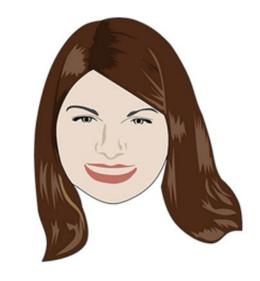
# embarcadero®

10.3.2 Launch Webinar



See What's New in 10.3.2

#### RAD Studio PM Team



Sarina DuPont sarina.dupont@embarcadero.com



David Millington david.millington@embarcadero.com



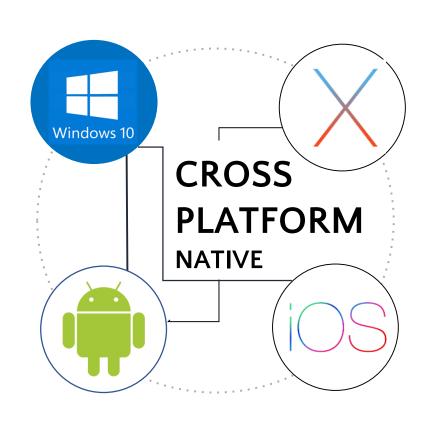
Marco Cantù marco.cantu@embarcadero.com

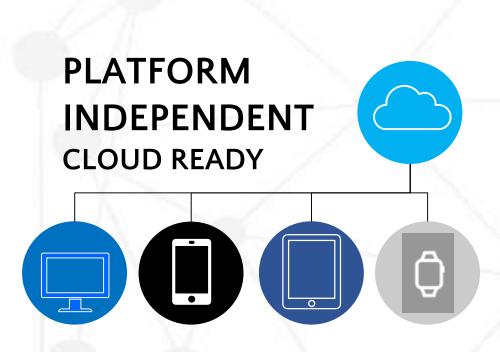


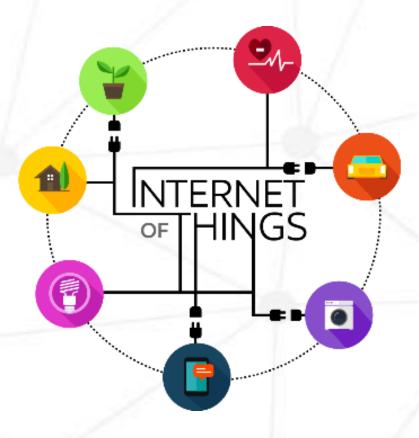
#### What is RAD Studio?



