

New features and customer reported issues fixed in RAD Studio 10.3.2

Abstract: List of new features and customer reported issues fixed in RAD Studio 10.3 Rio - Release 2.

10.3 Rio - Release 2 (also known as 10.3.2) is an update of Delphi 10.3 Rio, C++Builder 10.3 Rio, and RAD Studio 10.3 Rio available for any active Update Subscription customer. 10.3 Rio - Release 2 consists of new features, enhancements, and quality improvements.

Key RAD Studio 10.3.2 New Features

- macOS 64-bit support for Delphi.
- C++ 17 for Windows 64-bit.
- C++ LSP Code Insight Improvements.
- RAD Server Wizards and Deployment Improvements.
- Enhanced Firebase Android Support.
- Delphi Linux Client Application Support.

List of customer-reported issues fixed in 10.3.2

This release also includes additional enhancements throughout various product areas and fixes for around 400 customer-reported issues.

Summary	Component/s	QP/QC
Changes to a TeeChart are not repainted on Android	3rd Party	RSP-24087 (https://quality.embarcadero.com/browse/RSP-24087)
Record content lost	Compiler	RSP-23443 (https://quality.embarcadero.com/browse/RSP-23443)
[bcc32c Error] unable to open output file "\obj"	Compiler, Compiler\C++	RSP-23937 (https://quality.embarcadero.com/browse/RSP-23937)
[bcc32c Error]... ICE: Internal compiler error: 0 @ 00000000	Compiler, Compiler\C++	RSP-24065 (https://quality.embarcadero.com/browse/RSP-24065)
[C++][CLANG][ASM] Alignment attributes and directives fail for BCC32C, BCC64	Compiler, Compiler\C++	RSP-13408 (https://quality.embarcadero.com/browse/RSP-13408)
WIN64] std::any fails to compile	Compiler, Compiler\C++	RSP-23135 (https://quality.embarcadero.com/browse/RSP-23135)
bcc32c error creating package object before class definition	Compiler, Compiler\C++	RSP-23039 (https://quality.embarcadero.com/browse/RSP-23039)
BCC32C Internal Compiler Error	Compiler, Compiler\C++	RSP-23610 (https://quality.embarcadero.com/browse/RSP-23610)

		https:// quality. embarc adero.c om/bro wse/RS P-2361 0)
bcc32c: Internal compiler error: 0 @ 00000000 compiling old code	Compiler, Compiler\C++	RSP-24573 (https:// quality. embarc adero.c om/bro wse/RS P-2457 3))
bcc64 doesn't support not even C++14	Compiler, Compiler\C++	RSP-22983 (https:// quality. embarc adero.c om/bro wse/RS P-2298 3))
C++ 17 Structured bindings don't work for 64 bit compiler	Compiler, Compiler\C++	RSP-23251 (https:// quality. embarc adero.c om/bro wse/RS P-2325 1))
C++17 standard is only supported on Windows 32 bit	Compiler, Compiler\C++	RSP-23277 (https:// quality. embarc adero.c om/bro wse/RS P-2327 7))
calling lambda constructor causes "Stack overflow" at execution	Compiler, Compiler\C++	RSP-23952 (https:// quality. embarc adero.c om/bro wse/RS P-2395 2))
Cannot compile iOS 12.2 - stdarg.h error and error compile on MacOS Mojave	Compiler, Compiler\C++	RSP-24292 (https:// quality. embarc adero.c om/bro wse/RS P-2429 2))
Cannot create Win64 application	Compiler, Compiler\C++	RSP-24377 (https:// quality. embarc adero.c

		om/browse/RSP-24377)
Clang32: [bcc32c Error] ...: non-portable path to file '".h"'; specified path differs in case from file name on disk	Compiler, Compiler\C++	RSP-24350 (https://quality.embarcadero.com/browse/RSP-24350)
Compiler error dllimport but not external	Compiler, Compiler\C++	RSP-21757 (https://quality.embarcadero.com/browse/RSP-21757)
Dynamic object creation and initialization in Unit scope	Compiler, Compiler\C++	RSP-24176 (https://quality.embarcadero.com/browse/RSP-24176)
Error compiling C++ DLL	Compiler, Compiler\C++	RSP-21751 (https://quality.embarcadero.com/browse/RSP-21751)
First time i open Any form i get AV	Compiler, Compiler\C++	RSP-24530 (https://quality.embarcadero.com/browse/RSP-24530)
ICE	Compiler, Compiler\C++	RSP-19645 (https://quality.embarcadero.com/browse/RSP-19645)
Internal compiler error: 0 @ 00000000	Compiler, Compiler\C++	RSP-23183 (https://quality.embarcadero.com/browse/RSP-23183)

istreamstream operator not evaluating bools correctly	Compiler, Compiler\C++	RSP-24453 (https://quality.embarcadero.com/browse/RSP-24453)
It becomes ICE output in the new component creation	Compiler, Compiler\C++	RSP-23207 (https://quality.embarcadero.com/browse/RSP-23207)
__messagefunc definition works on Classic compiler fails on clang 32 bits compiler	Compiler, Compiler\C++, Compiler\C++\CLANG	RSP-20023 (https://quality.embarcadero.com/browse/RSP-20023)
CLANG] Line numbers missing for inline assembly errors	Compiler, Compiler\C++, Compiler\C++\CLANG	RSP-11925 (https://quality.embarcadero.com/browse/RSP-11925)
Clang 32bit compiler error.	Compiler, Compiler\C++, Compiler\C++\CLANG	RSP-19029 (https://quality.embarcadero.com/browse/RSP-19029)
COM+ .NET Imported code failed to compiler bcc32c	Compiler, Compiler\C++, Compiler\C++\CLANG	RSP-23864 (https://quality.embarcadero.com/browse/RSP-23864)
Compiler crashes if std::bind is used with __fastcall	Compiler, Compiler\C++, Compiler\C++\CLANG	RSP-16228 (https://quality.embarcadero.com/browse/RSP-16228)
ICE: Internal compiler error: 0 @ 00000000	Compiler, Compiler\C++, Compiler\C++\CLANG	RSP-23549 (https://quality.embarcadero.com/browse/RSP-23549)

		embarcadero.com/browse/RSP-23549)
Internal Compiler error 0 @ 00000000	Compiler, Compiler\C++, Compiler\C++\CLANG	RSP-24494 (https://quality.embarcadero.com/browse/RSP-24494)
bcc32c Linker errors when using precompiled headers	Compiler, Compiler\C++, Compiler\C++\CLANG, Compiler\C++\CLANG\Back End	RSP-21607 (https://quality.embarcadero.com/browse/RSP-21607)
[C++][CLANG] Code auto Completed not work for Variant	Compiler, Compiler\C++, Compiler\C++\CLANG, Compiler\C++\CLANG\IDE Interaction	RSP-12210 (https://quality.embarcadero.com/browse/RSP-12210)
C++ code insight unstable and unreliable	Compiler, Compiler\C++, Compiler\C++\CLANG, Compiler\C++\CLANG\IDE Interaction	RSP-13877 (https://quality.embarcadero.com/browse/RSP-13877)
IDE[Code Completion] Code insight require case sensitive in CBuilder 10.3	Compiler, Compiler\C++, Compiler\C++\CLANG, Compiler\C++\CLANG\IDE Interaction, IDE\Code Insight	RSP-22858 (https://quality.embarcadero.com/browse/RSP-22858)
TRESTClient throws EBindingScopeFactoryError with message 'Scope class TBindSourceAdapterCustomScope not registered'.	Compiler, Compiler\C++, Data\REST	RSP-19139 (https://quality.embarcadero.com/browse/RSP-19139)
bcc32c compiler (or linker?) bug	Compiler, Compiler\C++, Linker	RSP-18930 (https://quality.embarcadero.com/browse/RSP-18930)

