

## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

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## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

v 6.8.1.7044, Released April 17<sup>th</sup>, 2019

### Major Updates

#### ***ProfileUnity Management Console***

- Upgrading a ProfileUnity Management Console that is installed on any drive other than C: is supported in this release.
- ProfileUnity Cluster upgrades are supported in this release, Follow this KB <https://liquidwarelabs.zendesk.com/hc/en-us/articles/360022248492-How-to-upgrade-a-ProfileUnity-cluster-to-6-8-x>
- For ProfileUnity Management Consoles deployed from AWS Marketplace, you can pick between Bring-Your-Own-License (BYOL) or hourly billing. Hourly billing also has a built-in trial period of 2000 hours free before the hourly billing starts.
- Management Console logins no longer use Microsoft Active Directory but instead use the local token of the user to check groups. This works around high-security servers and speeds up the login to the console.
- Windows Server 2019 is now a supported OS install for the ProfileUnity Management Console.
- Templates have been updated for Windows 10 1809 and 1903.
- Templates have been updated for Windows Server 2019 as a desktop and RDS.
- An Amazon AppStream template has been added.
- An Amazon AppStream filter has been added.
- A VMware Blast filter has been added.
- A Nutanix Xi Frame filter has been added.
- A Windows Server 2019 filter has been added.
- When downloading the Client Tools from the ProfileUnity Tools section of the Administration area, you will first click the “Deploy Client Tools” option. Then you can pick to deploy the files to the domain or download with the web browser.
- Cloud storage-based templates now use the GPO option for the license connection string instead of client settings file.

#### ***Client***

- Windows 10 1809 is now a supported client OS.
- Group check filters could have taken longer in some environments.
- Faster logins — In prior versions, all our executables in .NET would try and do Certificate Revocation List back to Microsoft. This has now been disabled in all our .NET executables. Even if the OS could have gotten back to Microsoft to do a CRL, this still takes some time. In some

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environments, this can cause large login delays and keep ProfileUnity services from starting in a timely fashion.

- The Client diagnostic tool runs faster and collects more diagnostic data for better trouble shooting.

### ***FlexApp***

- The FlexApp Packaging Console and the FlexApp service no longer perform a Certificate Revocation List back to Microsoft. This should speed up opening the FlexApp Packaging Console and the service should not timeout on startup if there isn't any internet connection.
- In prior versions, FlexApp captures were disrupted by a Windows Update. A file system exclusion was put in to solve this capture problem.
- FlexApp has an updated process exclusion list to be more compatible with 3<sup>rd</sup> party software that is not in layers.
- FlexApp Icons are now in a supported format for Microsoft Windows Virtual Desktops when publishing a FlexApp as a published application.

## **Minor Updates**

### ***Client***

- Cloud installs of the Client now use a local-to-you edge server to speed up the download.
- The VHD module now executes before the FlexApp DIA module. This should help reduce contention when using both modules.
- The 7zip software has been updated to version 18.05 for security reasons.
- Mapped Drive module refresh has been moved to post login to help speed up logins.
- WMI rebuild happens on boot to help speed up logins, this can be disabled now.
- The connection string can be read from a registry value now and overrides the Client Settings file. This helps if you need to update the string without needing to recompile.
- When startup.exe runs on boot, startup will ensure nothing has corrupt our services XML files. If these files are corrupt, they will be repaired.
- Startup.exe can be run from C:\Program Files\ProfileUnity\Client.net. This helps when you don't have a UNC path but still need startup.exe to change settings on the desktop.
- A login with ProfileDisk will no longer hang if the VHD is not accessible.
- On logoff with ProfileDisk, the associated HKLM profile list registry key is removed.
- If a user's ProfileDisk fails to mount on login, the OS is cleaned up and the user will login normally.
- All post-login printer functions can now be disabled.
- The command service will now watch for Userinit changes and correct them post domain join boot.
- The Client will now install ProfileUnity as a Service when NOT domain joined then correct itself post domain join.