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





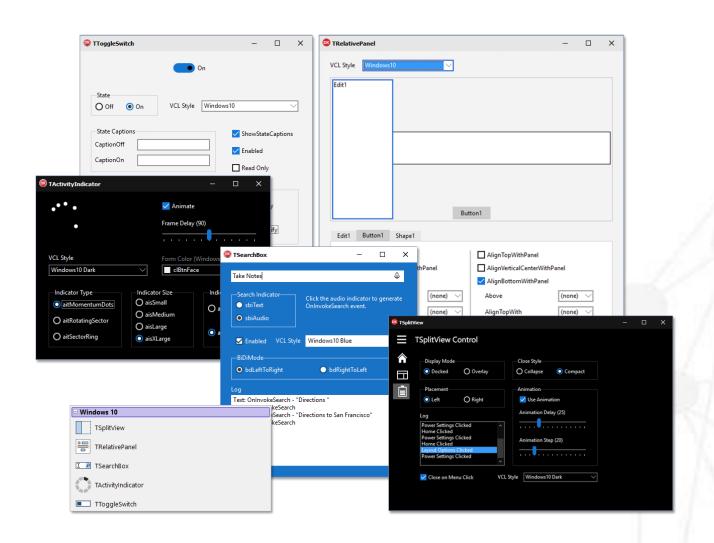


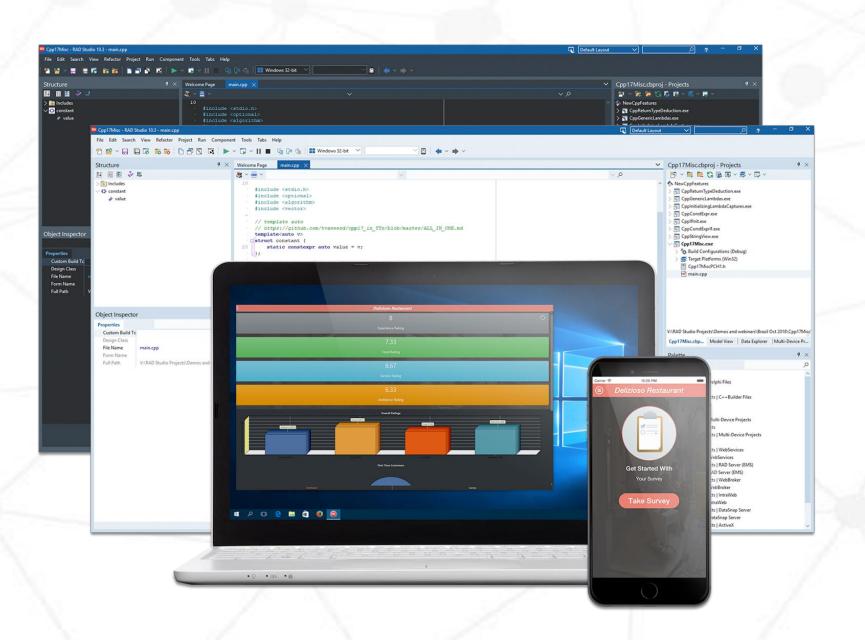


#### Fast, Visual Development



RAD Studio provides powerful VCL controls for Windows 10 and enables FMX multi-device application development for Windows, Mac, Linux, iOS and Android







### RAD Studio Platform Support



Target the latest versions of major operating systems with one codebase!



Officially Supporting

(Delphi Only)



#### What's New in 10.3.2



- Delphi macOS 64-bit
- C++17 for Windows 64-bit
- C++ LSP Code Insight Improvements & New Features
- RAD Server Wizards and Deployment Improvements
- Android Push Notification Support with Firebase
- Delphi Linux FireMonkey GUI Application Support
- Many Quality Improvements throughout





#### macOS 64-bit application support for Delphi

Support the Mac App Store and prepare for the upcoming 64-bit-only version of macOS

- Build App Store ready macOS 64-bit applications
  - Includes macOS notarization support
- New Delphi compiler for the macOS 64-bit platform, based on the LLVM compiler infrastructure
  - Non-ARC model like all other Delphi desktop and server platforms
  - Extensive RTL support
- Complete support for the FireMonkey library and all FireMonkey controls previously available on the macOS 32-bit platform
- Support for the database RTL and the FireDAC client access library
  - InterBase support for Delphi macOS 64-bit
- Quality Improvements in macOS FMX support for both 32-bit and 64-bit

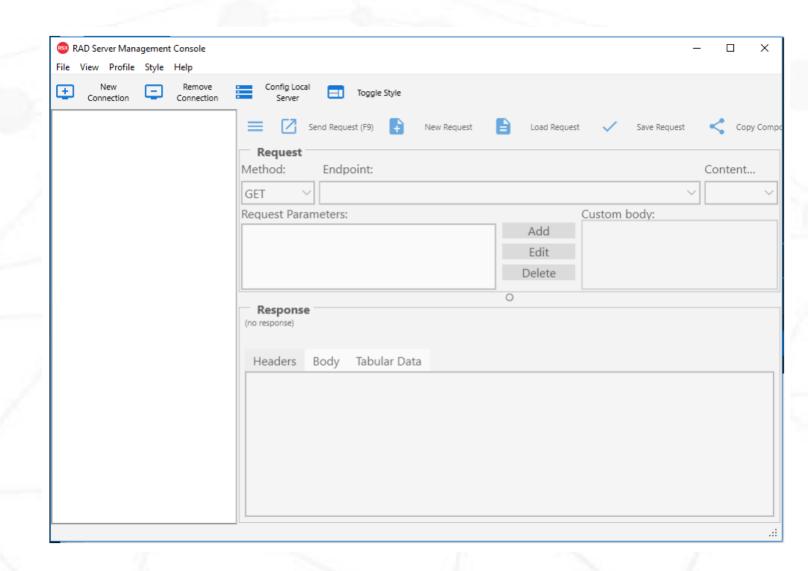




#### RAD Server Wizards and Deployment Improvements

Much easier configuration, deployment and management for RAD Server multi-tier

- Improvements to the RAD Server wizards for automatic FireDAC database mapping and API documentation
  - Smoother Swagger API documentation and support for Swagger-UI
- New RAD Server Management Console with configuration editor and integrated REST debugger for quickly executing a generic REST call against the server
- Simplified deployment process with installers for Linux and Windows servers