		P-18930)
C++Builder Win64 toolchain does NOT export "static" methods of a PACKAGE class	Compiler, Compiler\C++, Linker	RSP-19131 (https://quality.embarcadero.com/browse/RSP-19131)
[Regression] Stack Overflow in std::function Constructor	Compiler, Compiler\C++, RTL\C++	RSP-22900 (https://quality.embarcadero.com/browse/RSP-22900)
Interlocked macros from winnt.h do not work	Compiler, Compiler\C++, RTL\C++	RSP-16451 (https://quality.embarcadero.com/browse/RSP-16451)
Stack overflow when lambda is converted to std::function	Compiler, Compiler\C++, RTL\C++	RSP-24001 (https://quality.embarcadero.com/browse/RSP-24001)
Runtime error 231 with exception thrown in clang application	Compiler, Compiler\C++, RTL\Delphi	RSP-19314 (https://quality.embarcadero.com/browse/RSP-19314)
"F2084 Internal Error: URW1224" at a complex large unit	Compiler, Compiler\Delphi	RSP-21625 (https://quality.embarcadero.com/browse/RSP-21625)
[dccosx Fatal Error] xxx.pas(xxx): Out of memory	Compiler, Compiler\Delphi	RSP-23528 (https://quality.embarcadero.com/browse/RSP-23528)
[ErrRec ICE] Type inference for iterator variable from incorrect expression	Compiler, Compiler\Delphi	RSP-22167

		https://quality.embarcadero.com/browse/RSP-22167)
32-bit app compatibility with macOS High Sierra 10.13.4	Compiler, Compiler\Delphi	RSP-20577 (https://quality.embarcadero.com/browse/RSP-20577))
Acces violation when using ShortString with Var in function parameters	Compiler, Compiler\Delphi	RSP-23216 (https://quality.embarcadero.com/browse/RSP-23216))
Class properties provide wrong pointers to internal data	Compiler, Compiler\Delphi	RSP-21208 (https://quality.embarcadero.com/browse/RSP-21208))
compiler bug with constant pointer parameter	Compiler, Compiler\Delphi	RSP-23316 (https://quality.embarcadero.com/browse/RSP-23316))
compiler error when declaring an inline variable (NC1921)	Compiler, Compiler\Delphi	RSP-22976 (https://quality.embarcadero.com/browse/RSP-22976))
Datasnap RESTfull incompatibility Between 10.3 Rio and older	Compiler, Compiler\Delphi	RSP-24188 (https://quality.embarcadero.com/browse/RSP-24188))
DCC32 F2084 Internal Error: C14832	Compiler, Compiler\Delphi	RSP-22087 (https://quality.embarcadero.com/browse/RSP-22087))

		om/browse/RS P-22087)
Delphi Linux64 record access segfault	Compiler, Compiler\Delphi	RSP-23415 (https://quality.embarcadero.com/browse/RS P-23415)
Does not generate exe file sometimes	Compiler, Compiler\Delphi	RSP-20100 (https://quality.embarcadero.com/browse/RS P-20100)
E2581: E2581 Backend error: Call parameter type does not match function signature!	Compiler, Compiler\Delphi	RSP-23174 (https://quality.embarcadero.com/browse/RS P-23174)
Endless loop in compiler until out of memory and crash of the IDE	Compiler, Compiler\Delphi	RSP-17809 (https://quality.embarcadero.com/browse/RS P-17809)
Error URW1224 and TObjectList?	Compiler, Compiler\Delphi	RSP-23124 (https://quality.embarcadero.com/browse/RS P-23124)
F2084 Internal Error: C15211 compiling (Ex)TurboPower Orpheus	Compiler, Compiler\Delphi	RSP-22975 (https://quality.embarcadero.com/browse/RS P-22975)
F2084 Internal Error: DBG1226 in generics when inferring type	Compiler, Compiler\Delphi	RSP-22307 (https://quality.embarcadero.com/browse/RS P-22307)

F2084 Internal Error: NC1921	Compiler, Compiler\Delphi	RSP-23715 (https://quality.embarcadero.com/browse/RSP-23715)
F2084 Internal Error: NC1921 with simple inline var code	Compiler, Compiler\Delphi	RSP-22036 (https://quality.embarcadero.com/browse/RSP-22036)
F2084 Internal Error: URW1237 inline functions in initialization section	Compiler, Compiler\Delphi	RSP-20381 (https://quality.embarcadero.com/browse/RSP-20381)
Fatal Error F2084 Internal Error G12374 when using Code Insight	Compiler, Compiler\Delphi	RSP-24220 (https://quality.embarcadero.com/browse/RSP-24220)
inline var define compile error	Compiler, Compiler\Delphi	RSP-21925 (https://quality.embarcadero.com/browse/RSP-21925)
Inline Variables dont work with TRegex.Split	Compiler, Compiler\Delphi	RSP-22113 (https://quality.embarcadero.com/browse/RSP-22113)
Internal compiler error on assigning large set properties of collection items	Compiler, Compiler\Delphi	RSP-21644 (https://quality.embarcadero.com/browse/RSP-21644)
Internal error C2527 when trying to append an element to an array of methods.	Compiler, Compiler\Delphi	RSP-24304 (https://quality.embarcadero.com/browse/RSP-24304)

		embarcadero.com/browse/RSP-24304)
Internal error C5551 when compiling generics with default in macOS or iOS simulator	Compiler, Compiler\Delphi	RSP-22004 (https://quality.embarcadero.com/browse/RSP-22004)
Internal error inline variable	Compiler, Compiler\Delphi	RSP-23230 (https://quality.embarcadero.com/browse/RSP-23230)
Internal Error: AV0A883AFF(0A810000)-R3C545F7C-0 and URW1224	Compiler, Compiler\Delphi	RSP-23697 (https://quality.embarcadero.com/browse/RSP-23697)
MacOS: Need 64Bit compiler! cannot use NSSharingService	Compiler, Compiler\Delphi	RSP-12993 (https://quality.embarcadero.com/browse/RSP-12993)
Make it possible to get a macOS application notarized by Apple	Compiler, Compiler\Delphi	RSP-21561 (https://quality.embarcadero.com/browse/RSP-21561)
Memory corruption in linux	Compiler, Compiler\Delphi	RSP-24261 (https://quality.embarcadero.com/browse/RSP-24261)
Memory Corruption in String Literal	Compiler, Compiler\Delphi	RSP-23232 (https://quality.embarcadero.com/browse/RSP-

		P-23232)
Records & Int64 [dcc32 Fatal Error] F2084 Internal Error: C5551	Compiler, Compiler\Delphi	RSP-21790 (https://quality.embarcadero.com/browse/RSP-21790)
Records as inline vars passed to a procedure as var crashes the app	Compiler, Compiler\Delphi	RSP-24715 (https://quality.embarcadero.com/browse/RSP-24715)
Simple inline var programme with type inference does not compile	Compiler, Compiler\Delphi	RSP-21680 (https://quality.embarcadero.com/browse/RSP-21680)
TDoubleDynArray bug	Compiler, Compiler\Delphi	RSP-22981 (https://quality.embarcadero.com/browse/RSP-22981)
Win32 Release build fails if inlining is disabled	Compiler, Compiler\Delphi	RSP-23349 (https://quality.embarcadero.com/browse/RSP-23349)
Win64 compiler incorrectly converts between UnicodeString and UTF8String if Delete() makes the string empty	Compiler, Compiler\Delphi	RSP-21390 (https://quality.embarcadero.com/browse/RSP-21390)
Bug in MOV instruction, invalid code generated	Compiler, Compiler\Delphi, Compiler\Delphi\BASM	RSP-23002 (https://quality.embarcadero.com/browse/RSP-23002)
dcc32 Fatal error F2084 Internal error L2114	Compiler, Compiler\Delphi, Compiler\Delphi\CodeGen	RSP-24393

		https://quality.embarcadero.com/browse/RSP-24393)
Dictionary Enumerator x64 linux - bad values	Compiler, Compiler\Delphi, Compiler\Delphi\CodeGen	RSP-23281 (https://quality.embarcadero.com/browse/RSP-23281)
DataSnap on Android produces Illegal State Exception	Compiler, Compiler\Delphi, FireMonkey	RSP-23691 (https://quality.embarcadero.com/browse/RSP-23691)
Case# 00595583: the glyph (like bmp) of buttons are too much dimmed when the button is disabled	Compiler, Compiler\Delphi, IDE	RSP-19906 (https://quality.embarcadero.com/browse/RSP-19906)
Code completion leads to access violation	Compiler, Compiler\Delphi, IDE	RSP-23208 (https://quality.embarcadero.com/browse/RSP-23208)
New 64bit Calling Convention: Exception in TRTTIMethod.Invoke, because calling by value when call by reference is expected	Compiler, Compiler\Delphi, RTL\Delphi	RSP-23227 (https://quality.embarcadero.com/browse/RSP-23227)
Forms freeze if shown fullscreen with system zoom different from 100%	Compiler, Compiler\Delphi, VCL	RSP-24581 (https://quality.embarcadero.com/browse/RSP-24581)
Clang ICE in lambda calls resolving properties captured with option [&]	Compiler\C++	RSP-20526 (https://quality.embarcadero.com