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## Issues Resolved

- **Management Console**

- Fixed an issue with multi-site clustering connection string problems.
- Fixed an issue with Administration > Client Settings where the same Client Settings file was deployed/downloaded when a user tried to deploy the client settings by picking a different “Communication Type to Broker Messages”.
- Fixed an issue in the Administration where Miscellaneous, Client Settings, and Webservices edited details were not saving properly.
- Fixed an issue where a cluster could not be created.
- Fixed an issue in Administration where changing “Communication Type to Broker Messages” for ProfileDisk caused the UI to redirect back to login page when clicking the “Update” button.
- Fixed an issue with the Administration where the creds file was corrupt when downloaded instead of deployed.
- Fixed an issue where services were stopped automatically after checking "Enable High Availability Mode ".
- Fixed an issue with the “Confirm your Settings” step of the Guided Configuration Wizard where the download action was not working in the “Deploy Client Tools” pop-up.
- Fixed an issue with Licensing where licenses were not processed if the Rabbit software was not fully operational when the console started.
- Fixed an issue in the About section where service start times could have been older than server start times.
- Fixed an issue in Administration > ProfileUnity Tools where the download action was not working in the “Deploy Client Tools” pop-up.
- Fixed an issue in Administration where the “Deploy Service Configuration” button did not prompt like the other deploy buttons and failed for cloud paths.
- Fixed an issue in the Guided Configuration Wizard where an invalid error message was displayed in “Add Cloud Console Credentials” for invalid details.
- Fixed an issue where Connection Type label for FlexApp was labeled incorrectly.
- Fixed an issue with the Legacy License Reader. If a LIC file check from NETLOGON resulted in access denied, the object reference was not set.
- Fixed an issue with ProfileUnity.Host.Update.ServiceUpdateManager where there was a failure reading legacy license files after an upgrade.
- Fixed an issue with Administration where editing the connection string value wasn’t saved.
- Fixed an issue with Configuration Management where clicking the “Deploy” button on a ProfileDisk config was redeploying the wrong ClientSettings.xml file.
- Fixed an issue where ProfileUnity and MongoDB Services failed to start after reboot on slower storage.
- Fixed an issue where the upgrade of a server in a cluster on version 6.8.0 failed.
- Fixed an issue with version 6.8.0 where upgrades failed when ProfileUnity was installed on any drive other than C:\.

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- Fixed an issue in FlexDisk Management where the FlexApp DIA tab was disabled for the "ProfileUnity+FlexApp" license user only.
  - **Client**
    - Fixed an issue with Azure AD account with Citrix Single Sign On where ProfileDisks were created and attached, but they could not detach.
    - Fixed an issue with slow initialization on Windows 7 32-bit.
    - Fixed an issue where lwl\_tray.exe was blocked by AppLocker.
    - Fixed an issue where post-flight procedures did not run consistently when ProfileDisk was enabled.
    - Fixed an issue where "Pin to taskbar" for shortcuts was not working after logoff and login on Windows 10, and Windows Server 2016 & 2019 environments.
    - Fixed an issue where Folder Redirection with sync broke permissions to user files.
    - Fixed an issue where Message Boxes were not working when the schedule was set for a specific date.
    - Fixed an issue with Application Launcher where the string format was not recognized as a valid Date/Time.
    - Fixed an issue with Startup where the filter driver was not fully removed during uninstall.
    - Fixed an issue with Startup where ProfileUnity as a Service apps were not playing back (VMDK).
    - Fixed an issue with Startup where the cbfltfs4 service on the computer could not be stopped.
    - Fixed an issue with Folder Redirection where existing files were deleted when access was denied.
    - Fixed an issue with Inventory where system details were displaying the wrong operation system name when logging into to Windows Server 2019.
    - Fixed an issue where a slash at the end of the debug log path caused the Client to fail.
    - Fixed an issue where the Client did not run for a persistent ProfileUnity user if the Client was uninstalled and re-installed.
    - Fixed an issue with a ProfileUnity error message that was displaying at the time of restart of the client machine after joining to the domain.
    - Fixed an issue with Startup where a fatal exception occurred when the credentials file contained an unresolvable username.
    - Fixed an issue with Startup where it was unable to find ClientSettings.xml in S3 when startup.exe is run as a user (not SYSTEM).
    - Fixed an issue with Startup where the Client Service password was displayed in startup output when the credential file was in use.
    - Fixed an issue where user added printers were not consistently restored when ProfileDisk was used and the drivers were not installed in the base image.
    - Fixed an issue where the Portability Settings Module was not working in all environments.
    - Fixed an issue the Client left behind some registry keys and values upon uninstall.

