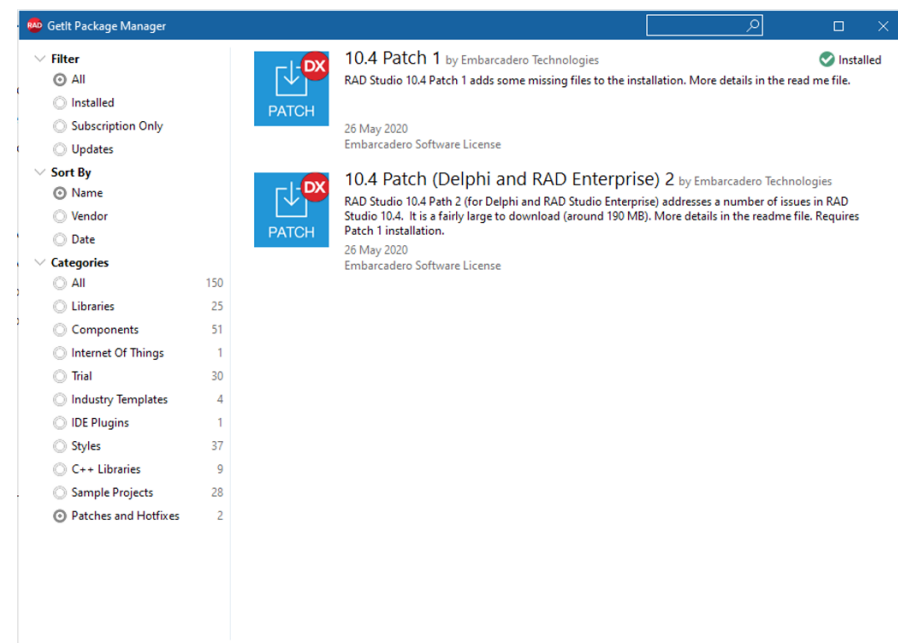_Marco Cantu_   17 Jul 2020

This patch addresses a number of issues in RAD Studio 10.4, pertaining to Delphi Compiler, the RAD Studio IDE in general and the new LSP-based Code Insight in particular, plus C++ Builder Android exceptions and some debugger issues.

The installation of this patch requires a prior installation of Patch #1 (separately available on GetIt and in the download portal). Installing this patch is recommended for all RAD Studio 10.4 customers. Note that this patch is fairly large to download (around 190 MB).

The patch includes detailed installation instructions as part of the Readme. Please read the steps carefully (or the corresponding steps in this blog post), as the GetIt download does not install the patch automatically. You must follow the instructions in order to install. Just using GetIt is not enough.

How to Download Patch 2

We recommend you use GetIt in the RAD Studio IDE to download the patch. The patch should be listed on the Welcome Page in the IDE, and available in the "Patches and Hotfixes" section of the GetIt Package Manager, as depicted here:

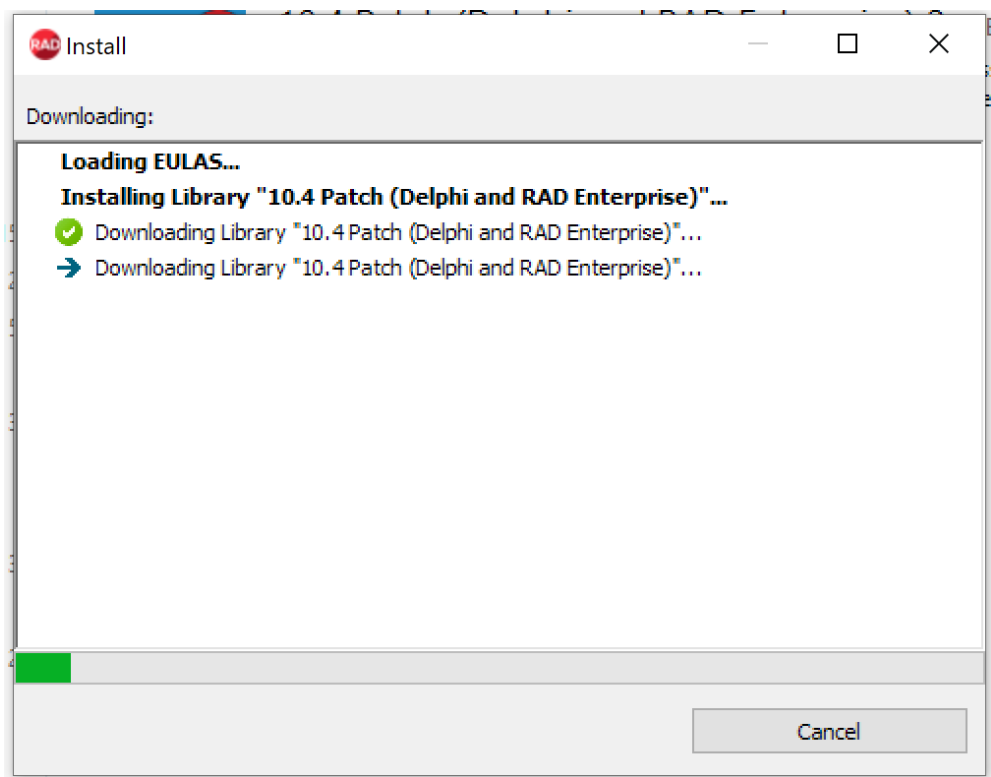There is more one patch, depending on your edition. You should see only one of them (Professional or Enteprise and for different personalities), install it.

Note: Installing Patch #2 through GetIt in the IDE requires an internet connection. If you installed RAD Studio via the Offline (ISO) Installer, you might also need to issue the command GetItCmd.exe -c=useonline (unless you have already issued the command once).

You can also download the patch via the new download portal, my.embarcadero.com, copy it to the development machine, unzip and follow the same installation steps.
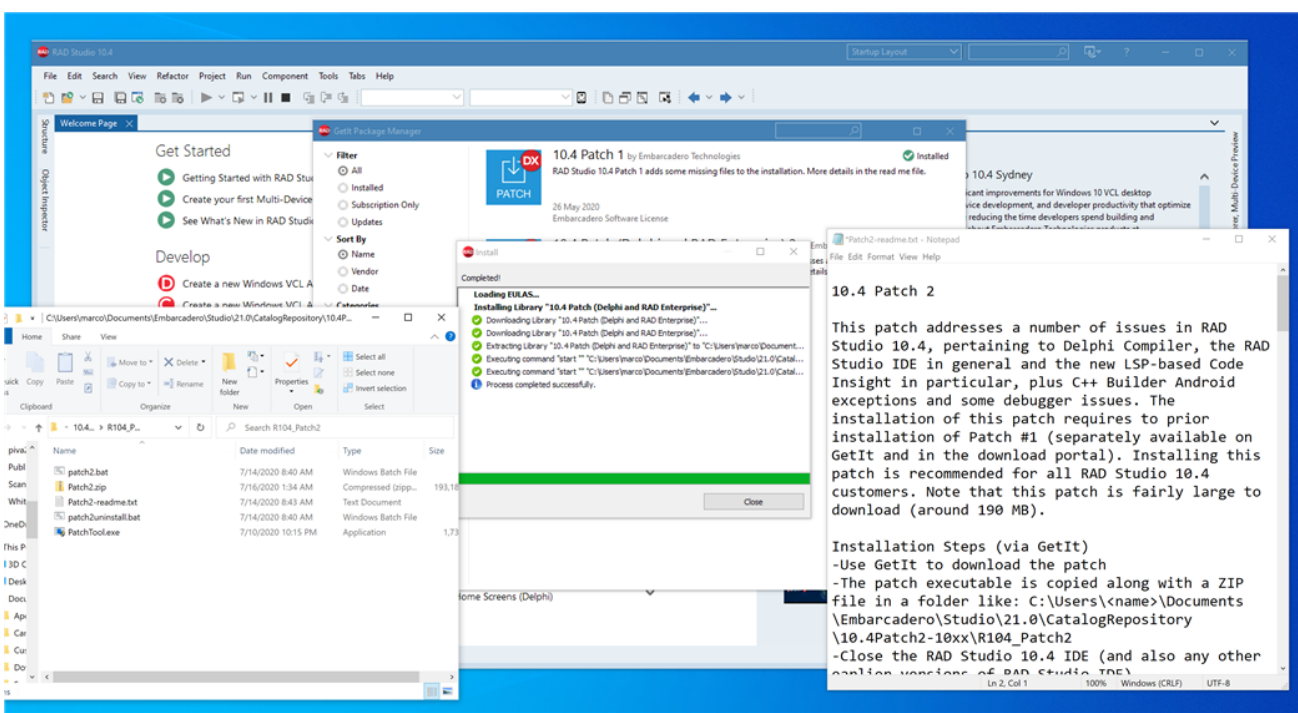
From GetIt once you select the Patch #2 and press the install button, it will ask you to accept the RAD Studio license (under which it is released). Agree to the license and it starts the download. This will take some time:

How to Install Patch 2

Once the download is completed, GetIt will open the readme file and the download folder (see below). The installation of Patch 2 needs to be done manually, as GetIt only downloads the patch, it does not install it.
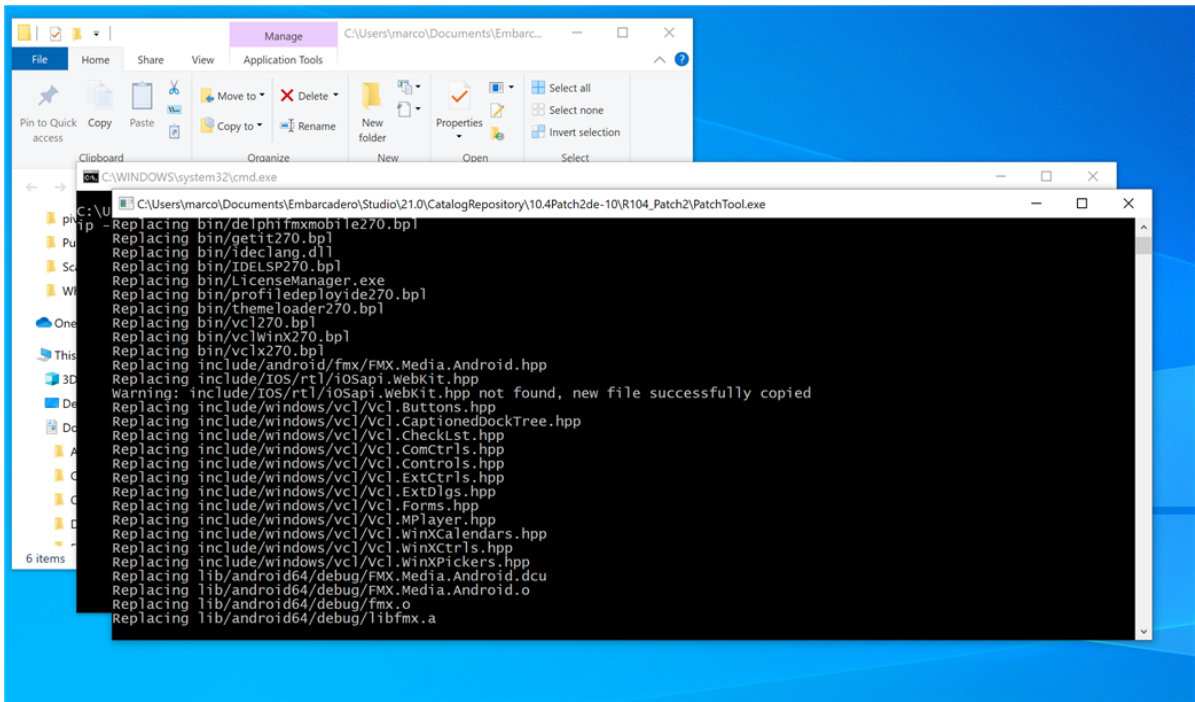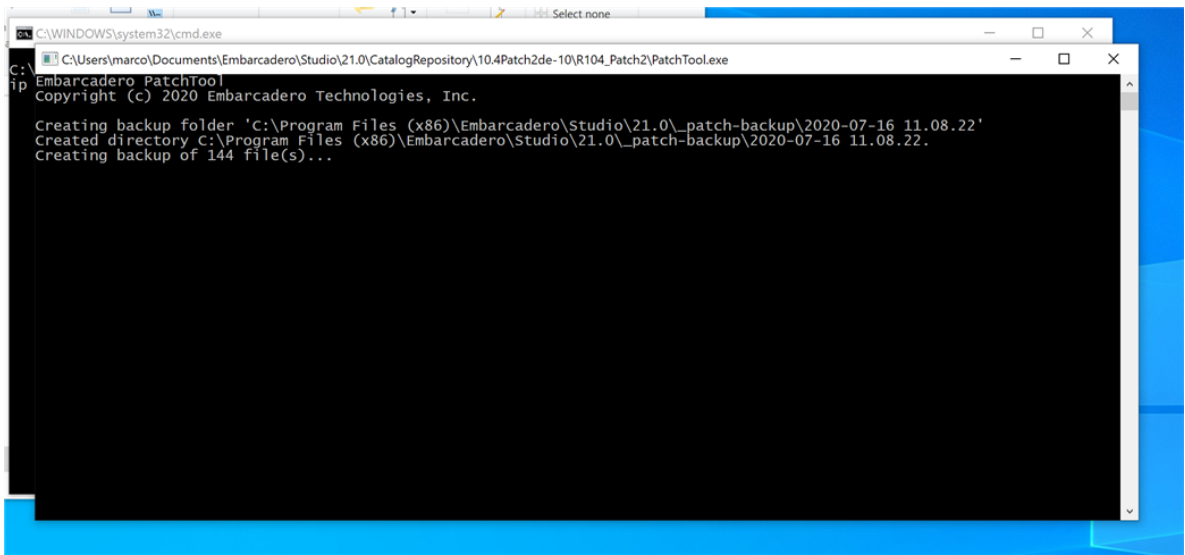
The patch executable is copied along with a ZIP file into a folder like:
C:\Users\<name>\Documents\Embarcadero\Studio\21.0\CatalogRepository\10.4Patch2xx-10\R104_Patch2