		om/browse/RS P-20526)
SDK Manager fails on SDK versions & Paths	Compiler\C++, Compiler\Delphi, FireMonkey, IDE, Install	RSP-20931 (https://quality.embarcadero.com/browse/RS P-20931)
catastrophic failure error when using sqlite	Data	RSP-23851 (https://quality.embarcadero.com/browse/RS P-23851)
TFDJSONDataSet	Data	RSP-22781 (https://quality.embarcadero.com/browse/RS P-22781)
TAzureBlobService does not work with Android	Data, Data\Cloud, RTL\Delphi\Net	RSP-20905 (https://quality.embarcadero.com/browse/RS P-20905)
TAzureTableService does not work with Android	Data, Data\Cloud, RTL\Delphi\Net	RSP-22964 (https://quality.embarcadero.com/browse/RS P-22964)
Android Client connect to REST server: 'Cannot set request property after connection is made'	Data, Data\DataSnap	RSP-23656 (https://quality.embarcadero.com/browse/RS P-23656)
Error Datasnap resource that result a TObjectList	Data, Data\DataSnap	RSP-23454 (https://quality.embarcadero.com/browse/RS P-23454)

GetInvocationMetadata does not work in Delphi Rio	Data, Data\DataSnap	RSP-23631 (https://quality.embarcadero.com/browse/RSP-23631)
Marshalling TObjectList to JSON does not work anymore	Data, Data\DataSnap	RSP-21761 (https://quality.embarcadero.com/browse/RSP-21761)
TDSRestConnection https	Data, Data\DataSnap	RSP-24405 (https://quality.embarcadero.com/browse/RSP-24405)
CPU up to 100% on Linux using TIdSchedulerOfThreadPool in WebBroker/DataSnap applications	Data, Data\DataSnap, RTL, RTL\Delphi, RTL\Delphi\Threads	RSP-20508 (https://quality.embarcadero.com/browse/RSP-20508)
Error in Rest DataSnap Client	Data, Data\DataSnap, RTL\Delphi\Net	RSP-24085 (https://quality.embarcadero.com/browse/RSP-24085)
TDbLookupCombobox and Property TButton.Cancel	Data, Data\DBCtrls	RSP-10116 (https://quality.embarcadero.com/browse/RSP-10116)
TDBLookupComboBox misses Return when Default button exists	Data, Data\DBCtrls	RSP-24506 (https://quality.embarcadero.com/browse/RSP-24506)
Empty String <> null	Data, Data\DBRTL	RSP-24263 (https://quality.embarcadero.com/browse/RSP-24263)

		embarcadero.com/browse/RSP-24263)
EncodeTime throws EConvertError when trying to encode TSQLTimeStamp and fraction part is passed in nanoseconds.	Data, Data\DBX	RSP-23494 (https://quality.embarcadero.com/browse/RSP-23494)
[FD, Oracle] Query is empty when comparing ftString parameter with CHAR column	Data, Data\FireDAC	RSP-23393 (https://quality.embarcadero.com/browse/RSP-23393)
CData FireDac Exchange components use wrong product name	Data, Data\FireDAC	RSP-24208 (https://quality.embarcadero.com/browse/RSP-24208)
Error while tracing FireDAC on PostgreSQL	Data, Data\FireDAC	RSP-24534 (https://quality.embarcadero.com/browse/RSP-24534)
FDQuery.AfterOpen handler does not work in Master-Detail	Data, Data\FireDAC	RSP-24105 (https://quality.embarcadero.com/browse/RSP-24105)
Fireda - invalid cast in PostgreSQL floats	Data, Data\FireDAC	RSP-24693 (https://quality.embarcadero.com/browse/RSP-24693)
FireDAC - CURRENT_TIMESTAMP can return wrong value	Data, Data\FireDAC	RSP-24557 (https://quality.embarcadero.com/browse/RSP-24557)

		P-24557)
FireDAC - out of memory PostgreSQL	Data, Data\FireDAC	RSP-24536 (https://quality.embarcadero.com/browse/RSP-24536)
FireDAC - PostgreSQL exception in destructor	Data, Data\FireDAC	RSP-24716 (https://quality.embarcadero.com/browse/RSP-24716)
FireDAC - PostgreSQL query x3	Data, Data\FireDAC	RSP-24699 (https://quality.embarcadero.com/browse/RSP-24699)
FireDAC - problem with numeric on PostgreSQL	Data, Data\FireDAC	RSP-24540 (https://quality.embarcadero.com/browse/RSP-24540)
FireDAC fail to call Stored Procedure with default parameters (MS SQL)	Data, Data\FireDAC	RSP-23433 (https://quality.embarcadero.com/browse/RSP-23433)
FireDAC MSSQL TVP Does not work. Hangs up	Data, Data\FireDAC	RSP-24019 (https://quality.embarcadero.com/browse/RSP-24019)
FireDac SubDetail over ParamByName	Data, Data\FireDAC	RSP-23868 (https://quality.embarcadero.com/browse/RSP-23868)
FireDac TFDTable not pulling Index Information Correctly from MSSQL	Data, Data\FireDAC	RSP-24148

		https://quality.embarcadero.com/browse/RSP-24148)
IndexFieldNames + SetKey + GotoKey wrong behavior on Microsoft SQL	Data, Data\FireDAC	RSP-23550 (https://quality.embarcadero.com/browse/RSP-23550)
Manually created AutoInc fields fail to increment after streaming TFDMemTable to xml and back	Data, Data\FireDAC	RSP-24372 (https://quality.embarcadero.com/browse/RSP-24372)
Setting FetchOptions.RecsMax limits indexes that are returned	Data, Data\FireDAC	RSP-24297 (https://quality.embarcadero.com/browse/RSP-24297)
TFDConnection.OnRecover is never fired when PostgreSQL stops	Data, Data\FireDAC	RSP-23958 (https://quality.embarcadero.com/browse/RSP-23958)
TFDEventAlerter not terminated internal wait flow when server is lost	Data, Data\FireDAC	RSP-24411 (https://quality.embarcadero.com/browse/RSP-24411)
TFDParam.SetObjectValue handle ownership bug	Data, Data\FireDAC	RSP-24264 (https://quality.embarcadero.com/browse/RSP-24264)
TFDPhysASACConnection.InternalDisconnect throws exception when State = csRecovering	Data, Data\FireDAC	RSP-19954 (https://quality.embarcadero.com/browse/RSP-19954)

		om/browse/RS P-19954)
TFDSQLiteBackup on iOS and Android	Data, Data\FireDAC	RSP-22984 (https://quality.embarcadero.com/browse/RS P-22984)
Unstable call handler FDQuery.AfterScroll	Data, Data\FireDAC	RSP-24442 (https://quality.embarcadero.com/browse/RS P-24442)
Update SQLite support to V3.28.0	Data, Data\FireDAC	RSP-23023 (https://quality.embarcadero.com/browse/RS P-23023)
BindingsList component Scope class TBindSourceAdapterCustomScope not registered	Data, Data\LiveBindings	RSP-21394 (https://quality.embarcadero.com/browse/RS P-21394)
TGrid show TFMTBCDField value as (BCD).	Data, Data\LiveBindings	RSP-15267 (https://quality.embarcadero.com/browse/RS P-15267)
RAD Server Swagger Docs Endpoint Missing Multi Tenant Parameters	Data, Data\MEAP	RSP-24575 (https://quality.embarcadero.com/browse/RS P-24575)
Encounter Invalid Field type error when TClientDataSet instance has SetOptionalParam('P', '1/2', true)	Data, Data\Midas	RSP-21469 (https://quality.embarcadero.com/browse/RS P-21469)

