

LiveCode 6.6.5 Release Notes

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Overview

This document describes all the changes that have been made for LiveCode 6.6.5, including bug fixes and new syntax.

Known issues

- The installer will currently fail if you run it from a network share on Windows. Please copy the installer to a local disk before launching on this platform.

Platform support

The engine supports a variety of operating systems and versions. This section describes the platforms that we ensure the engine runs on without issue (although in some cases with reduced functionality).

Windows

The engine supports the following Windows OSes:

- Windows XP SP2 and above
- Windows Server 2003
- Windows Vista SP1 and above (both 32-bit and 64-bit)
- Windows 7 (both 32-bit and 64-bit)
- Windows Server 2008
- Windows 8.x (Desktop)

Note: On 64-bit platforms the engine still runs as a 32-bit application through the WoW layer.

Linux

The linux engine requires the following:

- 32-bit installation, or a 64-bit linux distribution that has a 32-bit compatibility layer
- 2.4.x or later kernel
- X11R5 capable Xserver running locally on a 24-bit display
- glibc 2.3.2 or later
- gtk/gdk/glib (optional – required for native theme support)
- pango/xfnt (optional – required for pdf printing, anti-aliased text and unicode font support)
- lcms (optional – required for color profile support in JPEGs and PNGs)
- gksu (optional – required for elevate process support)

Note: The optional requirements (except for gksu and lcms) are also required by Firefox and Chrome, so if your linux distribution runs one of those, it will run the engine.

Note: If the optional requirements are not present then the engine will still run but the specified features will be disabled.

Note: LiveCode and standalones it builds may work on remote Xservers and in other bit-depths, however this mode of operation is not currently supported.

Mac

The Mac engine supports:

- 10.5.8 and later (Leopard) on Intel and PowerPC
- 10.6.x (Snow Leopard) on Intel
- 10.7.x (Lion) on Intel
- 10.8.x (Mountain Lion) on Intel
- 10.9.x (Mavericks) on Intel

Note: *The engine runs as a 32-bit application regardless of the capabilities of the underlying processor.*

Setup

Installation

Each distinct version has its own complete folder – multiple versions will no longer install side-by-side: on Windows (and Linux), each distinct version will gain its own start menu (application menu) entry; on Mac, each distinct version will have its own app bundle.

The default location for the install on the different platforms when installing for 'all users' are:

- Windows: <x86 program files folder>/RunRev/ LiveCode 6.6.5
- Linux: /opt/runrev/livecode-6.6.5
- Mac: /Applications/ LiveCode 6.6.5.app

The default location for the install on the different platforms when installing for 'this user' are:

- Windows: <user roaming app data folder>/RunRev/Components/LiveCode 6.6.5
- Linux: ~/.runrev/components/livecode-6.6.5
- Mac: ~/Applications/ LiveCode 6.6.5.app

Note: *If your linux distribution does not have the necessary support for authentication (gksu) then the installer will run without admin privileges so you will have to manually run it from an admin account to install into a privileged location.*

Uninstallation

On Windows, the installer hooks into the standard Windows uninstall mechanism. This is accessible from the appropriate pane in the control panel.

On Mac, simply drag the app bundle to the Trash.

On Linux, the situation is currently less than ideal:

- open a terminal
- `cd` to the folder containing your rev install. e.g.

```
cd /opt/runrev/livecode-6.6.5
```

- execute the `.setup.x86` file. i.e.

```
./ .setup.x86
```

- follow the on-screen instructions.

Reporting installer issues

If you find that the installer fails to work for you then please file a bug report in the RQCC or email support@runrev.com so we can look into the problem.

