

New features and customer reported issues fixed in RAD Studio 10.3

Abstract: List of new features and customer reported issues fixed in RAD Studio 10.3 Rio.

RAD Studio 10.3 is the ultimate IDE with features both C++ and Delphi developers love: design, code, debug, and test for cross-platform deployment with native performance.

RAD Studio 10.3 consists of new features, enhancements and bug fixes.

Key RAD Studio 10.3 Features

New Language Features for Delphi and C++

- The first additions to the Delphi language in several years, the new Delphi language features provide more flexibility when coding, and address top Delphi language feature requests from our power users.
- C++17 for Win32 support: Part of our progressive compiler upgrade, developers can now use the latest C++ language features and compiler optimization for better and faster code, and make use of more third-party C++ libraries to reduce coding when targeting our most used C++ platform, Windows 32-bit.

Contents

Key RAD Studio 10.3 Features

- New Language Features for Delphi and C++
- Extensive IDE Modernization
- Key Windows Enhancements
- Key FireMonkey Platform Enhancements
- Expanded RAD Server Support

List of publicly reported bugs fixed in 10.3

See Also

Extensive IDE Modernization

- RAD Studio 10.3 includes a new light theme and an updated dark theme, and an improved look and feel of the main window and several key dialogs for a more modern style with an emphasis on readability and usability for long periods of time.
- Significantly improved code completion for C++, providing better results for developer productivity, and using a new asynchronous architecture to allow users to keep typing as results are calculated.

Key Windows Enhancements

- With the new VCL High DPI ImageList control in 10.3, developers building VCL Windows applications can fully support multi-resolution, pixel perfect images on all controls, as well as any custom drawing requiring scaled images for multiple resolution monitors.
- We've also expanded the number of Windows APIs that VCL and FireMonkey developers can use in their applications, including a new ready-to-use component for enabling in-app purchases and trial mode in Windows 10 Store apps.

Key FireMonkey Platform Enhancements

- Android Z-Order support in RAD Studio 10.3 provides support for using FireMonkey styled controls such as buttons, labels, and checkboxes with natively rendered controls like the browser and map control on the same form.
- Native presentation for TCalendar, TEdit and TSwitch on Android for better user interface interaction and performance.
- Developers can now build Android applications that meet Google's new requirement of targeting API level 26 and iOS applications that support iOS 12.

Expanded RAD Server Support

- Our multi-tier solution includes new ready to use components for mapping database queries to URL resources, offering direct response JSON production with no additional coding required by the developer. This also speeds up the process of building RAD Server backends for Sencha Ext JS web applications.

For a detailed list of new features, please visit the [What's New page](#).

List of publicly reported bugs fixed in 10.3

This release also includes additional enhancements throughout various product areas and fixes for over 490 publicly reported bugs.

Summary	Component/s	QP/QC
Mustang Peak Listview install out of GetIt failed	3rd Party	RSP-19568 (https://quality.embarcadero.com/browse/RSP-19568)
IP Works! V9 C++ Builder Edition not installable for Tokyo	3rd Party, Install	RSP-20176 (https://quality.embarcadero.com/browse/RSP-20176)
Problème de link avec TIdSMTP - link problem with TIdSMTP in C++	Compiler, Compiler\C++	RSP-18297 (https://quality.embarcadero.com/browse/RSP-18297)
Fileprovider framework seems to be missing on iOS32 when using C++ Builder	Compiler, Compiler\C++	RSP-19371 (https://quality.embarcadero.com/browse/RSP-19371)
ICE: Internal compiler error: C0000005 @ Android and IOS fail , WIN ok	Compiler, Compiler\C++	RSP-19884 (https://quality.embarcadero.com/browse/RSP-19884)
[bcciosarm Fatal Error] CoreFoundation.h(17): 'stdarg.h' file not found (on 32 bit build iOS)	Compiler, Compiler\C++	RSP-20432 (https://quality.embarcadero.com/browse/RSP-20432)
Exe created with C++ CLANG 32Bit compiler crashes with access violation, but no problem with classic C++ 32Bit compiler	Compiler, Compiler\C++	RSP-21005 (https://quality.embarcadero.com/browse/RSP-21005)
long __fastcall function compiled with clang crashes	Compiler, Compiler\C++	RSP-21358 (https://quality.embarcadero.com/browse/RSP-21358)
[C++][BCC64][EH] Resource leaks on Exception	Compiler, Compiler\C++, Compiler\C++\CLANG	RSP-11916 (https://quality.embarcadero.com/browse/RSP-11916)

		dero.com/browse/RS-P-11916)
[C++][CLANG] Enabling debug info disables all optimizations	Compiler, Compiler\C++, Compiler\C++\CLANG	RSP-16931 (http://quality.embarcadero.com/browse/RS-P-16931)
Clang - Synchronous Exception rethrow ends in External Exception EEEFACE	Compiler, Compiler\C++, Compiler\C++\CLANG	RSP-18352 (http://quality.embarcadero.com/browse/RS-P-18352)
C++[Win64][cmath][ilink64 Error] Error: Unresolved external 'trunc' referenced	Compiler, Compiler\C++, Compiler\C++\CLANG	RSP-18822 (http://quality.embarcadero.com/browse/RS-P-18822)
Invalid argument in function VarArrayLowBound	Compiler, Compiler\C++, Compiler\C++\CLANG	RSP-19920 (http://quality.embarcadero.com/browse/RS-P-19920)
Unresolved external when using TJSONString	Compiler, Compiler\C++, Compiler\C++\CLANG, Compiler\C++\CLANG\Delphi interop	RSP-16578 (http://quality.embarcadero.com/browse/RS-P-16578)
TCppWebBrowser broken with bcc32c in 10.2.2	Compiler, Compiler\C++, Compiler\C++\CLANG, Compiler\C++\CLANG\Delphi interop, VCL\Win32	RSP-19680 (http://quality.embarcadero.com/browse/RS-P-19680)
Structure Window remains blank	Compiler, Compiler\C++, Compiler\C++\CLANG, Compiler\C++\CLANG\IDE Interaction	RSP-15384 (http://quality.embarcadero.com/browse/RS-P-15384)
[C++\BCC64] An Access Violation occurs when accessing "TPoint &MousePos" parameter of OnContextPopup event	Compiler, Compiler\C++, Compiler\C++\CLANG, Compiler\C++\CLANG\Runtime	113311
clang32/win64] Undefined Symbols when inspecting Application's members	Compiler, Compiler\C++, Debugger	RSP-13084 (http://quality.embarcadero.com/browse/RS-P-13084)

[Clang32] Unable to set breakpoint for Clang32 compiler	Compiler, Compiler\C++, Debugger	RSP-17132 (https://quality.embarcadero.com/browse/RSP-17132)
Error toggling after cancel TButton from form	Compiler, Compiler\C++, IDE, VCL	RSP-21407 (https://quality.embarcadero.com/browse/RSP-21407)
Access Violation in OnContextPopup by accessing MousePos	Compiler, Compiler\C++, RTL\C++, VCL	RSP-18325 (https://quality.embarcadero.com/browse/RSP-18325)
TDBGrid flickering of borders when scrolling records	Compiler, Compiler\C++, VCL	RSP-17733 (https://quality.embarcadero.com/browse/RSP-17733)
Function calls inside while expressions are not inlined	Compiler, Compiler\Delphi	53623
For-in codegen: Enumerator MoveNext calls are not inlined	Compiler, Compiler\Delphi	53737
In appropriate and misleading message when using a missing custom attribute in Win32. W1025 Unsupported language feature: 'custom attribute'	Compiler, Compiler\Delphi	76225
Rtti.TValue.FromVariant empty result for some types	Compiler, Compiler\Delphi	88982
Class property Current with class var as read specifier in the enumerator causes AV in the compiler	Compiler, Compiler\Delphi	92436
Can not pass Record param into anonymous Method	Compiler, Compiler\Delphi	101129
Record constructors fail when they initialize a string or a dynamic array.	Compiler, Compiler\Delphi	103941
const record parameter causes false "E2009 Incompatible types: 'Parameter lists differ'"	Compiler, Compiler\Delphi	112789
Add records Initialization/Finalization	Compiler, Compiler\Delphi	114752
[iOS64] Linker error using AudioBus SDK	Compiler, Compiler\Delphi	RSP-11802 (https://quality.embarcadero.com/browse/RSP-11802)
Implement constructors/destructors for records	Compiler, Compiler\Delphi	RSP-12788 (https://quality.embarcadero.com/browse/RSP-12788)
New syntax : Declare local variables with value	Compiler, Compiler\Delphi	RSP-14867 (https://quality.embarcadero.com/browse/RSP-14867)

		dero.com/browse/RS P-14867)
[ICE] Passing "Instance.Method" expressions as [ref] method pointer arguments	Compiler, Compiler\Delphi	RSP-16601 (https://qualit y.embarca dero.com/browse/RS P-16601)
Changes to OBJECT instance size do not affect parameters of methods declared earlier	Compiler, Compiler\Delphi	RSP-16619 (https://qualit y.embarca dero.com/browse/RS P-16619)
Bring back AnsiString string type to Delphi 10.2 Tokio, Linux compiler	Compiler, Compiler\Delphi	RSP-16968 (https://qualit y.embarca dero.com/browse/RS P-16968)
MacOS executables contain invalid __BSS/__bss section	Compiler, Compiler\Delphi	RSP-18818 (https://qualit y.embarca dero.com/browse/RS P-18818)
E2581 Backend error function return type does not match operand type of return inst!	Compiler, Compiler\Delphi	RSP-18986 (https://qualit y.embarca dero.com/browse/RS P-18986)
Serious formatting and layout issues after upgrading to 10.2 Tokyo	Compiler, Compiler\Delphi	RSP-19118 (https://qualit y.embarca dero.com/browse/RS P-19118)
Nested type used in generic causes AV	Compiler, Compiler\Delphi	RSP-19248 (https://qualit y.embarca dero.com/browse/RS P-19248)
Project fails to build for iOS 32 bit	Compiler, Compiler\Delphi	RSP-19279 (https://qualit y.embarca dero.com/browse/RS P-19279)
Project won't compile for iOS 64-bit	Compiler, Compiler\Delphi	RSP-19284 (https://qualit y.embarca dero.com/browse/RS P-19284)

