



**ProfileUnity™
with FlexApp™ Technology**

***Guide for Upgrading
Versions Prior to 5.5***

Introduction

This guide has been authored by experts at Liquidware in order to provide information and guidance concerning the process of upgrading older versions of ProfileUnity prior to Version 5.5 to the current version.

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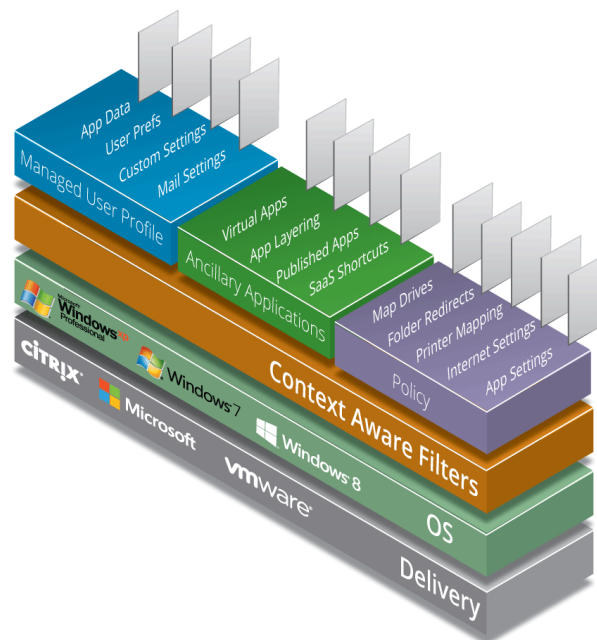
Contents

- PROFILEUNITY WITH FLEXAPP TECHNOLOGY OVERVIEW 3**
- UPGRADING PROFILEUNITY FROM VERSIONS PRIOR TO 5.5 5**
- CONVERTING THE DATABASE FROM POSTGRESQL TO SQLITE 7**
 - BACKING UP YOUR LEGACY DATA 7
 - REMOVING THE OLD SOFTWARE AND INSTALLING 6.0..... 7
 - IMPORTING YOUR LEGACY DATA..... 8
 - RESTORING YOUR IMPORTED DATA 9
- CONVERTING THE DATABASE FROM SQLITE TO MONGODB 11**
 - ONLINE MODE 11
 - OFFLINE MODE 12
 - UPDATING THE FLEXAPP PACKAGING CONSOLE 12
 - UPDATING THE PROFILEUNITY CLIENT..... 12
- GETTING HELP UPGRADING PROFILEUNITY..... 13**
 - USING ONLINE RESOURCES..... 13
 - CONTACTING SUPPORT 13

ProfileUnity with FlexApp Technology Overview

ProfileUnity™ with FlexApp delivers feature-rich, yet affordable, User Environment Management and Application Layering for both virtual desktop deployments and physical PCs. ProfileUnity decouples user profiles, settings and data from the operating system thus ending the user migration cycle to new Windows desktops, including Citrix XenDesktop, XenApp, and VMware Horizon. ProfileUnity's ongoing User Environment Management features centralize user and policy management with context aware settings that are only limited by your imagination.

ProfileUnity delivers a flexible universal profile that is compatible across multiple Windows versions. ProfileUnity boasts a lightweight agent and no complex software package to install on end-points. This cost-effective solution separately stores and dynamically applies user profiles, configurations, data, and select layered applications to a Windows OS in seconds at login, enabling organizations to be more flexible than ever before with their desktops.



ProfileUnity's FlexApp technology is designed to allow administrators to deploy corporate or department installed applications (DIA) without the burden of tedious base image management. FlexApp enables a potentially limitless number of applications to be stored separately from the Windows operating system yet 'snapped-in' in only seconds at login. Applications look native to the operating system, enabling compatibility of thousands of more applications than with other methods of application virtualization.

ProfileUnity offers these key advantages:

- ProfileUnity retains profiles in native Windows® formats, which keeps them backward and forward compatible across Windows operating systems. ProfileUnity is the perfect solution to harvest user profiles and user data from an older Windows OS and deliver it to a newer Windows OS just in time. Profiles can also co-exist across multiple Windows versions.
- ProfileUnity runs as a standalone system. No proprietary databases are used for user profiles or data. The lightweight client installs to endpoints without the need for software distribution or user downtime. ProfileUnity is priced an average of 40 to 50 percent less than other user virtualization offerings, for faster ROI and a lower overall budget.

