

Migration and Modernisation

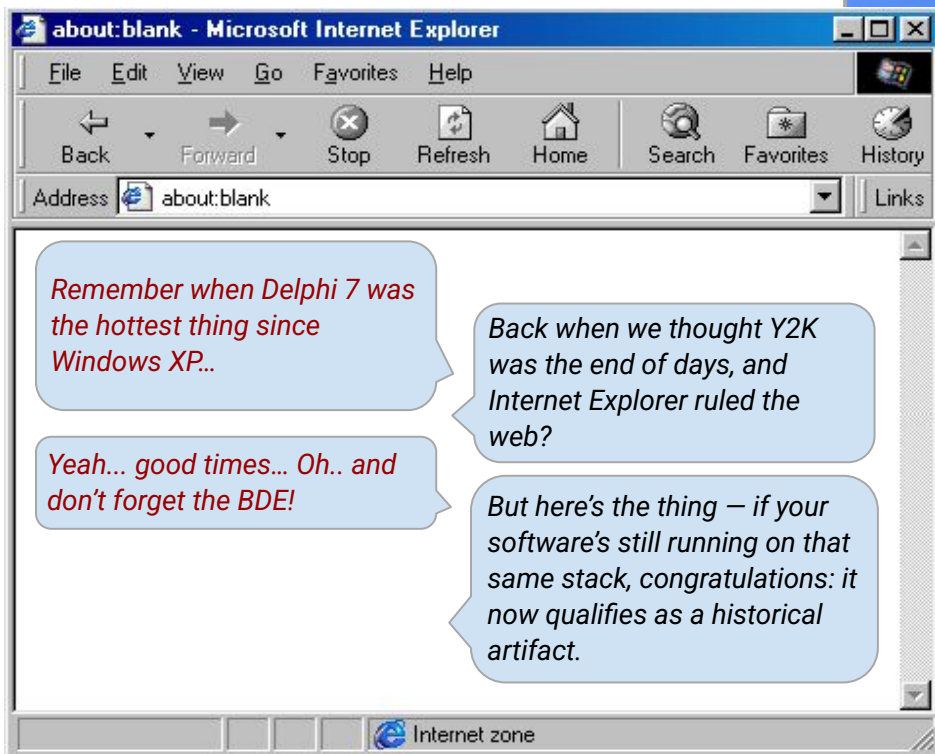
Stephen Ball

Pre-sales Director
Embarcadero Technologies
Stephen.ball@embarcadero.com



Hanging on to old Delphi versions is like refusing to upgrade your Nokia 3310 — sure, it works, but your customers are expecting Face ID, not Snake II.

Remember when...



You're not alone... and you're not the first!

Thousands of Delphi apps have already made the leap to modern versions

Proven migration tools and extensive documentation available

Large community support from developers who've done it before

Embarcadero migration partners ready to assist if needed

You're not paving a new road — you're following well-placed tire tracks



embarcadero.com/rad-in-action/migration-upgrade-center

Ready to take your apps to the next level? Upgrade to Enterprise today. [Contact sales](#)

My Downloads Upgrade Center My Customer Portal Contact Us

embarcadero

Products Free Tools Blogs Resources GetIt

Buy Now Renew

Home > Resources > Migration and Upgrade Center

Migration and Upgrade Center

Migration and Upgrade Resources for Delphi, C++Builder and RAD Studio


[Talk to a migration specialist today](#)

<Stuck on Delphi 7? 10? 11?>

We love Delphi 7 too.

But with every new release, there's more and more your apps could be doing.

And with flawless backward compatibility, it's time to upgrade your apps!



embarcadero.com/rad-in-action/migration-upgrade-center

Upgrade & Migration Need-to-Know

Unicode 64bit Migration Database and Middleware 3rd Party Components Monetization Ideas

Unicode

Unicode support was added to RAD Studio, Delphi and C++Builder starting with the 2009 version. Many migration resources were developed at that time but are still useful today if upgrading from a pre-Unicode (2007 or earlier) version.

Delphi has made migration over the decades relatively painless, however, this doesn't mean it's always effortless and Unicode is one area where some attention may be required!

First, some good news, in many cases legacy Delphi applications that convert to the current Delphi version do so with few or no modifications. If you are working primarily with VCL components (whose support for Unicode has in most cases been considered carefully), or components from third-party vendors who have taken the time to understand the implications of Unicode support, you have an advantage.

Don't panic if you use "millions of strings" in your application, it does NOT mean you have to change any code at all

Unicode Technical Overview

What determines the need to make any Unicode changes is how you're using strings and for what purposes. If you're not doing heavy text processing or manipulations and stick to the standard string operations, mostly likely your code will simply just work. Additionally, just because you have lots of string literals in your code that also doesn't necessarily mean you have to make any code changes. The most common things that you do have to watch for is file I/O and interfacing with external non-Delphi libraries and/or DLLs.