		y.embarca ero.com/ browse/RS P-19284)
Can't assign values to TArray<> in class with SetLength procedure	Compiler, Compiler\Delphi	RSP- 19827 (htt ps://qualit y.embarca ero.com/ browse/RS P-19827)
C2489 Internal Error	Compiler, Compiler\Delphi	RSP- 19829 (htt ps://qualit y.embarca ero.com/ browse/RS P-19829)
F2084 Internal Error: C20334	Compiler, Compiler\Delphi	RSP- 19865 (htt ps://qualit y.embarca ero.com/ browse/RS P-19865)
F2084 Internal Error: URW1237 when generic record has overloaded methods	Compiler, Compiler\Delphi	RSP- 20153 (htt ps://qualit y.embarca ero.com/ browse/RS P-20153)
dcc64 implementation of floating point unary negation operator is broken for zero operand	Compiler, Compiler\Delphi	RSP- 20350 (htt ps://qualit y.embarca ero.com/ browse/RS P-20350)
Codegen for assignment of UInt64 true constant to double is incorrect	Compiler, Compiler\Delphi	RSP- 20351 (htt ps://qualit y.embarca ero.com/ browse/RS P-20351)
Compiler calculates field offset wrong	Compiler, Compiler\Delphi	RSP- 20389 (htt ps://qualit y.embarca ero.com/ browse/RS P-20389)
Random compiler error while compiling a package	Compiler, Compiler\Delphi	RSP- 20430 (htt ps://qualit y.embarca ero.com/ browse/RS P-20430)
64-bit compiler hangs	Compiler, Compiler\Delphi	RSP- 20715 (htt ps://qualit y.embarca ero.com/ browse/RS P-20715)

		ps://quality.embarcadero.com/browse/RSP-20715)
Constant value x = -99999e-9999 causes F2084 errors compiling other units	Compiler, Compiler\Delphi	RSP-21218 (https://quality.embarcadero.com/browse/RSP-21218))
Frequent Internal Compiler Errors	Compiler, Compiler\Delphi	RSP-21228 (https://quality.embarcadero.com/browse/RSP-21228))
Compile error when using type inference on enum in helper method	Compiler, Compiler\Delphi	RSP-21290 (https://quality.embarcadero.com/browse/RSP-21290))
Random error when using generics	Compiler, Compiler\Delphi	RSP-21356 (https://quality.embarcadero.com/browse/RSP-21356))
Dynamic array declared as const causes E2532	Compiler, Compiler\Delphi	RSP-21372 (https://quality.embarcadero.com/browse/RSP-21372))
Internal compiler error URW1237 in code that worked in previous versions	Compiler, Compiler\Delphi	RSP-21397 (https://quality.embarcadero.com/browse/RSP-21397))
Using Inc() and Dec() on UInt64 type of variables does not generate an Integer Overflow check (a call to @IntOver)	Compiler, Compiler\Delphi, Compiler\Delphi\CodeGen	59241
[dcc] Inconsistency between x86/x64 compilers for floating point comparison with quiet NaNs	Compiler, Compiler\Delphi, Compiler\Delphi\CodeGen	107231
[RAID 268468] Internal Error when E2168 occurs in record enumerator	Compiler, Compiler\Delphi, Compiler\Delphi\Execution	72237
Android-App not working anymore with Delphi 10.2	Compiler, Compiler\Delphi, FireMonkey, Linker	RSP-19478 (https://quality.embarcadero.com/browse/RSP-19478))
[dcc64 Fatal Error] asghtml.pas(2444): F2084 Internal Error:	Compiler, Compiler\Delphi, IDE,	RSP-

IRBB304	Linker	18146 (https://quality.embarcadero.com/browse/RSP-18146)
VCRuntime140.dll requirement with W64 apps	Compiler, Compiler\Delphi, Linker	RSP-16618 (https://quality.embarcadero.com/browse/RSP-16618)
Incorrect result TValue.AsVariant for Cardinal	Compiler, Compiler\Delphi, RTL\Delphi	RSP-18364 (https://quality.embarcadero.com/browse/RSP-18364)
TVirtualInterface incorrect arguments with procedure type	Compiler, Compiler\Delphi, RTL\Delphi	RSP-19311 (https://quality.embarcadero.com/browse/RSP-19311)
Problem Using Styles Compiling for VLC 64bit	Compiler, Compiler\Delphi, VCL	RSP-21444 (https://quality.embarcadero.com/browse/RSP-21444)
Save and load any TDataSet descendent to and from a stream	Data	RSP-13626 (https://quality.embarcadero.com/browse/RSP-13626)
TFDIBBackup/TFDFBBackup backup method doesn't work if Port <> 3050	Data	RSP-17343 (https://quality.embarcadero.com/browse/RSP-17343)
Support TRestClient and Array Parameters in a Get	Data	RSP-20398 (https://quality.embarcadero.com/browse/RSP-20398)
Add support for ODBC DRIVER 17 FOR SQL SERVER	Data	RSP-20525 (https://quality.embarcadero.com/browse/RSP-20525)

Add Support for MySQL 8.0 and MariaDB 10.3.5. They have been released for Production with New features like Sequences and CTE (Common Table Expressions)	Data	RSP-20735 (https://quality.embarcadero.com/browse/RSP-20735)
Time fields not implemented correctly for database that implement them	Data, Data\ADO	29997
[MySQL ODBC Provider] When assigning the CommandText of a query with parameters in code an invalid argument exception is raised.	Data, Data\ADO	107267
ADO - DateTime as SQL Parameter loses time part (very old bug)	Data, Data\ADO	RSP-16374 (https://quality.embarcadero.com/browse/RSP-16374)
Access Violation at address read of address 00000000	Data, Data\ADO	RSP-16942 (https://quality.embarcadero.com/browse/RSP-16942)
SignatureDoesNotMatch for TAmazonQueueService	Data, Data\Cloud	RSP-15113 (https://quality.embarcadero.com/browse/RSP-15113)
TAmazonAWS4Authentication should support except S3 service	Data, Data\Cloud	RSP-15702 (https://quality.embarcadero.com/browse/RSP-15702)
TAzureTableService.QueryEntitesXML function with NextPartitionKey or NextRowKey parameter returns error "One of the request input is not valid"	Data, Data\Cloud	RSP-16082 (https://quality.embarcadero.com/browse/RSP-16082)
No https support for GetBucket in TAmazonStorageService	Data, Data\Cloud	RSP-18694 (https://quality.embarcadero.com/browse/RSP-18694)
TAmazonStorageService.GetRegionFromEndpoint() should not return us-east-1 for virtual-hosted-style URL	Data, Data\Cloud	RSP-19519 (https://quality.embarcadero.com/browse/RSP-19519)
TAmazonStorageService.GetBucketInternal() does not supply	Data, Data\Cloud	RSP-

NextMarker		20445 (https://quality.embarcadero.com/browse/RSP-20445)
TAmazonStorageService does not handle exclamation marks and brackets in names correctly	Data, Data\Cloud	RSP-20537 (https://quality.embarcadero.com/browse/RSP-20537)
Using HTTPS with the Azure components on iOS yields a 403 Forbidden.	Data, Data\Cloud	RSP-20757 (https://quality.embarcadero.com/browse/RSP-20757)
TAmazonStorageService does not evaluate NextMarker correctly	Data, Data\Cloud	RSP-21154 (https://quality.embarcadero.com/browse/RSP-21154)
Memory Leak in TDSServerConnection for in-process connection	Data, Data\DataSnap	78696
Encounter "Invalid Pointer Operation" when access DataSnap service via in-process	Data, Data\DataSnap	78752
TDSHTTPWebDispatcher not working	Data, Data\DataSnap	88187
TDSServerMethodUserEventObject UserName property is not const	Data, Data\DataSnap	101133
Access violations when using class methods in datasnap server classes	Data, Data\DataSnap	103367
Error in TJsonString.ToString function	Data, Data\DataSnap	103674
DataSnap REST client fails to get a TStream back from the server but only on *.doc files	Data, Data\DataSnap	104404
DataSnap server using HTTPS - TDS CertFiles properties set at runtime are ignored	Data, Data\DataSnap	107516
[FireDAC] Usage of TJSONUnMarshal leads to crash by Exception in TEncoding.FreeEncodings on exit	Data, Data\DataSnap	120174
Delphi XE7/10 Seattle DataSnap OpenSSL Access Violation on finalization	Data, Data\DataSnap	RSP-12495 (https://quality.embarcadero.com/browse/RSP-12495)
Encounter "Invalid command handle" when consume more than one server method at runtime for in-process application	Data, Data\DataSnap	RSP-15202 (https://quality.embarcadero.com/browse/RSP-15202)
AV in overloaded execute method of tdbxcallback that accepts and returns a tobject	Data, Data\DataSnap	RSP-16849 (https://quality.embarcadero.com/)

		browse/RS P-16849
DataSnap authentication with firemoney client on android fails	Data, Data\DataSnap	RSP-20195 (https://quality.embarcadero.com/browse/RS P-20195)
DataSnap REST Application only allows 1 user	Data, Data\DataSnap	RSP-20216 (https://quality.embarcadero.com/browse/RS P-20216)
Datasnap TCP/IP connection timeout ignored	Data, Data\DataSnap	RSP-20262 (https://quality.embarcadero.com/browse/RS P-20262)
Add SecureProtocols to TDSRestConnection.HTTP	Data, Data\DataSnap	RSP-20764 (https://quality.embarcadero.com/browse/RS P-20764)
TSQLConnection.ValidatePeerCertificate-event is never called for https connection	Data, Data\DataSnap	RSP-21153 (https://quality.embarcadero.com/browse/RS P-21153)
DataSnap server using HTTPS - TDS CertFiles properties set at runtime are ignored	Data, Data\DataSnap	RSP-9844 (https://quality.embarcadero.com/browse/RS P-9844)
TDBCtrlGrid Invalid Operation Exception	Data, Data\DBCtrls	RSP-21351 (https://quality.embarcadero.com/browse/RS P-21351)
DBGrid show wrong value in calculated field (when Inserting values)	Data, Data\DBCtrls, Data\DBRtl	RSP-20288 (https://quality.embarcadero.com/browse/RS P-20288)
TDataSet has ambiguous overloads of PSExecuteStatement	Data, Data\DBRtl	RSP-12559 (https://quality.embarcadero.com/browse/RS P-12559)