- ProfileUnity offers sophisticated features including Context-Aware Filters, Integration with Microsoft® Active Directory, Advanced Folder Redirection options, and more.
- ProfileUnity includes Application Rights Management for no added cost. These features enable you to elevate privileges for select users to run or install select applications and restrict users from running select applications in the base image.

Innovative FlexApp technology provides key benefits to customers, including:

- Simplifies management of non-persistent Windows environments dramatically because fewer master images must be maintained
- Promotes greater desktop virtualization ROI and economies of scale because more workers can use the virtual desktop infrastructure
- Reduces desktop administrator time on maintenance and troubleshooting activities
- Significantly lowers TCO as organizations realize optimal license use and reduce storage requirements
- Layers the application in the native locations throughout the Windows OS without application isolation.

The top reasons that customers deploy ProfileUnity include:

- Speed up overall user login times
- Co-exist Windows Operating Systems – seamless onboarding to new desktop, end user migrations
- Application Layering by group, department, or user – streamline image management
- Application Rights Management – restrict or elevate users to run select apps
- Replace Roaming Profiles – solving profile portability, granular, faster, dependable
- Lower costs of delivering VDI – lower storage and management costs
- Make more users compatible with VDI – knowledge workers and power users can have the customizations and apps they demand even in VDI
- Deliver context aware desktop experience – printer management, settings, shortcuts, etc. all based on custom filters
- Disaster Recovery - persona, data, apps restored in seconds to any Windows desktop
- Ongoing management of the desktop – provision settings, standards, registry modifications, desktop lockdown, and more
- One central user management console -Persona, Applications, Configurations, and central migration settings – for any and all Windows desktops

Upgrading ProfileUnity from Versions Prior to 5.5

If you are running a version of ProfileUnity prior to Version 5.5 in your environment, you will want to save a Backup of all your user and environment settings that you currently have. The Configuration Management, Filter Management, and Portability Management customizations can later be added back to the new version of ProfileUnity you install into your environment. All ProfileUnity configuration settings are saved in a PostgreSQL database which you will use in performing your backup and restore procedures.

If you do not backup your existing ProfileUnity settings before installing the new version of software, you will not be able to recover them. They will be overwritten with the default settings.

Starting with Version 5.5, ProfileUnity is available only as a standalone product. ProfileUnity is no longer included as part of the Liquidware Stratusphere virtual appliance.

Only databases from Version 4.8.1, 5.0.x, and 5.2.x are compatible with ProfileUnity 5.5.x to 6.0.x. If you need to upgrade versions prior to 4.8.1, please contact our Support Team.

Starting with version 5.5.x, ProfileUnity switched from using a PostgreSQL database to using a SQLite database. Beginning with version 6.5.x, ProfileUnity upgraded the database again using MongoDB. This document guides you through the two-step process of converting your existing configuration settings to the MongoDB database.

Please note that you cannot upgrade versions prior to 5.5.x directly to version 6.5.x and beyond. The database upgrade is a two-step process. You must first upgrade versions prior to 5.5.x to any version from 5.5.x to 6.0.x. Then you can complete the process with the second database upgrade to version 6.5.x or higher.

If you have already upgraded ProfileUnity to 5.5.x, then you can simply do software updates from within the Management Console without re-importing your settings data. Please see the ***Installation & Configuration Guide*** for more information on installing software updates.

To find out which version of the ProfileUnity Management Console you are running, open the Management Console and look in the lower left-hand corner for the version number. You can compare this version number with what is available on Liquidware's Software Download Area.