Continuous TRESTRequest will stuck after the fourth request is execute in Android	Data, Data\REST	RSP-23893 (https://quality.embarcadero.com/browse/RSP-23893)
Exceptions from REST library lacking information about	Data, Data\REST	RSP-23872 (https://quality.embarcadero.com/browse/RSP-23872)
JSONToObjectString: tkPointer is currently not supported	Data, Data\REST	RSP-23606 (https://quality.embarcadero.com/browse/RSP-23606)
REST Request POST fails in Rio	Data, Data\REST	RSP-23949 (https://quality.embarcadero.com/browse/RSP-23949)
Linker Error	Data, FireMonkey, IDE, Linker	RSP-24344 (https://quality.embarcadero.com/browse/RSP-24344)
10.3 Rio datasnap using JSONReflect is not compatible with 10.2. "Field FstrBuffer cannot be found in type TJSONString"	Data, RTL, RTL\Delphi, RTL\Delphi\Other	RSP-21867 (https://quality.embarcadero.com/browse/RSP-21867)
JSON Rio TObjectList	Data\DataSnap, Data\REST, RTL, RTL\Delphi, RTL\Delphi\List\Collections	RSP-21685 (https://quality.embarcadero.com/browse/RSP-21685)
DataSnap server on Linux can cause Segmentation fault (11)	Data\DataSnap, RTL, RTL\Delphi, RTL\Delphi\Threads	RSP-24457 (https://quality.embarcadero.com/browse/RSP-24457)

		embarcadero.com/browse/RSP-24457)
[FireDAC.Phys.FB]Procedure unknown FB\$OUT.ENABLE	Data\FireDAC	RSP-24222 (https://quality.embarcadero.com/browse/RSP-24222)
FireDAC - PostgreSQL false interval value	Data\FireDAC	RSP-24558 (https://quality.embarcadero.com/browse/RSP-24558)
RAD Server TEMSDatasetResource Docs Show Extra Slash And Ignore AllowedActions	Data\MEAP	RSP-24555 (https://quality.embarcadero.com/browse/RSP-24555)
Delphi Tokyo 10.2.3 running program with debugger and relative paths doesn't work	Debugger	RSP-21265 (https://quality.embarcadero.com/browse/RSP-21265)
Evaluate window shows "F2084 Internal Error" instead of result	Debugger	RSP-22974 (https://quality.embarcadero.com/browse/RSP-22974)
Interfaced variables not displayed correctly in 64 bit debugger Local Variables or Watches	Debugger	RSP-18584 (https://quality.embarcadero.com/browse/RSP-18584)
Delphi 10 Seattle Datasnap error: "Operation failed. Connection was closed." when call a server method	Demos	RSP-14183 (https://quality.embarcadero.com/browse/RSP-14183)

		P-14183)
PhoneDailer sample raises exception when using Delphi 10.1 Berlin	Demos	RSP-15369 (https://quality.embarcadero.com/browse/RSP-15369)
Sample Location sensor works on Android but not on iOS 12.1	Demos	RSP-21800 (https://quality.embarcadero.com/browse/RSP-21800)
Cannot build rt+dt package: DclFmxStd package not found	File Delivery	RSP-17686 (https://quality.embarcadero.com/browse/RSP-17686)
"Copy from" in read only TEdit or TMemo does not work	FireMonkey	RSP-22936 (https://quality.embarcadero.com/browse/RSP-22936)
"Include Splash Image" [Unchecked] causing crash on app start.	FireMonkey	RSP-24057 (https://quality.embarcadero.com/browse/RSP-24057)
"Numbers" mode on virtual keyboard does not persist	FireMonkey	RSP-23745 (https://quality.embarcadero.com/browse/RSP-23745)
[10.1.2 Regression] TColorComboBox behaviour	FireMonkey	RSP-18451 (https://quality.embarcadero.com/browse/RSP-18451)
[10.2.3 Regression] Demonstration application "VideoPlayback/VideoPlayerTest.dpr" on Android does not work	FireMonkey	RSP-22956

		https:// quality. embarc adero.c om/bro wse/RS P-2295 6)
[Android] TrackBar is not trackable after click outside of track button	FireMonkey	RSP-23055 (https:// quality. embarc adero.c om/bro wse/RS P-2305 5))
[mac]Window list does not appear on Dock menu.	FireMonkey	RSP-12309 (https:// quality. embarc adero.c om/bro wse/RS P-1230 9))
[MacOS] A crash in FMX.Forms when closing a modal window	FireMonkey	RSP-18217 (https:// quality. embarc adero.c om/bro wse/RS P-1821 7))
[Win] TMainMenu top level MenuItem's do not respond to the OnClick event	FireMonkey	RSP-14707 (https:// quality. embarc adero.c om/bro wse/RS P-1470 7))
Android Tedit , TnumberBox don't accept local decimal number	FireMonkey	RSP-21848 (https:// quality. embarc adero.c om/bro wse/RS P-2184 8))
Android, TMessageReceivedNotification: TForm is not shown	FireMonkey	RSP-24676 (https:// quality. embarc adero.c om/bro wse/RS P-2467 6))
Any multithreaded Android app can crash!	FireMonkey	RSP-24446 (https:// quality. embarc adero.c om/bro wse/RS P-2444 6))

		om/browse/RS-P-24446)
Bitmap size too big Exception	FireMonkey	RSP-15923 (https://quality.embarcadero.com/browse/RS-P-15923)
bug in function TPathData.GetNumberFromString	FireMonkey	RSP-21452 (https://quality.embarcadero.com/browse/RS-P-21452)
Bug TMediaPlayerControl when Form Changed	FireMonkey	RSP-19193 (https://quality.embarcadero.com/browse/RS-P-19193)
Cannot Create OpenGL Context etc under Android	FireMonkey	RSP-23205 (https://quality.embarcadero.com/browse/RS-P-23205)
Compile for macOS 64 bit	FireMonkey	RSP-20725 (https://quality.embarcadero.com/browse/RS-P-20725)
Degradation in TStyledMemo	FireMonkey	RSP-23611 (https://quality.embarcadero.com/browse/RS-P-23611)
error in TAndroidNativeView.Destroy	FireMonkey	RSP-24666 (https://quality.embarcadero.com/browse/RS-P-24666)

Error-message by open a Datamodule with TImageList	FireMonkey	RSP-21878 (https://quality.embarcadero.com/browse/RSP-21878)
Firemonkey on macOS - modal forms do not completely disable background form	FireMonkey	RSP-18065 (https://quality.embarcadero.com/browse/RSP-18065)
FMX.Dialogs.ShowMessage() on Android freezes animation	FireMonkey	RSP-21342 (https://quality.embarcadero.com/browse/RSP-21342)
Form->Hide() on macOS hides all forms	FireMonkey	RSP-21792 (https://quality.embarcadero.com/browse/RSP-21792)
GestureManager report error when selecting standard gestures	FireMonkey	RSP-24503 (https://quality.embarcadero.com/browse/RSP-24503)
Get a runtime error in context method 'DoDrawPrimitivesBatch'	FireMonkey	RSP-23198 (https://quality.embarcadero.com/browse/RSP-23198)
GL_TEXTURE0 unavailable under MacOSX	FireMonkey	RSP-16360 (https://quality.embarcadero.com/browse/RSP-16360)
Google Play Services packages for Android need updating	FireMonkey	RSP-21273 (https://quality.embarcadero.com/browse/RSP-21273)

		embarcadero.com/browse/RSP-21273)
Hints causing exceptions on iOS and Android	FireMonkey	RSP-23673 (https://quality.embarcadero.com/browse/RSP-23673)
How to optimize Styles loading, TText and TLabel - a way to easily speed up styles and TText (DelAmp problem)	FireMonkey	RSP-21096 (https://quality.embarcadero.com/browse/RSP-21096)
Icons on Notifications in Android with 26 SDK	FireMonkey	RSP-23087 (https://quality.embarcadero.com/browse/RSP-23087)
Implement FullScreen on iOS including visible status bar	FireMonkey	RSP-19655 (https://quality.embarcadero.com/browse/RSP-19655)
Loading styles from files doesn't update backgrounds	FireMonkey	RSP-21252 (https://quality.embarcadero.com/browse/RSP-21252)
MenuItem.Visible does not work anymore since De 10.3.1 Rio	FireMonkey	RSP-23916 (https://quality.embarcadero.com/browse/RSP-23916)
Modal form moves behind other form	FireMonkey	RSP-17765 (https://quality.embarcadero.com/browse/RSP-17765)