		dero.com/browse/RSP-12559)
TIntegerField, TLongWordField and other types in Data.DB.pas not ready for Linux	Data, Data\DBRtl	RSP-17552 (https://quality.embarcadero.com/browse/RSP-17552)
[DB RTL] ftBCD is more slow in Delphi Seattle than in Delphi 2007	Data, Data\DBRtl	RSP-18569 (https://quality.embarcadero.com/browse/RSP-18569)
Starting from XE8 something got wrong inside the ClientDataset and/or lookup fields	Data, Data\DBRtl	RSP-20248 (https://quality.embarcadero.com/browse/RSP-20248)
Redundant code in Data.SqlTimSt.pas and Data.DBXPlatform.pas	Data, Data\DBRtl	RSP-20808 (https://quality.embarcadero.com/browse/RSP-20808)
FieldByName is used instead of FindField	Data, Data\DBRtl	RSP-20814 (https://quality.embarcadero.com/browse/RSP-20814)
Duplicate ftString entry in FireDAC Query Editor Parameters Data Type Combo Box	Data, Data\DBRtl, Data\FireDAC	RSP-19308 (https://quality.embarcadero.com/browse/RSP-19308)
TSQLQuery Open First	Data, Data\DBX	RSP-19350 (https://quality.embarcadero.com/browse/RSP-19350)
dbExpress - MS SQL Server 2017 - slow SELECT queries because of redundant metadata queries	Data, Data\DBX	RSP-19407 (https://quality.embarcadero.com/browse/RSP-19407)
FireDAC's Datasnap driver cannot deal with streams greater than 256KB	Data, Data\DBX, Data\FireDAC	RSP-20625 (https://quality.embarcadero.com/browse/RSP-20625)

		y.embarcadero.com/browse/RS-P-20625)
Duplicate ftString entry in FireDAC Query Editor Parameters Data Type Combo Box	Data, Data\FireDAC	RSP-12955 (https://quality.embarcadero.com/browse/RS-P-12955)
TFDPhysODBCDriverLink does not exist in 10.1 Berlin	Data, Data\FireDAC	RSP-14835 (https://quality.embarcadero.com/browse/RS-P-14835)
[FireDAC, FDStoredProc] ExecFunc Cause error:“Parameter 'Result' not found”	Data, Data\FireDAC	RSP-16230 (https://quality.embarcadero.com/browse/RS-P-16230)
FireDAC Cache error when all details are deleted	Data, Data\FireDAC	RSP-16247 (https://quality.embarcadero.com/browse/RS-P-16247)
[FireDAC] "Timeout expired" message instead of DB / FD specific message	Data, Data\FireDAC	RSP-16662 (https://quality.embarcadero.com/browse/RS-P-16662)
[FireDAC, ODBC] Bad performance using FD ODBC driver with SQL Server	Data, Data\FireDAC	RSP-17014 (https://quality.embarcadero.com/browse/RS-P-17014)
DateTime values are inconsistently handle in TMongoDocument	Data, Data\FireDAC	RSP-17049 (https://quality.embarcadero.com/browse/RS-P-17049)
Firebird Driver open connections one at a time causing Threaded servers to hung if connection fail to connect	Data, Data\FireDAC	RSP-17103 (https://quality.embarcadero.com/browse/RS-P-17103)
[FireDAC, MSAcc] FireDAC fails to call stored procedure on access database	Data, Data\FireDAC	RSP-17178 (https://quality.embarcadero.com/browse/RS-P-17178)

		ps://quality.embarcadero.com/browse/RSP-17178)
TIBDatabase move GetDatabaseInfo from private to protected	Data, Data\FireDAC	RSP-19148 (https://quality.embarcadero.com/browse/RSP-19148))
[FireDAC] "X is not a valid floating point value" error on numeric fields	Data, Data\FireDAC	RSP-19394 (https://quality.embarcadero.com/browse/RSP-19394))
FireDAC component TFDBatchMove event OnWriteValue with TFDBatchMoveDataSetWriter change converted TEXT BLOB values	Data, Data\FireDAC	RSP-19733 (https://quality.embarcadero.com/browse/RSP-19733))
FireDAC data type mapping for guid not working properly for Firebird	Data, Data\FireDAC	RSP-19755 (https://quality.embarcadero.com/browse/RSP-19755))
FDConnection no writes until close	Data, Data\FireDAC	RSP-19937 (https://quality.embarcadero.com/browse/RSP-19937))
Provide newer libsqlite.a for iOS	Data, Data\FireDAC	RSP-20082 (https://quality.embarcadero.com/browse/RSP-20082))
[FireDAC, ODBC] "Optional function not implemented" using PI ODBC driver	Data, Data\FireDAC	RSP-20165 (https://quality.embarcadero.com/browse/RSP-20165))
It's not possible to return function result from the TFDSQLiteFunction.OnFinalize event	Data, Data\FireDAC	RSP-20227 (https://quality.embarcadero.com/browse/RSP-20227))
Missing fallback to UnknownFormat in case of user defined base type	Data, Data\FireDAC	RSP-

in PostgreSQL		20251 (https://quality.embarcadero.com/browse/RSP-20251)
Firedac slow performance passing parameters to TFDQuery with ParamByName	Data, Data\FireDAC	RSP-20311 (https://quality.embarcadero.com/browse/RSP-20311)
Exception: [FireDAC][DatS]-32. Variable length column [PARAM_TYPENAME] overflow. when getting metadata from a mysql stored function that ahs as return a DOUBLE, Date, DateTime (withotu size and precision)	Data, Data\FireDAC	RSP-20319 (https://quality.embarcadero.com/browse/RSP-20319)
FireDac CopyDataSet give exception on multiple nested datasets	Data, Data\FireDAC	RSP-20362 (https://quality.embarcadero.com/browse/RSP-20362)
TFDPhysCommandGenerator does not consider leading spaces in input commands	Data, Data\FireDAC	RSP-20403 (https://quality.embarcadero.com/browse/RSP-20403)
PostgreSQL query returning incorrect date	Data, Data\FireDAC	RSP-20629 (https://quality.embarcadero.com/browse/RSP-20629)
TFDMemTable raise the error "Could not convert variant of type (Null) into type (Integer)"	Data, Data\FireDAC	RSP-20662 (https://quality.embarcadero.com/browse/RSP-20662)
Firedac Autocommit doesn't work properly	Data, Data\FireDAC	RSP-20782 (https://quality.embarcadero.com/browse/RSP-20782)
Can not execute a SQL Server overloaded stored procedure with FireDAC	Data, Data\FireDAC	RSP-20837 (https://quality.embarcadero.com/browse/RSP-20837)

TFDStoredProc can not open MySQL Stored Procedure with readonly mode	Data, Data\FireDAC	RSP-20882 (https://quality.embarcadero.com/browse/RSP-20882)
Firebird 3 embedded does not work with FireDAC	Data, Data\FireDAC	RSP-20919 (https://quality.embarcadero.com/browse/RSP-20919)
TFDTable.SetRange / IndexName	Data, Data\FireDAC	RSP-21183 (https://quality.embarcadero.com/browse/RSP-21183)
TFDEventAlerter Sample does not work with SQL Anywhere	Data, Data\FireDAC	RSP-21220 (https://quality.embarcadero.com/browse/RSP-21220)
Truncated strings for Informix LVarchar types	Data, Data\FireDAC	RSP-21242 (https://quality.embarcadero.com/browse/RSP-21242)
FireDAC generates wrong SQL for TFDTable.CreateTable against FireBird database	Data, Data\FireDAC	RSP-21256 (https://quality.embarcadero.com/browse/RSP-21256)
FireDAC and PostgreSQL: Numeric columns returned by WITH clause gets randomized values	Data, Data\FireDAC	RSP-21268 (https://quality.embarcadero.com/browse/RSP-21268)
Wrong error message from FireDAC whe opening TFDTable with no TableName	Data, Data\FireDAC	RSP-21423 (https://quality.embarcadero.com/browse/RSP-21423)
Update from Delphi 10.1 to 10.2.3 causes FireDAC ORA-12704:ORA-12704: character set mismatch	Data, Data\FireDAC	RSP-21454 (https://quality.embarcadero.com/)

		browse/RS P-21454)
FireDAC FunRand function always returns Unassigned when called with two args	Data, Data\FireDAC	RSP-21459 (https://quality.embarcadero.com/browse/RS P-21459)
Error "Invalid field size" using FireDAC + MySQL	Data, Data\FireDAC	RSP-21478 (https://quality.embarcadero.com/browse/RS P-21478)
[FireDAC, PgSQL] TClientDataSet.OnReconcileError is not called	Data, Data\FireDAC, Data\Midas	RSP-20741 (https://quality.embarcadero.com/browse/RS P-20741)
TMongoDocument and TJSONCollectionBuilder incorrectly parse ISO Dates	Data, Data\FireDAC, RTL, RTL\Delphi	RSP-17046 (https://quality.embarcadero.com/browse/RS P-17046)
[FireDAC, MongoDB] [TJSONCollectionBuilder.TBaseCollection.WriteJSON] Dates always converted to local timezone if value updated in text mode	Data, Data\FireDAC, RTL\Delphi	RSP-20571 (https://quality.embarcadero.com/browse/RS P-20571)
Redundant condition in Data.Bind.Components.pas	Data, Data\LiveBindings	RSP-20811 (https://quality.embarcadero.com/browse/RS P-20811)
Inconsistent property setter naming in Data.Bind.Components.pas	Data, Data\LiveBindings	RSP-20835 (https://quality.embarcadero.com/browse/RS P-20835)
Access Violation when pressing down arrow on FMX grid linked to FireDac Memdata	Data, Data\LiveBindings, FireMonkey	RSP-17876 (https://quality.embarcadero.com/browse/RS P-17876)
TGrid / TStringgrid in editmode using keyup / keydown connected with Binddatasource	Data, Data\LiveBindings, FireMonkey	RSP-18790 (https://quality.embarcadero.com/browse/RS P-18790)

		dero.com/browse/RS-P-18790
When using BindingsList , The right mouse button paste content cannot be submitted.	Data, Data\LiveBindings, VCL	RSP-21406 (https://quality.embarcaero.com/browse/RS-P-21406)
TBlobField.OldValue always show null in BeforeUpdateRecord and AfterUpdateRecord event	Data, Data\Midas	RSP-15519 (https://quality.embarcaero.com/browse/RS-P-15519)
Locate not working on nested clientdataset	Data, Data\Midas	RSP-17074 (https://quality.embarcaero.com/browse/RS-P-17074)
[CDS] AV possible when ClientDataSet with VARBINARY(>= 200)	Data, Data\Midas	RSP-20043 (https://quality.embarcaero.com/browse/RS-P-20043)
Provider loses changes to DataSet in OnGetData when logChanges is false	Data, Data\Midas	RSP-20765 (https://quality.embarcaero.com/browse/RS-P-20765)
Encounter Invalid Field type error when TClientDataSet instance has SetOptionalParam('P', '1/2', true)	Data, Data\Midas	RSP-21469 (https://quality.embarcaero.com/browse/RS-P-21469)
RestClient.AddBody(Stream, ctMULTIPART_FORM_DATA) adds empty body	Data, Data\REST	RSP-15701 (https://quality.embarcaero.com/browse/RS-P-15701)
TCustomRESTRequest does not respect query params when doing POST/PUT/PATCH	Data, Data\REST	RSP-16854 (https://quality.embarcaero.com/browse/RS-P-16854)
TRESTRequest multipart cannot be set to comply with HTML 5 rules	Data, Data\REST	RSP-18563 (https://quality.embarcaero.com/browse/RS-P-18563)

