



# RAD Studio 12

RAD Studio® is the ultimate IDE for rapidly building single-source multi-platform native apps in Delphi® and modern C++ with powerful visual design tools

- ✓ Single source code, any platform
- ✓ Target Windows 11, iOS 17 (Delphi only), macOS 14 Sonoma, Android 14, Ubuntu 22, and Windows Server 2022
- ✓ Compile for Android API 33
- ✓ Compile for macOS M-series processors
- ✓ Design on high-DPI 4k+ screens
- ✓ View VCL Styles in design time
- ✓ New & modernized VCL components
- ✓ Use enhanced remote desktop support to collaborate remotely

## Benefits

### BUILD APPS THE SMART WAY

RAD Studio delivers integrated tools to help you design, code, compile, test, and deploy every app you envision! RAD Studio's UI design tools and native performance are trusted by organizations for robust enterprise-level systems and are flexible enough for cutting-edge consumer apps. With a single codebase and responsive UI that compiles natively for each target platform, you can stop rewriting the same functionality for each additional device and focus on making great apps.

### WRITE YOUR BEST CODE

There are tons of RAD Studio advantages to improve code quality: powerful cross-platform libraries containing well-tested and highly optimized code, turning code documentation into immediate in-line help for your team. Easily integrate with version control systems including Git, Subversion and Mercurial. With all of these resources at your command, you can focus on creating elegant, sustainable code solutions.

### DEPLOY NATIVE CODE ON ALL MAJOR PLATFORMS

Compile natively and deploy to iOS, macOS, Android, Windows, and Linux from a single codebase, which makes programming and maintenance effortless for you while your users still have the advantages of a high-performance native app experience.

### DEBUG ACROSS TARGETED PLATFORMS

Eliminate bugs before QA files a ticket with integrated cross-platform native debugging. Using the RAD Studio IDE, you can debug applications running remotely on Windows, macOS, iOS, Android, and Linux! Use breakpoints, stack exploration, tool tips and expression evaluation on local and remote machines with live debugging across all deployment platforms.

### RAPIDLY BUILD RESPONSIVE UIs

Leverage RAD Studio's visual designer, the award-winning Visual Component Library (VCL) for Windows, the FireMonkey (FMX) framework for multi-device development, and hundreds of prebuilt and customizable components to quickly prototype and design responsive UIs. Adding device-specific layouts to your default design creates great user experiences for desktops and mobile devices. See your responsive UI changes live on several devices simultaneously by broadcasting the active form of your application with Live Device Preview. Fast, real-time design validation saves time for you and your team.

### STREAMLINE DEVELOPMENT CYCLES

RAD Studio's powerful built-in developer support tools help you meet quick sprints and aggressive release dates. Code Insight™ delivers fast code completion based on your code and used libraries, supplemented by inline documentation to give hints and tips supporting you as you write code. Use the code editor's advanced navigation tools, bookmarks, regions and more with refactorings to improve your code. Whether you're a junior developer or an expert, you'll find these features indispensable in improving productivity and meeting release dates.

### EASILY BUILD CONNECTED APPS

RAD Studio's AppTethering, RAD Server middleware and REST integration radically simplify the process of designing, building, and deploying connected apps across platforms and multiple form factors including desktops, smartphones, and tablets.



# Key Features

## CODE IN ONE, TWO, OR THREE LANGUAGES!

In RAD Studio, your development team can create both C++ and Delphi® applications using the same IDE and even intermix languages within the same application. RAD Studio Architect editions now include a Sencha ExtJS Professional edition license so you can build Javascript web-enabled client apps using Sencha's tools to complement your Delphi or C++ server applications.

## HUNDREDS OF PREBUILT COMPONENTS

RAD Studio offers an extensive collection of user interface controls and non-visual components augmented by a vast set of third-party libraries. There are several sophisticated grids, reporting engines, graphics rendering libraries, and more. RAD Studio ships with the basic versions of TeeChart for creating business graphs and FastReport for generating printed and PDF-based reports. It also provides easy access to enterprise data via Cloud components and the optional CData Enterprise Connectors.

