB][BUG] Crash on X.2

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Version 1.9.6b11 // Aug 23, 2002

- [AS][NEW] 'get segment' for BLOB fields now works.
- [AS][NEW] 'compression' property added to field class.
- [AS][NEW] 'get length' for a BLOB field will return size of data for current record.
- [AS][BUG] 'language' property did not work with VarChar

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Version 1.9.6b9-10 // Aug 20, 2002

- [KERNEL][BUG] On GrowFAT() sometimes corruption.
- [SQL][BUG] Link condition on string type with different length sometimes not work.

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Version 1.9.6b8 // Aug 17, 2002

- [KERNEL][BUG] DeleteBLOBData() + Update() was broken.

/*****/

Version 1.9.6b7 // Aug 16, 2002

- [SQL][NEW] Support of RDB relations baseds on several pairs of fields
WHERE t1.a = t2.a and t1.b = t2.b

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Version 1.9.6b5-b6 // Aug 3, 2002

- [KERNEL][NEW] Read/Only db files now are opened always in Shared mode for Reading.
- [KERNEL][Fix][Win] More correct work with accent characters during RegEx search.
- [SQL][Fix] OUTER join bug.

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Version 1.9.6b3-b4 // Jun 23, 2002

- [KERNEL][Fix] ChangeFieldType() sometimes crashes om X.
- [VCOM][Fix] Now must open dbs encrypted on MAC
- [SQL][Fix] Fixed 3-4 bugs in RIGHT and FULL OUTER join,
- [SQL][Fix] GROUP BY sometimes loose last record of table.

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Version 1.9.6b1-b2 // Jun 12, 2002

- [SQL][Fix] DELETE ... WHERE now works with long table names
- [SQL][Fix] UPDATE WHERE now works if record not found.
- [KERNEL][Fix] VarBinary and FixedBinary works if you add blank record.
- [KERNEL][Fix] Crash on X for big indexes.
- [KERNEL][Fix] Language for TEXT field now works.

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Version 1.9.5 FINAL // Jun 15, 2002

FINAL RELEASE done.

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Version 1.9.5b16 // Jun 09, 2002

- [KERNEL][Fix] Fixed broken a little join on many tables.
- [KERNEL][Fix] XML Dump, Load, Dump produce wrong result in date fields, fixed.
- [KERNEL][Fix] Crash on X on import with RecID in cursor.
- [VXCMD][New] Binary_Read(), Binary_Write() for FixedBinary, Varbinary and BLOB fields for MetaCard and Revolution only.

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Version 1.9.5b8-b9 // May 24, 2002

- [KERNEL][Fix] More fixes on compression for big data.
- [KERNEL][Fix] Access to NULL crash on X during XML Dump when field meet NULL value.
- [SQL][Fix] fixed -39 error on ORDER BY for query that select only one table from several JOINed tables.

/*****/

Version 1.9.5b5-b7 // May 20, 2002

- [KERNEL][Fix] Compressed BLOB can store data > 150KB.
- [KERNEL][Fix] Conversion from Numeric to String type works now fine.
- [SQL][New] Now table of aggregate functions can be sorted.
- [SQL][Fix] Fixed broken ability to sort on not SELECTed field.
- [SQL][Fix] Fixed broken self-recursion join.
- [SQL][Fix] COUNT(*) now works for many table join.

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Version 1.9.5b3-b4 // May 14, 2002

- [SQL][Opt] SELECT DISTINCT now use MUCH more effective algorithm. Expected speed up in tens times.
- [SQL][NEW] Implemented aggregate functions and GROUP BY.
SELECT count(*), count(f), sum(f), avg(f), min(f), max(f)
And the same with DISTINCT.
- [SQL][Fix] Fixed OUTER JOIN so now it works if you use aliases for tables, and if one of table is empty.

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Version 1.9.5b1-b2 // April 28, 2002

- [KERNEL][Opt] Valentina's file system optimized for big db files. Now it works 10-15 times faster for files >200MB.
- [SQL][NEW] SELECT DISTINCT implemented.
- [SQL][NEW] OUTER JOIN implemented. For now syntax is imilar to SQL Server and Sybase:
LEFT OUTER WHERE A.KEY *= B.PTR
RIGHT OUTER WHERE A.KEY =* B.PTR
FULL OUTER WHERE A.KEY *=* B.PTR

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Version 1.9 FINAL // April 20, 2002

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Version 1.9b13-b15 // April 17,19, 2002

- [KERNEL][BUG] Crash on X or WIN if change max length of BaseObject method of type String/VarChar.
- [KERNEL][BUG] Introduce in 1.9b1. Flag GoodClose now not attempt to write on disk if db is read only.
- [KERNEL][BUG] Bug in BLOB field that cause orphan segments. Introduced in 1.9b.
- [KERNEL][BUG] Bug of 1.9b1 that prevent write after 4GB.

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Version 1.9b12 // April 15, 2002

- [KERNEL][BUG] LoadDump() now correctly set DateSep, TimeSep, and name of db
- [KERNEL][BUG] Lower and Upper functions on MAC have had limit in 32KB. FIXED.
- [KERNEL][BUG] Diagnose now correctly work with VarChar that has deleted records.
- [KERNEL][BUG] Fixed a couple of bugs on indexing of TEXT BaseObject methods.

/*****/

Version 1.9b11 // April 14, 2002

- [KERNEL][Imp] VCursor after import of TEXT File now knows added records !!!
- [KERNEL][Bug] DIAGNOSE for Boolean field now correctly works.
- [KERNEL][Bug] SQL Dump now has single quotes around strings.
- [VSDK][NEW] Now class FBL_Task have ability to work with affected records.
- [VAPP][Bug] Crash IF for import was specified a BaseObject method. (fool protection).

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Version 1.9b10 // April 13, 2002

- [KERNEL][NEW] DIAGNOSE feature.
- [SQL] [NEW] New commands
 - DIAGNOSE DATABASE
 - DIAGNOSE TABLE table_name
 - DIAGNOSE FIELD table_name.field_name
- [VAPP] [NEW] DIAGNOSE menu in Utility menu.

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Version 1.9b8 // April 10, 2002

- [KERNEL][NEW] Header of vdb file now has flag IsStructureEncrypted, also added error 328 -- wrong structure encryption key. This allow open db with encrypted structure.
- [KERNEL][Imp] Added ability convert encrypted VarChar fields into 1.9 format.

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Version 1.9b3-b7 // April 7, 2002

- [KERNEL][New] Added 2 functions: ENCODE(what, password) and DECODE(what, password)
- [KERNEL][Imp] CREATE TABLE now accept BaseObject method using the following syntax:
 - fldName fldType (length) METHOD(expression)
- [KERNEL][Imp] SQL Dump is polished to produce more correct output.
- [KERNEL][Bug] in BLOB fields on deleteion was established wrong links in deleted blocks. In some cases this could cause -39 error.

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Version 1.9b2 // March 30, 2002

- [KERNEL][Bug] Fixed 3 bugs in XML parser code.

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Version 1.9b1 // March 27, 2002

- [KERNEL][NEW] CHNAGES IN DB FORMAT (!!!)
 - 1) added more properties in system tables, mostly for future.
 - 2) VarChar field now use 2 bytes less per record.
 - 3) Added flag "GoodClose" for db files.

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Version 1.8.11 b5 // March 13, 2002

- [KERNEL][BUG] COMPACT, more bugs fixed.
- [V4RB][Bug] Now works with RB 3.2
- [VAPP] [NEW] Menu command REINDEX DATABASE
- [VAPP] [NEW] Menu command REINDEX BaseObject
- [VAPP] [Bug] Menu utilitites now works on X.

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Version 1.8.11 b4 // March 11, 2002

- [VCSDK][New] NEW PRODUCT: Valentina C/Pascal SDK
- [VCOM][New] Picture field now works!
- [VCOM] [Imp] BLOB field now work with array of bytes.

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Version 1.8.11 b3 // March 5, 2002

- [KERNEL][New] Support of files >2GB (!!!)
NOTE: format of db changed. b3 is not able yet convert old format. Test only on new db.

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Version 1.8.11 b2 // Feb 28, 2002

- [KERNEL][SQL][Bug] Language now works in CREATE TABLE tbl (fld string(30,'English'))
- [VAPP][Bug] String and VarChar fields was truncated to 256 chars.

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Version 1.8.11 b1 // Feb 27, 2002

- [KERNEL][NEW] new SQL command
REINDEX DATABASE
REINDEX TABLE tbl_name
REINDEX FIELD fld_name
- [KERNEL][NEW] new SQL command
COMPACT
- [KERNEL][NEW] new SQL command
DEFRAGMENT
- [VAPP][New] New menu to access above commands.

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Version 1.8.10 FINAL // Feb 18, 2002

- [V4RB][Bug] Crash on X if RB project has Italian language as default.
- [V4WS][Imp] Now commands Open(), Create() can accept full path for db.

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Version 1.8.10 b18 // Feb 14, 2002

- [KERNEL][Bug] Bug in internal file system. Appears if one file mode and small segment. Otherise could appear on huge dbs (probably >1GB).
- [KERNEL][Bug] XML dump not correctly work with '&'.
- [KERNEL][Bug] In case BaseObject has an unique field AND a BLOB field, on attempt to add new record with not unique value, the new value of BLOB is not cleared from BLOB file.
This do not corrupt nothing, just leaks of space in BLOB file.
- [KERNEL][Bug] FIXED bug in BLOB field, that prevent truncation of BLOB file on deletion of BLOB records.
- [KERNEL][Bug] Crash of deletion from index empty TEXT field indexed by words.
- [V4RB][Bug] VCusor.UMedium function have had not correct name.
- [V4MD][Bug] Functions as ShutDownValentina() did not clear error code of V4MD.