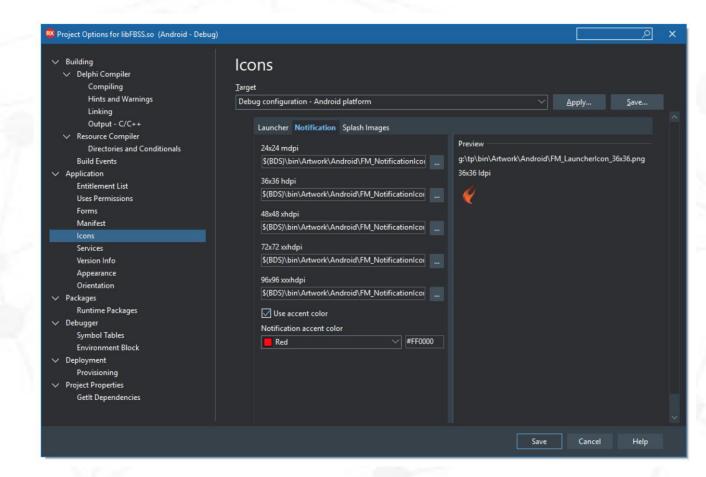


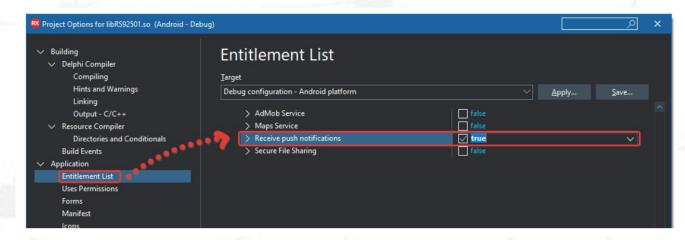


#### Android Push Notification Support with Firebase

Push notifications are a key feature for many apps - we now support the latest standards from Google

- FireBase push notification support for your FireMonkey 10.3.2 Android applications
  - Replaces deprecated Google Cloud Messaging
- Provided as part of our Android platform support
  - Includes improvements to icons for all types of notifications
  - Includes updates to Google Play Services and Maps to match Firebase version support requirements





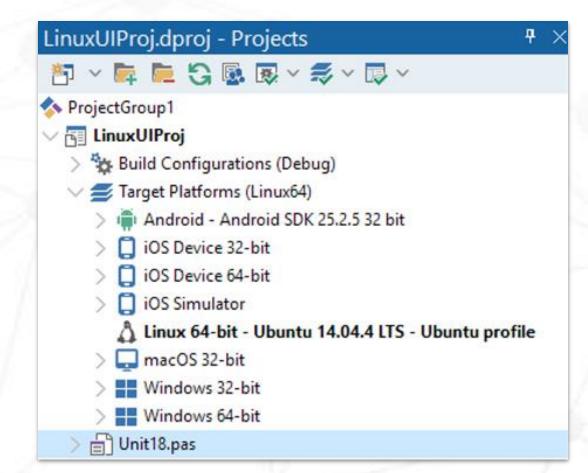


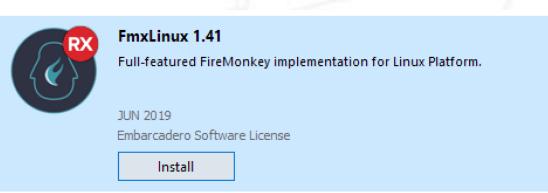


#### FMX Linux for Delphi

You can now create Linux desktop apps with FMX GUI

- Easily build GUI applications for popular Linux distributions
- Extends Delphi's FireMonkey cross-platform framework
- Includes several ready-to-use user interface styles
- Many of the FMX components, such as grids, widgets, etc. work seamlessly on Linux clients
- Leverage RAD Studio's innovative features, such as Live Bindings, and much more, in your Linux client applications
- Available via GetIt for Enterprise and Architect Edition customers









#### C++17 for Windows 64-bit



Leverage the latest C++ language features in apps built for both Win32 and Win64, with complete C++17 support for Windows

- C++17 Clang-enhanced compiler and toolchain for Win64 (bcc64),
   meaning C++17 is available for both Win32 and Win64 targets
- C++ runtime library (RTL) built with the updated Clang-enhanced compiler for Win64, including current edition of Dinkumware STL
- Also includes support for C++14
- Boost library support for both Win32 and Win64
- <a href="http://docwiki.embarcadero.com/RADStudio/Rio/en/Clang-enhanced\_C%2B%2B\_Compilers">http://docwiki.embarcadero.com/RADStudio/Rio/en/Clang-enhanced\_C%2B%2B\_Compilers</a>



