Installation Notes

This page provides important information that you must know before you install Delphi Sydney, C++Builder Sydney, or RAD Studio Sydney. You can find the most recent version of this page here (http://docwiki.embarcadero.com/RADStudio/Sydney/en/Installation_Notes).

> **Note:** *This document, as the rest of the documentation, uses the term "RAD Studio" to describe any of the products listed above.*

System Requireme

> **Attention:** *You need to have .NET Framework 4.5 or later installed on your computer to successfully install RAD Studio. If the installer cannot find .NET Framework 4.5 or later installed on your computer, it prompts you to download and install it to continue with the RAD Studio installation.*

Contents

Follow the link below for instructions on how to install the latest version of .NET Framework on your

computer:

- Install .NET Framework on Windows 10 and Windows Server 2016 and later (https://docs.microsoft.com/en-us/dotnet/framework/install/on-windows-10)

The following are requirements of RAD Studio itself:

- For supported target platforms of RAD Studio projects, see **Supported Target Platforms** and **FireMonkey Platform Prerequisites**.
- For supported database systems, see **FireDAC Core Features**.

> **Note:** If the developer has changed the *<SERVICE-NAME>.template.java* file (local template file) generated by a previous product release, it is very important to introduce the same changes into the local template file generated by RAD Studio 10.4.

Hardware Requirements

RAD Studio requires at least:

- 1.8 GHz or faster dual-core processor. Quad-core or better recommended. Single-core is not supported.
- 3 GB of RAM. 8GB of RAM recommended.
- Between 6 GB and 60 GB[1] of available disk space. Using a solid state drive (SSD)is strongly recommended.
- DirectX 11 capable video card that runs at 1440x900; a 1080 vertical resolution screen is recommended.

1. Depends on your RAD Studio edition and the features selected during the installation. For more information, see Estimated Required Space.

Operating System Requirements

You can run RAD Studio 10.4 Sydney on the following versions of Windows:

- Windows 10

> **Tip:** You can also install RAD Studio on a virtual machine running one of the supported versions of Windows in a non-Windows environment (e.g., macOS). To develop FireMonkey projects, your virtualization software must provide direct access to the host GPU.

Your Windows system must be configured as follows:

- The user that installs RAD Studio must be the system administrator or be on the administrator privileges list.

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The length of your PATH environment variable (http://www.computerhope.com/issues/ch000549.htm) must be 1830 characters or less.

The installation of RAD Studio adds up to 218 characters to your PATH environment variable. If the length of your PATH environment variable goes beyond 2048 characters, your system will misbehave (https://software.intel.com/en-us/articles/limitation-to-the-length-of-the-system-path-variable).

> **Note:** *32-bit versions of Windows are no longer supported as operating systems for installing RAD Studio 10.4 Sydney.*

Requirements for Supported Target Platforms

Requirements to develop projects for supported target platforms:

Target Platform	Requirements
Windows	- PCs and tablets with Intel/AMD processors running any of the following versions of Windows - Windows 7 (SP1+) - Windows 8.1 - Windows 10 - Windows Server 2012 R2 - Windows Server 2016 - A 64-bit PC
macOS	- A PC running Windows, connected to an Intel-based Mac with more than 2 GB of RAM running Windows in a VM or running any of the following versions of macOS: 10.13 High Sierra 10.14 Mojave 10.15 Catalina
iOS	- An iOS device running any of the following versions of iOS (32-bit versions are not supported): - iOS 11 - iOS 12 - iOS 13 - All requirements for **macOS** support. - Xcode (https://developer.apple.com/xcode/), version 10.12 or later. - Membership in the Apple Developer Program.
Android	- An Android device that runs on an ARMv7 processor with NEON support. - A 64-bit version of Windows for development. - Android phones and tablets running any of the following versions of Android: - Marshmallow (6) - Nougat (7) - Oreo (8) - Pie (9) - Android (10)
Linux (Delphi only)	64-bit Linux running any of the following distributions: - Ubuntu Server (Ubuntu 14.04 LTS) - Ubuntu Server (Ubuntu 16.04 LTS) - Ubuntu Server (Ubuntu 18.04 LTS) - RedHat Enterprise Linux (version 7)

Requirements for Other Features

Requirements for other features:

- You must install the Adobe Flash Player (https://get2.adobe.com/flashplayer/) to:

  - See interactive content in generated modeling documentation.