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Version 1.8.10 b17 // Feb 2 2002

- [SQL][New] CREATE TABLE now accept for field options NDEXED, WORDS, COMPRESSED.
- [KERNEL][Bug] Boolean field now work with conditions that use >, <
- [KERNEL][MAC] Now MakeCache() check version of OS and do check of max size for cache only on Classic.
- [V4MD][Win] Crash in GetRecordsAsPropertyList().

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Version 1.8.10 b16 // Jan 29 2002

- [New] SqlExecute() command now has bind parameter, where you can specify strings to be binded with SQL query for commands INSERT and UPDATE. You can refer to binded parameter in SQL query using index :N.
Example: SqlExecute("INSERT INTO T(f1,f2,f3) VALUES('aaa',:1,:2)", ['bbb', 'cccc'])
is the same as "INSERT INTO T(f1,f2,f3) VALUES('aaa','bbb', 'cccc')"
- [VAPP][New] SQL Execute str bind ListOfStrings
- [V4RB][New] SqlExecute(SqlQuery, [Binds() as Array])
- [V4MD][New] SqlExecute(SqlQuery, [list])
- [V4WS][New] SqlExecute(SqlQuery, [list])
- [KERNEL][Bug] commands INSERT, UPDATE now work with escaped quotes inside of string value.
- [KERNEL][Bug] crash on dump and load in case an ObjectPtr do not have Target
- [KERNEL][Bug] UPDATE .. f = NULL WHERE ... now works.
- [KERNEL][Bug][X] Now on X can allocate cache >10MB
- [KERNEL][Bug] UPDATE .. f = NULL WHERE ... now works.
- [V4MD][Bug] Add(list) / Update(list) now accept VOID as NULL value for a field.

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Version 1.8.10 b15 // Jan 18 2002

- [KERNEL][Bug] UpdateAll() now can set fields to NULL
- [KERNEL][Bug] BLOB, set flag compressed OFF
- [KERNEL][Bug] TEXT method, indexed by words > 256, not index words after 256 char.
- [KERNEL][Bug] set flag fNulabble OFF then immidtly ON cause crash.
- [KERNEL][Bug] UpdateAll() for an unique field do not set records to the same value.

- [VAPP][Bug] bad character in Error dialog.
- [VAPP][Bug] fail to open db of made by VCOM on Windows.

- [VXCMD][New] Database_SqlExecute() function added.

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Version 1.8.10 b13-b14 // Jan 12, Jan 15 2002

- [KERNEL][Imp] Removed silly attemp of optimizastion. So now Goto Nth record always reread its value.
- [KERNEL][Bug] On adding of new fields in table AFTER deletion of field(s) cause corruption.

- [V4RB][Bug][Mac] Not all resources of V4RB was copied to compiled app.

- [VCOM][New] Dump() and LoadDump()
- [VCOM][Bug] Release version of VCOM did crash on attempt to throw. (Thank you Microsoft :-)

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Version 1.8.10 b12 // Jan 9, 2002

- [KERNEL][Imp] VarChar field now has protection to do not crash in case of corruption
- [KERNEL][Imp] Export function now continue work and not break on corrupted record

- [V4RB][New] ValentinaSetExtensions(Desc as string, Dat as string, Blb as string, Ind as string)

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Version 1.8.10 b10-b11 // Jan 6, 2002

- [KERNEL][New] Added new SQL command:
 CONVERT RDBLINK tableB.Ptr = TableA.Key INTO [tableB.]ObjectPtr
- [KERNEL][Bug] LoadXML now correctly load date/time values
- [KERNEL][Bug] LoadXML now correctly load BaseObject Methods that contains chars <,>

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Version 1.8.10b9 // Jan 4, 2002

- [KERNEL][Bug] LoadXML not correctly work with BLOB fields.
- [KERNEL][Bug] Deletion and next creation of field n table corrupt database (!!!)
- [KERNEL][Bug] Crash on NULL access during CREATE TABLE.
- [KERNEL][Bug] Crash on NULL access during SQL dump.
- [KERNEL][Bug] Encryption now works correctly when we open db from other platform.
- [KERNEL][Bug] ULONG field and others now can copy value from RecID and ObjectPtr fields.

- [VAPP][New] Menu "Dump->Sql"
- [VAPP][Bug] Crash on NULL access during Delete BaseObject.

- [VXCMD][New] WORKS now on X as Carbon.
- [VXCMD][Bug] Field_SetFlag() now accept TRUE and FALSE in third parameter.

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Version 1.8.10b7 // Dec 23, 2001

- [KERNEL][New][SQL] CREATE TABLE
- [KERNEL][New][SQL] ALTER TABLE
- [KERNEL][New][SQL] DROP TABLE
- [KERNEL][New][SQL] INSERT INTO table (f1,f2,f3,...) VALUES (v1, v2, NULL, ...)
- [KERNEL][New][SQL] INSERT INTO table (f1,f2,f3,...) SELECT ... FROM ... WHERE
- [KERNEL][New][SQL] UPDATE table SET f1 = v1, f2 = v2 ... WHERE ...
- [KERNEL][New][SQL] DELETE table SET f1 = v1, f2 = v2 ... WHERE ...

- [VSDK][New] VDK_Database::SqlExecute() and SqlSelect()
- [V4RB][New] VDatabase.SqlExecute()
- [V4MD][New] VDatabase.SqlExecute()
- [VAPP][AS][New] SQL db Execute query

/*****/

Version 1.8.10b6 // Dec 12, 2001

- [KERNEL][Bug][Win] problem with 32-bit images fixed

- [V4MD][New] VCursor.UpdateAllRecords()

/*****/

Version 1.8.10b5 // Dec 8, 2001

- [KERNEL][Bug] Crash on indexing of TEXT method with flag IndexByWords OFF and EMPTY text value.
- [KERNEL][Bug] Field.ChangeType() did not work for many combination of fields
If db files are from platform with different byte order
if to change name of ObjectPtr it loose target

- [VSDK][Bug] TEXT field created by new forget language
- [VSDK][Bug][Win] VDK.DLL now can be loaded

- [V4MD][New] VCursor.UpdateAll() function.
- [V4MD][Bug] AddRecord() now accept VOID value ion list.

- [V4WS][New] dbRef = valNewDatabase(). Needed for encryption work.

/*****/

Version 1.8.10b4 // Nov 30, 2001

- [V4MD][New] VCursor.GetRecordAsPropList([RecIndex])
- [V4MD][New] VCursor.GetRecordsAsPropList([From], [RecCount])
- [V4MD][New] VCursor.AddRecord() now accept property list as well as linear.
- [V4MD][New] VCursor.UpdateRecord() now accept property list as well as linear.

/*****/

Version 1.8.10b3 // Nov 26, 2001

- [V4MD][New] VCursor.SetNull()
- [V4MD][New] VCursor.UpdateRecord(curs, [list_of_fields])
- [V4MD][New] VCursor.GetColumn(curs, fldNameOrIndex)
- [KERNEL][Bug] Crash in combination of 4 conditions:
 - if db files are from other platform
 - if we have VarChar field
 - if we do Flush()
 - and if we read a record that is located on current page of VarChar field
- [KERNEL][Bug] XML dump now put chars & < > as "&" "<" ">"
- [VAPP][Bug] Crash in menu "make search set"

/*****/

Version 1.8.10b2 // Nov 18, 2001

- [V4MD][New] VDatabase.Dump, VDatabase.LoadDump
- [VAPP][New] Menu XML {Dump, Import}
- [V4WS][New] valDump, valLoadDump,
valChangeStructureEncryption, valSetStructureEncryption,
valChangeDatabaseEncryption, valSetDatabaseEncryption,
valChangeBaseObjectEncryption, valSetBaseObjectEncryption,
valChangeFieldEncryption, valSetFieldEncryption
- [VXCMD][New] Database_Dump, Database_LoadDump

/*****/

Version 1.8.10b1 // Nov 8, 2001

- [KERNEL][New] XML Dump and parsing
- [KERNEL][New] SQL Dump
- [KERNEL][New] Now we can use BaseObject Methods in RDB links.
- [KERNEL][Bug] Crash if we have db file from other platform
 - if string or VarChar field is indexed but NOT by words
 - if you put string longer of 127 bytes
- [KERNEL][Bug] Conversion from very old format did not work in 1.8.9.
- [VSDK][New] Set of function in VDK_BaseObject class CreateXXXField()
- [VSDK][New] Class XFBL_Exception now can have error string
- [VAPP][Imp] DefineFields dialog now is resizable.
- [VAPP][Imp][X] Polished many GUI glitches on X.
- [VAPP][Bug][X] if select VAPP in dock was annoying dialog "New File".
- [V4RB] [New] Set of function VBaseObject.CreateXXXField()
- [V4RB][New] VDatabase.Dump() and VDatabase.LoadDump()
- [V4RB][Bug] Crash if set flag Compressed via Classes.
- [V4MD][Bug] GetRecord() not correctly have work with Nullable fields.

/*****/

Version 1.8.9r7 // Oct 1, 2001

- [KERNEL][Bug] BLOB field did not store level of compression in system table
- [KERNEL][Bug] BLOB field via Cursor always did think that segment size is 1024 bytes
- [KERNEL][Bug] Now you can create db objects, then only open each of them.
- [KERNEL][Bug] Introduced in r6, make funny "vdb.ind"
- [KERNEL][Bug] Crash on search on encrypted Boolean field.
- [KERNEL][Bug] Method from Method index do not delete old value.

