



Installation Guide

Release 2.4.0

Contents

1	Requirements	1
1.1	Software dependencies	1
2	Installation	2
2.1	Obtain the Vortex Platform installation file	2
2.2	Run the Vortex Platform Setup Wizard	2
2.3	Vortex Café directories organization	9
2.4	Complete the installation for an Apache Maven build system	10
2.5	Uninstalling Vortex Platform	10
3	Licensing Vortex Café	14
3.1	General	14
3.2	Development and Deployment Licenses	14
3.3	Installing the License File	14
3.4	Running the License Manager Daemon	15
3.5	Utilities	16
4	Compiling the examples	17
5	Troubleshooting	18
6	Contacts & Notices	19
6.1	Contacts	19
6.2	Notices	19

1

Requirements

Software dependencies

Required before installation

The following software must be installed on your host system before installing Vortex Café:

- **An Oracle Java Development Kit (JDK) v7 minimum**

(ensure that `JAVA_HOME` is defined and that the `java` executable is in your `PATH`).

Note that the `examples/ishapes` project requires JDK v8 to compile since it requires JavaFX v8 (delivered with JDK8).

- **(optional) Apache Maven v3.3.x**

Only if you want to use Apache Maven as your build system

(ensure that the `mvn` executable is available in your `PATH`).

- **(optional) The Android SDK Tools only**

Only if you want to compile the `android-ishapes` example.

Make sure that you install the appropriate API level within this tool. (see the property `android:targetSdkVersion` in the file `examples/android-ishapes/AndroidManifest.xml`).

You can download it at <https://developer.android.com/sdk/index.html#Other>.

Other noteworthy dependencies

Vortex Café uses the following open source libraries, which for convenience are bundled in the installation zip file (you don't need to install them separately).

- **Netty** (<http://netty.io/>)
- **Trove4j** (<http://trove4j.sourceforge.net>)
- **Apache Commons** (<http://commons.apache.org/>)
- **SLF4J** (<http://www.slf4j.org/>)

Environment

These environment variables must be set:

- `PATH` (must include JDK bin directory)
- `JAVA_HOME` (must point to JDK installation directory)
- any environment variable required to check your license (see `std, std-ref` [Licensing Vortex Café](#))

2

Installation

Obtain the Vortex Platform installation file

Check that the file that you have obtained (by downloading or other method) is the appropriate one for your system. The name of the file indicates the target platform as well as the Vortex Platform version.

Example installer file names:

```
VortexPlatform_v2-linux-x32-installer.run  
VortexPlatform_v2-linux-x64-installer.run  
VortexPlatform_v2-windows-x32-installer.exe  
VortexPlatform_v2-windows-x64-installer.exe
```

(It is possible to install a 32-bit version of Vortex on a 64-bit system, but for the best performance you should install the 64-bit version.)



If you wish to install on another system other than windows or linux, then you can obtain an archive file from ADLINK and unzip that instead of the installer.

Run the Vortex Platform Setup Wizard

Start the installer

Navigate to the directory which contains the Vortex installer file.

If you are using a GUI, you can usually just double-click on the installer to run it.

If you are using a console ('command line'), enter the appropriate command for your platform. (On most versions of Windows and Linux this means typing the file name, excluding the .exe or .run extension, and pressing the <Enter> key.)

Linux

Windows

Once it starts, the operation of the installer is the same on both Windows and Linux platforms; the example screens shown in the following steps are from a Windows system.

The Vortex installer splash screen appears briefly before the Setup Wizard 'Welcome' screen is displayed.

Proceed with the Setup Wizard

Click **Next**.