- For **FireMonkey 3D** support, your system must allow resources greater than 4 GiB in size, while keeping indices of all resources at 32 bits.
- To import models in IBM Rational Rose (MDL) format, you must install the Java Runtime Environment (https://java.com/en/download/).

> *Tip:* The JRE is installed automatically if you choose to install support for the Android target platform.

Additional Software

The RAD Studio installation includes some additional software. RAD Studio also allows you to install other additional software after the installation. For details about RAD Studio additional software, see Third Party Software Add-Ins.

Additional Software Always Installed

The following additional software is always installed with RAD Studio:

- Beyond Compare
- Internet Direct (Indy)

If your RAD Studio installation includes C++ support, the RAD Studio installation also includes the Dinkumware Standard C++ Library.

Optional Additional Software

The additional software listed in the table below is included in some editions of RAD Studio. Most of it can be installed after the RAD Studio installation using the Feature Manager, GetIt Package Manager, or downloading the software from CodeCentral (http://downloads.embarcadero.com/Products.aspx?prodid=22). Some of it can also be installed during the RAD Studio installation.

Software	Availability			Important Notes
	Installer	**GetIt**	**Offline Installer**	
Windows 10 SDK	✔		✔	See Windows 10 SDK section.
Android SDK 25.2.5 - NDK (android-ndk-17b)	✔		✔	See Android JDK, SDK, NDK section.
AdoptOpenJDK 8	✔		✔	See Android JDK, SDK, NDK section.
Boost (C++)		✔		
CodeSite Express 5.2		✔		
DUnit Unit Testing Frameworks (DUnit and DUnitX)	✔		✔	
FastReport 5.0 (VCL)		✔		See Dependency with TeeChart Feature section.
InterBase Express (IBX) Components	✔		✔	
InterBase 2020 Developer Edition	✔		✔	
TeeChart Standard	✔			
FastReport 5.0 (FMX Embarcadero edition for FireMonkey)		✔		
IP*Works! (http://www.nsoftware.com/ipworks/)		✔		

Windows 10 SDK

If you choose to install C++ or Delphi support for RAD Studio, the RAD Studio installer eventually opens the Windows 10 SDK installer, which is required for Desktop Bridge support.

You need to install the Windows 10 SDK to have the complete Windows API header files.

If you do not want to install the Windows 10 SDK, close the Windows 10 SDK installer when it opens.

> **Note:** *Installing the Windows 10 SDK requires an internet connection.*

Android JDK, SDK, NDK

If your RAD Studio installation includes Android support, the RAD Studio installer also offers additional software required for Android development in the Additional Selection Page:

- Android SDK 25.2.5 - NDK (android-ndk-17b).
- AdoptOpenJDK 8.

> **Note:**
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> - *You can install these features later with the Feature Manager.*
> - *Even if you have a JDK already installed in your system, selecting **AdoptOpenJDK 8** installs this version of JDK and modifies the current JDK path.*
> - *If you choose to install the Android development tools, you are prompted to accept the corresponding licenses.*

> **Note:** *Installing the Android SDK requires an internet connection.*

FastReport (VCL) and TeeChart Standard Dependency

FastReport uses some components of TeeChart Standard. Select TeeChart Standard together with FastReport to install both features in RAD Studio to take advantage of all the functionality of FastReport.

Registration Notes

Update Subscription Plan

If you have an active **Update Subscription Plan**:

- If you have a previous version of RAD Studio installed on your machine with that **Update Subscription Plan**, the installation wizard automatically detects your license.
- Otherwise, you can register your new RAD Studio installation using the same serial number as your previous version of RAD Studio that is part of your **Update Subscription Plan**.