/*****/

Version 1.8.9r6 // Sept 29, 2001

- [KERNEL][Imp] Access to field value in BaseObject methods now must be faster.
- [KERNEL][Bug] Method from Method was not updated on record movement.
- [KERNEL][Bug] Custom extension of db files now can be any length, not only 3 char.
- [KERNEL][Bug] BLOB field with compression now works correctly if compressed size of data > 50KB.
- [V4WS][Bug] Medium field now works.
- [V4MD][Bug] GetMedia for empty BLOB now do not corrupt cast member.

/*****/

Version 1.8.9r5 // Sept 15, 2001

- [KERNEL][New] Valentina now stores encrypted small string into sys table, so it can easy recognize if user specify correct encryption key and return error 326 if key is wrong.
- [VXCMD][New] Database_New() returns dbRef that you can use in Database_Open() if your db is encrypted.
- [KERNEL][Imp] Changes of a parameter now is stored in sys table much faster.
- [KERNEL][Bug] Encryptor and Decryptor was chnaged by place.
- [V4MD][Bug] Crash if developer specify cache bigger than available RAM. Now exists protection of this.
- [VAPP][Bug] Now error that happens during AE call do not show dialog, never.

/*****/

Version 1.8.9r4 // Sept 2, 2001

- [KERNEL][New] On MacOS Valentina now has resource 'lnmp' -- map of language name - itl res ID.
- [KERNEL][Bug] Just after import and update of a record search produce one not correct record.
- [KERNEL][Bug] Echo after deletion in the index of BaseObject method in case you update by empty string.
- [KERNEL][Bug] Encryption now works for single VBaseObject and VField.
- [VSDK][Bug] Incompatible call for Carbon 1.4: : : DisposeThreadEntryUPP()
- [VXCMD][Bug] Cursor_Export now works.
- [VAPP][GUI][X] Crash on X if we click mark column to link records.
- [VAPP][GUI] Garbage chars in dialog EditFields in field MethodText.

/*****/

Version 1.8.9r3 // August 24, 2001

- [KERNEL][Bug] incoherence between error numbers and strings on MacOS.
- [KERNEL][Bug] Deletion of ObjectPtr field not correctly clean system tables.
- [KERNEL][Bug] BLOB field, segmentSize not correctly read from system table.
- [KERNEL][Bug] BLOB field, crash on Windows and X, access to NULL, mCompressor.

/*****/

Version 1.8.9b13 // August 21, 2001

- [KERNEL][Bug] Medium field now works with negative values fine
- [KERNEL][Bug] Conversion UMdeium->Medium, LLong->String now works correctly.
- [KERNEL][Bug] Deletion of tables and fields now work fine, new bug after system tables adding.
- [KERNEL][Bug] Year of dates that start on zero "0020" did work wrong.
- [KERNEL][Bug] Crash for compressed BLOB in case is used static model of app in RB, C++.

/*****/

Version 1.8.9b12 // August 17, 2001

- [KERNEL][Chg] Language of String fields now is specified as string, e.g "German".
- [KERNEL][Bug] BaseObject Methods did not read their text on open. This is bug of b11.
- [V4RB][Bug] BaseObject.ChangeType() was broken.

/*****/

Version 1.8.9b11 // August 8, 2001

- [KERNEL][New] Implemented system tables.
- [KERNEL][New] Structure encryption now works.
- [KERNEL][Bug] GetString() for negative dates now return correct Year.

/*****/

Version 1.8.9b10 // August 1, 2001

- [KERNEL][Bug] Crash IF work with files of other platfrom and IF you deleted last record in table with a VarChar field.
- [KERNEL][Bug] Import on Windows of accent 'e', last in word was eaten.
- [KERNEL][Bug] Picture field was not correctly updated by EMPTY value via Cursor API.

/*****/

Version 1.8.9b9 // July 22, 2001

- [VAPP][???] Import of file into table with unique field crashes. Looks to be a CW 6.0 optimisation bug , because if compile with optimizaion level <= 2 all works fine.

/*****/

Version 1.8.9b8 // July 20, 2001

- [KERNEL][Imp] Better threading on indexing.
- [KERNEL][Bug] Crash on GetString() for ReclD field.
- [V4MD][Bug] Bug in latest betas -- do not accept correct serial number
- [VXCMD][Bug] String and VarChar fields do not correctly read value of BaseObject Method.
- [VAPP][Bug] Edit field of BaseObject Method do not accept typing.

/*****/

Version 1.8.9b7 // July 18, 2001

- [KERNEL][New] Compression now can be changed for not empty table.
- [KERNEL][New] VarChar work now up to 64535 bytes length.
- [KERNEL][Bug] Problem with VarChar and indexes introduced in b6
- [VSDK][Chg] Examples updated to use new thread classes, so canceled dependency on PP, 100%.
- [VSDK][Chg] Canceled dependency on MoreFiles (for MacOS).

/*****/

Version 1.8.9b6 // July 8, 2001

- [KERNEL][New] Zip compression for BLOB fields.
- [KERNEL][Bug] Update of VarBinary with string having chr(0)
- [KERNEL][Bug] Conversion of one type to other zero new field. Introduced in b5
- [KERNEL][Bug] Crash on SQL query to empty table. Introduced in b4 with new bit set classes.
- [VAPP][New][GUI] flag Compressed for BLOB fields.
- [VAPP][New][GUI] BaseObject Method edit field now can work with strings longer >256 bytes.
- [VAPP][New][AS] recordsAsString from, max, fldDelimiter, recDelimiter
- [VAPP][New][AS] dropRecord
- [VAPP][New][AS] firstRecord
- [VAPP][New][AS] lastRecord
- [VAPP][New][AS] nextRecord
- [VAPP][New][AS] prevRecord
- [VXCMD][Bug] parameter Mode in DatabaseCreate() now works

/*****/

Version 1.8.9b5 // July 1, 2001

- [KERNEL][Bug] Crash on query to empty table.
- [KERNEL][Bug] VarBinary.SetBlank() was not correct.

/*****/

Version 1.8.9b4 // June 30, 2001

- [KERNEL][Imp] Date field now accept negative dates in format "-d/m/y" or "d/m/-y"
- [KERNEL][Bug] new BitSet class have had 2 bugs
- [KERNEL][Bug] DateTime field was broken on Windows.
- [KERNEL][Bug] Function space(n) did crash on Windows with negative value.
- [V4MD][NEW] 2 functions in VCursor Xtra to obtain many records of selection as string
 - GetRecordAsString()
 - GetRecordsAsString()
- [V4MD][NEW] Functions to work with DateTime format of database.
 - GetDateTimeFormat()
 - SetDateTimeFormat()
- [V4RB][New] Property VDatabase.CenturyBound. Control auto correction of year yy -> YYYY
If you set it to ZERO then auto correction will be OFF.

/*****/

Version 1.8.9b3 // June 28, 2001

- [KENREL][New] IFNULL() and IF() now work with TEXT fields.
- [KERNEL][New] Now Valentina accept negative dates in both formats '-DD/MM/YYYY' and 'DD/MM/-YYYY' (order of DMY is not mater here, it is controled by date time format).
- [KERNEL][Opt] Class BitSet and BitSetIternator now has faster algorithms.
- [KERNEL][Bug] VarBinary field, fixed 2 bugs in work with string longer of max length.
- [KERNEL][Bug] Crash on DeleteRecord() if in table is TEXT method.
- [KERNEL][Bug] Crash on attempt to do search on Fixedbinary or VarBinary field.
- [KERNEL][Bug] Date/Time methods now return NULL value in case of wrong type on input.
- [V4RB][Bug] instance of VBaseObject created by MakeNewBaseObject() have not correct ref counter.
- [VSDK][New] New classes for threads, semaphores, critical section.
- [VSDK][Opt] Broken dependency on PowerPlant, 100%.
- [VAPP][Bug] Crash in input layout in case first field is FixedBinary or VarBinary.

/*****/

Version 1.8.9b2 // June 10, 2001

- [KENREL][Bug] Methods of TEXT type now work with LIKE search.

/*****/

Version 1.8.9b1 // June 10, 2001

- [KENREL][New] Methods now can be of TEXT type (!!!)
- [KERNEL][Opt] Methods for Numeric and Sting types now work little faster.
- [KERNEL][Chg] Windows, indexing do not allocate a lots of RAM if table is small enough.
- [KERNEL][Bug] ObjectPtr wrong indexing. It happens if you delete a record which has many related to it by ObjectPtr records of table B, in fact > 30% of records of table B.
- [KERNEL][Bug] Not initialized data member of Task class, cause crash on Win, dual processor computer.
- [KERNEL][Bug] Nasty bug in building of ineted FIRST Physical record.
- [KERNEL][Bug] Changing of Method text now notify all other Methods of BaseObject so they can update their indexes.
- [V4MD][New] FirstRecord() and LastRecord() now return bool result.
- [V4WS][Bug] First() and Last() now return bool result.
- [VAPP][Chg] Now we can search on ObjectPtr field.
- [VAPP][Bug] When Main BaseObject has a record with ObjectPtr = 0 then if we mark second record VAPP work not correctly on building of resulted set in Related Browser.

/*****/

Version 1.8.8r4-r5 FINAL // May 21, 2001

- [KERNEL][New] Ranged search for RecID field. "WHERE RecID > m and RecID < k"
- [KERNEL][Bug] Crash on import into indexed TEXT field.
- [V4RB][New] Debug messages now work on X.
- [V4RB][Chg] !!! Functions of class VCursor Add(), DeleteAll(), Update(), UpdateAll() now return Boolean.
- [V4RB][Chg] Example TEST updated.