#### C++17 for Windows 64-bit

- http://docwiki.embarcadero.com/RADStudio/Rio/en/Modern\_C%2B %2B\_Features\_Supported\_by\_RAD\_Studio\_Clangenhanced\_C%2B%2B\_Compilers
- <u>BCC32</u> also supports the C++11 features described in <u>C++11 Features in</u> the Classic Compiler.
- Note: When using the keywords specific to C++11, such as nullptr, noexcept, and so on (see <a href="http://en.cppreference.com/w/cpp/keyword">http://en.cppreference.com/w/cpp/keyword</a> for complete list), RAD Studio IDE always recognizes these keywords, but the C++ previous-generation compilers (<a href="https://en.cppreference.com/w/cpp/keyword">BCCOSX</a>) return a compilation error. Please note that only <a href="https://en.cppreference.com/w/cpp/keyword">Clang-enhanced C++</a> compilers support the C++11 standard.



#### Boost Library Support for Windows 64-bit

This key and widely used C++ library is available inbuilt with C++Builder

- A set of C++ libraries that significantly expand the C++ programming language using template meta programming
  - Templates are a core feature of C++, similar to generics in Delphi
  - Metaprogramming being compile-time execution (ish), complex code handled by the compiler not at runtime
- We provide support for a subset of Boost that has been fully tested and pre-configured specifically for C++Builder
- For both 32-bit and 64-bit Windows
- Up-to-date version (v1.68)
- Available for download via GetIt
- (Classic compiler Boost also available)







#### C++ LSP Code Completion Improvements

Key productivity features in the IDE are now available for the modern Clang-enhanced compiler

- C++Builder 10.3.2 offers full featured Code Insight support for C++ with the Clang-enhanced compiler
- Improvements to code completion, including accuracy
- Adds new features such as Parameter Completion, Tooltip Insight and Go To Definition, providing feature parity between the classic and modern compilers

TRect x = clientrect

- Significantly improves these features compared to the classic version by making them asynchronous and non-blocking
- Includes many performance and quality improvements



#### 10.3.2 Key Quality Enhancements



- Runtime Library Performance Enhancements
- Significant VCL quality improvements
- C++17 Quality (compiler, RTL, STL, and more)
- C++ code completion accuracy and functionality
- IDE UX Quality
- FireMonkey Platform Enhancements
- HTTP & REST Improvements
- FireDAC & Database

10.3.2 addresses 400 publicly reported quality issues

<a href="http://docwiki.embarcadero.com/RADStudio/Rio/en/10.3\_Rio\_-">http://docwiki.embarcadero.com/RADStudio/Rio/en/10.3\_Rio\_-</a>

Release 2#Enhancements included in 10.3.2





#### 10.3.2 Installation

- Uses new and existing Update Subscription keys
- Installation and Add-Ons only available to customers current on Subscription
- Customers can import existing registry settings
- Both GetIt and InstallAware installers are available
  - As always, it is recommended that customers install the update release using the same installer technology they used previously

10.3.2 is available for all SKUs including Community Edition

https://community.idera.com/developertools/b/blog/posts/temporary-10-3-2-getit-server-for-installing-10-3-2-add-on-packages

embarcadero

#### 10.3.2 Installation

- <a href="https://community.idera.com/developer-tools/b/blog/posts/new-10-3-2-getit-installer">https://community.idera.com/developer-tools/b/blog/posts/new-10-3-2-getit-installer</a>
- New 10.3.2 GetIt download
- - Registered User CodeCentral link: https://cc.embarcadero.com/item/30880
- Regular CodeCentral link (does not require EDN login): https://cc.embarcadero.com/item/30881

- ISO download (this points to the same ISO link provided in the workaround post)
- - Registered User CodeCentral link: https://cc.embarcadero.com/item/30883
- Regular CodeCentral link (does not require EDN login): https://cc.embarcadero.com/item/30882

### Google Play Store Android 32-bit Extension for Delphi & C++Builder Customers



- Google's Play Store team is considering extensions to the 64-bit requirement for our Delphi and C++Builder customers on an app-by-app basis
- Starting August 1st, 2019, only app *updates* to existing Android 32-bit applications will be considered for an extension by the Google Play Store team, not *new* 32-bit Android applications.
  - Embarcadero customers can submit extension requests for Android 32-bit app *updates* to *existing* Google Play Store applications until August 2020
- For new Android 32-bit applications, it's recommended that you submit them as soon as possible and start asking for an extension now, so that you are not impacted by the deadline come August 1st

#### How to request an extension:

Visit our blog post at <a href="https://embt.co/32BitExtension">https://embt.co/32BitExtension</a> for steps

A Delphi Android 64-bit NDA Beta with Google Play Store deployment rights is planned for this summer\*

\* Features are not committed until completed and GA released



## Questions?