		P-17765)
MultiView (platform) z-order stops working with TBannerAd	FireMonkey	RSP-23350 (https://quality.embarcadero.com/browse/RSP-23350)
NotificationCenter: 2 bugs with Android	FireMonkey	RSP-16034 (https://quality.embarcadero.com/browse/RSP-16034)
Object inspector scrolling crashes IDE (TLisview)	FireMonkey	RSP-24710 (https://quality.embarcadero.com/browse/RSP-24710)
on android Tedit with platform style will crash if android EditText style have no background	FireMonkey	RSP-24712 (https://quality.embarcadero.com/browse/RSP-24712)
on win xp can not run fmx app.	FireMonkey	RSP-22943 (https://quality.embarcadero.com/browse/RSP-22943)
OnClick-Event ist never fired for MainMenu-Item on Top-Level	FireMonkey	RSP-22016 (https://quality.embarcadero.com/browse/RSP-22016)
Point not in layout	FireMonkey	RSP-24059 (https://quality.embarcadero.com/browse/RSP-24059)
Property TSaveDialog.DefaultExt is doesn't work on macOS	FireMonkey	RSP-21788

		https://quality.embarcadero.com/browse/RSP-21788)
Resizing Firemonkey TListView removes custom added TListViewItem at runtime	FireMonkey	RSP-24668 (https://quality.embarcadero.com/browse/RSP-24668))
Setting the read only property has no effect under Android and delphi 10.3	FireMonkey	RSP-23346 (https://quality.embarcadero.com/browse/RSP-23346))
TControl3D.LocalToScreen returns wrong value	FireMonkey	RSP-24418 (https://quality.embarcadero.com/browse/RSP-24418))
TEdit with Readonly = True still allows Backspace to work in Android	FireMonkey	RSP-23910 (https://quality.embarcadero.com/browse/RSP-23910))
TEdit: Android Application terminates when virtual keyboard is closed using arrow ("hide") button, in horizontal device layout only.	FireMonkey	RSP-23471 (https://quality.embarcadero.com/browse/RSP-23471))
TInAppPurchase Memory Leak	FireMonkey	RSP-24613 (https://quality.embarcadero.com/browse/RSP-24613))
TLayer3D with button raised EContext3DException exception on macOS	FireMonkey	RSP-21530 (https://quality.embarcadero.com

		om/browse/RS P-21530)
TListView Searchbox issue on iOS	FireMonkey	RSP-23812 (https://quality.embarcadero.com/browse/RS P-23812)
TMainMenu Does Not Update When TForm.StyleBook Is Changed	FireMonkey	RSP-24549 (https://quality.embarcadero.com/browse/RS P-24549)
TMapView + Android 9	FireMonkey	RSP-23638 (https://quality.embarcadero.com/browse/RS P-23638)
TMediaPlayer (FMX) does not set State to Stopped on Win32 (does on Android and MacOS)	FireMonkey	RSP-21688 (https://quality.embarcadero.com/browse/RS P-21688)
TMediaPlayerControl and TMediaPlayer won't stop under Delphi 10.3 with Android	FireMonkey	RSP-21936 (https://quality.embarcadero.com/browse/RS P-21936)
TMediaPlayerControl does not show the video but the audio play fine	FireMonkey	RSP-19581 (https://quality.embarcadero.com/browse/RS P-19581)
TMemo exception if emoticon at end of line on Android	FireMonkey	RSP-23474 (https://quality.embarcadero.com/browse/RS P-23474)

TTextLayout.PositionAtPoint not work under macos (and maybe ios too) when wordwrap = false	FireMonkey	RSP-16648 (https://quality.embarcadero.com/browse/RSP-16648)
TViewport3D Align-Client size not correct on Android.	FireMonkey	RSP-18519 (https://quality.embarcadero.com/browse/RSP-18519)
TWinWindowHandle.DpiChanged improperly scale window	FireMonkey	RSP-18270 (https://quality.embarcadero.com/browse/RSP-18270)
Use of TMainMenu on OS X suspends main thread	FireMonkey	RSP-20488 (https://quality.embarcadero.com/browse/RSP-20488)
Using Bitmap Canvas in a thread causes warnings in Android logcat	FireMonkey	RSP-24298 (https://quality.embarcadero.com/browse/RSP-24298)
When modal dialog closes, the modal form also closes.	FireMonkey	RSP-13874 (https://quality.embarcadero.com/browse/RSP-13874)
Window minimize-restore via taskbar icon click is broken in all Windows flavours	FireMonkey	RSP-16233 (https://quality.embarcadero.com/browse/RSP-16233)
Wrong TCriticalSection is used in CreateJBitmapFromYuvBuffer method in FMX.Media.Android	FireMonkey	RSP-23791 (https://quality.embarcadero.com/browse/RSP-23791)

		embarcadero.com/browse/RSP-23791)
[Android, iOS]Complex TPath with Gradient causes App Crash	FireMonkey, FireMonkey\Components	RSP-15647 (https://quality.embarcadero.com/browse/RSP-15647)
2 Popup Menu were shown at the same time.	FireMonkey, FireMonkey\Components	RSP-13869 (https://quality.embarcadero.com/browse/RSP-13869)
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 (https://quality.embarcadero.com/browse/RSP-19814)
[10.1.2 Regression] Cannot register custom bitmap codec in FireMonkey	FireMonkey, FireMonkey\Runtime	RSP-19170 (https://quality.embarcadero.com/browse/RSP-19170)
TCanvasD2D.DoDrawPath will not close paths in some cases causing graphics corruption	FireMonkey, FireMonkey\Runtime	RSP-16336 (https://quality.embarcadero.com/browse/RSP-16336)
[MacOS] TTimer OnTimer not triggered when a native menu is displayed	FireMonkey, RTL, RTL\Delphi	RSP-24295 (https://quality.embarcadero.com/browse/RSP-24295)
[FMX] Multiple errors with memory manager ?	FireMonkey, RTL\Delphi	RSP-19653 (https://quality.embarcadero.com/browse/RSP-19653)

		P-19653)
3 DocWiki mistakes for Installing the RAD Studio Rio (20.0) PAServer on Linux	Help and Doc	RSP-23429 (https://quality.embarcadero.com/browse/RSP-23429)
Delphi Doc Wiki light blue links on white are unreadable	Help and Doc	RSP-21614 (https://quality.embarcadero.com/browse/RSP-21614)
FireDAC EMS Resource Documentation needs to be updated	Help and Doc	RSP-24228 (https://quality.embarcadero.com/browse/RSP-24228)
page not exists (link: http://sourceforge.net/p/radstudiodemos/code/HEAD/tree/branches/RADStudio_Rio/CPP/VCL/SplitView)	Help and Doc	RSP-24153 (https://quality.embarcadero.com/browse/RSP-24153)
access vialoation in boreditu.dll creating a new IntraWeb 15 Project	IDE	RSP-21941 (https://quality.embarcadero.com/browse/RSP-21941)
Access violation in IDE	IDE	RSP-23467 (https://quality.embarcadero.com/browse/RSP-23467)
Access Violation on new installed Rad studio 10.3	IDE	RSP-24290 (https://quality.embarcadero.com/browse/RSP-24290)
Alt+F12 Keyboard Shortcut does not work	IDE	RSP-24369

		https:// quality. embarc adero.c om/bro wse/RS P-2436 9)
Android SDK is missing required components	IDE	RSP-22155 (https:// quality. embarc adero.c om/bro wse/RS P-2215 5))
AV in dcc32260.dll when hovering [UIPermission] decorator	IDE	RSP-23617 (https:// quality. embarc adero.c om/bro wse/RS P-2361 7))
AVs in the IDE after running and closing FMX Win64 app in debug mode	IDE	RSP-23291 (https:// quality. embarc adero.c om/bro wse/RS P-2329 1))
C++ Builder - IntelliSense not showing all existing methods (case-sensitivity)	IDE	RSP-23776 (https:// quality. embarc adero.c om/bro wse/RS P-2377 6))
can't select a folder to search in	IDE	RSP-23075 (https:// quality. embarc adero.c om/bro wse/RS P-2307 5))
Certificate with subject containing UTF-8 characters	IDE	RSP-23149 (https:// quality. embarc adero.c om/bro wse/RS P-2314 9))
CLANG compiled packages will not install the components	IDE	RSP-22100 (https:// quality. embarc adero.c

		om/browse/RS P-22100)
Collecting IDE statistics should be optional	IDE	RSP-24482 (https://quality.embarcadero.com/browse/RS P-24482)
Crash after closing Style Designer	IDE	RSP-23793 (https://quality.embarcadero.com/browse/RS P-23793)
Delphi IDE 64-bits is freezing in debug mode when starting one application	IDE	RSP-24241 (https://quality.embarcadero.com/browse/RS P-24241)
Device Manager - can not add new device when use Dark Theme	IDE	RSP-23168 (https://quality.embarcadero.com/browse/RS P-23168)
EConvertError when reading dproj.local (ProjectStatistics)	IDE	RSP-24043 (https://quality.embarcadero.com/browse/RS P-24043)
Error on class implementation	IDE	RSP-21574 (https://quality.embarcadero.com/browse/RS P-21574)
Extend TString visualizer with Copy To Clipboard	IDE	RSP-16945 (https://quality.embarcadero.com/browse/RS P-16945)