/*****/

Version 1.8.8r1-r3 FINAL // May 10, 2001

- [KERNEL][Bug] LOCATE() method return wrong result if str and substr are the same.
- [KERNEL][Bug] UPDATE of cursor sometimes affected by other cursors.
- [KERNEL][Bug] BaseObject Methods now accept field names with spaces (if use [] of course).
- [KERNEL][Bug] BaseObject.Update() do not work IF BaseObject have one record, you have create a field and update this single record .
- [V4RB][New] VCursor.UpdateAll()
- [V4RB][Bug] Close() have not work for new modes of db.Create(). Introduced in 1.8.8
- [V4MD][Bug][Win] Pictures > 32 KB did not work
- [V4MD][Bug][Win] ValentinaSetExtentions() did not work.
- [VAPP][Bug] Crash if create and delete BaseObject.
- [V4WS][New] valCursorUpdateAllRecords(CursorRef, list_of_pairs)
- [VXCMD][New] Cursor_UpdateAll(CursorRef)

/*****/

Version 1.8.8 FINAL // May 2, 2001

- [V4MD][New] ValentinaSetExtensions(list)
- [V4MD][Chg] For FixedBinary and VarBinary now we also will use "normal" way "SetField(value)", not "SetField(value, length(value))" as in betas.
- [KERNEL][Bug] BaseObject Methods for Date/time function not correctly build index.
- [KERNEL][Bug] Crash on SetFlags() ClearFlags(), introduced in b27.
- [KERNEL][Bug] ULLong have not work in Cursor API.

/*****/

Version 1.8.8 b27 // Apr 29, 2001

- [KERNEL][Bug] VarChar bug if maxLen > 1020 bytes.
- [V4RB][Bug] Another problem with garbage collection.
- [VJDK][Bug] Bug on save of picture with size > 32KB.

/*****/

Version 1.8.8 b26 // Apr 23, 2001

- [KERNEL][New] **Medium** and **UMedium** integer types. Use 3 bytes. Numbers 22 and 23.
- [KERNEL][New] **FixedBinary** and **VarBinary** types. Numbers 24 and 25.
- [VSDK][New] Classes VDK_Medium, VDK_UMedium, VDK_FixedBinary, VDK_VarBinary.
- [V4RB][New] Classes VMedium, VUMedium, VFixedBinary, VVarBinary.
- [V4MD][New] SetField has now 4th parameter "length" for Fixed and Var Binary types.
- [VAPP][New] GUI updated for new types.

/*****/

Version 1.8.8 b25 // Apr 15, 2001

- [KERNEL]New] New modes for db.Create()
 - kFBL_DscDatBlb_Ind = 5, // (description,data,BLOB) + indexes
 - kFBL_DscDat_Blz_Ind = 6, // (description,data) + BLOB + indexes
 - kFBL_DscDatInd_Blz = 7, // (description,data,indexes) + BLOB
 - kFBL_Dsc_DatInd_Blz = 8 // description + (data,indexes) + BLOB
- [V4RB][Bug] Corruption of ObjectPtr link in case of break of RB app into IDE, during garbage collection by IDE.

/*****/

Version 1.8.8 b24 // Apr 12, 2001

- [KERNEL][Bug] indexing of TEXT field was wrong for empty value on UPDATE. Introduced in b21.
- [KERNEL][Bug] String methods now not consider EMPTY TEXTvalue as NULL value and continue work.
- [VAPP][GUI][Bug] For BLOB and Picture field, next field have overlap it in the Input/Find form.
- [VAPP][AS][Bug] 'delete records' again work.

/*****/

Version 1.8.8 b23 // Apr 10, 2001

- [KERNEL][Bug] Deletion of record in a table with self recursion and CASCADE deletion was wrong.
- [KERNEL][Bug] UPDATE of empty TEXT field do not add new value to index. Introduced in latest betas.
- [KERNEL][Bug] Date, Time and DateTime fields now accept result of String functions such as CONCAT().
- [V4MD] [Bug] DateTime field was broken in V4MD.

/*****/

Version 1.8.8 b22 // Apr 6, 2001

- [KERNEL][Bug] Not correct indexing on UPDATE of Methods that depend on other Methods OR not indexed fields.
- [V4RB][Bug] GetField(), GetBaseObject() function was not correct in latest betas.

/*****/

Version 1.8.8 b21 // Apr 4, 2001

- [V4MD][New] **SetPicture** now can accept not only cast member but picture Lingo variable.
- [V4MD][New] **GetPicture** now has parameter CastMember as optional. If it is absent it return Picture into Lingo variable.
- [VAPP][Bug] Crash on quite of VAPP, result of changes in prev betas.

/*****/

Version 1.8.8 b20 // Apr 1, 2001

- [V4MD][New] ***MemBuffer_Allocate** integer inBytes
- [V4MD][New] ***MemBuffer_Free** integer MemBufferPtr
- [V4MD][New] **BLOB_GetDataSize** object me, any fldNameOrIndex
- [V4MD][New] **BLOB_DeleteData** object me, any fldNameOrIndex
- [V4MD][New] **BLOB_ReadData** object me, any fldNameOrIndex, integer memBufferRef, integer BytesToRead, [Offset]
- [V4MD][New] **BLOB_WriteData** object me, any fldNameOrIndex, integer memBufferRef, integer BytesToWrite, [Offset]
- [V4MD][New] **GetRecord** object me, [integer RecIndex]
- [V4MD][New] **GetRecords** object me, [integer StartRec], [integer MaxRecords]
- [V4MD][New] **AddRecord** object me, [ValuesList]

/*****/

Version 1.8.8 b19 // March 31, 2001

- [V4RB][Bug] One more bug in garbage collection of last betas. Was in VBaseObject class.

/*****/

Version 1.8.8 b17-18 // March 28, 2001

- [VJDK][New] Example with pictures.
- [VJDK][New] VDescriptionFile class.
- [VJDK][Bug] Fixed broken VPicture class.
- [VJDK][Opt] Optimized garbage collection.

- [V4RB][Bug] Leaks of RB objects in b15.
- [VAPP][Bug] Introduced in b14-b16. Crash on close if before was error thrown.

- [VAPP][AS][Bug] Introduced in 1.8.7 bug. Error dialog now will not be displayed if you have specify 'hide gui'
- [VAPP][AS][Bug] Get property 'language' and 'IndexByWords' for VarChar field now works.

/*****/

Version 1.8.8 b14-15 // March 25, 2001

- [KERNEL][O pt] VarChar .operator=() now works in 5-6 times faster for small strings.
- [KERNEL][Bug] Add() + Update() of the same record for Cursor with Methods did not work.
- [V4RB][Bug] More fixes in garbage collection.
- [VAPP][Bug] Introduced in 1.8.7 bug. Could affect in many places.
Problem: was used the debug version of operator new, and new(0) give NULL => exception.

/*****/

Version 1.8.8 b13 // March 22, 2001

- [VXCMD][Bug] Cursor_GetReocrds now use specified RecDelimiter.

/*****/

Version 1.8.8 b10-11 // March 20, 2001

- [KRENEL][Bug] Byte field on assigment of string did work as Boolean. Introduced in b7
- [KERNEL][Bug] Search (x ==b) was broken in b7 if the number of records > 65535.

- [V4RB][Bug] DataBase_GetSchema() was broken in b8.
- [VXCMD][Bug] BaseObject_GetRecordCount now works.

/*****/

Version 1.8.8 b8-b9 // March 18, 2001

- [KERNEL][Bug] Cursor.BLOBField.DeleteData

- [V4RB][Opt] A lots of changes in V4RB layer.
- [V4RB][Opt] Most functions should work little faster on access of REAL objects.
- [V4RB] [Bug] Garbage collection problems fixed.

/*****/

Version 1.8.8 b7 // March 13, 2001

- [VXCMD][New] size = BLOB_GetDataSize(fldRef)
BLOB_DeleteData(fldRef)
BLOB_ReadData(fldRef, MemBuffer, Bytes)
BLOB_WriteData(fldRef, MemBuffer, Bytes)
buffRef = MemBuffer_Allocate(Bytes)
MemBuffer_Free(MemBufferRef)

- [KERNEL][Bug] BooleanFld.SetString() now accept string "1", "TRUE" (in any case) as TRUE value.
All other strings considered as FALSE value.

/*****/

Version 1.8.8 b5-b6 // March 12, 2001

////////// NEW \\\\\\\\\\\\\\\\\\\

- [VXCMD] BaseObject_GetRecordCount(boRef)
Field_SetBlank(fldRef)

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] Import of file with a record > 10000 bytes cause crash on Windows.
- [KERNEL] Fixed very dangerous bug related with using of indexes which could cause crash.
Strange, but this bug was found in V4MD only. I think it could also happens in other products very rarely.

- [V4MD] Blob/Text field which was Binded now correctly do UPDATE.
- [V4MD] Binded field now should correctly work with Nullable fields

/*****/

Version 1.8.8 b4 // March 6, 2001

////////// NEW \\\\\\\\\\\\\\\\\\\

- [VSDK] All VDK classes now have data members which are useful for development of plugins.
class** mBackRef;
void* mXtraData;
void (*mFinalize)(class* inObject);

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL][Win] Sometimes kernel throw exceptions "Float wrong operation".
We could see this in V4MD DLL when HP printer was set as default.
- [KERNEL] Text field on UPDATE have not update index (bug was introduced in 1.8.7)

/*****/

Version 1.8.8 b2-b3 // Feb 12, 2001

////////// NEW \\\\\\\\\\\\\\\\\\\

- [KERNEL] class FBL_String now has no limit on 64KB.
- [VSDK] VDK_Cursor now has set of handy functions: GetByte(), GetShort(), ... GetString()
- [VSDK] 2 new macros in FBL.h :FBL_STD and FBL_Using_Namespace_Std

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] BLOB field, random access now works.