- **FlexApp**
  - Fixed an issue with FlexApp where fonts were captured but did not get re-added on playback.
  - Fixed an issue with FlexApp DIA where BlackIce ColorPlus printer drivers were not captured or played back correctly.
  - Fixed an issue with FlexApp DIA where Nuance PDF printer drivers were missing, causing the Windows installer to run on an application open.
  - Fixed an issue with packages that captured registry changes for user (HKCU, HKU/.default, HKU/SID) but would not reflect those changes on playback.
  - Fixed an issue where editing a package that contained MS Office would invalidate its license.
  - Fixed an issue with FlexApp DIA where cloning the Liquidware FlexApps to Azure Blob failed 1 out of 5 times.
  - Fixed an issue with FlexApp where Office 2010 did not work on Windows 10 (1709, 1809).
- **FlexDisk**
  - Fixed an issue where FlexDisk mirroring did not work with VSAN 6.x datastores.
  - Fixed an issue where the FlexDisk service timed out attempting to perform CRL check on startup.

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**COMPONENT VERSIONS**

Component	6.8.1
Console UI	6.8.1.7044
FlexDisk Service	6.8.1.7044
Client	6.8.1.1126
Client.NET	6.8.1.7040
VirtFS	6.8.1.7044
LWL UserApp Player	6.8.1.40313
LWL UserApp Service	6.8.1.40313
LWL Elevation Service	6.8.1.40313
FPC	6.8.1.7044
FPC Player	6.8.1.40313
FPC VirtFS	6.8.1.7044
CSMonitor	6.8.1.7044

## Known Issues and Limitations

- **End-of-Life for ProfileUnity versions 4.x and 5.x:** Liquidware will be discontinuing all sales and technical support of ProfileUnity versions 4.x and 5.x effective 12/31/2017. We encourage all customers who may still be utilizing these versions to upgrade to a more recent version to take advantage of the numerous technology & feature enhancements as well as resolved support issues.
- **End-of-Life for ProfileUnity version 6.0.x:** Liquidware will be discontinuing all sales and technical support of ProfileUnity version 6.0.x effective 12/31/2018. We encourage all customers who may still be utilizing these versions to upgrade to a more recent version to take advantage of the numerous technology & feature enhancements as well as resolved support issues.
- Support has ended for Windows XP, Vista, Server 2003 and Server 2008 non-R2. You will need to use version 6.7.7 to support these older operating systems.
- Shortcut - Some Modern apps are not pinned on Windows 10.
- File Association is not working on Windows 10 when setting with Modern apps.
- Shortcut - Modern apps are not pinned on German environment (Windows 10 V1703).
- Audit Management - Changing No Filter To Filter shows internal filter ID, not friendly name.
- Office 2013 and Office 2016 are not supported when layering FlexApp packages to Windows Server 2008 R2, 2012 R2; Windows Server 2016 is supported.
- Windows 10 LTSB 2015 is not supported.
- Windows 10 1511 is not supported.
- Office 2016 as a FlexApp package won't license on Windows 10 LTSB.
  - Workaround: Use Windows 10 Enterprise 1607
- When using 3<sup>rd</sup> party layering products, you must fully disable FlexApp.
- Migrating to ProfileDisk where Portability Compression is set to "Faster Archives" would cause any rulesets set to userprofile to restore outside ProfileDisk.
  - Workaround: From the Main Configuration Module, change Portability Compression to use "No Compression" or "Smaller Archives" before migrating.
- When using license path and INI path at the same time, you cannot exceed a total combined character count of 238 characters; 22 are taken by the product.
- Windows 7/8 32-bit are no longer supported by the ProfileUnity Management Console.
- The use of \* in Privilege Elevation is no longer supported. To resolve this for FlexApp UIA, you would put in the Path Contains '\\server\share\%username%' and '%userprofile%'. This will auto approve anything trying to be installed from the user home share and profile path, for example Downloads, My Documents, Desktop.
- Files that have more than 260 characters are not processed by the portability engine.
- Applications packaged on Windows 7 and played back on Windows 8.1/10 is best effort. With all the changes made to Windows 8.1/10, application vendors have had to make many change to their applications to make them compatible with Windows 8.1/10, and we cannot ensure applications will run correctly. The same would apply in reverse; applications packaged on Windows 8.1/10 are best effort support when played back on Windows 7/10.
- Startup.exe will not run on 2008 R2 if .NET 3.5.1 is not enabled in features.
  - **Notes:** On Windows 2008 R2 .NET 3.5.1 is NOT enabled out of the box. To enable it before running startup.exe, run this command from an elevated command prompt



'serverManagerCmd.exe -install Net-Framework', reboot, run Windows Updates, reboot then re-run startup.exe.