Failing IDE pre-compiler header wizard	IDE	RSP-23996 (https://quality.embarcadero.com/browse/RSP-23996)
File Recovery: Instance of Class TEditSource has dangling reference count of 1.	IDE	RSP-22114 (https://quality.embarcadero.com/browse/RSP-22114)
Find in files flickers	IDE	RSP-24243 (https://quality.embarcadero.com/browse/RSP-24243)
FireMonkey PathData editor does not refresh preview on paste	IDE	RSP-21982 (https://quality.embarcadero.com/browse/RSP-21982)
get list out of bounds index when try to restart a project	IDE	RSP-24679 (https://quality.embarcadero.com/browse/RSP-24679)
IDE Blocks in Edit Mode with large Project	IDE	RSP-22289 (https://quality.embarcadero.com/browse/RSP-22289)
IDE doesn't launch (titlebar keeps blinking)	IDE	RSP-24120 (https://quality.embarcadero.com/browse/RSP-24120)
IDE flicker with the new styling in 10.3	IDE	RSP-23019 (https://quality.embarcadero.com/browse/RSP-23019)

		embarcadero.com/browse/RSP-23019)
IDE Insight - Bad Performance	IDE	RSP-23927 (https://quality.embarcadero.com/browse/RSP-23927)
IDE slow for opening large projects in the IDE (tracing with ProcMon) [IDE Fix Pack]	IDE	RSP-21972 (https://quality.embarcadero.com/browse/RSP-21972)
IDE very slow when create new form or unit with large project or add a Unit to the project	IDE	RSP-24032 (https://quality.embarcadero.com/browse/RSP-24032)
Invalid typo in Options	IDE	RSP-24607 (https://quality.embarcadero.com/browse/RSP-24607)
iOS 11.2: Add NSLocationAlwaysAndWhenInUseUsageDescription Key To Version Info	IDE	RSP-19931 (https://quality.embarcadero.com/browse/RSP-19931)
Items in GetIt PackageManager are not displayed correctly	IDE	RSP-24244 (https://quality.embarcadero.com/browse/RSP-24244)
msbuild : element occurs more than once.	IDE	RSP-12577 (https://quality.embarcadero.com/browse/RSP-

		P-12577)
New - Interitable Items	IDE	RSP-24191 (https://quality.embarcadero.com/browse/RSP-24191)
Object inspector shows values from other properties sometimes	IDE	RSP-24201 (https://quality.embarcadero.com/browse/RSP-24201)
Platforms have no reasonable order	IDE	RSP-22165 (https://quality.embarcadero.com/browse/RSP-22165)
Problem on Ctrl + Shift + F	IDE	RSP-24054 (https://quality.embarcadero.com/browse/RSP-24054)
Problems with Code Insight -> Code Completion (Ctrl + Space)	IDE	RSP-23015 (https://quality.embarcadero.com/browse/RSP-23015)
Problems with swapping to design-mode	IDE	RSP-23103 (https://quality.embarcadero.com/browse/RSP-23103)
Project Options Dialog - some frames have double scrollbars	IDE	RSP-22028 (https://quality.embarcadero.com/browse/RSP-22028)
RAD Server Package wizard exception	IDE	RSP-22979

		https://quality.embarcadero.com/browse/RSP-22979)
RAD Studio IDE shows wrong content in the source file tab	IDE	RSP-24542 (https://quality.embarcadero.com/browse/RSP-24542)
Refactoring violation error when use shortcut key Shift+Ctrl+E	IDE	RSP-24385 (https://quality.embarcadero.com/browse/RSP-24385)
Reload unit doesn't work sometimes	IDE	RSP-24233 (https://quality.embarcadero.com/browse/RSP-24233)
The read-write access of pictures folder (MAC app store) can't be set	IDE	RSP-18178 (https://quality.embarcadero.com/browse/RSP-18178)
TImage and graphic issues while debugging in 64 bit	IDE	RSP-24720 (https://quality.embarcadero.com/browse/RSP-24720)
Toolbars in caption are not styled correctly	IDE	RSP-24445 (https://quality.embarcadero.com/browse/RSP-24445)
Tools/Options/[..]/Formatierung/Delphi page is empty	IDE	RSP-22145 (https://quality.embarcadero.com/browse/RSP-22145)

		om/browse/RSP-22145)
TOTADockForm is not registered for Theming	IDE	RSP-22072 (https://quality.embarcadero.com/browse/RSP-22072)
Unable to load project	IDE	RSP-21201 (https://quality.embarcadero.com/browse/RSP-21201)
Unnormal Extact Method for control statement that contains case statement	IDE	RSP-24259 (https://quality.embarcadero.com/browse/RSP-24259)
Unresponsive IDE and massive memory leaks with RIO	IDE	RSP-23000 (https://quality.embarcadero.com/browse/RSP-23000)
Using Template in component packages with clang 32-bit compiler	IDE	RSP-21768 (https://quality.embarcadero.com/browse/RSP-21768)
wrong path to gdbserver	IDE	RSP-23825 (https://quality.embarcadero.com/browse/RSP-23825)
Error when using high resolution monitor (3840 * 2160) on Windows 10	IDE, IDE\General	RSP-19613 (https://quality.embarcadero.com/browse/RSP-19613)

IDE loads wrong form/sourcecode from a projektgroup on debugging	IDE, IDE\General	RSP-14878 (https://quality.embarcadero.com/browse/RSP-14878)
Missing Fastreport setup during the installation	IDE, Install	RSP-21717 (https://quality.embarcadero.com/browse/RSP-21717)
The Notification platform is unavailable	IDE, RTL	RSP-22898 (https://quality.embarcadero.com/browse/RSP-22898)
VCL Control - CheckBox - RadioButton and possible others do not change colors	IDE, VCL	RSP-19875 (https://quality.embarcadero.com/browse/RSP-19875)
Cannot create new component derived from TComponent in C++ Builder 10.3	IDE\Build System	RSP-23486 (https://quality.embarcadero.com/browse/RSP-23486)
10.3.1 does not install Help and Samples	Install	RSP-24071 (https://quality.embarcadero.com/browse/RSP-24071)
After install of the BOOST using GetIt all paths of the third party libraries will be removed	Install	RSP-17472 (https://quality.embarcadero.com/browse/RSP-17472)
Can't install Delphi Community Edition	Install	RSP-24316 (https://quality.embarcadero.com/browse/RSP-24316)

		embarcadero.com/browse/RSP-24316)
February 2018 hotfix description is awkward to read	Install	RSP-19961 (https://quality.embarcadero.com/browse/RSP-19961)
ISO file does not install properly	Install	RSP-24160 (https://quality.embarcadero.com/browse/RSP-24160)
Unnecessary/Unwanted OS X files installed	Install	RSP-21715 (https://quality.embarcadero.com/browse/RSP-21715)
GetIt Package Manager' installs old version of the 'FMX.PhotoEditorDemo' demo	Libraries and Frameworks	RSP-23071 (https://quality.embarcadero.com/browse/RSP-23071)
Android signing looks at wrong drive	Linker	RSP-17167 (https://quality.embarcadero.com/browse/RSP-17167)
Bugs fixing for linker in C++Builder 10.3 building Isapi Soap Server	Linker	RSP-23130 (https://quality.embarcadero.com/browse/RSP-23130)
linker error LME 1608	Linker	RSP-21492 (https://quality.embarcadero.com/browse/RSP-