/*****/

Version 1.8.8 b1 // Feb 9, 2001

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] BaseObject Methods, words AND OR IS NULL now works.
- [VAPP] Import Dialog now choose text files.
- [VAPP] DefineFields dialog correctly highlight selected field.
- [VAPP] DefineFields dialog, sometimes VarChar did show length 540 instead of 504.
- [VXCMD] GetSegmentSize() now works for Text and Picture fields
- [VXMCD] GetLanguage() now returns negative number -1 correctly.
- [VXCMD] AddRecord() correctly add values with NULL: \t\t

/******

Version 1.8.7 final // Jan 2, 2001

////////// NEW \\\\\\\\\\\\\\\\\\\

- [VJDK] First release of "Valentina for Java" SDK.
- [VSDK] VDK_AE classes updated for Carbon.
- [VAPP] Carbon ready
- [V4RB] Carbon ready
- [V4MD] Shockwave ready
- [V4MD] Authorware ready

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] Memory leak on sorting of Boolean field.
- [KERNEL] Sorted cursor build for several tables have had some internal parameters wrong.
- [VSDK] VDK_AEVarChar class now is inherited from VDK_VarChar.
- [V4MD] n Text field with Bind was written one more byte, Director 6 then display it as square.
- [V4MD] RemoveBaseObject(), ChangeTypeOfField() was broken.
- [V4WS] valRemoveBaseObject was broken.

/******

Version 1.8.7 b1 // Jan 2, 2001

////////// NEW \\\\\\\\\\\\\\\\\\\

- [V4MD] Debug messagesofV4MD now are sent to Message window of Director.
ValentinaDebugLevel now has second parameter UseMsgWindow on default it is true.
- [V4MD] CreateDatabase() and OpenDatabase() now return true on success.
- [V4MD] Function IsOpen(), which return true if database is open.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [V4MD] etPassword() now can remove password.
- [V4MD] RemoveBaseObject() now works.
- [VCOM] VField.GetString() now works.

/******

Version 1.8.6 final no changes.

Version 1.8.6 b28 // Dec 16, 2000

////////// CHANGES \\\\\\\\\\\\\\\\\\\

- [V4MD, V4WS, VXCMD] Field_GetTarget() now return name of Target BaseObject instead its reference.

////////// NEW \\\\\\\\\\\\\\\\\\\

- [VSDK,V4MD,V4RB,VXCMD] (Win) Implemented ErrorStrings.
- [VAPP] Error dialog
- [VAPP] Can open db with ANY Creator/Type by drag and drop of db icon on VAPP.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] If db files are from other platform, adding of new records into indexed fields didn't work.
- [KERNEL] Creation of new field in table with deleted records, was with bug.
- [All] (Win) Open(dbPath) now don't require extension ".vdb"
This is required for cross-platform code.
- [V4MD] if db Files are from other platform, GetMedia() crashes.
- [VXCMD] Cursor_GetRecords() work for text field now.

/*****/

Version 1.8.6 b27 // Dec 7, 2000

////////// CHANGES \\\\\\\\\\\\\\\\\\\

- [VSDK] Changed schema of protection. Instead of 2 Libs VDK + encrypted VDKx , now we have one LIB/DLL.
- [VSDK] Instead of init calls:
 VDK_Database::InitStaticMembers();
 MakeDatabaseCache();
must be used ValentinaInit(ulong inCacheSize, char* inMacSN, char* inWinSN);
To finish work with Valentina use ValentinaShutDown();

////////// NEW \\\\\\\\\\\\\\\\\\\

- [VSDK] Now we have for Windows LIBs for VC++ and CodeWarrior, and DLL, which can be used with ANY C++ compiler.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [VAPP] "get deletion control of field ..." now works correctly.

/*****/

Version 1.8.6 b24-b25 // Nov 26-28, 2000

////////// NEW \\\\\\\\\\\\\\\\\\\

- [VSDK] Added FBL_Version.h file and FBL_Version.r files and global constants in FBL_Globals.cpp
- [VSDK] VSDK for MAC now includes FBL.rsrc and OBL.rsrc files
- [VXCMD] Kernel made as shared library to get high speed of call of XFCN functions.
- [V4WS] New functions:
 valGetDatabaseName(dbRef)
 valsValidDatabaseRef(dbRef)
 valCursor_ImportASCII(CursorRef, Path, [fldDelimiter], [recDelimiter]
 valCursor_ExportASCII(CursorRef, Path, [fldDelimiter], [recDelimiter]

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] TEXT field always have to think that it delete value indexed by words. Now it checks flag.
- [KERNEL] CloseDatabase() now clean up internal pointers, so they can be reused.

/*****/

Version 1.8.6 b23 // Nov 16, 2000

////////// NEW \\\\\\\\\\\\\\\\\\\

- [VXCMD] Version(), Database_SetTimeOut(), Field_SetValue(), Field_GetValue().

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [VXCMD] Crash if you call VXCMD functions after ShutDown.

/******
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Version 1.8.6 b21 **// Nov 13, 2000**

////////// CHANGES \\\\\\\\\\\\\\\\\\\

- [V4WS] All functions which have use dbName now require dbRef, which must be received from valMakeNewDatabase() or valOpenDatabase().

////////// NEW \\\\\\\\\\\\\\\\\\\

- [V4WS] Debugging feature to log messages in Log window of WebSiphon or DCon window.

- [V4WS] valSetDebugLevel(Level, [useDCon])
valSetSchemaVersion(dbRef, Version)
valGetSchemaVersion(dbRef)
valSetDateFormat(dbRef, DTFormat, [DateSep], [TimeSep])
valGetDateFormat(dbRef)
valGetDateSep(dbRef)
valGetTimeSep(dbRef)
valFieldIsNull(fldRef)
valGetNameOfField(fldRef)

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [V4WS] Garbage at end of error string.

/******
/

Version 1.8.6 b20 **// Nov 6-9, 2000**

////////// NEW \\\\\\\\\\\\\\\\\\\

- [VXCMD] Functions: Database_SetSchemaVersion(), Database_GetSchemaVersion,
Database_SetDateFormat(), Database_GetDateFormat(), Database_GetTimeSep().
Cursor_IsValid().

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] If to store in a VarChar field a string with length close to maximal length of field can be crash.
- [KERNEL] 2 Bugs in the index ,on deletion or update in some cases we can get corruption of index.
- [VXCMD] Memory leaks and crashes fixed.

/******
/

Version 1.8.6 b19 **// Oct 29, 2000**

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] If a String field is indexed by words then search "NOT str" didn't works.
New algorithm resolve this problem and is much faster .

/*****/

Version 1.8.6 b16-b18 // Oct 26, 2000

////////// NEW \\\\\\\\\\\\\\\\\\\

- [KERNEL] Added 4 error constants to handle in VXCMD, V4WS plugins bad dbRef, boRef and CursorRef.
- [VSDK] VDK_BaseObject::Exists(VKDK_BaseObject* inBO)
- VDK_Cursor::Exists(VDK_Cursor* inCursor)

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] BLOB field on assigment of zero data do store them allocating a segment.
- [KERNEL] Bug in function SubStr().
- [KERNEL] VDK_Field::FindValue() sometimes do not correct search.
- Side effect in deletion of a record of One BaseObject related to Many BaseObject with RESTRICT type.
- [VSDK, V4RB] Order of creation of classes could cause wrong results.

/*****/

Version 1.8.6b15

////////// CHANGES \\\\\\\\\\\\\\\\\\\

- [KERNEL] Removed error constant 310. Now we have 2 constants:
kFBL_InvPageVarChar = 348 // inventory page of a VarChar field.
kFBL_InvPage = 372 // inventory page of an Index.

////////// NEW \\\\\\\\\\\\\\\\\\\

- [V4MD] VCursor.DropRecord function

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] Bug in VarChar field on deletion of page.
- [KERNEL] Bug in VarChar field on split of page.
- [KERNEL] Bug in String/VarChar and Text fields, can cause wrong index on REPLACE command.
- [KERNEL] On creation of new field in table with records, space for this field now is filled by zero.
- [KERNEL] DropRecord() now correctly works for cursor build as join.
- [V4WS] Removed conflict with WS resource.

/*****/

Version 1.8.6b14

////////// NEW \\\\\\\\\\\\\\\\\\\

- [KERNEL] Function to convert RDB-link into ObjectPtr link.
- [V4RB] VObjectPtr.ConvertFromRDB(inRDB_KEY as VField, inRDB_PTR as VField)
- [AS] command ConvertFromRDB

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [AS] 'format' command for BaseObject now consider parameters FROM and TO as optional.

/*****/

Version 1.8.6b12

////////// NEW \\\\\\\\\\\\\\\\\\\

- [KERNEL] Now VarChar indexing works in 10-30 times faster. For String also a little.

/*****/

Version 1.8.6b10

////////// NEW \\\\\\\\\\\\\\\\\\\

- [KERNEL] Error code: 310 Inventar page error.
- [KERNEL] Error code: 371 Fail to build index.
- [V4MD] New methods in VDatabase Xtra: GetSchemaVersion(), SetSchemaVersion()
- [AS] Now Picture field can be created via AS.
- [GUI] Now Picture field is enabled in the menu of field types.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] Method which use other method now works in cursor.
- [AS] For VarChar field now works: 'get type' 'get length'
- [AS] Now 'get method' works.

/*****/

Version 1.8.6b9

////////// NEW \\\\\\\\\\\\\\\\\\\

- [KERNEL] Password for database (temporary solution).
- [V4MD] Password for database (temporary solution).

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] Text field with no IndexByWords, don't works correctly if string > 128.

/*****/

Version 1.8.6b8

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] Crash on Import of file > 256MB.
- [KERNEL] Flag IsDurdy of cursor fields was not cleared after Add().