- If the customer has automatic root certificate updates disabled, ProfileUnity install may fail with data1.cab certificate error
  - **Notes:** FED and some commercial accounts following federal STIG guidelines could have automatic root certificate updates disabled causing them to not have the latest root cert our installer code was compiled with the latest root certificates.
  - **KB Article:** [ProfileUnity Install May Fail If Automatic Root Certificate Updates Disabled - Data1.Cab Certificate Error](#)
- Using folder redirection on all of Appdata Local can cause the Windows 10 Start Menu to not work correctly.
- Using Portability on all of Appdata Local can cause long logins for Windows 10.
- Windows 7 pinned Start Menu items don't migrate to Windows 10 when using Portability.
- Windows 7 desktop background does not migrate to Windows 10 when using Portability.
- Installing ProfileUnity 6.5+ and Flex-IO on the same server is not supported.
- Windows 10 Edge history and cookies are not accepted by Windows.
  - Workaround: Use ProfileDisk VHD or VMDK.
- Migrating a Windows 7 ProfileDisk to Windows 10 will cause the Windows 10 Start Menu to lock up.
- Packaging application on Windows 10 with FlexApp requires all C++ runtimes are installed in the base OS of the FlexApp packaging console and the target desktop. On Windows 10 64-bit, you must install both x86 and x64 versions.
  - 2005 SP1 Redistributable Package (x86)
    - i. <https://www.microsoft.com/en-us/download/details.aspx?id=5638>
  - 2005 SP1 Redistributable Package (x64)
    - i. <https://www.microsoft.com/en-us/download/details.aspx?id=18471>
  - 2008 SP1 Redistributable Package (x86)
    - i. <https://www.microsoft.com/en-us/download/details.aspx?id=5582>
  - 2008 SP1 Redistributable Package (x64)
    - i. <https://www.microsoft.com/en-us/download/details.aspx?id=2092>
  - 2010 SP1 Redistributable Package (x86)
    - i. <https://www.microsoft.com/en-us/download/details.aspx?id=8328>
  - 2010 SP1 Redistributable Package (x64)
    - i. <https://www.microsoft.com/en-us/download/details.aspx?id=13523>

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## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

*v 6.8.0.6886, Released November 28<sup>TH</sup>, 2018*

### Major Updates

#### **ProfileUnity Management Console**

- Upgrading a ProfileUnity Management Console that is installed on any drive other than C: is **NOT** supported in this release. You will need to wait until version 6.8.1 or build a new 6.8.0 host and restore a database backup of your older version.
- ProfileUnity Cluster upgrades are **NOT** supported in this release. You will need to wait for 6.8.1 or build a new cluster and restore a database backup of your older version.
- The ProfileUnity Management Console now uses MongoDB version 4.0.0.
- The ProfileUnity Management Console now uses RabbitMQ version 3.7.4.
- ProfileUnity Licensing is now server-side based. Administrators can now see in real time how many licenses have been consumed and how many are remaining. The ProfileUnity Client communicates to the ProfileUnity License Server on TCP port 5672. Without this port open, end users will receive license error messages on the desktop. On upgrade, all customers will be given 30 days grace period to obtain a new license. Please email [licensing@liquidware.com](mailto:licensing@liquidware.com) to request a new license. See the following [FAQ](#).
- ProfileUnity Licensing now supports Concurrent User Licensing.
- The ProfileUnity Management Console will automatically translate into German, French or Japanese based on your browser language settings.

#### **Client**

- **Security vulnerability mitigated** – In a certain circumstance with prior versions, a normal user could use PowerShell to elevate a process to include administrator rights with ProfileUnity installed. This security issue has been fixed.
- ProfileUnity Client no longer uses nodes.xml the new file is called clientsettings.xml. If nodes.xml is present on upgrade, the Client will use it. If both nodes.xml and clientsettings.xml are present on upgrade, the Client will use any disk mode settings from nodes.xml and use the connection string from the clientsettings.xml.
- ProfileUnity self-elevation uses a code signing certificate instead of SHA-2. This reduces IOPS and CPU usage on the desktop. This code signing certificate expires on 9/26/2021. If you do not upgrade to a later version before 9/26/2021, you will have to put back in the SHA-2 self-elevation check. Some government environments don't update their root certificates. When this occurs, the workaround will be to put back in the SHA-2 self-elevation check or update the desktops' root certificates.

- Faster ProfileUnity execution: ProfileUnity no longer extracts large amounts of files into the user temp space. This makes the ProfileUnity Client execute faster and be less prone to slow downs caused by security and antivirus software.
- Faster ProfileUnity execution: The ProfileUnity Client no longer reads ProfileUnity.lic and no longer halts the login to count users in an Active Directory group for licensing. The license check is done in parallel to the login process and no longer leverages Active Directory groups.
- Faster ProfileUnity execution: Starting with 6.7.5, ProfileUnity no longer uses Active Directory to compare to certain filters. With 6.8.0, the local Windows token is leveraged for group membership. The process of checking the token no longer uses a PowerShell script and is faster.
- The Folder Redirection module now has logging and executes faster.
- The ThinApp module now has logging.
- The Inventory module now has logging.