[Read more](#)

Security & Compliance: Stay Protected, Stay Compliant

Latest OS and Library Support: Support for the latest Windows, iOS, Android, and macOS versions ensures applications are aligned with **current platform security standards**.

Security **Patches** & Fixes: Only the **latest versions receive** regular updates and security patches.

Compliance with Government Mandates: **require vendors** to use software that is **actively supported and updated**.

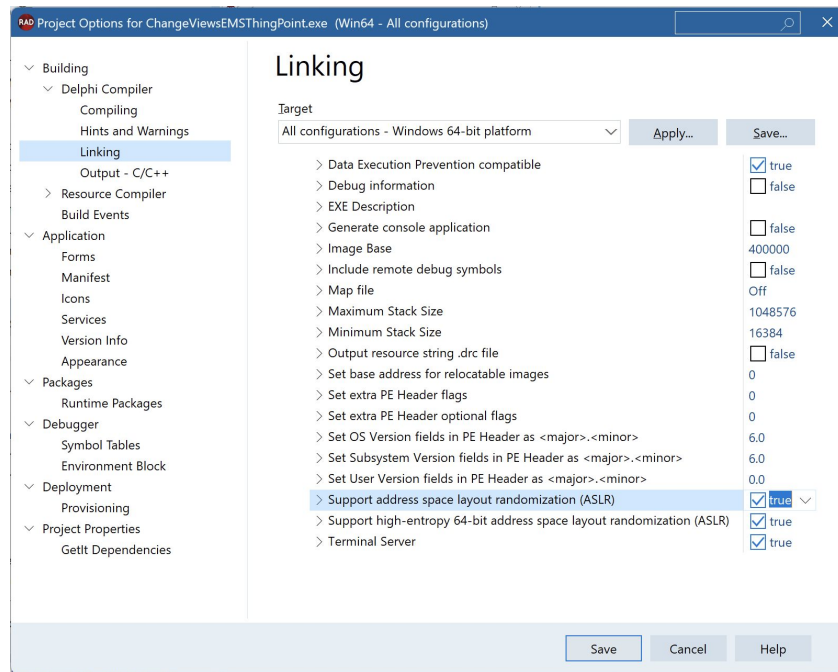
- Cyber Essentials UK
- US Federal Government,
- APRA CPS 234 in Australia



Memory Management & Performance

Optimised for Modern CPUs: Leverage hardware acceleration and updated compiler instructions for **better performance**.

Latest compiler switches to **protect** against memory attacks



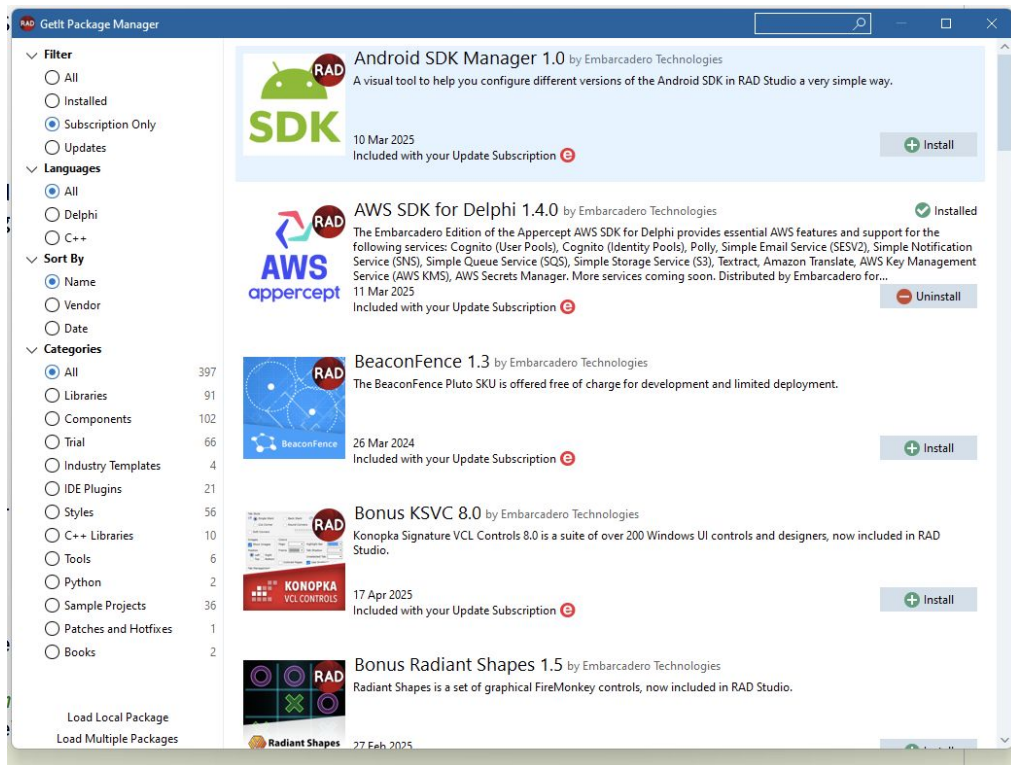
Ecosystem Compatibility & Integration

Improved

- database drivers,
- API support for the latest versions

Latest components from GetIt

- IDE tells you of updates



Risk Mitigation: Technical Debt & Unsupported Code

Unsupported Versions = Business Risk:

OS compatibility

- Mobile changes quickly.
- 64bit only Windows?