/*****/

Version 1.8.6b7

////////// NEW \\\\\\\\\\\\\\\\\\\

- [VSDK] VDK_Cursor.DropRecord() -- remove record from cursor, but don't delete it from original table.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] After SQL query with Sorting, immidate next deletion of record not correctly update index.

/*****/

Version 1.8.6b6

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [MacOS] removed dependency on QuickTime on launch, so now if you don't use VPicture field, you can start app on MacOS without QT.

/*****/

Version 1.8.6b5

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

/*****/

Version 1.8.6b4

////////// CHANGES \\\\\\\\\\\\\\\\\\\

- [VSDK] New file FBL_Globals.cpp, must be included into your project
- [VSDK] Now MoreFiles of Apple Computer is not included into VDK library, so you need include it into your project manually.
Use folder "MoreFiles" if you work with Universal Headers < 3.3.1.
Use folder "(MoreFiles_Car)" if you work with Universal Headers 3.3.1 or newer.

////////// NEW \\\\\\\\\\\\\\\\\\\

- [VSDK] New file FBL_Globals.cpp contains some new global constants which allows you tune
 - Creator and File Types for MacOS.
 - extensions of db files for MacOS and Windows.
- [VSDK] Class VDK_Cursor now has set of methods to get field with required type, for example GetBooleanField().

/*****/

Version 1.8.6b3

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] In page file (index and VarChar) on deletion of many records some cache blocks don't release what cause sometimes a crash.
- [KERNEL] On deletion of many records VarChar field fail.
- [KERNEL] On deletion of all records of table BLOB field become corrupted and start produce EOF error.
- [GUI] If there are many (hundreds) fields in BaseObject then header buttons of table don't scroll.

/*****/

Version 1.8.6b2

////////// NEW \\\\\\\\\\\\\\\\\\\

- [GUI] Open and Save dialogs now work with Navigation Service of MacOS

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] Leak on deletion of thread
- [AS] Leak in AS layer in commands Replace, Import.
- [AS] 'set field "ObjectPtr" to value' now works.

/*****/

Version 1.8.6b1

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] Fixed bug in the index on deletion record
- [KERNEL] Detected leak in parser of BaseObject Methods.
- [KERNEL] Fixed bug in the function RIGHT
- [KERNEL] Fixed bug in the function LOCATE
- [GUI] on MacOS 8.6 popup menu "Type" in DefineFields dialog is not disabled now.


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/*****/
Version 1.8.5b33

////////// NEW \\\\\\\\\\\\\\\\\\\

- [KERNEL]      Now works export of cursor built as join of several tables.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL]      Fixed bug which occur on 256, 512, ... MB
- [KERNEL]      if cursor is read only and no selected records there was error 'Can't update'
- [KERNEL]      Fixed bug in the REPLACE command
- [V4WS]        valGetLanguages() works as suggested by Remi Goux
- [V4WS]        Work error strings.
- [GUI]         in the Search layout limit on string length for edit field now 256

/*****/

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Version 1.8.5b32

////////// NEW \\\\\\\\\\\\\\\\\\\

- [AS]          Now works command 'delete records of cursor'

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL]      sorting for boolean field now works after update of a record.
- [KERNEL]      LLong and ULLong fields introduced in b31.
- [KERNEL]      Reading on MAC from Picture field of db made on PC.
- [AS]          flag unique in command 'make new field' now works.

/*****/

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Version 1.8.5b31

////////// NEW \\\\\\\\\\\\\\\\\\\

- [KERNEL]      Added 17 Date/Time functions:
                  DAYOFWEEK,WEEKDAY,DAYOFMONTH,DAYOFTIME,MONTH,YEAR
                  HOUR,MINUTE,SECOND,QUARTER,WEEK,
                  PERIOD_ADD, PERIOD_DIFF, TO_DAYS, FROM_DAYS, SEC_TO_TIME, TIME_TO_SEC

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL]      Another bug on import of TEXT files with PC end-line
- [KERNEL]      LLong and ULLong fields on search did not accept long long numbers.
- [KERNEL]      Export of BaseObject Methods now works.
- [KERNEL]      BaseObject Methods now can work with type TEXT.

/*****/

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Version 1.8.5b30

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL]      import of TEXT files with PC end-line
- [KERNEL]      VarChar, after deletion of all records using "DELETE ALL MARKED" was impossible add new records.