The folder is opened automatically by the last GetIt action. Now, close the RAD Studio 10.4 IDE (and also any other earlier versions of RAD Studio IDE that may be running) and from the folder mentioned above, run the batch file patch2.bat.

Note: The following installation steps might trigger warning by your antivirus software.

The process requires elevation and proceeds showing the steps and adding a detailed log file to the catalog repository folder:

As you can see in the image above, the installation displays some warning (actually 2) as it adds files that were missing in the original 10.4 release. This is expected. The information displayed on the screen is also logged in a file called patch.log in the Catalog Repository folder for the patch.

At the end of the process, the command line window closes and you can restart the RAD Studio 10.4 IDE.

Verifying Correct Installation

To verify that the patch has been successfully installed, you can look at the timestamp of the replaced files, for example getit270.bpl under the bin folder should have a July 2020 timestamp (rather than the May 2020 one most files have).

Uninstallation Steps

In case you run into any issues with the patch you can remove the it by closing RAD Studio, opening the Catalog Repository installation folder (the same folder mentioned above) and run patch2uninstall.bat. This will restore the backup files of the original version.

The patch process creates a backup of the files replaced in a _patch_backup subfolder of the RAD Studio main installation folder. For each execution, it creates a subfolder with the installation timestamp, which also includes an install.log file. As an alternative for uninstalling the patch, you can manually copy the files from this backup folder to the main BDS folder.

Only after you have uninstalled the patch, you can uninstall the package from GetIt. If you uninstall the package from GetIt first, it will remove the download and the uninstall script, but not the installed patch. In this case, you can manually restore the files from the backup folder as indicated above or you can download the patch again and run the uninstall batch file.