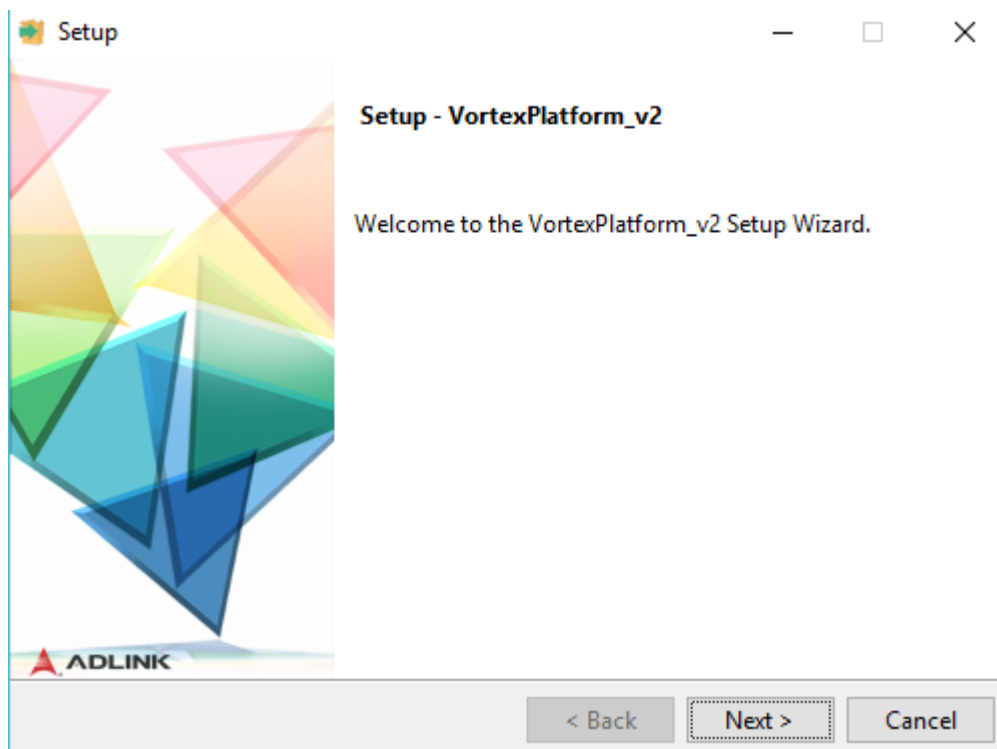


Fig. 2.1: Figure 1 Welcome to the Setup Wizard

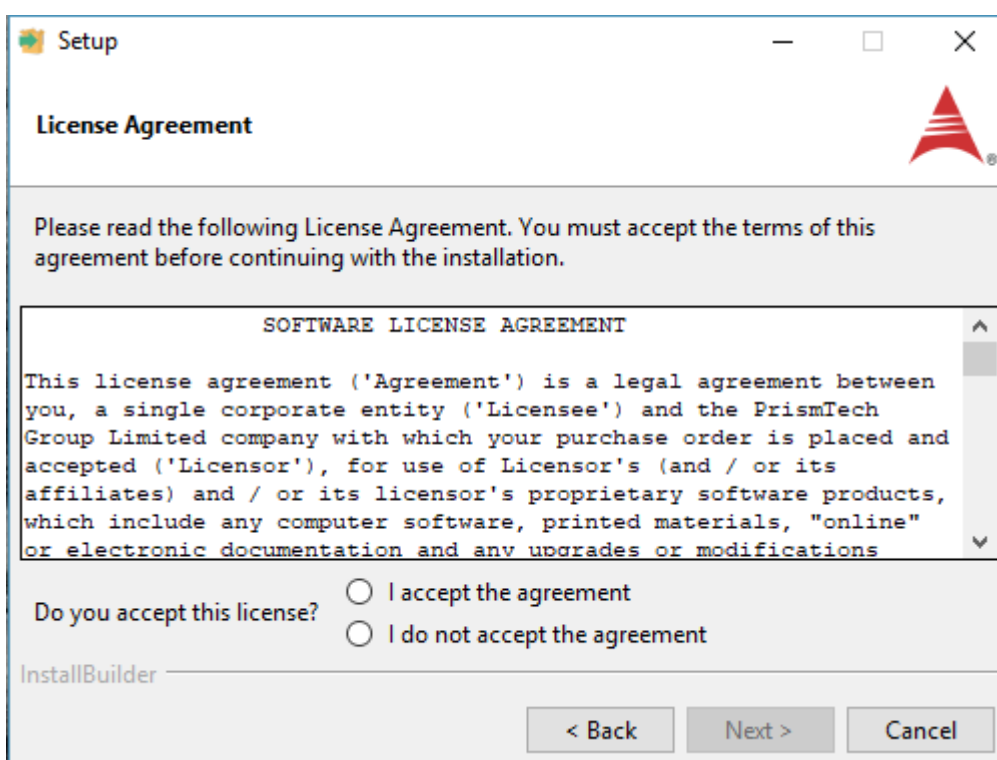


Fig. 2.2: Figure 2 Accept the License Agreement

Accept the License Agreement

If you do not accept the terms of the license, the installation is cancelled.

Click **Next**.

Choose a location for the Vortex Platform installation

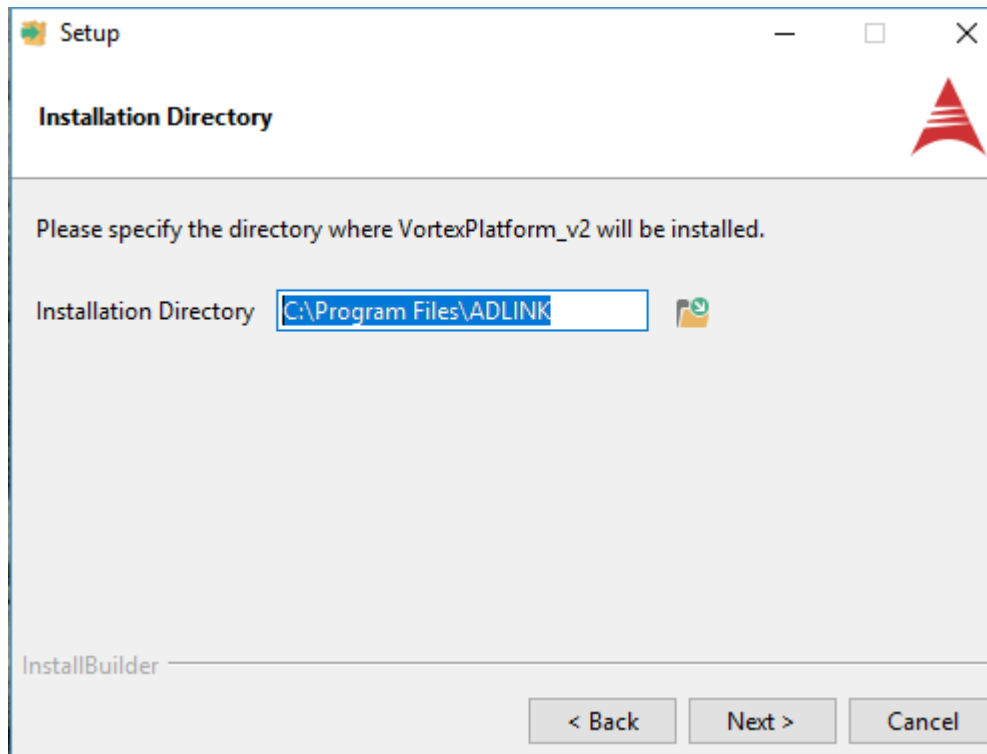


Fig. 2.3: **Figure 3 Choose a location for the Vortex Platform installation**

You can either accept the default destination directory or choose a different location by typing its path or by navigating to it using the 'browse' button.

Windows

On Windows, the default installation directory (shown in Figure 3) is:

```
C:\Program Files\ADLINK
```

(For this example, the Vortex Platform will be installed in C:\apps\ADLINK\Vortex_v2.)

Linux

On Linux, the default installation directory is:

```
/home/<user>/ADLINK/Vortex_v2
```

Click **Next**.

Choose which components to install

Click on a component name to display a description of the component.

All Vortex Platform components are selected for installation by default.