		y.embarcadero.com/browse/RSP-18563)
TCustomRESTRequest.Execute - DELETE method not allowed to have body	Data, Data\REST	RSP-20287 (https://quality.embarcadero.com/browse/RSP-20287)
TRESTRequest ExecuteAsync error handling problem	Data, Data\REST	RSP-20375 (https://quality.embarcadero.com/browse/RSP-20375)
TRestClient - allow Request Body for DELETE and GET	Data, Data\REST	RSP-20407 (https://quality.embarcadero.com/browse/RSP-20407)
TOAuth2Authenticator.AuthorizationRequestURI doesn't include state parameter	Data, Data\REST	RSP-20766 (https://quality.embarcadero.com/browse/RSP-20766)
Enhance Speed Of JSON Or TRESTResponseDataSetAdapter Support For Large Files	Data, Data\REST	RSP-20823 (https://quality.embarcadero.com/browse/RSP-20823)
REST.Client.pas memory leak fix for ARC	Data, Data\REST	RSP-20935 (https://quality.embarcadero.com/browse/RSP-20935)
REST components truncating strings greater than 255 characters.	Data, Data\REST	RSP-21012 (https://quality.embarcadero.com/browse/RSP-21012)
Mac Safari Update 12 Breaks TMimeTypes class	Data, Data\REST	RSP-21271 (https://quality.embarcadero.com/browse/RSP-21271)
REST Client Framework has problem with List parameters.	Data, Data\REST	RSP-9407 (https://qu

		ality.embarcadero.com/browse/RSP-9407)
Delphi XE 10 Berlin 10.1 update2 Run Error - FireDac Connect MySQL (OS : Windows XP)	Data, VCL	RSP-16539 (http://quality.embarcadero.com/browse/RSP-16539)
RAD Server wizard raises error	Data\MEAP, IDE	RSP-20947 (http://quality.embarcadero.com/browse/RSP-20947)
[Win64] Enabling UIAccess in application manifest causes the debugger to crash	Debugger	RSP-19104 (http://quality.embarcadero.com/browse/RSP-19104)
64 Bit Debug Unable To Create process	Debugger	RSP-20575 (http://quality.embarcadero.com/browse/RSP-20575)
Application delphi freeze IDE	Debugger, IDE	RSP-21050 (http://quality.embarcadero.com/browse/RSP-21050)
TBluetoothGattServer.AddService throws error in Android	Demos, RTL, RTL\Delphi	RSP-20665 (http://quality.embarcadero.com/browse/RSP-20665)
Controls with text lose their styling when they scroll out of view	FireMonkey	117916
Translate function returns bogus string	FireMonkey	RSP-10134 (http://quality.embarcadero.com/browse/RSP-10134)
TMapView always on top of other controls	FireMonkey	RSP-10707 (http://quality.embarcadero.com/browse/RSP-10707)

[Android] TEdit.MaxLength only handled at the time when OnEditChange is called	FireMonkey	RSP-13633 (https://quality.embarcadero.com/browse/RSP-13633)
[Dialogs] TMessageDlgBtn texts cannot be translated	FireMonkey	RSP-13984 (https://quality.embarcadero.com/browse/RSP-13984)
Focus does not switch to the Object Inspector when typing in the FMX design-time editor	FireMonkey	RSP-14142 (https://quality.embarcadero.com/browse/RSP-14142)
[iOS] TTexture produces AVs when created in a separate thread	FireMonkey	RSP-14175 (https://quality.embarcadero.com/browse/RSP-14175)
EvaluateJavascript of TWebBrowser no longer works after right-click a memo on the same Form	FireMonkey	RSP-15869 (https://quality.embarcadero.com/browse/RSP-15869)
TLocationSensor crash on android marshmallow if targetSdkVersion=23	FireMonkey	RSP-15986 (https://quality.embarcadero.com/browse/RSP-15986)
Deactivating sensors does not stop the native Android sensor CPU activity	FireMonkey	RSP-16016 (https://quality.embarcadero.com/browse/RSP-16016)
[Dialogs] TDialogService.InputQuery() - Cancel button doesn't work	FireMonkey	RSP-16148 (https://quality.embarcadero.com/browse/RSP-16148)
iOS Application Store build error	FireMonkey	RSP-16389 (https://quality.embarcadero.com/)

		browse/RS P-16389
Wrong cropping chars on multiline string draw.	FireMonkey	RSP-16488 (https://quality.embarcadero.com/browse/RS P-16488)
[Sensors] TiOSLocationDelegate has missing method name attributes	FireMonkey	RSP-16610 (https://quality.embarcadero.com/browse/RS P-16610)
[TEdit] Problem to edit text in tedit and tmemo in Android 6	FireMonkey	RSP-16778 (https://quality.embarcadero.com/browse/RS P-16778)
on android mouseup/mousemove can be fired AFTER the app goes in background	FireMonkey	RSP-16905 (https://quality.embarcadero.com/browse/RS P-16905)
[TEdit] Android's TMemo and TEdit Cursor Issue + Suggested Complete Solution	FireMonkey	RSP-16935 (https://quality.embarcadero.com/browse/RS P-16935)
Adding resizableActivity to manifest leads to pacient error 1	FireMonkey	RSP-16986 (https://quality.embarcadero.com/browse/RS P-16986)
Android Push Notifications Issue	FireMonkey	RSP-17205 (https://quality.embarcadero.com/browse/RS P-17205)
fmx Listview search entry duplicates first letter entered	FireMonkey	RSP-17236 (https://quality.embarcadero.com/browse/RS P-17236)
Tokyo : TViewport bug on Android	FireMonkey	RSP-17647 (https://quality.embarcadero.com/browse/RS P-17647)

		dero.com/browse/RSP-17647)
Android TWebBrowser not work	FireMonkey	RSP-17705 (https://quality.embarcadero.com/browse/RSP-17705)
[Regression] VKAutoShowMode is not work (Android)	FireMonkey	RSP-17768 (https://quality.embarcadero.com/browse/RSP-17768)
Form.StyleBook change is not drawn correctly on Android by Tokyo	FireMonkey	RSP-17771 (https://quality.embarcadero.com/browse/RSP-17771)
Forms cannot be created via CreateNew, due to incorrect SystemStatusBar implementation	FireMonkey	RSP-17830 (https://quality.embarcadero.com/browse/RSP-17830)
JNotificationCompat_Builder miss some declarations	FireMonkey	RSP-18070 (https://quality.embarcadero.com/browse/RSP-18070)
FMX TListView crashes application with EArgumentOutOfRangeException	FireMonkey	RSP-18099 (https://quality.embarcadero.com/browse/RSP-18099)
Unable to show modal dialog in FormShow event handler on iOS	FireMonkey	RSP-18110 (https://quality.embarcadero.com/browse/RSP-18110)
Android development is totally broken on Tokyo.	FireMonkey	RSP-18180 (https://quality.embarcadero.com/browse/RSP-18180)
FMX.Layouts.TVertScrollBox - messed up drawing of controls after scrolling	FireMonkey	RSP-18418 (https://quality.embarcadero.com/browse/RSP-18418)

		y.embarcadero.com/browse/RSP-18418)
TComboBox OnChange comes before TLinkObservers get updated (TObjectBindSourceAdapter)	FireMonkey	RSP-18634 (https://quality.embarcadero.com/browse/RSP-18634)
[TMemo] Memo scrollbar shrinks	FireMonkey	RSP-18719 (https://quality.embarcadero.com/browse/RSP-18719)
FMX source and compiled units are misaligned for MacOS	FireMonkey	RSP-18836 (https://quality.embarcadero.com/browse/RSP-18836)
Add test for FBitmap = nil in TViewport3D.Paint.	FireMonkey	RSP-18852 (https://quality.embarcadero.com/browse/RSP-18852)
[TCheckBox] checkbox bug	FireMonkey	RSP-18957 (https://quality.embarcadero.com/browse/RSP-18957)
TPathAnimation doesn't work with 3D Objects	FireMonkey	RSP-19059 (https://quality.embarcadero.com/browse/RSP-19059)
[TWebBrowser] Android TWebBrowser HTTPS bug???	FireMonkey	RSP-19072 (https://quality.embarcadero.com/browse/RSP-19072)
VirtualKeyboard fails on Android	FireMonkey	RSP-19540 (https://quality.embarcadero.com/browse/RSP-19540)
Memory Leak with Delphi 10.2.2	FireMonkey	RSP-19579 (htt

		ps://quality.embarcadero.com/browse/RSP-19579)
NeedStyleLookup and ApplyStyleLookup causes memory leak using a TListView	FireMonkey	RSP-19619 (https://quality.embarcadero.com/browse/RSP-19619))
On Android platform, the caret is not appearing after showing and hiding other form (cloned from RSP-13365)	FireMonkey	RSP-19719 (https://quality.embarcadero.com/browse/RSP-19719))
Error in implementation of CreateFromBitmapAndMask	FireMonkey	RSP-19907 (https://quality.embarcadero.com/browse/RSP-19907))
FullScreen = true does not work if use ShowMessage or Form.Show()	FireMonkey	RSP-19982 (https://quality.embarcadero.com/browse/RSP-19982))
Firemonkey Log.d function fails for specific message strings	FireMonkey	RSP-20021 (https://quality.embarcadero.com/browse/RSP-20021))
[TMemo] Memo Line Order is broken after fourth line	FireMonkey	RSP-20107 (https://quality.embarcadero.com/browse/RSP-20107))
FMX TPopup raises Argument Out Of Range	FireMonkey	RSP-20198 (https://quality.embarcadero.com/browse/RSP-20198))
Wrong definition value for NSNotFound	FireMonkey	RSP-20199 (https://quality.embarcadero.com/browse/RSP-20199))
Check boxes do not appear in TStringGrid, TCheckColumn if style	FireMonkey	RSP-

changed		20208 (https://quality.embarcadero.com/browse/RSP-20208)
Enter keydown lead to access violation when editing TGrid component	FireMonkey	RSP-20217 (https://quality.embarcadero.com/browse/RSP-20217)
implement onRequestPermissionsResult in com.embarcadero.firemonkey.FMXNativeActivity	FireMonkey	RSP-20254 (https://quality.embarcadero.com/browse/RSP-20254)
Memory leak in TWebBrowser	FireMonkey	RSP-20294 (https://quality.embarcadero.com/browse/RSP-20294)
[Dialogs] MessageDialogAsync doesn't "eat" enter key	FireMonkey	RSP-20318 (https://quality.embarcadero.com/browse/RSP-20318)
[TLabel] TLabel WordWrap Corrupted Draw On Android In Specific Layout	FireMonkey	RSP-20529 (https://quality.embarcadero.com/browse/RSP-20529)
DoSetContextState TContextiOS exceptions	FireMonkey	RSP-20558 (https://quality.embarcadero.com/browse/RSP-20558)
[TMemo] TMemo works incorrect on Android	FireMonkey	RSP-20635 (https://quality.embarcadero.com/browse/RSP-20635)
Windows Classic Design: Linebreak Issue with TMemo	FireMonkey	RSP-20707 (https://quality.embarcadero.com/browse/RSP-20707)