		P-21492)
Linker warnings	Linker	RSP-18744 (https://quality.embarcadero.com/browse/RSP-18744)
Programs which compiled and linked in 10.2 now generate an OMF link error in 10.3	Linker	RSP-22890 (https://quality.embarcadero.com/browse/RSP-22890)
Unable to perform link: Error detected (LME200)	Linker	RSP-19235 (https://quality.embarcadero.com/browse/RSP-19235)
comdef.h is not valid C++17	RTL, RTL\C++	RSP-24003 (https://quality.embarcadero.com/browse/RSP-24003)
error in std::string_view::find_last_not_of	RTL, RTL\C++	RSP-21697 (https://quality.embarcadero.com/browse/RSP-21697)
std::_Exit() is not implemented	RTL, RTL\C++	RSP-24279 (https://quality.embarcadero.com/browse/RSP-24279)
std::atomic fails to compile	RTL, RTL\C++	RSP-24002 (https://quality.embarcadero.com/browse/RSP-24002)
std::variant Win64 error	RTL, RTL\C++	RSP-21826

		https://quality.embarcadero.com/browse/RSP-21826)
TThread memory leak in standalone 64-bit C++Builder VCL application	RTL, RTL\C++	RSP-18970 (https://quality.embarcadero.com/browse/RSP-18970))
Unable to compile RTL	RTL, RTL\C++	RSP-20941 (https://quality.embarcadero.com/browse/RSP-20941))
winapifamily.h file not found	RTL, RTL\C++	RSP-23674 (https://quality.embarcadero.com/browse/RSP-23674))
_com_issue_error	RTL, RTL\C++, RTL\C++\Other	RSP-23625 (https://quality.embarcadero.com/browse/RSP-23625))
[MacOS] Calling Macapi.Foundation functions produce unexpected AV error	RTL, RTL\Delphi	RSP-15860 (https://quality.embarcadero.com/browse/RSP-15860))
Abstract error on Windows 10 computers	RTL, RTL\Delphi	RSP-18284 (https://quality.embarcadero.com/browse/RSP-18284))
Access violations using inline variables for Windows 64-bit VCL project	RTL, RTL\Delphi	RSP-23194 (https://quality.embarcadero.com/browse/RSP-23194))

		om/browse/RS P-23194)
Boolean type redeclaration fails with RTTI	RTL, RTL\Delphi	RSP-23537 (https://quality.embarcadero.com/browse/RS P-23537)
Bug in calling procedure functions with a var ShortString parameter.	RTL, RTL\Delphi	RSP-23004 (https://quality.embarcadero.com/browse/RS P-23004)
bug with TFileStream.Create mode fmShareExclusive	RTL, RTL\Delphi	RSP-23826 (https://quality.embarcadero.com/browse/RS P-23826)
Command line switches are not parsed correctly	RTL, RTL\Delphi	RSP-22115 (https://quality.embarcadero.com/browse/RS P-22115)
Exception when setting record property through RTTI (x64)	RTL, RTL\Delphi	RSP-23068 (https://quality.embarcadero.com/browse/RS P-23068)
Exception when using inline var of record with managed fields	RTL, RTL\Delphi	RSP-23747 (https://quality.embarcadero.com/browse/RS P-23747)
Firebase Android Patch Crash	RTL, RTL\Delphi	RSP-24648 (https://quality.embarcadero.com/browse/RS P-24648)

Implement Macapi.OcBlocks for OS X	RTL, RTL\Delphi	RSP-11504 (https://quality.embarcadero.com/browse/RSP-11504)
In Android, code hangs when setting helper property of 4th instance of THTTPClient	RTL, RTL\Delphi	RSP-23923 (https://quality.embarcadero.com/browse/RSP-23923)
Managed records should not affect object creations and other places negatively	RTL, RTL\Delphi	RSP-24230 (https://quality.embarcadero.com/browse/RSP-24230)
NSLog macOS API not defined in RTL imports	RTL, RTL\Delphi	RSP-15939 (https://quality.embarcadero.com/browse/RSP-15939)
Overriding attributes properties in descendants in json serialization	RTL, RTL\Delphi	RSP-23888 (https://quality.embarcadero.com/browse/RSP-23888)
SOAP implementation in Delphi 10.3.x not functioning / causing application/UI to 'sleep' on Android 9 (possibly earlier versions of Android)	RTL, RTL\Delphi	RSP-24258 (https://quality.embarcadero.com/browse/RSP-24258)
System copy raises ACCESS_VIOLATION error when source is referencie to ShortString on Target Platform Windows 64-bit	RTL, RTL\Delphi	RSP-24686 (https://quality.embarcadero.com/browse/RSP-24686)
THTTPCLIENT shouldn't raise exception on Cert expiry=0	RTL, RTL\Delphi	RSP-15858 (https://quality.embarcadero.com/browse/RSP-15858)

		embarcadero.com/browse/RSP-15858)
TJson.ObjectToJsonObject Broken for Classes With Lists	RTL, RTL\Delphi	RSP-23561 (https://quality.embarcadero.com/browse/RSP-23561)
TNetHttpClient can't work in multithread under android	RTL, RTL\Delphi	RSP-23742 (https://quality.embarcadero.com/browse/RSP-23742)
TStringList.SortedIndexOfName still doesn't work corret	RTL, RTL\Delphi	RSP-23753 (https://quality.embarcadero.com/browse/RSP-23753)
Type inference of for-in statement using TDictionary fails	RTL, RTL\Delphi	RSP-21632 (https://quality.embarcadero.com/browse/RSP-21632)
Wrong json serialization UInt64 values.	RTL, RTL\Delphi	RSP-23889 (https://quality.embarcadero.com/browse/RSP-23889)
DateTimeToXMLTime produce a memory leak when called for old dates	RTL, RTL\Delphi, RTL\Delphi\Date/Time	RSP-24034 (https://quality.embarcadero.com/browse/RSP-24034)
GetGMTDateTime function in Macapi.Helpers and FMX.Helpers.Mac does not support fractional time zones	RTL, RTL\Delphi, RTL\Delphi\Date/Time	RSP-18536 (https://quality.embarcadero.com/browse/RSP-

		P-18536)
TLocalTimeZone causes a memory leak	RTL, RTL\Delphi, RTL\Delphi\Date/Time	RSP-24156 (https://quality.embarcadero.com/browse/RSP-24156)
TListHelper.InternalMove[1-N] does not check if CurlIndex is in valid range	RTL, RTL\Delphi, RTL\Delphi\List/Collections	
Broken compatibility between TRESTRequest Delphi 10.2 & 10.3	RTL, RTL\Delphi, RTL\Delphi\Net	RSP-24227 (https://quality.embarcadero.com/browse/RSP-24227)
Exception in Net.HttpClient.Android when server returns code 401	RTL, RTL\Delphi, RTL\Delphi\Net	RSP-20592 (https://quality.embarcadero.com/browse/RSP-20592)
THttpClient - Abort in ReceiveData Event	RTL, RTL\Delphi, RTL\Delphi\Net	RSP-12879 (https://quality.embarcadero.com/browse/RSP-12879)
THttpClient failed if client certificates are optional	RTL, RTL\Delphi, RTL\Delphi\Net	RSP-21843 (https://quality.embarcadero.com/browse/RSP-21843)
[iOS][macOS] CocoaNSStringConst raises AV when the ConstStr does not exist	RTL, RTL\Delphi, RTL\Delphi\Other	RSP-15967 (https://quality.embarcadero.com/browse/RSP-15967)
Can not getting BLE characteristic on Windows 10.	RTL, RTL\Delphi\Bluetooth	RSP-20619 (https://quality.embarcadero.com/browse/RSP-20619)