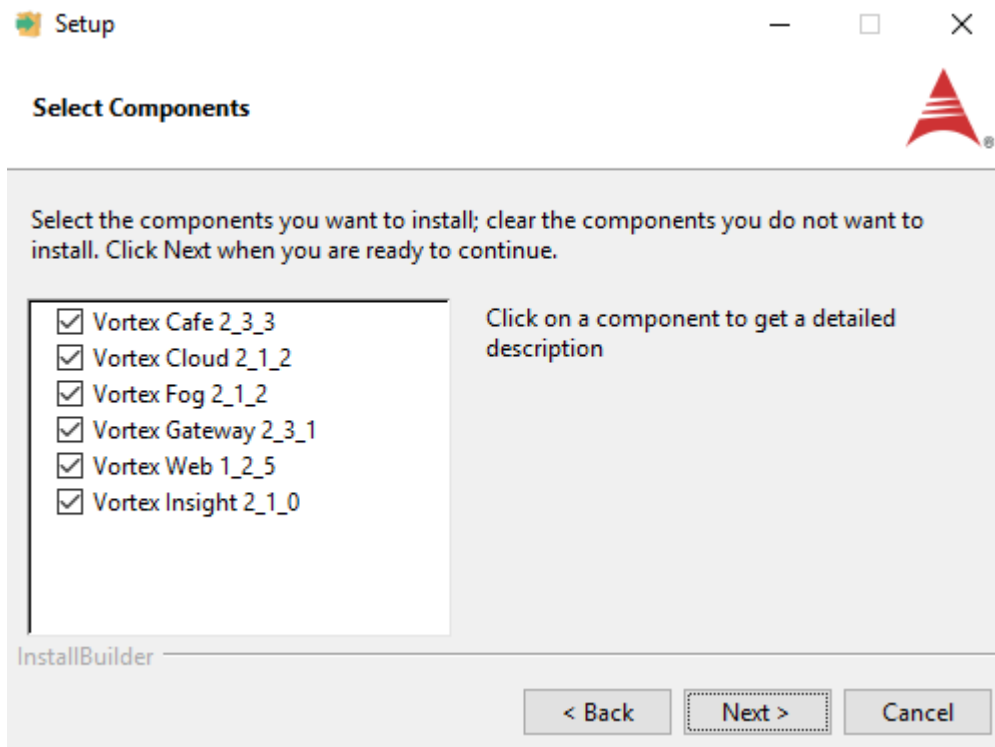


Fig. 2.4: **Figure 4 Choose which components to install**

If any Vortex Platform components are already installed in the location chosen at [Choose a location for the Vortex Platform installation](#), their names are greyed-out and they cannot be de-selected. (To remove Vortex Platform components from your system, use the uninstaller described in the [Uninstallation chapter](#) [std,std-refUninstalling Vortex Platform](#)).

Click **Next**.

Enter the location of your license file

If you do not yet have a license file, leave *No* selected (the default) and click **Next**. You will have to obtain a license file and install it manually according to the instructions in the separate *Vortex Licensing Guide* before you can run Vortex.

If you already have a license file, choose *Yes*; the Setup Wizard will then perform the necessary configuration steps automatically. Information about these changes is saved in the `etc` directory where Vortex is installed (`C:\apps\ADLINK\Vortex_v2` in this example).

Click **Next**.

If you chose *Yes*, a dialog appears where you can enter the path to your license file, or use a browse button to navigate to it; otherwise the Setup Wizard proceeds to the next step.

Install for current or all users?

Windows

WINDOWS ONLY

On Windows platforms, you can choose whether to install Vortex for all users or only for the current logged-in user.

The default is for Vortex to be installed only for the current user.

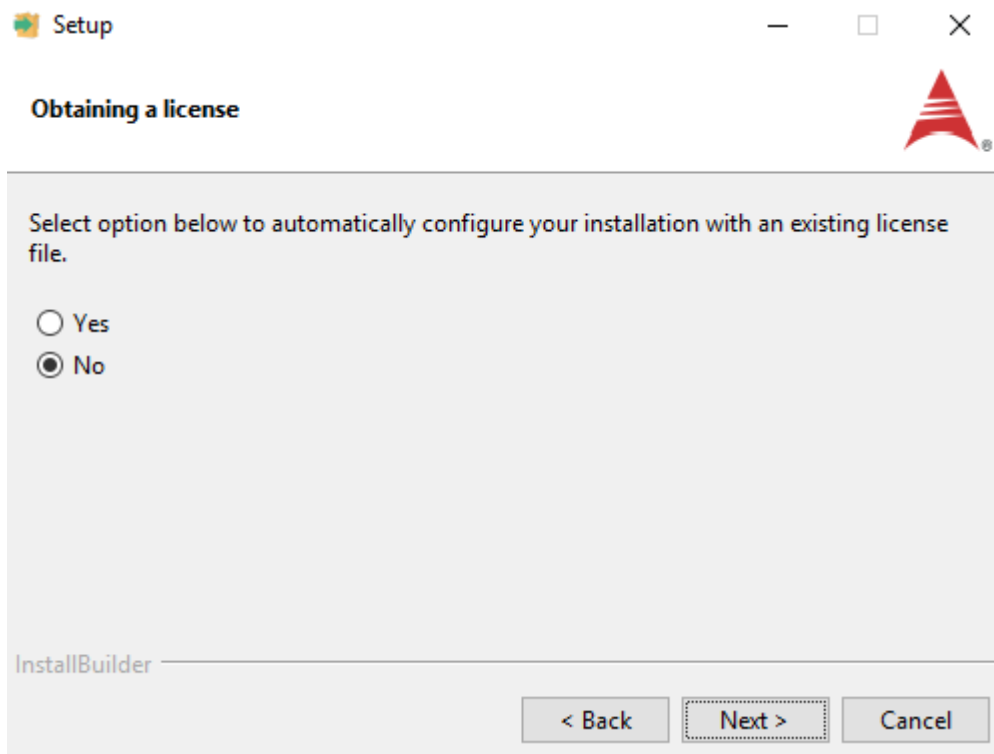


Fig. 2.5: Figure 5 Indicate location of existing license file (1)