ListBox under FMX will lead to access violation	FireMonkey	RSP-20747 (https://quality.embarcadero.com/browse/RSP-20747)
[TForm] Bug when opening, closing and opening the same form againorm	FireMonkey	RSP-20891 (https://quality.embarcadero.com/browse/RSP-20891)
FMX.Canvas.Mac leaks CFNumberRef references.	FireMonkey	RSP-20924 (https://quality.embarcadero.com/browse/RSP-20924)
[TStringGrid] TStringGrid Exception on Android	FireMonkey	RSP-20955 (https://quality.embarcadero.com/browse/RSP-20955)
Inefficient code in FMX.Ani	FireMonkey	RSP-20997 (https://quality.embarcadero.com/browse/RSP-20997)
Tokyo 10.2.3 [regression from 10.2.2] alignment of controls is broken	FireMonkey	RSP-21009 (https://quality.embarcadero.com/browse/RSP-21009)
Rotate phone kills programme	FireMonkey	RSP-21092 (https://quality.embarcadero.com/browse/RSP-21092)
[TEdit] Autocorrect in TEdit	FireMonkey	RSP-21169 (https://quality.embarcadero.com/browse/RSP-21169)
Android main loop do not call OnIdle	FireMonkey	RSP-21193 (https://quality.embarcadero.com/)

		browse/RS P-21193)
TPopup within TPopup gives SIGARBT on Android	FireMonkey	RSP-21277 (https://quality.embarcadero.com/browse/RS P-21277)
need NotificationChannel in Androidapi.JNI.App	FireMonkey	RSP-21294 (https://quality.embarcadero.com/browse/RS P-21294)
BindingsList component Scope class TBindSourceAdapterCustomScope not registered	FireMonkey	RSP-21394 (https://quality.embarcadero.com/browse/RS P-21394)
TComboEdit: Wrong Value for Itemindex in OnChangetracking in special cases	FireMonkey	RSP-21401 (https://quality.embarcadero.com/browse/RS P-21401)
TCustomPopupForm broken for iOS	FireMonkey	RSP-21414 (https://quality.embarcadero.com/browse/RS P-21414)
Android:TAniIndicator delays VKB-Inputs and slows TThread.Synchronize?	FireMonkey, FireMonkey\Animations, FireMonkey\Components	RSP-20097 (https://quality.embarcadero.com/browse/RS P-20097)
[Android] OnVirtualKeyboardShown provides Bounds 25 pixels higher	FireMonkey, FireMonkey\Components	RSP-14004 (https://quality.embarcadero.com/browse/RS P-14004)
[Regression] TMultiview AV	FireMonkey, FireMonkey\Components	RSP-17161 (https://quality.embarcadero.com/browse/RS P-17161)
[TRectangle] After shrinking a TRectangle then expanding it, the TRectangle does not repaint is controls in FMX	FireMonkey, FireMonkey\Components	RSP-19813 (https://quality.embarcadero.com/browse/RS P-19813)

		dero.com/browse/RS-P-19813)
Even after the patch of February this error happen: Context3D Exception with message 'Cannot activate shader program for TContext Android	FireMonkey, FireMonkey\Components	RSP-19814 (http://qualit y.embarca dero.com/browse/RS-P-19814))
TRectangle Repaint Issue	FireMonkey, FireMonkey\Components	RSP-20055 (http://qualit y.embarca dero.com/browse/RS-P-20055))
Incorrect drawing of controls when using vertical scrollbar	FireMonkey, FireMonkey\Components, FireMonkey\Runtime	RSP-20150 (http://qualit y.embarca dero.com/browse/RS-P-20150))
Adding regions to TLocationSensor can result in duplicates	FireMonkey, FireMonkey\Components, RTL, RTL\Delphi, RTL\Delphi\Header Translations	RSP-15764 (http://qualit y.embarca dero.com/browse/RS-P-15764))
[Android] Finalization should be fixed in FMX.PushNotification.Android.pas	FireMonkey, FireMonkey\Runtime	RSP-11210 (http://qualit y.embarca dero.com/browse/RS-P-11210))
xe8 segmentation fault when pressing back button	FireMonkey, FireMonkey\Runtime	RSP-11349 (http://qualit y.embarca dero.com/browse/RS-P-11349))
REST.Backend.KinveyPushDevice - Project raised exception class Segmentation fault (11)	FireMonkey, FireMonkey\Runtime	RSP-13758 (http://qualit y.embarca dero.com/browse/RS-P-13758))
[TEdit][Android] TEdit duplicates initial input on some VKs after 'return' key is pressed	FireMonkey, FireMonkey\Runtime	RSP-14495 (http://qualit y.embarca dero.com/browse/RS-P-14495))
TCanvasD2D.DoDrawPath will not close paths in some cases causing graphics corruption	FireMonkey, FireMonkey\Runtime	RSP-16336 (http://qualit y.embarca dero.com/browse/RS-P-16336))

		y.embarcadero.com/browse/RS-P-16336)
TViewport3D clipping issue on iOS	FireMonkey, FireMonkey\Runtime	RSP-18365 (https://quality.embarcadero.com/browse/RS-P-18365))
[10.2 Regression] Android FillPolygon/FillPath rendering outside of polygon bounds	FireMonkey, FireMonkey\Runtime	RSP-18492 (https://quality.embarcadero.com/browse/RS-P-18492))
Bluetooth BLE ios SDK 10.3.1 no discover of devices possible	FireMonkey, FireMonkey\Runtime	RSP-18701 (https://quality.embarcadero.com/browse/RS-P-18701))
Checkboxes not drawn correctly when in a TVertScrollBar control.	FireMonkey, FireMonkey\Runtime	RSP-20502 (https://quality.embarcadero.com/browse/RS-P-20502))
[TFrame] Locked property on FMX TFrame crash the IDE	FireMonkey, IDE	RSP-20637 (https://quality.embarcadero.com/browse/RS-P-20637))
changing appearanceclassname crash IDE	FireMonkey, IDE	RSP-20638 (https://quality.embarcadero.com/browse/RS-P-20638))
IDE's Search/Find in files has a bug if search a string with '('	FireMonkey, IDE	RSP-21064 (https://quality.embarcadero.com/browse/RS-P-21064))
iOS Ad-Hoc Provisioning only works with XCode 8.2	FireMonkey, IDE, Linker	RSP-18915 (https://quality.embarcadero.com/browse/RS-P-18915))
iOS 11.3 does not link with older .a libs	FireMonkey, Linker	RSP-20609 (https://quality.embarcadero.com/browse/RS-P-20609))

		ps://quality.embarcadero.com/browse/RSP-20609)
[Sensors] Region identifiers are not included in the location region events in TiOSLocationDelegate	FireMonkey, RTL	RSP-16611 (https://quality.embarcadero.com/browse/RSP-16611))
make that delphi app can work with android:targetSdkVersion="23"	FireMonkey, RTL	RSP-18662 (https://quality.embarcadero.com/browse/RSP-18662))
typo on wiki re exports in .def files	Help and Doc	RSP-20478 (https://quality.embarcadero.com/browse/RSP-20478))
The page for Open Arrays (in C++) is faulty	Help and Doc	RSP-21445 (https://quality.embarcadero.com/browse/RSP-21445))
IDE freezes and CPU usage spikes for a long time a few seconds after loading a large project	IDE	RSP-12535 (https://quality.embarcadero.com/browse/RSP-12535))
Exception when adding a new file / a new unit	IDE	RSP-15471 (https://quality.embarcadero.com/browse/RSP-15471))
Add to repository option causes access violation	IDE	RSP-16596 (https://quality.embarcadero.com/browse/RSP-16596))
Slow startup of IDE when files on desktop	IDE	RSP-17057 (https://quality.embarcadero.com/browse/RSP-17057))
"Go to Definition" wrong pick	IDE	RSP-

		17224 (https://quality.embarcadero.com/browse/RSP-17224)
Wrong error Message on H2164 Info	IDE	RSP-17227 (https://quality.embarcadero.com/browse/RSP-17227)
android.permission.GET_ACCOUNTS unneeded added for entitlement Receive push notifications	IDE	RSP-17799 (https://quality.embarcadero.com/browse/RSP-17799)
Using relative unit output directory creates invalid paths	IDE	RSP-17967 (https://quality.embarcadero.com/browse/RSP-17967)
DUnitX unit from wizard is empty unless Setup and TearDown generated	IDE	RSP-18220 (https://quality.embarcadero.com/browse/RSP-18220)
Code Insight crashes the IDE	IDE	RSP-18533 (https://quality.embarcadero.com/browse/RSP-18533)
IDE crashes when opening parenthesis inside TColor constructor	IDE	RSP-18781 (https://quality.embarcadero.com/browse/RSP-18781)
Dark Theme shows incorrect checkbox state	IDE	RSP-19783 (https://quality.embarcadero.com/browse/RSP-19783)
Application Error from GetIt	IDE	RSP-20181 (https://quality.embarcadero.com/browse/RSP-20181)

iOs Adhoc provisioning profile not found	IDE	RSP-20393 (https://quality.embarcadero.com/browse/RSP-20393)
Error in CodeGear.Cpp.Targets: wrong package static library generated for Clang build	IDE	RSP-20490 (https://quality.embarcadero.com/browse/RSP-20490)
Problems with Inheritance within PageControl	IDE	RSP-20594 (https://quality.embarcadero.com/browse/RSP-20594)
Tooltip Help Insight is blinking when Structure View is scrolled	IDE	RSP-20700 (https://quality.embarcadero.com/browse/RSP-20700)
Environment Variable dialog does not provide folder browsing	IDE	RSP-20890 (https://quality.embarcadero.com/browse/RSP-20890)
Delphi IDE - Help -> Emb Developer Support Page - Crash	IDE	RSP-20940 (https://quality.embarcadero.com/browse/RSP-20940)
code insight/completion messes up select+delete	IDE	RSP-21006 (https://quality.embarcadero.com/browse/RSP-21006)
Random Access violation in IDE	IDE	RSP-21127 (https://quality.embarcadero.com/browse/RSP-21127)
Test issue	IDE	RSP-21393 (https://quality.embarcadero.com/)