List of Customer Reported Issues Addressed in 10.4 Patch 2

RAD Studio 10.4 Patch #2 addresses the following issues reported by customer on Embarcadero Quality Portal (https://quality.embarcadero.com):

RSP-29628   VCL Grids bug
RSP-29560   [REGRESSION] Misalignment in TStringGrid, StretchDraw method in OnDrawCell
RSP-29412   Compiler generates incorrect code for if-then
RSP-29402   Delphi 10.4 TStringGrid.OnDrawCell bug
RSP-29374   Wrong rect coords in TStringGridDrawCell, so image are drawn at wrong position
RSP-29347   [DelphiLSP] IDE Crashes when view form as text is selected and running LSP server
RSP-29310   Internal error L891 when linking because of complex types based on records with class var
RSP-29299   CODEGEN bug in managed fields initialization, associated with new management operators.
RSP-29271   [DelphiLSP] Code Insight adds unneeded () when changing procedures/functions
RSP-29256   Compiler generates wrong code for template function
RSP-29227   Incorrect property value obtained from the record
RSP-29226   Access violation with working code under 10.2
RSP-29218   compiling static library under Android error E4620 processing resource .fmx -2 raised
RSP-29172   Access Violation when opening License Manager
RSP-29142   GoTo statements not working
RSP-29136   Dialog constantly pops up during debugging

RSP-29129   iOS App simply crashes with a TWebBrowser on it.
RSP-29127   Compiler internal error if you ignore the result of a function that returns a generic record
RSP-29124   ICE E1812
RSP-28989   License Manager has access violation error when i click on Workstation Licenses
RSP-28887   Space does not finish code completion
RSP-28857   Default(T) generates bad code for managed record
RSP-28821   [Regression] TStringGrid.OnDrawCell parameter Rect contains wrong values
RSP-28808   Project options dialog page "Delphi Compiler" is not populated when opening the dialog
RSP-28796   RVO for M-records: initialisation of local variables
RSP-28761   [REGRESSION] E2154 Type 'T' needs finalization - not allowed in variant record
RSP-28737   Compiler error when inlining new Bit Counting Standard Functions
RSP-28735   Managed Records Causing Internal Compiler Error
RSP-28717   Delphi Package fails to compile
RSP-28701   Bind visually on TDBGRID kills the IDE
RSP-28669   [BadCG] Value M-record parameters: improper AddRefRecord
RSP-28659   RVO for M-records: assignment to local variables
RSP-28616   [BadCG] Operator Assign should not allow non-default calling conventions
RSP-28615   [BadCG] In the absence of Initialize, finalisation is not guaranteed for local variables
RSP-28552   Poor code generation for local managed record variables
RSP-28499   Options - Translation tools - Font - Corrupted?
RSP-28476   LSP ErrorInsight in Structure Pane only shows one keystroke after editor
RSP-28400   [BadCG] Operator Assign is not always invoked for fields
RSP-28372   [Regression] Bad codegen in function returning generic type
RSP-27268   C++ Builder 10.3.3 Android Exceptions
RSP-27251   Internal error when trying to inline with optimization on
RSP-24079   Package version is broken
RSP-23403   Build for linux 64 error
RSP-23024   Record helper class constructor gives senseless compiler warning
RSP-22318   Pointer type check missed when object field is a dynarray
RSP-21554   Compiler generates incorrect code for parameterized record type
RSP-21248   Const dynamic array unexpectedly contains uninitialized data
RSP-20372   A generic "reference to function" will only match the first of several overloaded functions
RSP-19714   Win32 compiler - Memory corruption with array helpers
RSP-18241   *.c source files, added to C++ project, got added to DeploymentManager file list
RSP-18148   AV in TList<T>.Remove (64-bit compiler only)

Reduce development time and get to market faster with RAD Studio, Delphi, or C++Builder. Design. Code. Compile. Deploy.

💬 59 comments   👤 2 members are here

ments

H. E12157   *9 days ago*   +5

H. E12157 *9 days ago*

When will we finally get 64-Bit Android support for C++Builder?

The playstore deadline for 64-Bit apps is next week and **no official statement from Embarcadero** on what will happen...?

Lena I2199   *11 days ago*

When will C++ Builder be cross-platform? When support 64 bit Android in C++ Builder? When support macOS Catolina in C++ Builder?

David Millington *9 days ago* *in reply to Lena I2199*

Lena, can you email david.millington@embarcadero.com about this please?