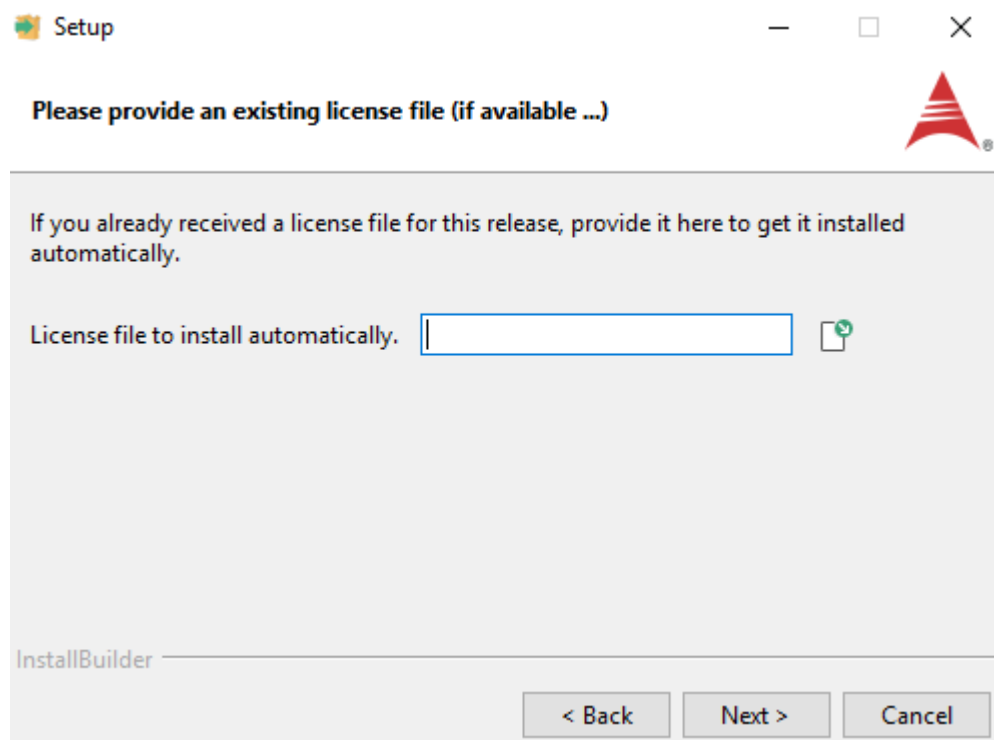


Fig. 2.6: Figure 6 Indicate location of existing license file (2)

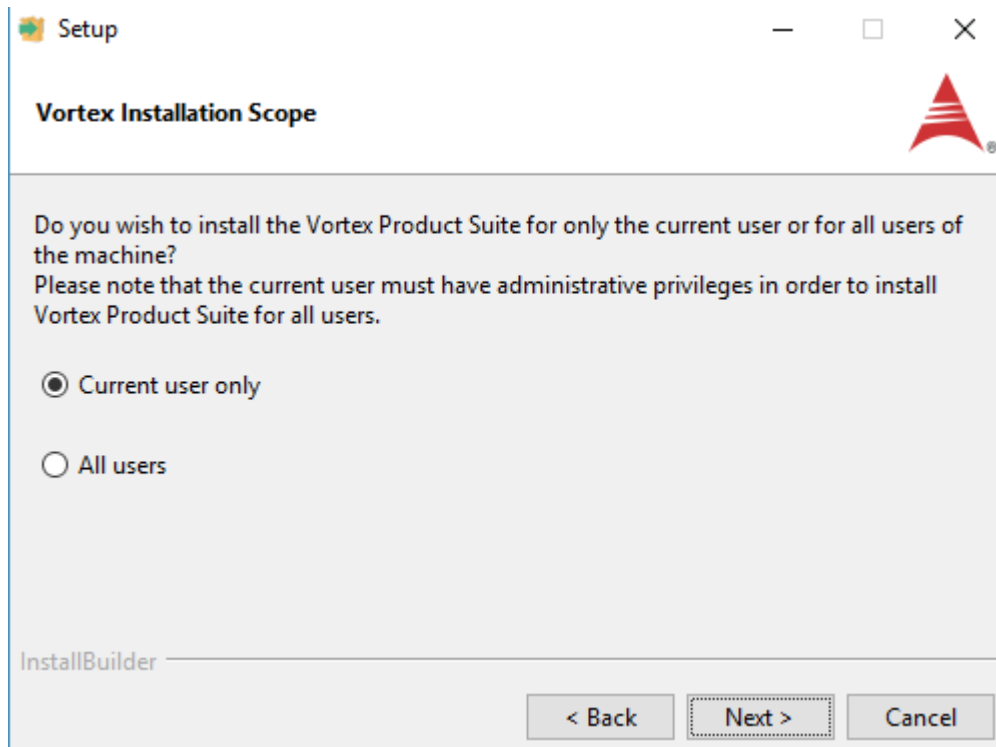


Fig. 2.7: Figure 7 Install for current or all Windows users

If Vortex is to be made available to all users, then the current user (performing the installation) must have Administrator privileges.

Click **Next**.

Begin installation

The Setup Wizard is now ready to begin the actual installation.

If you want to review or change any of the choices or entries you have made, you can use the *Back* and *Next* buttons until you return to this screen.

Click **Next** to proceed and install Vortex on your system.

Click *Cancel* if you decide to abandon the installation. No changes will be made to your system, and any information you have entered will be lost. You will have to run the installer again if you decide to install Vortex later.

Wait whilst installation proceeds

The Setup Wizard displays a progress bar and a slideshow describing the Vortex Suite components whilst files are installed on your system.

If you click the *Cancel* button during this phase, then you may be left with a partial installation. For those Vortex components installed you will have an uninstaller that can be invoked to remove it.

Installation completed

When all of the necessary files have been installed and the Vortex components have been configured, the Setup Wizard displays a final dialog.