/*****/

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Version 1.8.5b29

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL]      sometimes crash on indexing of string fields if language is not English.
- [GUI]         Crash on export, introduced in b27


```

/*****/

Version 1.8.5b28

////////// NEW \\\\\\\\\\\\\\\\\\\

- [V4RB] Support picture field on Windows.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] now Valentina don't offer index VarChar and Stirng fields by words on default.
- [SQL] wrong error number if eror occuer inside of ()
- [SQL] now String and VarChar fields can be compared in RDB-link
- [V4RB] resource of error strings now linked to compiled application.

/*****/

Version 1.8.5b27

////////// NEW \\\\\\\\\\\\\\\\\\\

- [KERNEL] Implemented 2 new functions:
double ROUND(double X, [int Y])
double TRUNCATE(double X, [int Y])
- [AS] new command 'do script'

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] bug in VarChar field on cross-platform moving of files.

/*****/

Version 1.8.5b26

////////// NEW \\\\\\\\\\\\\\\\\\\

- [GUI] Text field now is displayed in a scrollable view.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] now Date and Time works in strings of BaseObject Methods.
as result you can use syntax "date_fld LIKE '../03/2000'
- [SQL] introduced in b25
- [V4RB] again works V4RB errors numbers broken in b25.
- [GUI] Don't crop text for Text, and long String/VarChar fields.

/*****/

Version 1.8.5b25

////////// NEW \\\\\\\\\\\\\\\\\\\

- [AS] now returns error strings for Valentina errors.
- [AS] command 'SQL select' now returns Valentina error, object of cursor in this case is not constructed.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] improoved speed of VarChar fields and indexes
- [SQL] LIKE works with Methods of BaseObject

/*****/

Version 1.8.5b22

////////// NEW \\\\\\\\\\\\\\\\\\\

- [KERNEL] support in function if() comparison to NULL:
if(a is NULL, b, c)
if(a is not NULL, b , c)
- [KERNEL] new function ifnull(a, b)
- [V4MD] on MacOS now works error strings.

/*****/

Version 1.8.5b21

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] Fixed several bugs with work of operators plus and minus in Methods of BaseObject.

/*****/

Version 1.8.5b20

////////// CHANGES \\\\\\\\\\\\\\\\\\\

- [KERNEL] Changed VarChar filed, so now it don't take RAM at all.
- [KERNEL] Changed cache of Valentina so now must gone away old known bug.
- [KERNEL] BLOB and Text field now consider assignment of data with zero size as deletion of BLOB-record.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [SQL] If you build join by several tables (more that 2) it works correctly always.

/*****/

Version 1.8.5b14

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] Crash on adding of many records at points 256, 512, ... MB of disk file.
- [AS] in the command 'sort' now works order specifcation.
- [AS] make new records with data { 0, ... } accept for ObjectPtr zero now and set it to zero value.

/*****/

Version 1.8.5b5

////////// NEW \\\\\\\\\\\\\\\\\\\

- [V4MD] New global Handler
*ValentinaErrorString
- [V4MD] New Handler of VDataBase Xtra
IsNull object me, integer fldRef
- [V4RB] Class VDataBase now has property 'ErrString'

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [SQL] query "WHERE RecID = N" now works fine with any N.
It also don't display deleted records.

/*****/

Version 1.8.3 // May 28, 2000

////////// CHANGES \\\\\\\\\\\\\\\\\\\

- [KERNEL] Changed format of ".vdb" file to be able store text of Methods.

////////// NEW \\\\\\\\\\\\\\\\\\\

- [V4RB] Class VField now has property 'BaseObject'
- [V4RB] Class VObjectPtr now has method
 SetTarget(inBaseObject as VBaseObject, inDeletionControl as Integer)
which allow you specify deferred assign of pointed BaseObject for creation of database structure
with recursive relations between 2 or more tables.
- [V4RB] Class VCursor now has a new group of methods to access fields with typecasting to make
your code smaller, for example:
 BooleanField(index as integer) as VBoolean
 BooleanField(name as string) as VBoolean
 ByteField(index as integer) as VByte
 ByteField(name as string) as VByte

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] Import of Coma-separated file which has RETURNS inside of comas, now works.
- [KERNEL] VarChar field on update
- [KERNEL] Indexing by words of Text or String field if all record of field are empty cause wrong index
and as a result infinite loop of reindexing.
- [KERNEL] Minor bug in BLOB field: if you try read just only written value of BLOB field before Add
then internal flag "Dirty" is cleared and value is not added to the database.
- [SQL] Object DISTINCT sometimes did not work.
- [V4MD] Removed limit on size of SQL string in 1024 bytes.

/*****/

Version 1.8.2 // May 17, 2000

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] If table contains deleted records Boolean field do not correct search.
- [KERNEL] Deletion of many VarChar records cause problems.
- [KERNEL] Much more stable work if very low cache size.
- [KERNEL] Fixed bug in indexing by words algorithm.
- [SQL] Again works object DISTINCT broken before.
- [GUI] Introduced in 1.8.1 bug when progress dialog don't close after finish of operation.
- [GUI] Open of database with saved SearchSet
- [GUI] On switch of BaseObject SearchSet and SortSet menus are updated correctly.

/*****/

Version 1.8.1 // May 09, 2000

////////// CHANGES \\\\\\\\\\\\\\\\\\\

- [KERNEL] Cursor now is ReadOnly only if it has at least one Many table in join.

////////// NEW \\\\\\\\\\\\\\\\\\\

- [V4RB] classes VLLong and VULLong
- [V4RB] class VBaseObject now has the property 'DataBase'

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] bug introduced in 1.8, cause modification of indexes on open.
 As a result -- reducing effectiveness of kernel and sometimes problems with locked db.

- [AS] 'make new record' now return correct reference on new record.
- [AS] After 'make new record' class Record point on new record.
- [AS] now correctly works errors handling, so you can use try ... on error number

/*****/

Version 1.8 // May 01, 2000

////////// NEW \\\\\\\\\\\\\\\\\\\

- [KERNEL] support of VarChar field
- [KERNEL] support of LLong (long long) and ULLong (unsigned long long) types.
- [KERNEL] A DataBase now has properties:
 'DateFormat' - values are 0-"MM/DD/YYYY", 1-"DD/MM/YYYY", 2- "YYYY/MM/DD"
 'DateSep' - e.g. "/"
 'TimeSep' - e.g. ":"

- [KERNEL] Works with databases located on locked volumes, e.g. CD-ROM
- [KERNEL] Implemented creation of temporary file in the system tmp folder
 if the database is in the ReadOnly mode.
- [KERNEL] Picture field on the MAC now can work with JPGs stored as QT PICT,
 as well as with JFIF file (made for example by PhotoShop).

- [SQL] (!!!) Support of RDBMS relations:
 "WHERE Person.name = Car.OwnerName",
 i.e relation of tables not via ObjectPtr but via any type of fields.
 This works for self recursion also.

- [V4RB] class VVarChar
- [V4RB] Class VCursor now has a constructor:
 VCursor(inDataBase as VDataBase, inSQLstr as string)
 This allow you to make subclasses of VCursor.
- [V4RB] Now ValentinaDebugON accepts parameter DebugLevel
 ValentinaDebugON(inLevel as integer) as Integer
 1 - display dialog on error
 2 - monitor all V4RB function calls in "DCon" on MacOS

- [GUI] Script menu
- [GUI] Display dialogs if you try to modify read-only database.
- [GUI] Related Browser now works with self-recursion table.

- [AS] For Class 'database' add property 'date format', 'DateSep', 'TimeSep'
- [AS] For Class 'cursor' added property 'ReadOnly'.

/*****/

Version 1.7.97

////////// CHANGES \\\\\\\\\\\\\\\\\\\

- [V4RB] VCursor.Delete now returns Boolean.
- [V4RB] SetPicture(Pic as Picture, [inQuality as Integer])
- [V4RB] Now ValentinaDebugON accepts parameter DebugLevel
ValentinaDebugON(inLevel as integer) as Integer
 - 1 - display dialog on error
 - 2 - monitor all V4RB function calls in "DCon" on MacOS
- [V4RB] Updated ValentinaUtilities module.

////////// NEW \\\\\\\\\\\\\\\\\\\

- [V4RB] Class VCursor now has a constructor
VCursor(inDataBase as VDataBase, inSQLstr as string)
This allow you to make subclasses of VCursor.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [V4RB] again works Error dialog

/*****/

Version 1.7.96

////////// CHANGES \\\\\\\\\\\\\\\\\\\

- [KERNEL] (!!!) Field of BaseObject "ID" now has name "RecID".

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] sometimes UPDATE do not update index.
- [V4WS] valSetFlag()
- [V4WS] Crash if field functions get NULL as fldRef
- [V4WS] Fixed Set/Get of ObjectPtr values.
- [AS] Now works 'get record N of Selection'
- [AS] Now works 'get records of Selection'
- [AS] Now works 'get records of Cursor'

/******

Version 1.7.92

////////// CHANGES \\\\\\\\\\\\\\\\\\\

- [ALL] New names for deletion control constants. New names better correspond to SQL standard.
Do "Search/Replace" in your code.

[AS] leave_many => set_null, delete_many => cascade, cant_if_many => restrict

[C++] VDK_Leave => kFBL_SET_NULL
VDK_Delete => kFBL_CASCADE
VDK_Cant => kFBL_RESTRICT

- [ALL] changed name of Cursor property 'CanBeUpdated' on 'read only'.

////////// NEW \\\\\\\\\\\\\\\\\\\

- [AS] For Class 'database' add property 'date format', 'DateSep', 'TimeSep'
- [AS] For Class 'cursor' added property 'ReadOnly'.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] If delete from table any field BEFORE a BLOB, TEXT, Picture or VarChar then database become corrupted.

/******

Version 1.7.91

////////// CHANGES \\\\\\\\\\\\\\\\\\\

- [V4RB] method GetBaseObjectRecID() removed, must be used "SELECT ID, ... " instead.

////////// NEW \\\\\\\\\\\\\\\\\\\

- [KERNEL] support of VarChar field
- [KERNEL] support of LLong (long long) and ULLong (unsigned long long) types.
- [V4RB] class VVarChar
- [GUI] Script menu

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] Work with locked database and/or with database on locked volume.
- [KERNEL] Date and Time fields now works on Windows.
- [SQL] inside of string constant single quote is supported by back slash 'man\'s child'
- [SQL] if the field start with "from..." then was error.

/*****/

Version 1.7.8

////////// CHANGES \\\\\\\\\\\\\\\\\\\

- [SDK] Global methods ::GetString() and ::SetString() renamed to
::FBL_GetString() and ::FBL_SetString().

Class VDK_Field now has methods GetString() and SetString(),
which at first prepare gDTFormat variable and then call
bottleneck methods ::FBL_GetString() and ::FBL_SetString().

You must not call in your C++ code ::FBL_GetString() and ::FBL_SetString().
Call instead VDK_Field::GetString() and VDK_Field::SetString().

////////// NEW \\\\\\\\\\\\\\\\\\\

- [KERNEL] A DataBase now has properties:
'DateFormat' - values are 0 "MM/DD/YYYY", 1 "DD/MM/YYYY", 2 "YYYY/MM/DD"
'DateSep' - e.g. "/"
'TimeSep' - e.g. ":"

Each opened database can have independent date format.
Date format affects how date and time values will be converted to strings,
including strings of SQL queries and import/Export to text files.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] Table.PrevRecord() don't throw error if table is empty.
- [KERNEL] Deletion of last physical record in table works correctly.
- [KERNEL] Update of Nullable field now store new value correctly.
- [SQL] now works "... not(left(fld, n) = 'str') ..."
- [SQL] works broken in 1.7.6 "where fld NOT NULL"

/*****/

Version 1.7.7

////////// CHANGES \\\\\\\\\\\\\\\\\\\

- [V4MD] Type "ObjectPointer" now has name "ObjectPtr"
- [V4WS] Type "ObjectPointer" now has name "ObjectPtr"

- [KERNEL] Type TEXT now allows set flag "Indexed by words" OFF.
 This allows you do sorting on such TEXT fields.
 If string in this TEXT field is longer of 255 chars then only
 first 255 chars are used for indexing and sorting.

////////// NEW \\\\\\\\\\\\\\\\\\\

- [GUI] Display dialogs if you try to modify read-only database.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] For read-only database sorting now also can use temporary
 system file.

- [SQL] RDB-links now works with String fields also
- [SQL] Fixed another fresh bug of 1.7.6 in Cursors
- [SQL] Work with square brackets [] fixed (introduced in 1.7.-

/*****/

Version 1.7.6

////////// NEW \\\\\\\\\\\\\\\\\\\

- [KERNEL] Fixed a bug in OpenDataBase which prevent from opening of locked
 database (i.e. ReadOnly mode).
- [KERNEL] Implemented creation of temporary file in the system tmp folder
 if the database is in the ReadOnly mode.
- [KERNEL] Picture field on the MAC now can work as with JPGs stored as QT PICT,
 so as JFIF file (made for example by PhotoShop).

- [SQL] (!!!) Support now RDBMS relations:
 "WHERE Person.name = Car.OwnerName",
 i.e relation of tables not via ObjectPtr but via any type of fields.
 This works for self recursion also.