H. E12157 *23 hours ago* *in reply to David Millington*

I did send an EMail about two weeks ago and did not get any response...

Seems like 64-Bit Android will not be available soon - the response from my local Embarcadero sales as of today is:

<quote>
Android 64-Bit for C++Builder will not be available in the next few months, else we would know something about it.
</quote>

zwjchina163   *12 days ago*

You are running too fast. Can you slow down and lay a good foundation before you run

Stefan Z41465   *11 days ago* *in reply to zwjchina163*

Yes, it would be nice if the problem preventing some of installing the product in the first place could be solved! (see RSP-29385)

ehimmer   *11 days ago*

After Patch 2, Code Insight LSP is still not working for my relatively large project. Works on small test projects, but not on my project making 10.4 unusable for me.

David Millington   *9 days ago* *in reply to ehimmer*

Is there a QP entry for this? What's very useful is to attach logs (note they will include parts of your source, you can email them privately if you need). You can find info about reporting code completion bugs and log files here: docwiki.embarcadero.com/.../Code_Insight_Reference

Toni Grabmayr   *7 days ago* *in reply to ehimmer*

The same with me. 10.4 is unusable without Hausladen's IDEFixPack and it seems he wont do the job this time

Lena I2199 *9 days ago*

When suppprt android 64 bit in C++ Builder? Wnen support mscOS Cstalina in C++ Builder?

David Millington *9 days ago* *in reply to Lena I2199*

Lena, can you email david.millington@embarcadero.com about this please?

Alex B. *9 days ago*

Hello to everyone, where can I find an updated roadmap of RAD Studio (in particular for C++ Builder).

H. E12157 *23 hours ago* *in reply to Alex B.*

Four weeks ago, I was promised an updated Roadmap in the "next few days". Nothing happened so far.

Albert V8498 *9 days ago*

3 MAJOR issues preventing iOS and Android apps from showing tchart and ttabcontrol has been reported 2 months ago almost, not even close to a fix, totally ignored in this patch. Unacceptable how you release a patch when over 35 people has reported the issues and nothing from EMB. Dont buy this product, the support is terrible.

David Millington *8 days ago* *in reply to Albert V8498*

Hi Albert - what are those issues? It's possible we've targeted them for a point release.

Bart LVD *8 days ago*

Patch 2 does not seem to solve the issue "RSP-29136 Dialog constantly pops up during debugging"
It still keeps popping up.

tatukgis *6 days ago*

hoping 10.4.1

Glenn Crouch C1505 *12 days ago*

I assume you mean the timestamp on getit270.bpl rather than getit170.bpl as quoted above :)

David Millington *9 days ago* *in reply to Glenn Crouch C1505*
Yes, that's correct :) We updated the blog post. Thanks!

Aden *12 days ago*

Hi Marco,

See this: "To verify that the patch has been successfully installed, you can look at the timestamp of the replaced files, for example getit170.bpl".

This file does not exist. The correct name should be getit270.bpl.

Thanks,

Aden

David Millington *9 days ago* *in reply to Aden*
Yes, that's correct. We updated the blog post. Thanks!

Milen L *11 days ago*
That works Marco, thanks for update and precise explanation.

Peter Clang *11 days ago*
As always after the release of the new version, for me it is 10.4. even after patch # 2 C++ Builder unusable. This time I was stopped by RSP-29846.

David Millington *9 days ago* *in reply to Peter Clang*
Please contact Support there. Installation support is free. It's https://www.embarcadero.com/support and click the Registration & Installation button.

Hideaki Tominaga (DEKO) *11 days ago*
This patch will probably not fix the TStringGrid bug.
At least, the Professional edition of the patch2 is not includes Vcl.Grids.pas.

Kim/Components4Developers *11 days ago*
Why oh why does patches now never show up in the "Installed Updates" text in the About box?

David Millington *9 days ago* *in reply to Kim/Components4Developers*
Patches are now installed through GetIt (and the plan is to have them always _installed_, too, not just downloaded as with this patch. That means that GetIt lists what's installed. We need to hook up the About box to GetIt in order to list patches.

⌄ Load Next