Configuration Management

New Configuration	Name	Created	Modified
Summary Edit Delete Copy	Default	10/03/2012	10/03/2012
Download	Configuration Created 10/03/2012 11:58 AM		

Displaying 1 of 1

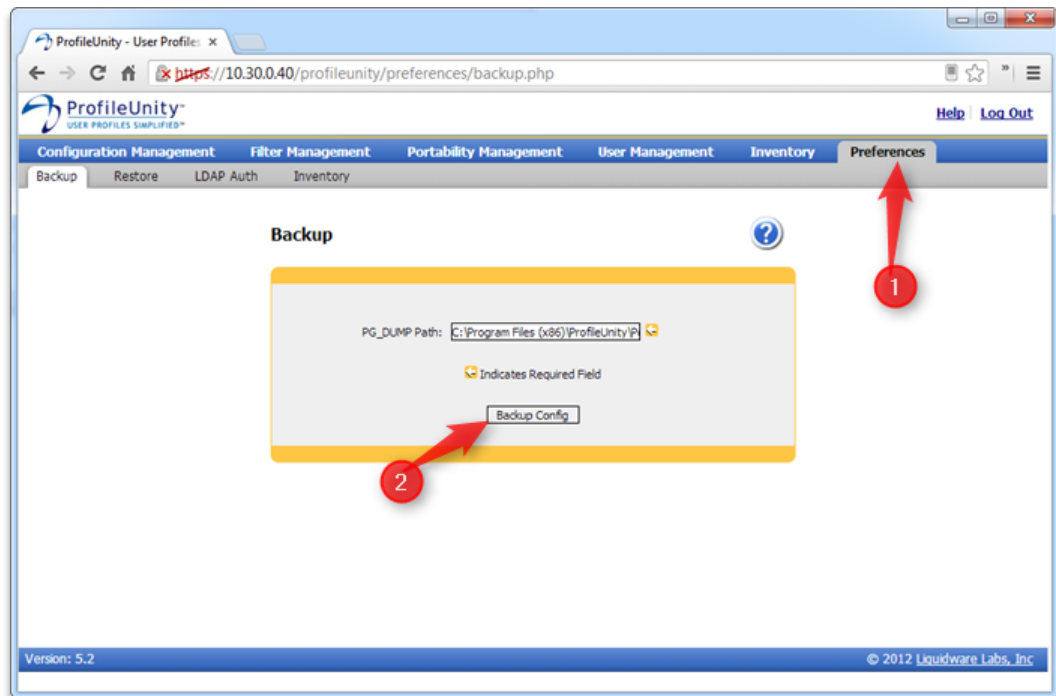
[New Configuration](#) | [Guided Configuration](#)

Converting the Database from PostgreSQL to SQLite

Backing Up Your Legacy Data

To create a backup of your existing settings in your previous version of ProfileUnity:

1. Open the ProfileUnity Management Console, go to the **Preferences** tab.
2. Select the **Backup** tab and click on **Backup Config**.



3. Choose where to save your SQL backup file and click **OK**.
4. Verify that the backup file was saved on your system in the location that you indicated.