- [GUI] Related Browser now works with self-recursion table.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] RegEx search for TEXT field (was visible only on Windows ?!)
- [KERNEL] Memory leaks on a BaseObject destruction (fields was not destroyed).

- [SQL] Fixed bugs in join of more than 2 tables introduced in 1.7.5.

Version 1.7.5

////////// CHANGES \\\\\\\\\\\\\\\\\\\

- [V4RB] Properties 'FieldsCount' and 'RecordsCount' of classes VCursor and VBaseObject now has names 'FieldCount' and 'RecordCount'.
- [V4RB] Methods of VBaseObject FirstRecord and LastRecord now return Boolean.
- [V4RB] Property VCursor.CurrentRecord now has name CurrentPosition.
- [V4RB] VBLOB.DeleteData() now don't returns nothing.

////////// NEW \\\\\\\\\\\\\\\\\\\

- [KERNEL] Method SetPicture of field Picture has the parameter "quality" for jpeg compression.
- [SQL] Support aliases for Table names:
"SELECT a.* FROM Person a WHERE...."
- [SQL] Support queries with self-recursion
"SELECT * from Person a, Person b WHERE a.ID = b.PTR"
- [AS] BaseObject and Cursor on command 'make new record with data {list}' perform SetBlank if a list presents.
- [AS] Cursor now understand command 'update'
- [AS] Cursor now understand command 'blank'
- [GUI] Related Browser now works with 2 tables which have more than one link between them.
- [GUI] Popup menu in a Browser now shows items as [LinkName]ObjectName

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] Import of text file with FileMaker's chr(1- correctly.
- [KERNEL] Cursor.AddRecord now set up value for "ID" field to the RecID of new record, so field "ID" can be used.
- [KERNEL] String and Text fields now correctly translate high part of ASCII table for Roman languages on transferring db files between platforms.
- [KERNEL] For Windows version CreateDataBase works correctly with ".vdb" extension in any string case.
- [KERNEL] Fixed bug introduced in 1.6.x on conversion from a String field to the Text field.
- [KERNEL] Conversion from field of any type to ObjectPtr fill values of all records for this field by zero.
- [KERNEL] If in the empty database a field is marked as indexed then on adding of first record we get corrupted index what cause reindexing on the next open of database.
- [KERNEL] Memory leak (40-60 bytes) on SQL search in the case if a result is empty.
- [KERNEL] Method Cursor.IsNull() returns correct value.
- [KERNEL] (Windows), now consider extension ".vdb" as case insensitive.
- [SQL] "SELECT *, ID" works
- [SQL] Query which compares a BLOB field to NULL or NOT NULL now don't crash.
- [AS] Property 'position' of the class cursor now works correctly.
- [GUI] Hidden floating windows are not automatically shown.

/*****/

Version 1.7.3

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] fixed another bug on 256 MB file overflow for very long BLOBs.
- [KERNEL] fixed crash when result of join is empty table.
- [GUI] in the input layout NULL values of numeric fields now are displayed as empty field instead zero.
- [GUI] in the input layout strings with more than 255 chars now display all chars (before only first 25-).

/*****/

Version 1.7.1

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] fixed bug on 256 MB file overflow.

/*****/

Version 1.7

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] Cursor.PrevRecord now don't change current record if we are at first record
- [KERNEL] Cursor.DeleteRecord works correctly
- [KERNEL] ULong fields, issue of numbers > 2.4 billions
- [KERNEL] String and Text fields indexed by words, adding of a new record with empty value for this field cause not correct modification of index, result => reindexing on the next open.
- [AS] bug introduced in 1.6
get count of fields -- did return one more field

/*****/

Version 1.6.3

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] Corruption of header of BLOB file if was deleted last record in table.
- [GUI] Displaying of double values now has high precision.
- [GUI] Not correct sometimes highlight of header button of field when it is sorted.
- [GUI] fixed bug introduced in 1.6.2 which have break RegEx search.

/*****/

Version 1.6.2

////////// NEW \\\\\\\\\\\\\\\\\\\

- [KERNEL] Now there is a new field of type Picture, which store PICT files with JPG compression.
- [SQL] now you can select empty TEXT field:
 "WHERE text_fld = " "
- [AS] added events Import / Export for Cursor.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] "SELECT * from Table"
 minor bug, which cause calling MacsBug of latest version if one of the field is TEXT

/*****/

Version 1.6.1

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] 2 bugs in the indexes.
- [SQL] now works correctly a statement "where str >= a and str <= b"
- [GUI] Search Layout bug: on research condition go to the next field.

/*****/

Version 1.6

////////// CHANGES \\\\\\\\\\\\\\\\\\\

- [KERNEL] Cursors now are independent, i.e. each has its own memory buffer.
- [KERNEL] Cursors now have more effective implementation.
- [SQL] Now you can SELECT ID fields in the SQL queries.
 where *, ID
 from Person
 where ...
- [SQL] Now you can SORT by fields which are not selected:
 select byte_fld
 from Person
 order by short_fld

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [GUI] sort dialog sometimes give crash
- [GUI] when 2 or more open databases, "Define Fields" dialog always is opened for the same BaseObject.
- [GUI] now Valentina doesn't allow user create a field with name "ID".

/*****/

Version 1.5.9

////////// CHANGES \\\\\\\\\\\\\\\\\\\

- [KERNEL] Now MacOS version consider .vdb extension as optional for description file of database. So if you keep a database in one file then you don't have extension at all (true MAC way :-)

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] on deletion of a field "F" of the table
 - IF a next field "Fn" has index and was used for sort
 - and IF you open database and have not use this field "Fn" during this seance then database becomes corrupted.
- [KERNEL] "ID" fields issues
 - crash on attempt to sort by "ID" field
 - crash on using "ID" field in a complex query where ID = 1 and str_fld = 'ggg'
- [KERNEL] not correct result of COMPLEX search (AND/OR) in case if one expression has empty result set was returned empty result.
- [KERNEL] update of BLOB and TEXT fields. was not correct if BLOB field is updated with a smaller context.

/*****/

Version 1.5.8

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] issues on coma and quotes inside quoted string for import/export of Coma-Separated text file.
- [KERNEL] bug in the database cache. Crash, which occur, on import to the table with many fields (100-260).
- [KERNEL] IndexedByWords now correctly skip punctuation characters
- [KERNEL] Delete all records in the table bug fixed.
- [SQL] "ORDER BY" several fields ignores last field
- [AS] Command 'format' now ignores trail fields of cursor, which are not specified by '%' in the format string.
- [AS] added type coercion for parameter 'hide GUI' of command 'open'.
- [GUI] if in the Developer Environment delete BaseObject which before was selected in the User Environment to be displayed in a Browser, then on switch to the User Environment crash fixed.

/*****/

Version 1.5.7

////////// CHANGES \\\\\\\\\\\\\\\\\\\

- [KERNEL] Import now can import text file with various number of fields per line.
- [KERNEL] Import of Coma-Separated file now removes quotes.
Export to Coma-Separated file adds quotes.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [SQL] bug with syntax: "WHERE fld like 'sss' and not fld LIKE 'sss'"
- [SQL] bug on search of empty strings "WHERE string_fld = " "
- [KERNEL] visible in AppleScript: if store in a string field string longer than field then there is no end-zero.

/*****/

Version 1.5.6

////////// NEW \\\\\\\\\\\\\\\\\\\

- [KERNEL] SegmentSize of BLOB field now can be as small as 128 bytes.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] corruption of database on changing of type of field
from String to the TEXT when database is stored in the one disk file.
- [KERNEL] ignoring case in the RegEx for single-byte languages, which use top part of ASCII table,
(for example, Russian).

/*****/

Version 1.5.5

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] bug on dynamic changing of an index with very high repetition of a value

/*****/

Version 1.5.4

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [KERNEL] a few bugs related with big Strings > 256 bytes.
(indexing, displaying, updating)

/*****/

Version 1.5.2

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- [GUI] double click on the database file opens database document
- [GUI] button Create is disabled on open of DefineFields dialog
- [GUI] fixed crash on deletion of base object

/*****/

Version 1.5

////////// NEW \\\\\\\\\\\\\\\\\\\

- [KERNEL] Support of importing to the Text field.
- [SQL] Beginning with Valentina ver 1.5, you can use SQL to query a database from AppleScript.
 This new feature significantly simplify scripts and increase performance.
 By single command you can: select fields, define their order, specify search conditions and
 sort order for found records.
- [SQL] New class 'cursor' -- result of SQL query.
- [SQL] RegEx search is now faster and can be case insensitive.
 "==.(?i)55\\Z"
- [GUI] a powerful visual browser to quickly create object oriented relational databases.

/*****/

Version 1.3

In this version significantly expanded TEXT features of Valentina:

- String field can be up to 65535 bytes (recommended up to 1000 bytes).
- new type of field - TEXT, which is a special BLOB with text context. Text field can be indexed
and, as a result, searched. Text field also supports international features exactly as String field.
- Powerful regular expression search as for String so and for TEXT fields with syntax
similar to Frontier or Perl. The regular expression condition must start with "==", for example "==.55\\Z"
- String field (optionally) and TEXT fields (always) can be indexed by words, like FileMaker.
- command 'format' now has the flag 'text to html' which force Valentina to convert context of TEXT field
to HTML form. This means that it will add paragraph tags <p> ... <p> and
.
- new record now can be made by one AppleEvent: make new record with data { a, b, c } at end

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- bug of memory cache fixed.
- bug in the 'format' command
- bug on search of string field if the searched string contains "or", "and" substrings

/*****/

Version 1.2.3 (June 22, 1999)

- the return type of the command 'format' now is 'text' instead international text.
It still can work with international text but works more correctly.

/*****/

Version 1.2.2 (June 16, 1999)

////////// NEW \\\\\\\\\\\\\\\\\\\

- [AS] a new command 'format' which allows you to format selected records.
Very useful for WEB masters.

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- significantly optimized performance of exporting of several fields of the table;
- exception on creation of Nullable field;
- importing of empty value for field with type date;
- correct import/export of Nullable fields;
- unhandled exceptions which cause in switch to MacsBug;
- crash on database open with more than 51 internal files;

/*****/

Version 1.2.1 (May 12, 1999)

!!! IMPORTANT !!!:

If you have a database from an earlier version of Valentina,
do these steps before you open it with Valentina 1.2.1:

- make a backup copy of your database;
- rename the files of your database by hand as follows:
DBName -> DBName.vdb
DBName.data -> DBName.dat
DBName.blob -> DBName.blb
DBName.ind -> DBName.ind
- change your scripts to add the extension ".vdb" wherever you refer the database file.
This is required to be compatible with Windows.

////////// NEW \\\\\\\\\\\\\\\\\\\

- ability to get group of found records via single AppleEvent;
- support of NULLs (empty value of the fields);
- deletion control of related records now has 3 options:
- leave related many records;
- delete related many records;
- can't delete if related many;
- more sophisticated search;
- language for the tString fields can be specified as string, like "German" or "Japanese";
- new internal format of BLOB;

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\

- crash on open of database with indexed international String field.

/*****/

Version 1.2:

- international support;
 - multiple open databases;
 - fast access to the values of the fields and fast update of values of the fields;
 - reduced memory requirements for sorting at least 30%;
 - reduced memory requirements per open database from 100Kb to almost zero.
-
- command: 'delete records' (delete all records in the Table);
 - command: 'delete' (delete current record of Table);
 - command: 'flush' (database or table)

////////// FIXED BUGS \\\\\\\\\\\\\\\\\\\\\\\

- sort of empty selection didn't return any result, now it returns empty selection;