Memory Leak When Using Date Function	RTL\Delphi	RSP-24166 (https://quality.embarcadero.com/browse/RSP-24166)
TJsonSerializer.Deserialize unrecognizable character	RTL\Delphi	RSP-24262 (https://quality.embarcadero.com/browse/RSP-24262)
TJSONString.IsNull returns true if chars added via TJSONString.AddChar	RTL\Delphi	RSP-23714 (https://quality.embarcadero.com/browse/RSP-23714)
TJsonTextReader.Rewind does not cause JSON to be re-read from the beginning	RTL\Delphi	RSP-24517 (https://quality.embarcadero.com/browse/RSP-24517)
Error in TAndroidHTTPClient.SetAuthResponse	RTL\Delphi\Net	RSP-24267 (https://quality.embarcadero.com/browse/RSP-24267)
NetHTTPClient DivideByZero and Invalid Floating Point Errors	RTL\Delphi\Net	RSP-23762 (https://quality.embarcadero.com/browse/RSP-23762)
Property SerialNum doesn't exist in the component TClientCert	RTL\Delphi\Net	RSP-23132 (https://quality.embarcadero.com/browse/RSP-23132)
RESTRequest->Execute() causing crash and close of android app	RTL\Delphi\Net	RSP-23424 (https://quality.embarcadero.com/browse/RSP-23424)

		embarcadero.com/browse/RSP-23424)
Self-Signed HTTPS request works on Windows but raises Exception on Linux	RTL\Delphi\Net	
System.Net.Socket Send(TBytes) doesn't get the length correct	RTL\Delphi\Net	RSP-23558 (https://quality.embarcadero.com/browse/RSP-23558)
THttpClient cause EAccessViolation because of bad ref counting	RTL\Delphi\Net	RSP-24337 (https://quality.embarcadero.com/browse/RSP-24337)
THttpClient on macOS fails to handle client certificates	RTL\Delphi\Net	RSP-18523 (https://quality.embarcadero.com/browse/RSP-18523)
TRestClient Freeze only in Android.	RTL\Delphi\Net	RSP-24502 (https://quality.embarcadero.com/browse/RSP-24502)
Android application locking	SOAP	RSP-23699 (https://quality.embarcadero.com/browse/RSP-23699)
Basic Authentication in THTTPIO don't work under Android	SOAP	RSP-15212 (https://quality.embarcadero.com/browse/RSP-15212)
ESOAPHTTPException property StatusCode removed in Delphi 10.3	SOAP	RSP-23432 (https://quality.embarcadero.com/browse/RSP-23432)

		wse/RS P-2343 2)
Property CertName doesn't exist in the component TClientCert	SOAP	RSP- 23143 (https:// quality. embarc adero.c om/bro wse/RS P-2314 3))
THTTPReqResp broken due to loss of OnWinInetError - could not catch/react at HTTP_STATUS_DENIED and other origon HTTP_STATUS codes	SOAP	RSP- 24402 (https:// quality. embarc adero.c om/bro wse/RS P-2440 2))
THttpRIO and OnNeedClientCertificate	SOAP	RSP- 23641 (https:// quality. embarc adero.c om/bro wse/RS P-2364 1))
THttpRio broken connect to webservice with ntlm authorization using autologon	SOAP	RSP- 23869 (https:// quality. embarc adero.c om/bro wse/RS P-2386 9))
THTTPIO->HTTPWebNode->ClientCertificate CertName and SerialNumber missing	SOAP	RSP- 21907 (https:// quality. embarc adero.c om/bro wse/RS P-2190 7))
[Regression] TDateTimePicker does not accept in Time property value 00:00:00	VCL	RSP- 23256 (https:// quality. embarc adero.c om/bro wse/RS P-2325 6))
[REGRESSION] TPicture.LoadFromStream loads empty picture	VCL	RSP- 24474 (https:// quality. embarc adero.c om/bro wse/RS P-2447 4))
[Windows] DPI scaling in Tabsheet/Pagecontrol works unexpectedly	VCL	RSP-

		15365 (https://quality.embarcadero.com/browse/RSP-15365)
application is in the background after it has been closed	VCL	RSP-20386 (https://quality.embarcadero.com/browse/RSP-20386)
Arc segments drawn wrong in Direct2D	VCL	RSP-21860 (https://quality.embarcadero.com/browse/RSP-21860)
Bug In popupMenu with VCL Style	VCL	RSP-15476 (https://quality.embarcadero.com/browse/RSP-15476)
Calling ScaleForPPI causes a window to appear before Application.Run	VCL	RSP-24650 (https://quality.embarcadero.com/browse/RSP-24650)
class constructor TDirect2DCanvas.Create calling can AV app on WinXP	VCL	RSP-21822 (https://quality.embarcadero.com/browse/RSP-21822)
Drawing a palette based TPngImage with tRNS transparency fails	VCL	RSP-16446 (https://quality.embarcadero.com/browse/RSP-16446)
Dropdown arrow is tiny in high DPI	VCL	RSP-21255 (https://quality.embarc

		adero.com/browse/RS P-21255)
Error activating ClientDataSet	VCL	RSP-24115 (https://quality.embarcadero.com/browse/RS P-24115)
Frozen application en 125% DPI if WsMaximized	VCL	RSP-24142 (https://quality.embarcadero.com/browse/RS P-24142)
maximized form VCL	VCL	RSP-23320 (https://quality.embarcadero.com/browse/RS P-23320)
Multiple Improvements (with Code)	VCL	RSP-19872 (https://quality.embarcadero.com/browse/RS P-19872)
OnDrawItem not called for a top-level TMenuItem after Style change	VCL	RSP-19436 (https://quality.embarcadero.com/browse/RS P-19436)
Paint problems with visual style enabled VCL application	VCL	RSP-20068 (https://quality.embarcadero.com/browse/RS P-20068)
Problems if "Windows Push Notifications User Service XXX" services is not running	VCL	RSP-22869 (https://quality.embarcadero.com/browse/RS

		P-22869)
Right To Left Style issues with TCategoryPanelGroup	VCL	RSP-19243 (https://quality.embarcadero.com/browse/RSP-19243)
ScaleFactor never changes for TForm	VCL	RSP-21702 (https://quality.embarcadero.com/browse/RSP-21702)
Separator line is not displayed correctly on TMainMenu	VCL	RSP-23209 (https://quality.embarcadero.com/browse/RSP-23209)
Set ReadOnly to TComboBox with Style = csDropDown	VCL	RSP-11522 (https://quality.embarcadero.com/browse/RSP-11522)
TCustomEdit executes VK_DELETE while observer forbids	VCL	RSP-24741 (https://quality.embarcadero.com/browse/RSP-24741)
TDateTimePicker OnUserInput unusable	VCL	RSP-21555 (https://quality.embarcadero.com/browse/RSP-21555)
tDrawGrid, DPI change can freeze the computer	VCL	RSP-24430 (https://quality.embarcadero.com/browse/RSP-24430)
TFileSaveDialog always returns 0	VCL	RSP-24525

		https://quality.embarcadero.com/browse/RSP-24525)
TFindDialog problems in VCL styled application	VCL	RSP-17848 (https://quality.embarcadero.com/browse/RSP-17848))
TFrame AlignWithMargins at DesignTime	VCL	RSP-20413 (https://quality.embarcadero.com/browse/RSP-20413))
TFrame, Align := alClient + AlignWithMargins	VCL	RSP-19063 (https://quality.embarcadero.com/browse/RSP-19063))
TIcon does not support PNG-format icons and throws EOutOfResources	VCL	RSP-21318 (https://quality.embarcadero.com/browse/RSP-21318))
TLabel on a TRelativePanel on a RUNTIME inserted frame scaled twice	VCL	RSP-21933 (https://quality.embarcadero.com/browse/RSP-21933))
TListView in vsReport mode does not scale properly	VCL	RSP-24006 (https://quality.embarcadero.com/browse/RSP-24006))
TListView, image bkg color wrong on selected, scroll thump and cursor don't align	VCL	RSP-16624 (https://quality.embarcadero.com/browse/RSP-16624))

		om/browse/RSP-16624)
TScrollingStyleHook.WMMouseMove wrong behaviour, when outside of the scrollbar when styled	VCL	RSP-17684 (https://quality.embarcadero.com/browse/RSP-17684)
TTouchKeyboard "6" to wide	VCL	RSP-16321 (https://quality.embarcadero.com/browse/RSP-16321)
TTreeview contextmenu Y-pos	VCL	RSP-23614 (https://quality.embarcadero.com/browse/RSP-23614)
Vcl.Graphics.pas finalization does not set ClipboardFormats to nil after Free	VCL	RSP-24649 (https://quality.embarcadero.com/browse/RSP-24649)
VCL.Menus.pas TMenu malfunction	VCL	RSP-23138 (https://quality.embarcadero.com/browse/RSP-23138)
wsMaximised modal dialogs cause application to hang	VCL	RSP-23722 (https://quality.embarcadero.com/browse/RSP-23722)

See Also

- [10.3 Rio - Release 2](#)

This page was last edited on 7 August 2019, at 05:23.