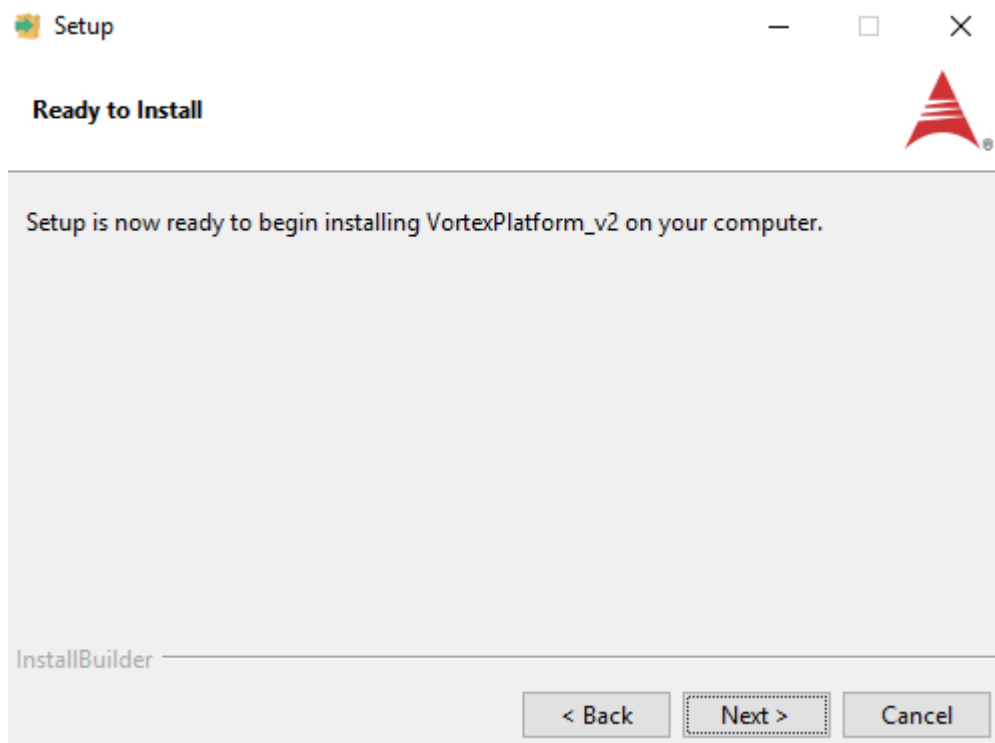


Fig. 2.8: Figure 8 Proceed or Cancel installation

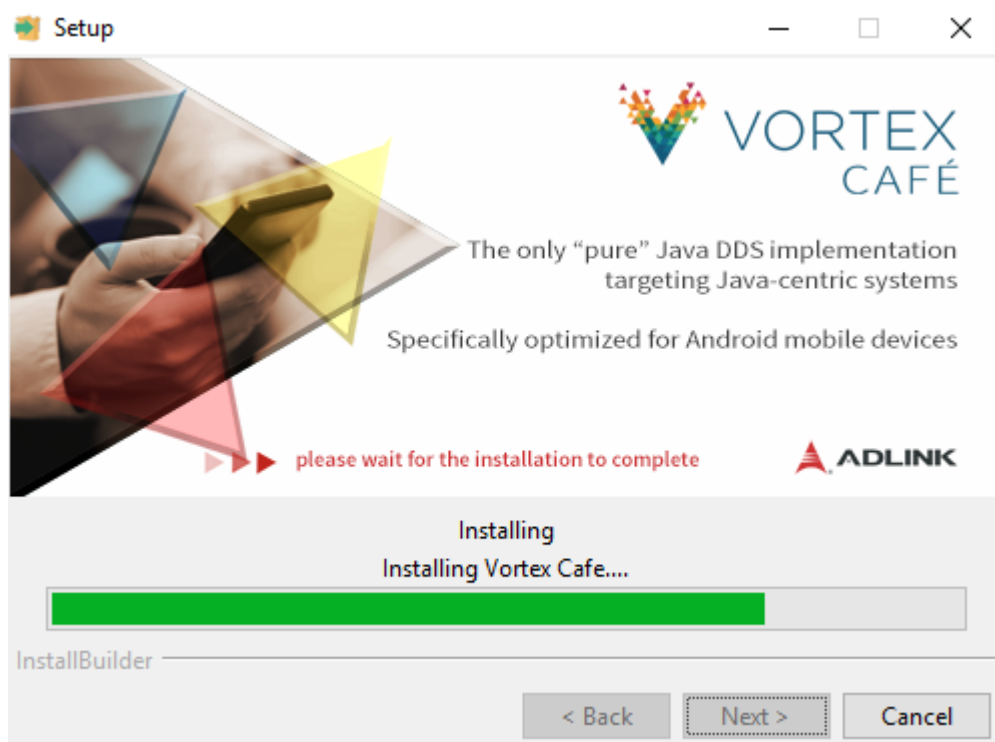


Fig. 2.9: Figure 9 Progress of installation process

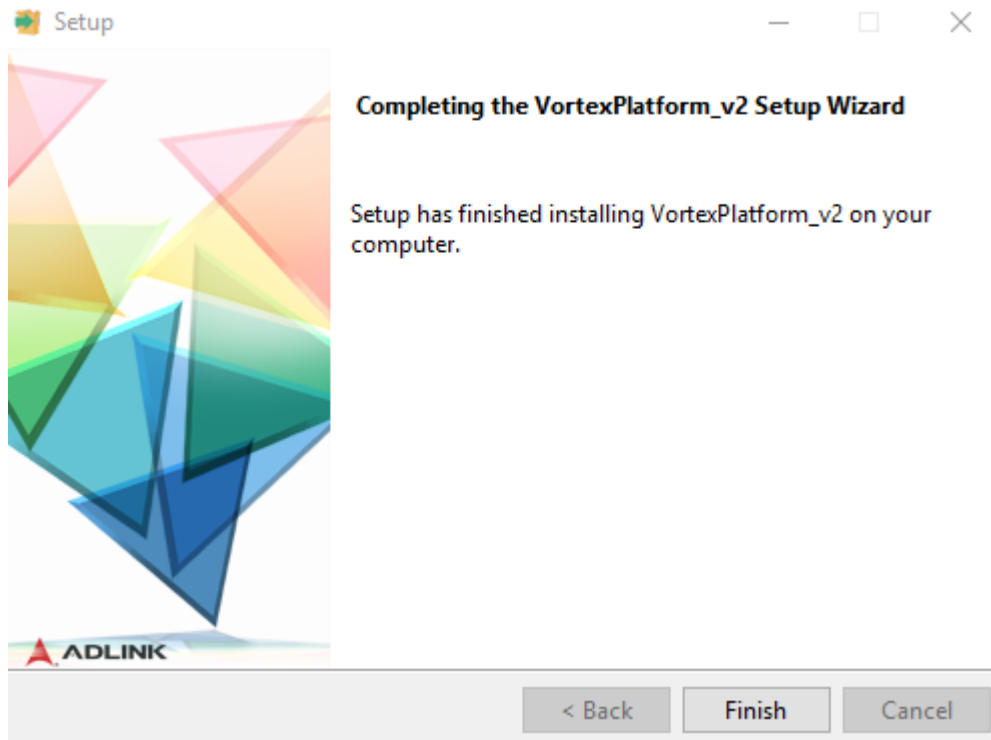


Fig. 2.10: **Figure 10 Finish the Setup Wizard**

Documentation for the components of the Vortex Platform is installed in `docs` directories within the individual component directories. For example, on the Windows system used to illustrate the steps above, the documentation for Vortex Café is installed in `C:\apps\ADLINK\Vortex_v2\Device\VortexCafe\2.2.0\docs`.