		browse/RS P-21393)
"implementation" section is not found in "go to section" drop down menu	IDE	RSP-21421 (https://quality.embarcadero.com/browse/RS P-21421)
In C++ code pressing Ctrl-Shift-Space causes an "interface not found" error	IDE	RSP-21569 (https://quality.embarcadero.com/browse/RS P-21569)
Delphi class completion disregards [ref] attribute in const [ref] parameters	IDE	RSP-21575 (https://quality.embarcadero.com/browse/RS P-21575)
[IDE] AppStore or AdHoc deployment fails if unit output directory is not default	IDE, IDE\Build System	RSP-15130 (https://quality.embarcadero.com/browse/RS P-15130)
iOS Add-Hoc Deployment is broken XCode8.3.3 on macOS Sierra 10.12.6	IDE, IDE\Deployment	RSP-19053 (https://quality.embarcadero.com/browse/RS P-19053)
Dropdown controls in Object Inspectors almost indistinguishable	IDE, IDE\General	86170
Code generated by IDE-Wizards use legacy header includes	IDE, RTL, RTL\C++	RSP-20110 (https://quality.embarcadero.com/browse/RS P-20110)
Installer installs some (not all) VCLTee* files into lib folder when option is deselected	Install	RSP-16473 (https://quality.embarcadero.com/browse/RS P-16473)
Installer does not include PAServer for OSX when targeting iOS	Install	RSP-21336 (https://quality.embarcadero.com/browse/RS P-21336)
ios_version_min does not allow 2 digits before the period	Linker	RSP-20343 (https://quality

		y.embarcadero.com/browse/RSP-20343)
[ilink32 Error] Fatal: Illegal SEGMENT fixup index ERROR!!!	Linker	RSP-20633 (https://quality.embarcadero.com/browse/RSP-20633))
Unused Variable Causes F2588 Linker Error In IOS Compiler	Linker	RSP-20796 (https://quality.embarcadero.com/browse/RSP-20796))
[ilink64 Error] Error: Public symbol 'char' defined in both module E:\SOURCE\SVSTSRC\BUILD64\WIN64\RELEASE\FFT.O and E:\SOURCE\SVSTSRC\BUILD64\WIN64\RELEASE\SENSORSIM.O	Linker	RSP-20872 (https://quality.embarcadero.com/browse/RSP-20872))
TJSONString is not JSON compliant. All TJSONObject produce not parsable JSON	RTL	119779
No applications run on OS X High Sierra with SSD drives	RTL	RSP-20009 (https://quality.embarcadero.com/browse/RSP-20009))
TJson.format() output invalid CRLF	RTL	RSP-20404 (https://quality.embarcadero.com/browse/RSP-20404))
TJSONString.ToString() does not escape slashes or other escapable characters	RTL	RSP-9822 (https://quality.embarcadero.com/browse/RSP-9822)
TDownloadURL raises "Invalid Enum Value" exception; invalid BINDSTATUS_xxx declaration in Vcl.ExtActns.pas	RTL	RSP-9958 (https://quality.embarcadero.com/browse/RSP-9958)
CLANG] std::numeric_limits::max() is not constexpr in bcc32c	RTL, RTL\C++	RSP-19239 (https://quality.embarcadero.com/browse/RSP-19239))

Winscard Win64 Platform SDK import lib is wrongly generated	RTL, RTL\C++	RSP-19970 (https://quality.embarcadero.com/browse/RSP-19970)
TServiceApplication/TService Event OnShutdown not called!	RTL, RTL\C++	RSP-20336 (https://quality.embarcadero.com/browse/RSP-20336)
Slow trig functions	RTL, RTL\C++, RTL\C++\Math	RSP-11166 (https://quality.embarcadero.com/browse/RSP-11166)
Problems with many functions in C++11	RTL, RTL\C++, RTL\C++\Math	RSP-21402 (https://quality.embarcadero.com/browse/RSP-21402)
[Win64] Fix for slow trig functions in C++Builder XE7	RTL, RTL\C++, RTL\C++\Other	129272
bcc64] C++11 std::nextafter, std::nexttoward are unresolved	RTL, RTL\C++, RTL\C++\STL	RSP-18779 (https://quality.embarcadero.com/browse/RSP-18779)
Missing TValue class operators	RTL, RTL\Delphi	96343
TVirtualMethodInterceptor doesn't hook methods with untyped params properly	RTL, RTL\Delphi	101873
Exception message for "Invalid file name" has superfluous "- %s"	RTL, RTL\Delphi	129530
TStrings.DelimitedText handles "invalid" strings inconsistently	RTL, RTL\Delphi	RSP-10149 (https://quality.embarcadero.com/browse/RSP-10149)
System.Generics.Defaults.TComparer generates results inconsistent with TEqualityComparer	RTL, RTL\Delphi	RSP-11331 (https://quality.embarcadero.com/browse/RSP-11331)
StrToFloat bug under 64-bit	RTL, RTL\Delphi	RSP-13096 (https://quality.embarcadero.com/browse/RSP-13096)

add TryAdd to the TDictionary	RTL, RTL\Delphi	RSP-13502 (https://quality.embarcadero.com/browse/RSP-13502)
Wrong if statement in Web.Win.ISAPIThreadPool	RTL, RTL\Delphi	RSP-13969 (https://quality.embarcadero.com/browse/RSP-13969)
TWinHTTPClient raises ENetHTTPException 'Error querying headers: (87) The parameter is incorrect'	RTL, RTL\Delphi	RSP-14050 (https://quality.embarcadero.com/browse/RSP-14050)
TValue.GetDataSize and GetParamSize for tkSet ineffective	RTL, RTL\Delphi	RSP-14678 (https://quality.embarcadero.com/browse/RSP-14678)
Calling the TList.Insert method breaks the data in the list	RTL, RTL\Delphi	RSP-14885 (https://quality.embarcadero.com/browse/RSP-14885)
Result of TJson.Format (jsonValue) is mistake when jsonValue has "\" etc characters	RTL, RTL\Delphi	RSP-14976 (https://quality.embarcadero.com/browse/RSP-14976)
the Format Text of TJson.Format() is not beautiful	RTL, RTL\Delphi	RSP-14978 (https://quality.embarcadero.com/browse/RSP-14978)
TLocalTimeZone is not threadsafe	RTL, RTL\Delphi	RSP-15445 (https://quality.embarcadero.com/browse/RSP-15445)
Missing constant in Winapi.D2D1.pas	RTL, RTL\Delphi	RSP-15510 (https://quality.embarcadero.com/)

		browse/RS P-15510)
TTetheringAppProfile.SendString fail with very long strings	RTL, RTL\Delphi	RSP-15544 (https://quality.embarcadero.com/browse/RS P-15544)
[RTTI] AV in TInvokeInfo.SaveArguments if the argument is passed by ref and comes from const mem-space	RTL, RTL\Delphi	RSP-16153 (https://quality.embarcadero.com/browse/RS P-16153)
TJSONObject.ParseJSONValue() fails to produce nil result w/ huge numbers, arrays and objects	RTL, RTL\Delphi	RSP-16217 (https://quality.embarcadero.com/browse/RS P-16217)
TList fails to store values of an integer array	RTL, RTL\Delphi	RSP-16471 (https://quality.embarcadero.com/browse/RS P-16471)
ISO8601ToDate rounds fractional part to 1000ms	RTL, RTL\Delphi	RSP-16513 (https://quality.embarcadero.com/browse/RS P-16513)
TObjectList should have an Extract(Index: Integer) method	RTL, RTL\Delphi	RSP-16571 (https://quality.embarcadero.com/browse/RS P-16571)
TList<>.Extract not working with dynamic arrays	RTL, RTL\Delphi	RSP-16692 (https://quality.embarcadero.com/browse/RS P-16692)
Parallel ITasks do not start as expected	RTL, RTL\Delphi	RSP-16932 (https://quality.embarcadero.com/browse/RS P-16932)
Milliseconds in TDateTime values are lost when reading/writing from BSON	RTL, RTL\Delphi	RSP-17036 (https://quality.embarcadero.com/browse/RS P-17036)

		dero.com/browse/RSP-17036)
JSON library doesn't handle escape strings	RTL, RTL\Delphi	RSP-17130 (https://quality.embarcadero.com/browse/RSP-17130)
TStringBuilder.Append(const Value: TCharArray) may randomly fail	RTL, RTL\Delphi	RSP-17143 (https://quality.embarcadero.com/browse/RSP-17143)
Variant TDateTime to string adds date part	RTL, RTL\Delphi	RSP-17220 (https://quality.embarcadero.com/browse/RSP-17220)
Segmentation Fault when reading an Indexed Property which is a record via RTTI in Linux.	RTL, RTL\Delphi	RSP-17221 (https://quality.embarcadero.com/browse/RSP-17221)
Unit WideStrUtils missing for Linux64 platform	RTL, RTL\Delphi	RSP-17425 (https://quality.embarcadero.com/browse/RSP-17425)
Linux64 Runtime error 217 when DUnitX finishes running	RTL, RTL\Delphi	RSP-17580 (https://quality.embarcadero.com/browse/RSP-17580)
BoolToStr and WriteBool can cause Access Violation error with typecast values	RTL, RTL\Delphi	RSP-17747 (https://quality.embarcadero.com/browse/RSP-17747)
TListHelper.InternalGrow grows list too aggressively	RTL, RTL\Delphi	RSP-17767 (https://quality.embarcadero.com/browse/RSP-17767)
TList.Add Access Violation after Memory Usage exceeds 2GB	RTL, RTL\Delphi	RSP-17918 (https://quality.embarcadero.com/browse/RSP-17918)

		y.embarcadero.com/browse/RSP-17918)
TJson.ObjectToJsonObject accepts invalid JSON content	RTL, RTL\Delphi	RSP-17946 (https://quality.embarcadero.com/browse/RSP-17946)
(Linux) TryFloatToDateTime unexpectedly fails from shared object library	RTL, RTL\Delphi	RSP-17952 (https://quality.embarcadero.com/browse/RSP-17952)
TFile.GetLastWriteTimeUtc returns incorrect value	RTL, RTL\Delphi	RSP-18293 (https://quality.embarcadero.com/browse/RSP-18293)
RTTMethod.Visibility = mvPublic for a (strict) private record method; visibility should be mvPrivate instead	RTL, RTL\Delphi	RSP-18587 (https://quality.embarcadero.com/browse/RSP-18587)
TRttiRecordMethod needs to override GetVisibility	RTL, RTL\Delphi	RSP-18588 (https://quality.embarcadero.com/browse/RSP-18588)
System.Zlib function ZDecompressStream will hang if an empty stream is passed in to be decompressed	RTL, RTL\Delphi	RSP-18742 (https://quality.embarcadero.com/browse/RSP-18742)
TList.IndexOf is 6x slower than its std TList counterpart	RTL, RTL\Delphi	RSP-18815 (https://quality.embarcadero.com/browse/RSP-18815)
Problem with method System.SysUtils.Format and Int64	RTL, RTL\Delphi	RSP-18944 (https://quality.embarcadero.com/browse/RSP-18944)
Access violation in TVirtualMethodInterceptor	RTL, RTL\Delphi	RSP-18946 (https://quality.embarcadero.com/browse/RSP-18946)