In the case of failed install it is vitally important that you include the following information:

- Your platform and operating system version
- The location of your home/user folder
- The type of user account you are using (guest, restricted, admin etc.)
- The installer log file located as follows:
 - **Windows 2000/XP:** <documents and settings folder>/<user>/Local Settings/

- **Windows Vista/7:** <users folder>/<user>/AppData/Local/RunRev/Logs
- **Linux:** <home>/<runrev>/logs
- **Mac:** <home>/Library/Application Support/Logs/RunRev

Activation

The licensing system ties your product licenses to a customer account system, meaning that you no longer have to worry about finding a license key after installing a new copy of LiveCode. Instead, you simply have to enter your email address and password that has been registered with our customer account system and your license key will be retrieved automatically.

Alternatively it is possible to activate the product via the use of a specially encrypted license file. These will be available for download from the customer center after logging into your account. This method will allow the product to be installed on machines that do not have access to the internet.

Multi-user and network install support (4.5.3)

In order to better support institutions needing to both deploy the IDE to many machines and to license them for all users on a given machine, a number of facilities have been added which are accessible by using the command-line.

Note: *These features are intended for use by IT administrators for the purposes of deploying LiveCode in multi-user situations. They are not supported for general use.*

Command-line installation

It is possible to invoke the installer from the command-line on both Mac and Windows. When invoked in this fashion, no GUI will be displayed, configuration being supplied by arguments passed to the installer.

On both platforms, the command is of the following form:

```
<exe> install noui options
```

Here *options* is optional and consists of one or more of the following:

-allusers	Install the IDE for all users. If not specified, the install will be done for the current user only.
-desktopshortcut	Place a shortcut on the Desktop (Windows-only)
-startmenu	Place shortcuts in the Start Menu (Windows-only)
-location <i>location</i>	The location to install into. If not specified, the location defaults to those described in the <i>Layout</i> section above.
-log <i>logfile</i>	A file to place a log of all actions in. If not specified, no log is generated.

Note that the command-line variant of the installer does not do any authentication. Thus, if you wish to install to an admin-only location you will need to be running as administrator before executing the command. As the installer is actually a GUI application, it needs to be run slightly differently from other command-line programs.

In what follows <installerexe> should be replaced with the path of the installer executable or app (inside the DMG) that has been downloaded.

On Windows, you need to do:

```
start /wait <installerexe> install noui options
```

On Mac, you need to do:

```
"<installerexe>/Contents/MacOS/installer" install noui options
```

On both platforms, the result of the installation will be written to the console.

Command-line activation

In a similar vein to installation, it is possible to activate an installation of LiveCode for all-users of that machine by using the command-line. When invoked in this fashion, no GUI will be displayed, activation being controlled by any arguments passed.

On both platforms, the command is of the form:

```
<exe> activate -file license -passphrase phrase
```

This command will load the manual activation file from *license*, decrypt it using the given *passphrase* and then install a license file for all users of the computer. Manual activation files can be downloaded from the 'My Products' section of the RunRev customer accounts area.

This action can be undone using the following command:

```
<exe> deactivate
```

Again, as the LiveCode executable is actually a GUI application it needs to be run slightly differently from other command-line programs.

In what follows <livecodeexe> should be replaced with the path to the installed LiveCode executable or app that has been previously installed.

On Windows, you need to do:

```
start /wait <livecodeexe> activate -file license -passphrase phrase
start /wait <livecodeexe> deactivate
```

On Mac, you need to do:

```
"<livecodeexe>/Contents/MacOS/LiveCode" activate -file license -passphrase phrase
"<livecodeexe>/Contents/MacOS/LiveCode" deactivate
```

On both platforms, the result of the activation will be written to the console.

Proposed changes

The following changes are likely to occur in the next or subsequent non-maintenance release:

- The engine (both IDE and standalone) **will require** gtk, gdk, glib, pango and xft on Linux

Engine changes

iOS 8.1 Support (6.6.5)

Support has been added to LiveCode 6.6.5 allowing 10.9 and 10.10 users to build using the iOS 8.1 SDK. This means that users can now test using the iOS 8.1 simulators that are included with XCode 6.1. Also, users running 10.9 and 10.10 must have XCode 6.1 installed in order to produce (iOS 8.1) device builds. iOS support for all other versions of OS X remains unchanged.