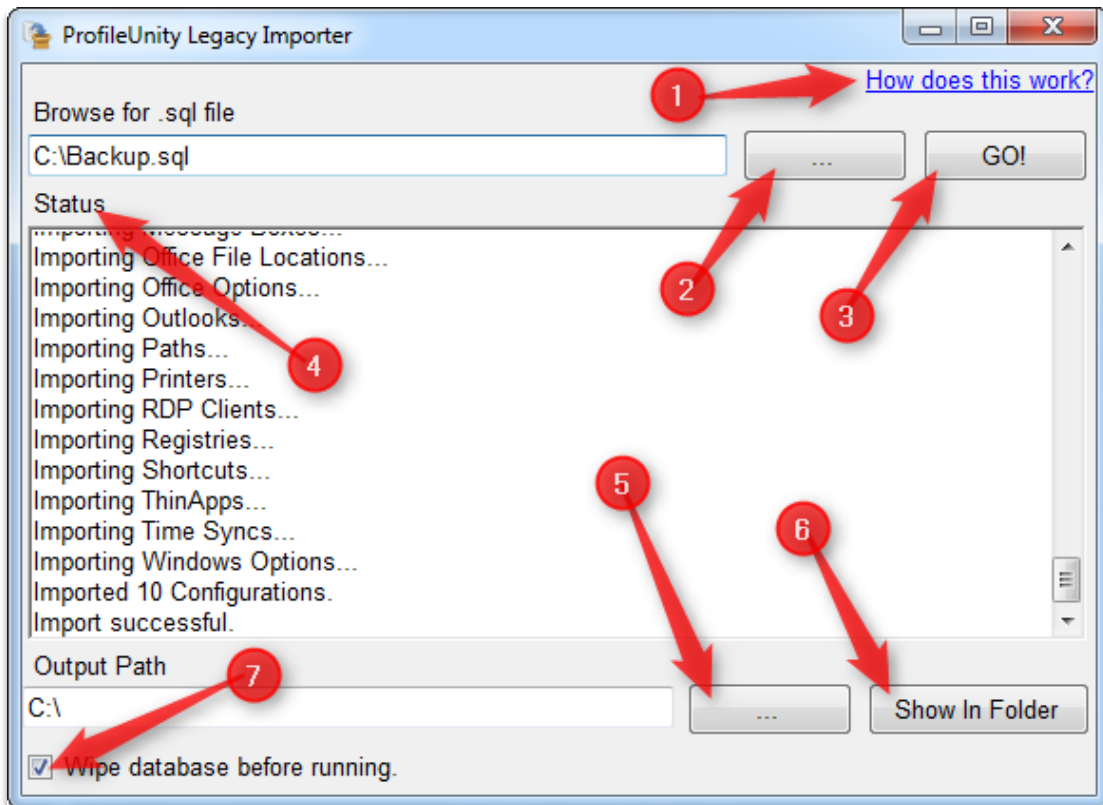
Removing the Old Software and Installing 6.0

Once you have backed up your ProfileUnity settings, you can now safely remove the old ProfileUnity software and install version 6.0.x.

1. From the Start button on your computer, go to **Control Panel** and select **Programs and Features**. Right click on ProfileUnity in the list, and select **Uninstall**.
2. Contact Support at support@liquidware.com to get ProfileUnity Version 6.0.x along with the Installation & Configuration Guide.
3. Please review the ProfileUnity **Installation & Configuration Guide** for more information on software requirements, installation, and configuration.
4. Install Version 6.0.x of the ProfileUnity software. At the end of the installation, you may choose to open the ProfileUnity Legacy Importer (PLI) to import your existing ProfileUnity settings and proceed with the next step in the process or you can do the import at a later time.

Importing Your Legacy Data

After installing ProfileUnity 6.0.x, the ProfileUnity Legacy Importer (PLI) will help you import your settings database from a prior version of ProfileUnity. To open the PLI, go to **Start > All Programs > ProfileUnity.NET > ProfileUnity Legacy Importer**. The PLI must be run from the same machine that is running the ProfileUnity.NET web services, and you must be logged in as an administrator.



1. If you need to access the online help information on the upgrade process, click on the **How does this work?** in the upper right-hand corner.
2. To get started with the import, click ... to browse for the previously downloaded SQL backup database file.
3. Once you have located the database file, click **GO!** to start the data import.
4. You can monitor the progress of the import in the **Status** window.
5. By default, a new database named **imported.db** will be created to the location you specify for the **Output Path**. Click ... below the **Status** window to select the **Output Path**.
6. To view the new database, click on **Show in Folder**.

Wipe database before running: This option is useful if you want to start with a fresh new database. Keep in mind that default data is still contained in the database such as Portability Rulesets. When left unchecked this is a nice way to consolidate multiple legacy databases into a single database. However, if a conflict arises because Configurations, Filters or Portability Settings in the import file are named the same as those in the existing ProfileUnity database, they will not be imported. They will be skipped during the import and the existing settings will remain.