		ps://quality.embarcadero.com/browse/RSP-18946)
On OSX the ODBC functions are prefixed with ' _ '	RTL, RTL\Delphi	RSP-18980 (https://quality.embarcadero.com/browse/RSP-18980))
System.Net.Socket leaks socket handles	RTL, RTL\Delphi	RSP-19015 (https://quality.embarcadero.com/browse/RSP-19015))
TList.RemoveItem returns undefined value for types involving Weak References	RTL, RTL\Delphi	RSP-19040 (https://quality.embarcadero.com/browse/RSP-19040))
TStringBuilder.SetLength is unnecessarily slow	RTL, RTL\Delphi	RSP-19178 (https://quality.embarcadero.com/browse/RSP-19178))
TParallel.Join does not create enough threads	RTL, RTL\Delphi	RSP-19557 (https://quality.embarcadero.com/browse/RSP-19557))
Make the linux compiler work without ARC	RTL, RTL\Delphi	RSP-19762 (https://quality.embarcadero.com/browse/RSP-19762))
TCollectionNotification declared twice	RTL, RTL\Delphi	RSP-19791 (https://quality.embarcadero.com/browse/RSP-19791))
Make TAmazonStorageService.ParseResponseError() virtual	RTL, RTL\Delphi	RSP-19868 (https://quality.embarcadero.com/browse/RSP-19868))
TThreadedQueue: bug when the grow method is called	RTL, RTL\Delphi	RSP-

		19874 (https://quality.embarcadero.com/browse/RSP-19874)
TRegEx handles offset incorrectly when working with SMP Unicode characters	RTL, RTL\Delphi	RSP-19902 (https://quality.embarcadero.com/browse/RSP-19902)
"Duplicates not allowed" exception is raised in the TAndroidHTTPClient.GetAuthInfo	RTL, RTL\Delphi	RSP-20088 (https://quality.embarcadero.com/browse/RSP-20088)
Delphi RTL makes unsafe Windows API calls from Dllmain	RTL, RTL\Delphi	RSP-20129 (https://quality.embarcadero.com/browse/RSP-20129)
TValue does not support cast from Variant to Boolean	RTL, RTL\Delphi	RSP-20160 (https://quality.embarcadero.com/browse/RSP-20160)
UseDevelopmentStorage for TAzureConnectionInfo returns wrong URL	RTL, RTL\Delphi	RSP-20188 (https://quality.embarcadero.com/browse/RSP-20188)
Missing 'raise' in System.JSON.Types	RTL, RTL\Delphi	RSP-20192 (https://quality.embarcadero.com/browse/RSP-20192)
Missing .Create in raise EStreamError in System.Classes	RTL, RTL\Delphi	RSP-20193 (https://quality.embarcadero.com/browse/RSP-20193)
Memory corruption when using TList	RTL, RTL\Delphi	RSP-20369 (https://quality.embarcadero.com/browse/RSP-20369)

TStringHelper.StartsWith() does not handle German umlauts correctly while EndWith() does	RTL, RTL\Delphi	RSP-20524 (https://quality.embarcadero.com/browse/RSP-20524)
SysUtils.BytesOf for RawByteString for NextGen compilers deactivated	RTL, RTL\Delphi	RSP-20574 (https://quality.embarcadero.com/browse/RSP-20574)
Exception message created for missing file has %s	RTL, RTL\Delphi	RSP-20588 (https://quality.embarcadero.com/browse/RSP-20588)
System.Win.BluetoothWinRT.pas has wrong code.	RTL, RTL\Delphi	RSP-20598 (https://quality.embarcadero.com/browse/RSP-20598)
TIniFile.ReadSections do not read all sections	RTL, RTL\Delphi	RSP-20722 (https://quality.embarcadero.com/browse/RSP-20722)
Wrong UTF8 filenames when using Extract/ExtractAll	RTL, RTL\Delphi	RSP-20746 (https://quality.embarcadero.com/browse/RSP-20746)
Programming mistake in System.SysUtils.pas (function FileAgeInternal)	RTL, RTL\Delphi	RSP-20748 (https://quality.embarcadero.com/browse/RSP-20748)
LF CR is used as linebreak in resourcestrings	RTL, RTL\Delphi	RSP-20809 (https://quality.embarcadero.com/browse/RSP-20809)
Unraised exceptions	RTL, RTL\Delphi	RSP-20810 (https://quality.embarcadero.com/)

		browse/RS P-20810)
Typos in function names	RTL, RTL\Delphi	RSP-20816 (https://quality.embarcadero.com/browse/RS P-20816)
TLocalTimeZone.TimeZoneChanged always returns True.	RTL, RTL\Delphi	RSP-20930 (https://quality.embarcadero.com/browse/RS P-20930)
System.SysUtils.TStringHelper.ToUpper()/ToLower() not expanded for iOS	RTL, RTL\Delphi	RSP-21136 (https://quality.embarcadero.com/browse/RS P-21136)
TRegEx.Matches starts one character earlier than TRegEx.Match	RTL, RTL\Delphi	RSP-21149 (https://quality.embarcadero.com/browse/RS P-21149)
StrToFloat different behavior in 64 bits.	RTL, RTL\Delphi	RSP-21165 (https://quality.embarcadero.com/browse/RS P-21165)
TValue.AsVariant does not handle TDateTime properly	RTL, RTL\Delphi	RSP-21176 (https://quality.embarcadero.com/browse/RS P-21176)
Parallel tasks problem, new thread not created	RTL, RTL\Delphi	RSP-21177 (https://quality.embarcadero.com/browse/RS P-21177)
Setting global RandSeed variable	RTL, RTL\Delphi	RSP-21280 (https://quality.embarcadero.com/browse/RS P-21280)
TRttiMethodType is missing override for GetSize	RTL, RTL\Delphi	RSP-21288 (https://quality.embarcadero.com/browse/RS P-21288)

		dero.com/browse/RSP-21288)
TList.AddRange causes endless loop if passing itself	RTL, RTL\Delphi	RSP-21314 (https://quality.embarcadero.com/browse/RSP-21314))
TList.InsertRange lacks optimization for passing another TList	RTL, RTL\Delphi	RSP-21316 (https://quality.embarcadero.com/browse/RSP-21316))
S3 is missing the location eu-west-2 (London) and eu-west-3 (Paris)	RTL, RTL\Delphi	RSP-21322 (https://quality.embarcadero.com/browse/RSP-21322))
in Winapi.MsCTF on Win64 TF_INPUTPROCESSORPROFILE structural error	RTL, RTL\Delphi	RSP-21464 (https://quality.embarcadero.com/browse/RSP-21464))
TStreamReader Detect BOM does not use the proper encoding if the file has a bom, and a default encoding is passed to TStreamReader	RTL, RTL\Delphi	RSP-9569 (https://quality.embarcadero.com/browse/RSP-9569)
Integer Overflow wrongly generated when multiplying two 64-Bit Integers	RTL, RTL\Delphi, RTL\Delphi\Arithmetic/Precision	34089
MaxDouble declared twice with conflicting values	RTL, RTL\Delphi, RTL\Delphi\Arithmetic/Precision	RSP-10209 (https://quality.embarcadero.com/browse/RSP-10209)
strange definition of Windows.tagPOLYTEXT	RTL, RTL\Delphi, RTL\Delphi\Header Translations	62143
[x64] bad inline wrapper for IsValidACL	RTL, RTL\Delphi, RTL\Delphi\Header Translations	102231
Incorrect Declarations for WaitOnAddress and others	RTL, RTL\Delphi, RTL\Delphi\Header Translations	RSP-20033 (https://quality.embarcadero.com/browse/RSP-20033)
Error in DWRITE_FONT_METRICS structure in Winapi.D2D1.pas	RTL, RTL\Delphi, RTL\Delphi\Header Translations	RSP-20776 (https://quality.embarcadero.com/browse/RSP-20776)

		y.embarcadero.com/browse/RS-P-20776)
When DetectBOM is true and there is no BOM in the file, StreamReader changes Encoding to UTF8	RTL, RTL\Delphi, RTL\Delphi\I/O	84071
Refactorings in System.Generics.Collections affect performance negatively	RTL, RTL\Delphi, RTL\Delphi\List/Collections	RSP-10450 (https://quality.embarcadero.com/browse/RS-P-10450))
Abstracted Method error in TCGIRequest and TWinCGIRequest	RTL, RTL\Delphi, RTL\Delphi\Net	RSP-15890 (https://quality.embarcadero.com/browse/RS-P-15890))
THttpClient.Post always uses UTF-8 encoding	RTL, RTL\Delphi, RTL\Delphi\Net	RSP-18045 (https://quality.embarcadero.com/browse/RS-P-18045))
System.Net.Mime.TMultipartFormData missing overload for AddFile	RTL, RTL\Delphi, RTL\Delphi\Net	RSP-19748 (https://quality.embarcadero.com/browse/RS-P-19748))
Please add TNetHttpClient.Put overload for TMultipartFormData	RTL, RTL\Delphi, RTL\Delphi\Net	RSP-19749 (https://quality.embarcadero.com/browse/RS-P-19749))
TCollectionNotification defined twice	RTL, RTL\Delphi, RTL\Delphi\Other	86532
TStringList speedup Name search while sorted=true	RTL, RTL\Delphi, RTL\Delphi\Other	91751
comment typo in crytical system part	RTL, RTL\Delphi, RTL\Delphi\Other	106243
Delphi's Android App Glue is keeping up with NDK's app glue	RTL, RTL\Delphi, RTL\Delphi\Other	118192
TValue.From([8, 10, 12]).ToString is flawed in a set.	RTL, RTL\Delphi, RTL\Delphi\Other	121518
System.Classes and System.Generics.Collections both declared TCollectionNotification	RTL, RTL\Delphi, RTL\Delphi\Other	122158
TMemIniFile doesn't work like it should	RTL, RTL\Delphi, RTL\Delphi\Other	122196
TValue.TryCast does not handle converting from Pointer to procedure type	RTL, RTL\Delphi, RTL\Delphi\Other	124010
TStringHelper.Split produces results different from SplitString from StrUtils	RTL, RTL\Delphi, RTL\Delphi\Strings	RSP-11302 (https://quality