Location Services Disabled (6.6.5)

A new function **mobileLocationAuthorizationStatus** (or **iphoneLocationAuthorizationStatus**) has been added. This returns the current location authorization status of the calling application. The status can be one of the following:

- **notDetermined**: User has not yet made a choice with regards to this application
- **restricted**: The application is not authorized to use location service
- **denied**: User has explicitly denied authorization for this application, or location services are disabled in Settings.
- **authorizedAlways**: User has granted authorization to use their location at any time, including monitoring for regions, visits, or significant location changes.
- **authorizedWhenInUse**: User has granted authorization to use their location only when the app is visible to them (it will be made visible to them if you continue to receive location updates while in the background). Authorization to use launch APIs has not been granted.

We have also changed the flow of the messages being sent to the user when using Location Services in iOS 8:

- In the standalone application settings tab, the developer can choose the type of the authorization request for their app.
The two available options are either "always" or "when in use". Selecting "always" means that the app will prompt the user to grant authorization to use their location at *any* time, including monitoring for regions, visits, or significant location changes. The app then has access to the user's location even when the app is in the background. On the contrary, if "when in use" is selected, the app will prompt the user to grant authorization to use their location only when the app is visible on screen. You can choose only one type, not both. This means that if you go to Settings -> Privacy -> Location, you will see only two choices available ("Never" and either "Always" or "While using the app") for this app, keeping it consistent with other iOS apps.
- When the app is installed (on device or simulator) for the very first time, a dialog will pop up asking the user to authorize the app to use their location "always" or "when in use", depending on what was previously chosen in the standalone application settings.
- Every time the app is launched, it remembers the user's preference. No other popup dialogs will appear.
- The user can at any time change their preferences in Settings -> Privacy -> Location -> ..
- In that way, you need not modify your existing scripts that used Location Services, in order to add iOS 8 support.

Specific bug fixes (6.6.5)

(bug fixes specific to the current build are highlighted in bold, reverted bug fixes are stricken through)

Denying access to location services when the app is launched for the first time causes

- 13707 Denying access to location services when the app is launched for the first time causes freeze
- 13699 iOS 8 Keyboard is invisible if privacy set to "While Using the App"
- 13590 Location Services Disabled

Dictionary changes

- The entry for **mobileLocationAuthorizationStatus** (*function*) has been updated.

Previous Release Notes

6.6.2 Release Notes	http://downloads.livecode.com/livecode/6_6_2/LiveCodeNotes-6_6_2.pdf
6.6.1 Release Notes	http://downloads.livecode.com/livecode/6_6_1/LiveCodeNotes-6_6_1.pdf
6.6.0 Release Notes	http://downloads.livecode.com/livecode/6_6_0/LiveCodeNotes-6_6_0.pdf
6.5.2 Release Notes	http://downloads.livecode.com/livecode/6_5_2/LiveCodeNotes-6_5_2.pdf
6.5.1 Release Notes	http://downloads.livecode.com/livecode/6_5_1/LiveCodeNotes-6_5_1.pdf
6.5.0 Release Notes	http://downloads.livecode.com/livecode/6_5_0/LiveCodeNotes-6_5_0.pdf
6.1.3 Release Notes	http://downloads.livecode.com/livecode/6_1_3/LiveCodeNotes-6_1_3.pdf
6.1.2 Release Notes	http://downloads.livecode.com/livecode/6_1_2/LiveCodeNotes-6_1_2.pdf
6.1.1 Release Notes	http://downloads.livecode.com/livecode/6_1_1/LiveCodeNotes-6_1_1.pdf
6.1.0 Release Notes	http://downloads.livecode.com/livecode/6_1_0/LiveCodeNotes-6_1_0.pdf
6.0.2 Release Notes	http://downloads.livecode.com/livecode/6_0_2/LiveCodeNotes-6_0_2.pdf
6.0.1 Release Notes	http://downloads.livecode.com/livecode/6_0_1/LiveCodeNotes-6_0_1.pdf
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