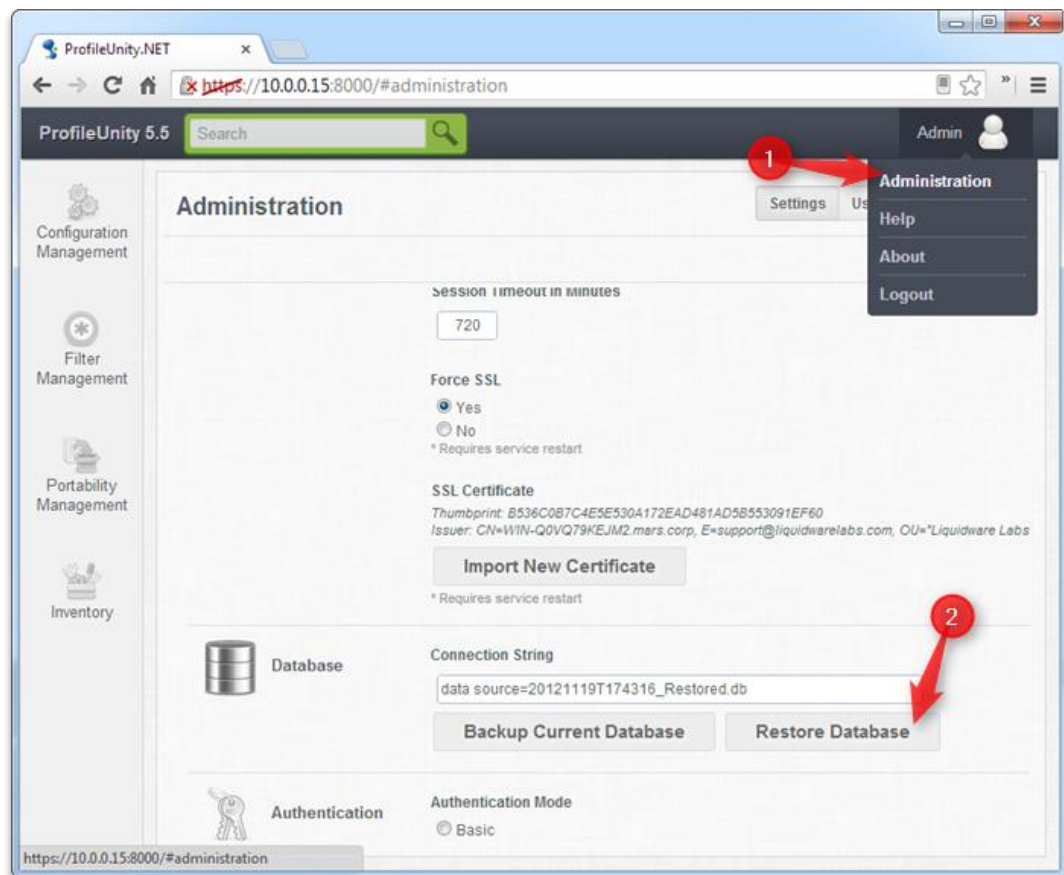
Restoring Your Imported Data

The final step in the upgrade process is to connect the database with the ProfileUnity.NET web interface.

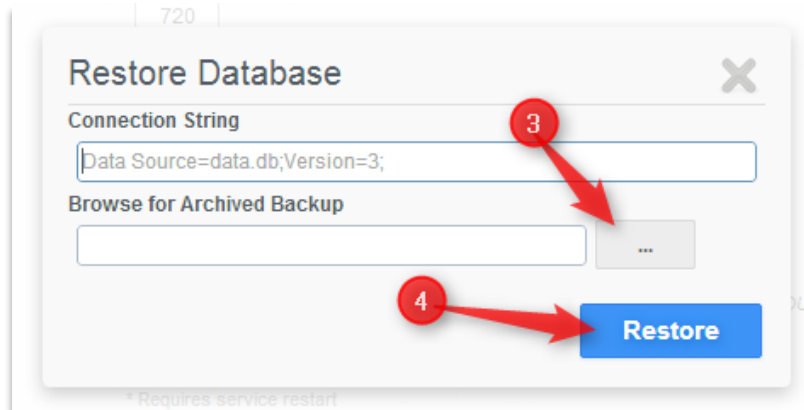
The PLI only imports Configuration, Filter and Portability settings. Restoring this data in the new version of ProfileUnity will not affect any of your Administration settings.

Also note that if any existing Configurations, Filters and Portabilities in the new version of the ProfileUnity Management Console have the same names as the Configurations, Filters and Portabilities contained in the database you are restoring, they will not be restored. Instead, they will be skipped.

1. Start the ProfileUnity Management Console. Go to your login user ID at the top right of the interface and select **Administration** from the drop-down list. Under **Administration Settings**, make sure **Settings** is selected.
2. Scroll down to the Database section and click on **Restore Database**.