Vortex Café directories organization

The Vortex Café installation directory contains the following sub-directories:

- **apache-maven/ :**
Contains the Vortex Café jars ready to be installed in your Maven local repository (optional if you don't use Apache Maven).
- **bin/ :**
Contains the scripts for the `idl2j` code generator (see the Vortex Café User Guide).
- **docs/ :**
Contains the documentation set (HTML and PDF) and release notes.
- **examples/ :**
Contains code examples demonstrating the use of Vortex Café.
- **lib/ :**
Contains the Vortex Café jars to be used with your Ant or Maven projects.

If you don't use Apache Maven you can directly use Vortex Café's jars in your projects, as described in the User Guide.

Complete the installation for an Apache Maven build system

To install Vortex Café in your local Maven repository, execute the following commands:

```
cd VortexCafe/<version>/apache-maven
mvn -f VortexCafe-installation.pom
```

Uninstalling Vortex Platform

The Vortex Platform includes a convenient uninstallation utility for either complete or partial removal of the software from your system.

Location of the uninstaller

The Vortex Platform Setup Wizard creates the uninstaller in the VortexPlatform installation directory, which was chosen during the running of the Setup Wizard (see [std,std-refChoose a location for the Vortex Platform installation](#)).

Windows

On Windows, the default installation directory is

```
C:\Program Files\ADLINK\VortexPlatform_<version>
```

and the uninstaller is named `uninstall-VortexPlatformV<version>.exe`.

Linux

On Linux, the default installation directory is

```
/home/<user>/ADLINK/VortexPlatform_<version>
```

and the uninstaller is named `uninstall-VortexPlatformV<version>.run`.

Start the uninstaller

Windows

Start the uninstaller either

- from the Windows Start menu: Start > ADLINK > VortexPlatform <version> > Uninstall VortexPlatform <version>
- or
- navigate to the Vortex Platform installation directory (see [Location of the uninstaller](#) above) and run `uninstall-VortexPlatformV<version>.exe`.

Linux

Navigate to the Vortex Platform installation directory (see [Location of the uninstaller](#) above) and run `uninstall-VortexPlatformV<version>.run`.

Linux

Windows

Once it starts, the operation of the uninstaller is the same on both Windows and Linux platforms; the example screens shown in the following steps are from a Windows system.

Choose whether to uninstall VortexPlatform completely or just some components

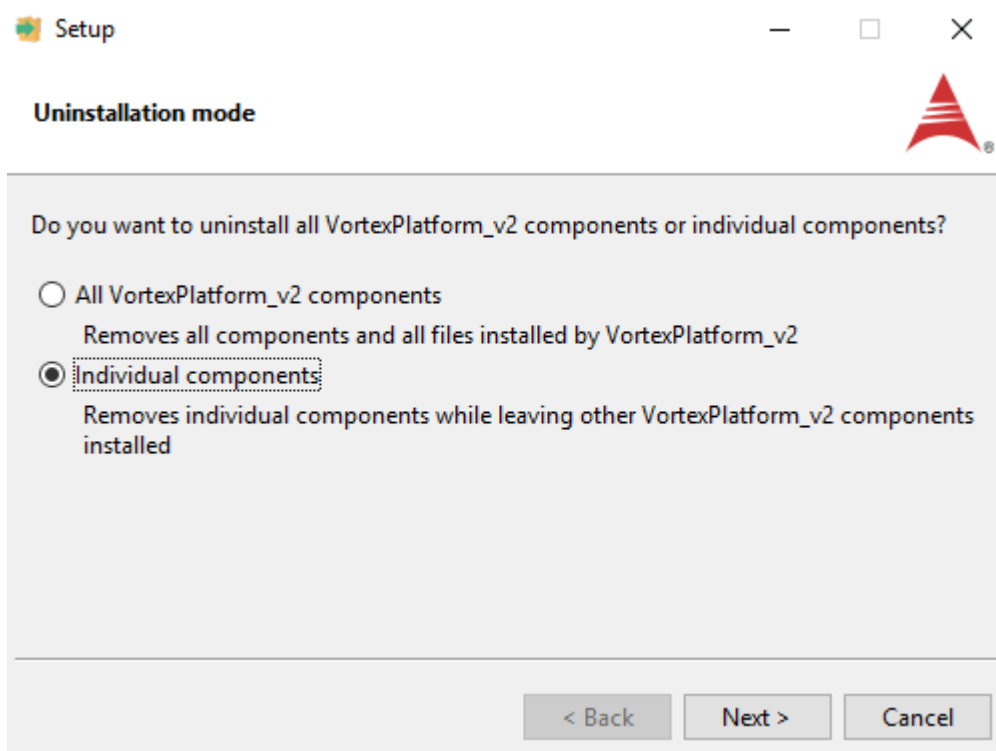


Fig. 2.11: Figure 12 Uninstall entire application or individual components

The names of components which are not installed are greyed-out and they cannot be selected.

Click **Next**.

In case you selected all the components, you're asked to confirm that you really want to uninstall the full Vortex Platform.

Click **Yes** to proceed, or **No** to cancel the operation.

Click YES

A progress bar is displayed as the uninstallation proceeds.

Uninstallation completed

Click **OK**.