Network Licenses

If you purchased a Network License (managed by the Embarcadero License Center (http://docwiki.embar cadero.com/ELC/53/en/Main_Page), FLEXnet or AppWave), copy the network license file (`named*.slip` or `concurrent*.slip`) received from the license server administrator to the system where you want to install RAD Studio.

During the RAD Studio installation, when prompted to input your license information:

1. Choose "I have a valid license file (*.slip or reg*.txt) to import".
2. On the **Embarcadero Product Registration** tool that opens, select **Import**.
3. Locate and select your registration file, and select **Open**.
4. When your registration file is imported, select **OK** to close the **Embarcadero Product Registration** tool.
5. Follow the remaining steps of the installation wizard to complete your offline installation of RAD Studio.

Known Installation Issues

Installation performed with Offline Installer results in missing subdirectories

- Delphi

When using the offline installer, the **Browsing path** for **Delphi/64bit Linux** lacks various directories.

To fix this, go to Tools > Options > Delphi > Library , select **64-bit Linux**, and paste the following string into the **Browsing path** field:

```
$(BDS)\source\rtl\common;$(BDS)\source\rtl\sys;$(BDS)\source\rt
l\linux;$(BDS)\source\ToolsAPI;$(BDS)\source\IBX;$(BDS)\source\
Internet;$(BDS)\source\Property
Editors;$(BDS)\source\soap;$(BDS)\source\xml;$(BDS)\source\Indy
10\Core;$(BDS)\source\Indy10\system;$(BDS)\source\Indy10\Protoc
ols;$(BDS)\source\fmx;$(BDS)\source\databinding\components;$(BD
S)\source\databinding\engine;$(BDS)\source\databinding\graph;$(
BDS)\source\data;$(BDS)\source\data\ado;$(BDS)\source\data\clou
d;$(BDS)\source\data\datasnap;$(BDS)\source\data\dbx;$(BDS)\sou
rce\data\dsnap;$(BDS)\source\data\Test;$(BDS)\source\data\vclct
rls;$(BDS)\source\rtl\posix;$(BDS)\source\rtl\posix\linux;$(BDS
)\source\data\datasnap\connectors;$(BDS)\source\data\datasnap\p
roxygen;$(BDS)\source\DataExplorer;$(BDS)\source\Experts;$(BDS)
\source\indy\abstraction;$(BDS)\source\indy\implementation;$(BD
S)\source\indyimpl;$(BDS)\source\Property
Editors\Indy10;$(BDS)\source\soap\wsdlimporter;$(BDS)\source\Vi
sualizers;;$(BDS)\source\data\rest;$(BDS)\source\data\firedac;$
```

```
(BDS)\source\tethering;$(BDS)\source\DUnitX;$(BDS)\source\data\
ems;$(BDS)\source\rtl\net
```

- C++ Builder

When using the offline installer, the **System include path** for **C++ / 32-bit Windows** is missing the FMX subfolder.

To fix this, Click **Tools > Options > C++ > Paths and Directories > 32-bit Windows** , select the **Compiler** tab, and paste the following string into the **System include path** field:

```
$(BDSINCLUDE);$(BDSINCLUDE)\dinkumware64;$(BDSINCLUDE)\windows\
crtl;$(BDSINCLUDE)\windows\sdk;$(BDSINCLUDE)\windows\rtl;$(BDSI
NCLUDE)\windows\vcl;$(BDSINCLUDE)\windows\fmx;$(BDSCOMMONDIR)\h
pp\$(Platform)
```

Contacting Support

Open a support case (http://support.embarcadero.com) if you encounter any problems during the RAD Studio installation.

See Also

- Installation
- Release Notes
- What's New

- Hotfixes and Workarounds for Sydney

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This page was last edited on 25 May 2020, at 07:45.