3. Click on ... to browse for the file that was created by the ProfileUnity Legacy Importer.
4. Click **Restore** to complete the process of restoring your legacy data.



Converting the Database from SQLite to MongoDB

Once you have successfully converted your ProfileUnity database from PostgreSQL to SQLite used in ProfileUnity Versions 5.5.x to 6.0.x, you can now complete the second database upgrade to MongoDB which is used in versions 6.5.x and higher. There are no special conversion tools to use when upgrading the ProfileUnity database from SQLite to MongoDB. The ProfileUnity installer will automatically complete the conversion for you.

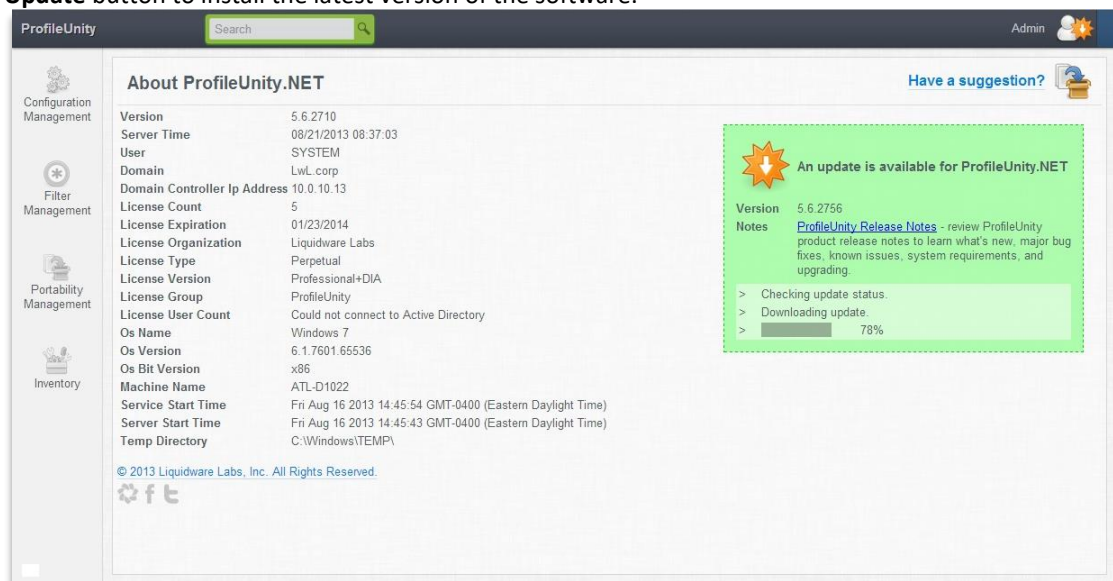
To update your software, you will not need to backup or restore your existing ProfileUnity configuration database. The update process will preserve your database. Also, it is not necessary to uninstall the old software before installing a new software update.

As a precaution during the database upgrade process, we do recommend that you have a snap shot of ProfileUnity and the SQLite database to roll back to as a recovery point if the upgrade to the MongoDB needs to be restarted.

Please review the ProfileUnity **Installation & Configuration Guide** for more information on software requirements, installation, and configuration. You can download this guide from Liquidware's [ProfileUnity Product Documentation & Resources Area](#) on the Support Portal. Choose your preferred method of installing software updates via either Online Mode from within the ProfileUnity Management Console or Offline Mode using an installer.

Online Mode

1. From the ProfileUnity Management Console, go to your username in the top right corner of the console. Click on **About**.
2. On the About screen, the version number you are currently running is displayed. If an update is available, there will be a special message box with the version number of the update. Click the **Update** button to install the latest version of the software.