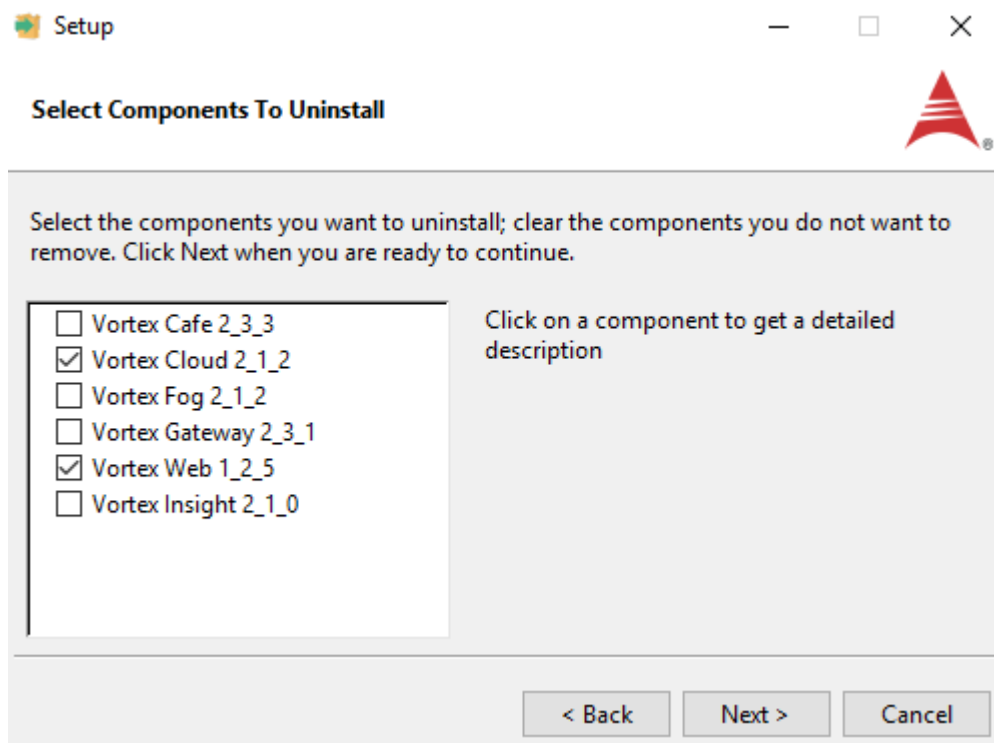


Fig. 2.12: Figure 13 Choose components to uninstall

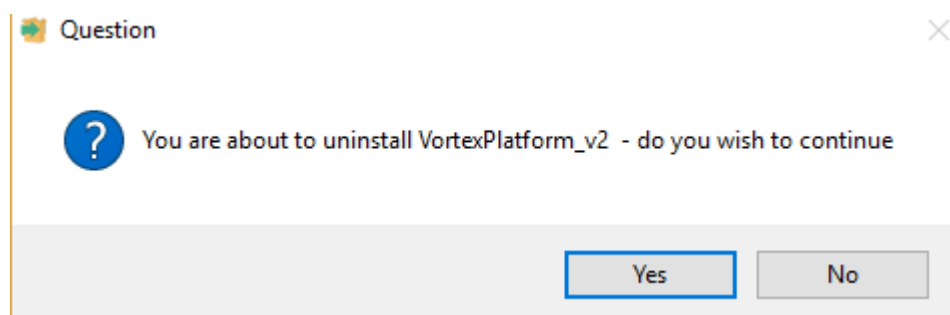


Fig. 2.13: Figure 14 Confirm uninstallation

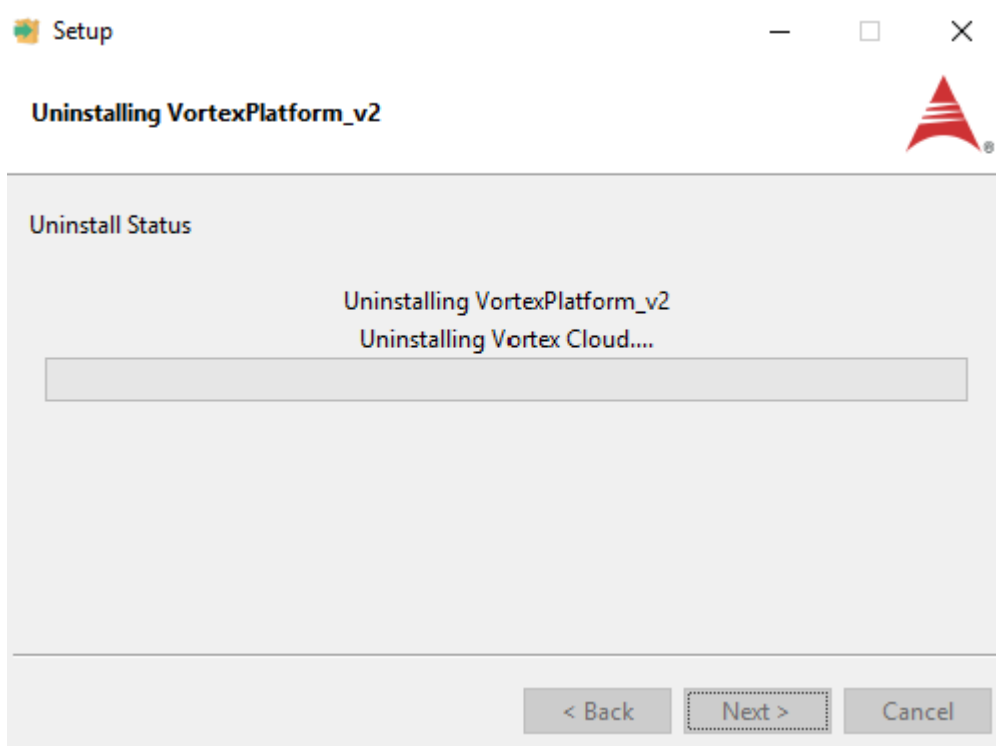


Fig. 2.14: Figure 15 Progress of uninstallation process

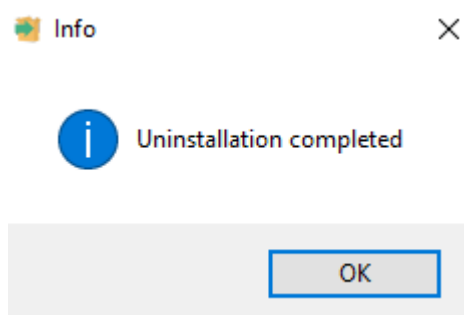


Fig. 2.15: Figure 16 Uninstallation completed

3

Licensing Vortex Café

Vortex Café uses Reprise License Manager (RLM) to manage licenses. This section describes how to install a license file for Vortex Café and how to use the license manager.