## STUNNING WINDOWS USER INTERFACES

Developers report up to 5 times faster development using RAD Studio's high-DPI aware Visual Component Library (VCL) framework compared to other UI creation methods. With direct support for the traditional Windows API, Windows COM components, and the modern WinRT API, the VCL has excellent integration with the underlying operating system. VCL offers an easy to understand visual abstraction layer, which enables developers to rapidly turn their imagined interfaces into visually stunning reality.

## RESPONSIVE MULTI-DEVICE DESIGN

Other development teams recreate their software UI for each platform using a different language and a different IDE. RAD Studio's FireMonkey lets you write your responsive UI once, in one language, directly connected to your code, preview your changes live on devices, and quickly make platform- or device-specific changes.

## System Requirements

- 3 GB RAM (8 GB RAM recommended)
- 6-60 GB of available disk space depending on edition and configuration, including space required for temporary files
- DirectX 11 capable video card
- Intel Pentium or compatible, 1.8 GHz dual-core minimum (2 GHz+ quad-core recommended)
- 1440x900 or higher resolution
- Mouse or other pointing device
- .NET Framework 4.5 or later
- Microsoft Windows 10 or Windows 11 (64-bit)



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## GETIT PACKAGE MANAGER

Increase the functionality of your applications by downloading and integrating new components, libraries, and layouts, without leaving the IDE. Projects can list libraries as dependencies, ensuring they are automatically installed and available when you open a project on a new machine.

## BOOST PRODUCTIVITY WITH FIREDAC

Develop high-performance multi-device database applications: with its powerful common architecture, FireDAC enables native high-speed direct access from RAD Studio to InterBase, SQLite, MySQL, SQL Server, Oracle, PostgreSQL, IBM DB2, SQL Anywhere, Access, Firebird, Informix and more. Optional Enterprise Connectors make connecting to more than 80 enterprise software systems easy.

## INSTANTLY CREATE SERVICES-BASED SOFTWARE

RAD Server enables developers to quickly build new application back-ends or migrate existing client/server business logic to a modern REST services-based architecture that is open, stateless, secure and scalable. Utilize features like enterprise level permissions and built-in data store. Enterprise and Architect Editions include RAD Server deployment licenses.

## SECURE EMBEDDABLE DATABASE

Create lightweight, embedded database apps using the included InterBase licenses. From mobile apps to enterprise software, InterBase is scalable, fast, easy to maintain and supports encryption.

## EASILY PUBLISH TO APP STORES

Rapidly produce application bundles that work on Microsoft Store using MSIX packaging, as well as on Apple Store and Google Play.

## INCLUDES FIRST YEAR OF UPDATE SUBSCRIPTION

RAD Studio licenses are perpetual, but Update Subscription ensures you have access to the latest features in every new release as long as your subscription is active.

## Target Platforms

**Windows** PCs and tablets running Windows 11, Windows 10, Windows 7 (SP1+), Windows Server 2022, 2019 and 2016. For 64-bit Windows apps: PC running a 64-bit version of Windows or Windows Server 2022.

**iOS and iOS Simulator (Delphi only)** All requirements for macOS support plus a recent version of Xcode 15. An Apple Developer account is required to deploy iOS apps to physical devices, an iPhone or iPad running iOS 17, iOS 16, iOS 15 or iOS 14. iOS Simulator support requires a M-series (Apple Silicon) Mac.

**macOS (Delphi only)** PC Running Windows connected with an Intel-based or ARM-based Mac running macOS 14 Sonoma, 13 Ventura, 12 Monterey, 11 Big Sur, 10.15 Catalina. An ARM-based Mac is required for debugging ARM applications.

**Android (Delphi only)** An Android device that runs on AArch64 processors or ARMv7 processors with NEON support and running Android versions 14, 13, 12, 11, 10, 9 and 8.1.

**Linux (Delphi only)** A computer with Ubuntu 22, Ubuntu 20.04 LTS and 18.04 LTS, RedHat Enterprise Linux v8, WSL2 (Windows Subsystem for Linux).



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