About ProfileUnity.NET

Version	5.6.2710
Server Time	08/21/2013 08:37:03
User	SYSTEM
Domain	LwL.corp
Domain Controller Ip Address	10.0.10.13
License Count	5
License Expiration	01/23/2014
License Organization	Liquidware Labs
License Type	Perpetual
License Version	Professional+DIA
License Group	ProfileUnity
License User Count	Could not connect to Active Directory
Os Name	Windows 7
Os Version	6.1.7601.65536
Os Bit Version	x86
Machine Name	ATL-D1022
Service Start Time	Fri Aug 16 2013 14:45:54 GMT-0400 (Eastern Daylight Time)
Server Start Time	Fri Aug 16 2013 14:45:43 GMT-0400 (Eastern Daylight Time)
Temp Directory	C:\Windows\TEMP\

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Have a suggestion?

An update is available for ProfileUnity.NET

Version: 5.6.2756
Notes: [ProfileUnity Release Notes](#) - review ProfileUnity product release notes to learn what's new, major bug fixes, known issues, system requirements, and upgrading.

> Checking update status.
> Downloading update: 78%

Offline Mode

1. Go to the Download area at the [Liquidware website](#).
2. Either login to the Customer Download Portal or fill out and **Submit** the Download form.
3. You will be redirected to the Download Page where you can select and download the ProfileUnity Installer that you need for your environment.
4. Run the installer and follow the directions to update your ProfileUnity software.

Updating the FlexApp Packaging Console

If updates have been made to the FlexApp Packaging Console since you last installed it, you will need to update it from the ProfileUnity Management Console. To find information on FlexApp Packaging Console updates, please refer to the **ProfileUnity Release Notes** on the Liquidware website. To install updates:

1. From the ProfileUnity Management Console, go to your username in the top right corner of the console. Click on **Administration**.
2. On the Settings page, scroll down to the ProfileUnity Tools section and click on **Download FlexApp Packaging Console**. Run the installer on your login to your FlexApp Packaging Console desktop before creating a snap shot or composing.

Updating the ProfileUnity Client

Along with updating the ProfileUnity Management Console, you will also need to update the ProfileUnity Client. The client can be updated from the ProfileUnity Management Console. To find information on ProfileUnity Client updates, please refer to the **ProfileUnity Release Notes** on the Liquidware website. To install updates:

1. Backup your ProfileUnity license file by saving your license file, **profileunity.lic**, to your desktop or another location. By default, this license file is located in the ProfileUnity folder, located in the NETLOGON share on your domain controller.
2. From the ProfileUnity Management Console, go to your username in the top right corner of the console. Click on **Administration**.
3. On the Settings page, scroll down to the ProfileUnity Tools section and click on **Download Client Tools**.
4. Set your **Deployment Path** in the Management Console as the destination of the client files and check the **Overwrite files if they exist** checkbox.
5. To save these deployment settings, click on the **Update** button in the top right corner of the Settings page.
6. After the deployment settings have been saved, click on **Deploy Client Tools** in the ProfileUnity Tools section.
7. Once the client files have been installed, restore your license file back to your ProfileUnity folder on your domain controller.
8. With all Client updates, you will need to re-download all of your configuration INI files to ensure the file format synchronizes with the new software update. Go to the **Configuration Management** area and for each configuration in the list:
 - a. Click on **Download** next to its name.
 - b. Save this INI file to the same location where the ProfileUnity Client is installed.

Getting Help Upgrading ProfileUnity

If you have questions or run into issues while upgrading or using ProfileUnity with FlexApp, Liquidware is here to help. Our goal is to provide you with the knowledge, tools, and support you need to be productive.

Using Online Resources

Liquidware maintains various kinds of helpful resources on our [Customer Support Portal](#). If you have questions about your product, please use these online resources to your full advantage. The Support Portal includes product forums, a searchable Knowledge Base, documentation, and best practices among other items. You can visit our website at <http://www.liquidware.com>.

Contacting Support

If you wish to contact our Support staff for technical assistance, please either log a request on the [Liquidware Customer Support Portal](#) or give us a call. Prior to Logging a Case you may want to review these helpful tips:

- Check the Product Documentation included with your Liquidware Product.
- Try to see if the problem is reproducible.
- Check to see if the problem is isolated to one machine or more.
- Note any recent changes to your system and environment.
- Note the version of your Liquidware product and environment details such as operating system, virtualization platform version, etc.

To speak directly with Support, please use the following numbers:

Toll Free in USA & Canada: 1-866-914-9665

International: + 1-678-397-0460