General

The licensing software is automatically installed on the host machine as part of the Vortex Café distribution. The software consists of two parts:

- ***Vortex Café binary files***

which are installed in `<Vortex_Café_Install_Dir>/bin`,
where `Vortex_Café_Install_Dir` is the directory
where Vortex Café is installed.

- ***License files***

which determine the terms of the license.
These will be supplied by ADLINK.



Licenses: ADLINK supplies an Vortex Café license file, `license.lic`. This file is *not* included in the software distribution, but is sent separately by ADLINK.

Development and Deployment Licenses

Development licenses are on a per Single Named Developer basis. This means that each developer using the product requires a license. Vortex Café is physically licensed for development purposes. Vortex Café is also physically licensed on enterprise platforms for deployment.

Installing the License File

Usually you get a license file for multiple Vortex products. The simplest way to install such a license file is to copy this file to the `${VORTEX_HOME}/license` directory. `${VORTEX_HOME}` is an environment variable set by the Vortex Platform installer and pointing to the installation directory of all Vortex products.

This is the recommended location for the license file but you can put the file in any location that can be accessed by the license manager `rlm`.

If another location is used or the environment has not been setup, then an environment variable, either `RLM_LICENSE` or `ADLINK_LICENSE` or `prismtech_LICENSE`, must be set to the full path and filename of the license file (either variable can be set; there is no need to set both). For example:

```
ADLINK_LICENSE=/my/lic/dir/license.lic
```


If licenses are distributed between multiple license files, the `RLM_LICENSE` or `ADLINK_LICENSE` or `prismtech_LICENSE` variable can be set to point to the directory which contains the license files.

If no valid license file can be found in the above locations, Vortex Café will also search for a valid license file in the following directories:

- `${VORTEX_HOME}/Device/VortexCafe/<version>/etc`
- `${VORTEX_HOME}/etc`
- `${HOME}/etc`
- `/etc`

Running the License Manager Daemon

It is only necessary to run the License Manager Daemon for floating or counted licenses. In this case, the license manager must be running before Vortex Café can be used. The license manager software is responsible for allocating licenses to developers and ensuring that the allowed number of concurrent licenses is not exceeded.

For node-locked licenses, as is the case with all evaluation licenses, then it is not necessary to run the License Manager Daemon but the `RLM_LICENSE` or `prismtech_LICENSE` variable must be set to the correct license file location.

To run the license manager, use the following command:

```
rlm -c <location>
```

where `<location>` is the full path and filename of the license file. If licenses are distributed between multiple files, `<location>` should be the path to the directory that contains the license files.

The `rlm` command will start the ADLINK vendor daemon `prismtech`, which controls the licensing of the Vortex Café software.

To obtain a license for Vortex Café from a License Manager Daemon that is running on a different machine, set either the `RLM_LICENSE` or `prismtech_LICENSE` environment variable to point to the License Manager Daemon, using the following syntax:

```
RLM_LICENSE=<port>@<host>
```

where `<port>` is the port the daemon is running on and `<host>` is the host the daemon is running on.

The port and host values can be obtained from the information output when the daemon is started. The format of this output is as shown in the following example:

```
07/05 12:05 (rlm) License server started on rhel4e
07/05 12:05 (rlm) Server architecture: x86_l2
07/05 12:05 (rlm) License files:
07/05 12:05 (rlm) license.lic
07/05 12:05 (rlm)
07/05 12:05 (rlm) Web server starting on port 5054
07/05 12:05 (rlm) Using TCP/IP port 5053
07/05 12:05 (rlm) Starting ISV servers:
07/05 12:05 (rlm) ... prismtech on port 35562
07/05 12:05 (prismtech) RLM License Server Version 9.1BL3 for ISV "prismtech"
07/05 12:05 (prismtech) Server architecture: x86_l2
```

```
Copyright (C) 2006-2011, Reprise Software, Inc. All rights reserved.
```

```
RLM contains software developed by the OpenSSL Project
```

```
for use in the OpenSSL Toolkit (http://www.openssl.org)
```

```
Copyright (c) 1998-2008 The OpenSSL Project. All rights reserved.
```

```
Copyright (c) 1995-1998 Eric Young (eay@cryptsoft.com) All rights reserved.
```

```

07/05 12:05 (prismtech)
07/05 12:05 (prismtech) Server started on rhel4e (hostid: 0025643ad2a7) for:
07/05 12:05 (prismtech) Vortex_Cafe_product1 Vortex_Cafe_product2
07/05 12:05 (prismtech)
07/05 12:05 (prismtech) License files:
07/05 12:05 (prismtech) license.lic
07/05 12:05 (prismtech)

```

The <port> value should be taken from the first line of the output. The <server> value should be taken from the last line. From this example, the value for RLM_LICENSE or prismtech_LICENSE would be:

```
35562@rhel4e
```

Utilities

A utility program, `rlmutil`, is available for license server management and administration. One feature of this utility is its ability to gracefully shut down the license manager. To shut down the license manager, preventing the checkout of licenses for the Vortex Café software, run either of the following commands:

```

rlmutil rlmshutdown -vendor prismtech
rlmutil rlmshutdown -c <location>

```

where <location> is the full path and filename of the license file.

The `rlmutil` program is also used to generate a host identification code which is used to generate your license key. To generate the code, run the following command on the license server:

Linux

```
rlmutil rlmhostid
```

Windows

```
rlmutil rlmhostid ether
```

This returns an ID code for the server, which will look similar to:

```
Hostid of this machine: 0025643ad2a7
```

This ID code must be supplied to ADLINK so that your license key can be generated.

4

Compiling the examples

To compile all the examples using Apache Maven, run the following command in `examples/` directory:

```
mvn package
```

Note that the Android examples will be compiled only if your `ANDROID_HOME` environment variable is set (i.e. if the Android SDK is installed).

If you prefer to use Ant, you need to compile each example individually. Please see instructions for each example in `../examples/examples-list.html`

5

Troubleshooting

If you experience any problems with Vortex Café installation or usage then you can contact ADLINK support.

Please provide a full description of your platform, including the versions of tools you are using (such as JDK, Ant, Maven, Android SDK, *etc...*).

6

Contacts & Notices

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Notices

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