		y.embarcadero.com/browse/RSP-11302)
Regular Expressions not working on Mobile platform	RTL, RTL\Delphi, RTL\Delphi\Strings	RSP-18887 (https://quality.embarcadero.com/browse/RSP-18887))
TThread.ForceQueue not work in Android	RTL, RTL\Delphi, RTL\Delphi\Threads	RSP-17841 (https://quality.embarcadero.com/browse/RSP-17841))
TThreadedQueue.Grow corrupts queue contents	RTL, RTL\Delphi, RTL\Delphi\Threads	RSP-18521 (https://quality.embarcadero.com/browse/RSP-18521))
TRealPackage.FindType thread unsafe	RTL, RTL\Delphi, RTL\Delphi\Threads	RSP-9815 (https://quality.embarcadero.com/browse/RSP-9815))
WICBitmapInterpolationMode new value WICBitmapInterpolationModeHighQualityCubic	RTL, RTL\Delphi, VCL	RSP-18382 (https://quality.embarcadero.com/browse/RSP-18382))
DWL_USER declared incorrectly for Win64	RTL, RTL\Delphi, VCL	RSP-18952 (https://quality.embarcadero.com/browse/RSP-18952))
String to float gives different results in 64 bits en 32 bits mode	RTL, RTL\Delphi, VCL	RSP-21427 (https://quality.embarcadero.com/browse/RSP-21427))
[10.1.2 Regression] TBluetoothLE not discovering devices in iOS	RTL, RTL\Delphi\Bluetooth	RSP-19182 (https://quality.embarcadero.com/browse/RSP-19182))
HTTP Standalone server with FMX access violation at startup	RTL\C++	RSP-19989 (https://quality.embarcadero.com/browse/RSP-19989))

		ps://quality.embarcadero.com/browse/RSP-19989)
Adding very long strings to TStringBuilder results in many recursive calls to ExpandCapacity	RTL\Delphi	RSP-19187 (https://quality.embarcadero.com/browse/RSP-19187))
TJsonReader.Rewind has not initialized FCurrentPosition	RTL\Delphi	RSP-21037 (https://quality.embarcadero.com/browse/RSP-21037))
Type name misspelled in WinAPI.Windows: PImageBountImportDescriptor	RTL\Delphi	RSP-21446 (https://quality.embarcadero.com/browse/RSP-21446))
Decimal values in XML loses decimal symbol if other then .	RTL\Delphi\Net	RSP-17801 (https://quality.embarcadero.com/browse/RSP-17801))
Incorrect translation of Winsock2.h struct WSAPOLLFD - SHORT <> Shortint	RTL\Delphi\Net	RSP-19150 (https://quality.embarcadero.com/browse/RSP-19150))
memoryleak in TNetEncoding.GetBase64Encoding?	RTL\Delphi\Net	RSP-19796 (https://quality.embarcadero.com/browse/RSP-19796))
THTTPClient send body by PUT method	RTL\Delphi\Net	RSP-20608 (https://quality.embarcadero.com/browse/RSP-20608))
System.JSON.Reader.pas memory leak fix for ARC	RTL\Delphi\Net	RSP-20933 (https://quality.embarcadero.com/browse/RSP-20933))
Memory leak in System.JSON.Writers.pas fixed for ARC	RTL\Delphi\Net	RSP-

		20934 (https://quality.embarcadero.com/browse/RSP-20934)
"TISAPIResponse.SendResponse" ignores the "StatusCode" property if "ReasonString" is set to an empty string.	RTL\Delphi\Net	RSP-20990 (https://quality.embarcadero.com/browse/RSP-20990)
Memory Leak in SOAP Stack	SOAP	RSP-20730 (https://quality.embarcadero.com/browse/RSP-20730)
TCustomForm.SetFocusedControl crashes because it accesses a form that is being destroyed	VCL	RSP-12241 (https://quality.embarcadero.com/browse/RSP-12241)
VCL Menus ignore per-monitor DPI scaling	VCL	RSP-12580 (https://quality.embarcadero.com/browse/RSP-12580)
Checkbox / Radiobox image drawn in wrong size for High DPI	VCL	RSP-13712 (https://quality.embarcadero.com/browse/RSP-13712)
DateTimePicker Date and Time functions actually return date-times	VCL	RSP-14198 (https://quality.embarcadero.com/browse/RSP-14198)
Incorrect DPI scaling (follow up to RSP-14231)	VCL	RSP-14912 (https://quality.embarcadero.com/browse/RSP-14912)
HiDpi - Win10 - 4k display - 300% scaling - TTreeView small expand and collapse buttons	VCL	RSP-15514 (https://quality.embarcadero.com/browse/RSP-15514)

A child control in TTabSeet with right/bottom anchors set isn't honor design time position for High DPI application in display with DPI other than 100%	VCL	RSP-15744 (https://quality.embarcadero.com/browse/RSP-15744)
Form Mousewheel event handler parameters are invalid on x64	VCL	RSP-16209 (https://quality.embarcadero.com/browse/RSP-16209)
ShowMessage On Win10 Long string show ellipsis	VCL	RSP-16568 (https://quality.embarcadero.com/browse/RSP-16568)
Custom drawing of list views appears to be incompatible with hot tracking	VCL	RSP-16869 (https://quality.embarcadero.com/browse/RSP-16869)
Toolbar Buttons re-ordered on High-DPI	VCL	RSP-16907 (https://quality.embarcadero.com/browse/RSP-16907)
TButtonEdit - wrong glyph position	VCL	RSP-16995 (https://quality.embarcadero.com/browse/RSP-16995)
Annoying pixel in TActionMainMenuBar	VCL	RSP-17066 (https://quality.embarcadero.com/browse/RSP-17066)
Realign Controls when moving TForm to a monitor with different scaling	VCL	RSP-17139 (https://quality.embarcadero.com/browse/RSP-17139)
Access violation when receiving WM_USER message	VCL	RSP-18014 (https://quality.embarcadero.com/)

		browse/RS P-18014)
IDE Slow to open form with a lot of components	VCL	RSP-18158 (https://quality.embarcadero.com/browse/RS P-18158)
Invalid cast Pointer -> Cardinal in StyleUtils.inc	VCL	RSP-18803 (https://quality.embarcadero.com/browse/RS P-18803)
ActionMainMenuBar text is not scaling correctly	VCL	RSP-18896 (https://quality.embarcadero.com/browse/RS P-18896)
TForm.MouseWheelHandler not called anymore when mouse over other controls	VCL	RSP-18954 (https://quality.embarcadero.com/browse/RS P-18954)
TPageScroller contents are truncated	VCL	RSP-19064 (https://quality.embarcadero.com/browse/RS P-19064)
Wrong overflow check occurs in Vcl.tabs.TTabset.DoDefaultPainting;	VCL	RSP-19141 (https://quality.embarcadero.com/browse/RS P-19141)
HiDPI large text in context menu with ImageList attached	VCL	RSP-19215 (https://quality.embarcadero.com/browse/RS P-19215)
Vcl.StdCtrls: TListBox & TListBoxStrings cause runtime error	VCL	RSP-19270 (https://quality.embarcadero.com/browse/RS P-19270)
TFileOpenDialog : W1002 Symbol 'TFileOpenDialog' is specific to a platform	VCL	RSP-19659 (https://quality.embarcadero.com/browse/RS P-19659)

		dero.com/browse/RSP-19659)
TGridPanel columns and rows do not scale correctly on high dpi	VCL	RSP-19740 (https://quality.embarcadero.com/browse/RSP-19740)
tSplitter - color lost when moving to hdpi monitor	VCL	RSP-19972 (https://quality.embarcadero.com/browse/RSP-19972)
[REGRESSION] DBGrid with text larger than the line (DBGrid scaling)	VCL	RSP-20105 (https://quality.embarcadero.com/browse/RSP-20105)
HiDpi - Win10 - 4k display - 300% scaling - Huge space between menu text and accelerator text	VCL	RSP-20123 (https://quality.embarcadero.com/browse/RSP-20123)
[10.2.2 Regression] TListView.CustomDrawItem - changing Font properties is not affected	VCL	RSP-20124 (https://quality.embarcadero.com/browse/RSP-20124)
MDI Child wrong position on second monitor	VCL	RSP-20156 (https://quality.embarcadero.com/browse/RSP-20156)
TPageScroller - display area too small for dpi > 100%	VCL	RSP-20166 (https://quality.embarcadero.com/browse/RSP-20166)
Regression from 10.2.2: TNotificationCenter not available / Exception while creating TNotificationCenter object	VCL	RSP-20183 (https://quality.embarcadero.com/browse/RSP-20183)
TListview does not scale correct on HighDPI	VCL	RSP-20229 (https://quality.embarcadero.com/browse/RSP-20229)

		y.embarcadero.com/browse/RSP-20229)
Scale problems on Multi-Monitor Systems with HighDPI	VCL	RSP-20477 (https://quality.embarcadero.com/browse/RSP-20477)
TFDQuery.FetchOptions.RecsMax does not work	VCL	RSP-20557 (https://quality.embarcadero.com/browse/RSP-20557)
Redundant code in Vcl.MPlayer.pas	VCL	RSP-20807 (https://quality.embarcadero.com/browse/RSP-20807)
Redundant condition in Vcl.ActnMan.pas	VCL	RSP-20813 (https://quality.embarcadero.com/browse/RSP-20813)
Dummy assignments in VCL	VCL	RSP-20815 (https://quality.embarcadero.com/browse/RSP-20815)
ListView AdvencedCustomDrawItem & SubItem Font.Size and Font.Style does not have any effect	VCL	RSP-20912 (https://quality.embarcadero.com/browse/RSP-20912)
Crash on updating Label if software runs on Xeon machine.	VCL	RSP-21030 (https://quality.embarcadero.com/browse/RSP-21030)
F1026 Error on Random Files When Compiling.	VCL	RSP-21034 (https://quality.embarcadero.com/browse/RSP-21034)
TSpinEdit.Align not published	VCL	RSP-21315 (htt

		ps://quality.embarcadero.com/browse/RS-P-21315)
Project.exe with unreachable code of GetTickCount64 calls fails at start time on WinXP	VCL	RSP-21546 (https://quality.embarcadero.com/browse/RS-P-21546))
TRegistry.WriteBinaryData erroneously declares its Buffer to be var	VCL, VCL\Other	103126
Scrollbars are painted incorrectly using styles and PerMonitorV2	VCL, VCL\Styles/Themes	RSP-20439 (https://quality.embarcadero.com/browse/RS-P-20439))
VCL memory leak	VCL, VCL\Styles/Themes	RSP-20843 (https://quality.embarcadero.com/browse/RS-P-20843))
Bitmap data of TImageList changes constantly	VCL, VCL\Win32	RSP-13666 (https://quality.embarcadero.com/browse/RS-P-13666))

See Also

- [Release Notes](#)
- [What's New](#)

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