Modern codebases are easier for new developers to **onboard** and contribute to.



User Expectations & Competitive Pressure

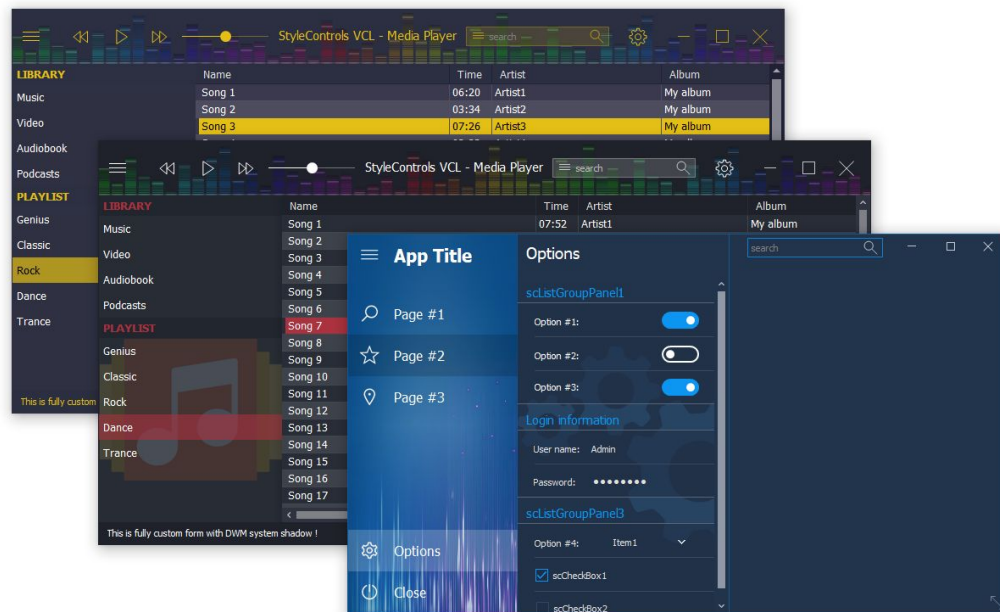
- **Modern UI/UX Expectations:**

- Modern applications require responsive UIs and native look-and-feel across devices, which newer Delphi versions support through FMX and updated **VCL styling**.

- **Cross-Platform Demand:**

- Windows,
- Linux
- macOS,
- iOS,
- Android,
- and the Web

from a single codebase — key to competing in today's app landscape.

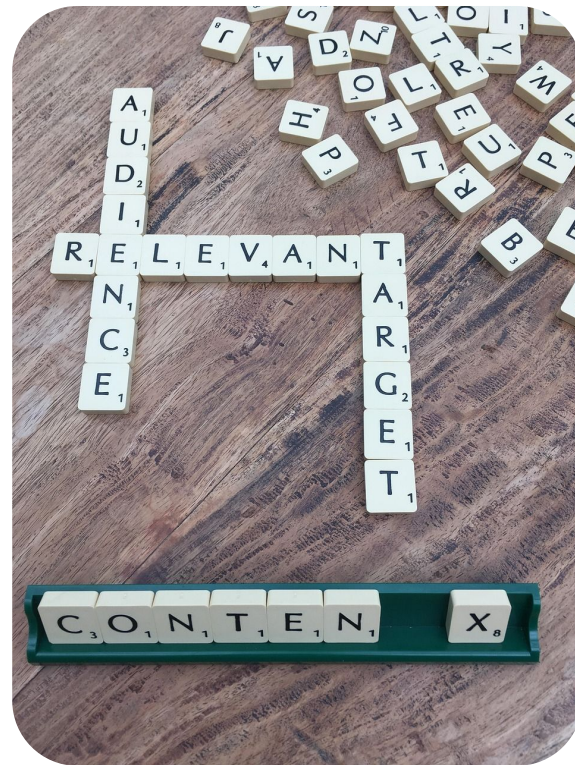


Business Continuity & Long-Term Planning

ISV Credibility: Customers expect their vendors to use up-to-date, supported development tools.

Support Contracts: Easier to maintain customer SLAs when you're on a supported IDE version.

Attracting Talent: Modern tooling is attractive to new developers who expect up-to-date development practices.





Q&A