### ***FlexApp***

- FlexApp packages now support streaming from cloud storage: Amazon S3, Google Cloud Storage and Microsoft Azure Blob.
- FlexApps on SMB now support cached mode, where a consistent network connection isn't required. The blocks for the VHD are cached down and read from the SMB share when needed.
- Pre-packaged Liquidware Cloud FlexApps are available for quicker prototyping with Proof of Concepts during the evaluation process.
- A single, bad FlexApp package won't stop other FlexApps from playing back into the OS.
- Block-level failover for FlexApps from cloud storage and SMB cached mode has been added. FlexApp supports a primary path and secondary path. FlexApp will use whichever path is the fastest as the primary path, and the slower path will be used as a failover.
- The FlexApp Packaging Console will automatically translate into German, French or Japanese based on your OS language settings.

## Minor Updates

### ***ProfileUnity Management Console***

- Secure Banner Text can now be enabled without requiring CAC Secure Mode.
- Hiding external links can now be enabled without requiring CAC Secure Mode.
- Support for changing the icon for a weblink in the Shortcut module was added.
- The following filter options now have a 3-letter search instead of a scrolling, drop-down list.
  - User Group Membership, User Primary Group, OU User, OU Computer
- Deployment paths in ADMINISTRATION > SETTINGS sections now support cloud paths like AWS, Google and Azure.

### ***Client***

- The File Association module can now correctly set HTM and HTML to another browser on Windows 10 1703+.

- The Profile Cleanup service is not deployed by default; you will have to edit LwL.ProfileUnity.Client.Startup.Update.exe.config.
- The Windows 8.1 legacy Start Menu is not deployed by default and is hidden.

### ***FlexApp***

- Click-to-Layer supports nonstandard characters like '®'.
- A flag was added to jicut.exe.config that makes opening the app after playback optional; default is on.
- Better support for persistent desktops was added.

## **Issues Resolved**

- **Management Console**
  - Fixed an issue where the Amazon S3 credential validation failed when tested, but the credentials were correct.
  - Fixed an issue where after an import of DIA, packages showed as zero and the UI was hung.
  - Fixed an issue where FlexApp DIA VMDK error message was displaying when Assign/Mount Weight/Mirror after upgrading from 6.5.x to 6.7.6.
  - Fixed an issue where AWS credential validation failed when tested on buckets outside US-East.
  - Fixed an issue with filters sorting alphanumerically.
  - Fixed an issue with FlexDisk Management - FlexApp DIA Mirror where reload grid was not working in the current disk mirror.
  - Fixed an issue with FlexDisk Management-Connections where error message was showing after providing vCenter credentials.
  - Fixed an issue with FlexDisk Management where error message was displaying in the 'Event Monitor' tab.
  - Fixed an issue with FlexDisk Management - FlexApp DIA where the sort option was not working for size column.
  - Fixed an issue with FlexDisk Management-Event Monitor where the Last Day filter was not working.
  - Fixed an issue where if the console pulled down 20,000+ groups, it would cause high CPU and lock up the web session.
  - Fixed an issue with filter dropdowns in module popups being case-sensitive.
- **Client**
  - Fixed an issue where ProfileDisk could cause users to logoff immediately with Citrix 7.16+.
  - Fixed an issue with the error “Unable to Perform Registry Cleanup”.
  - Fixed an issue where after deploying ADMX, any changes made to the configuration were not applied or saved.
  - Fixed an issue where Portability skipped all file rules if first entry didn't exist on disk.

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- Fixed an issue where MAPI profile creation failed when 'Create - Only if No Profile Exist' was used.
  - Fixed an issue where "Unable To Launch AlsoInit Process" error was thrown when logging into VMware View Published App farms or pools.
  - Fixed an issue where DIA Shortcut Cleanup crashed on Amazon WorkSpaces.
  - Fixed an issue where File Associations could cause shortcuts to not work correctly.
  - Fixed an issue where shortcut icon was not set when using multi-image ICO.
  - Fixed an issue with the Diagnostic Tool where HTML output from the report ended with a bunch of code.
  - Fixed an issue with ADMX where hexadecimal values were not processed correctly.
  - Fixed an issue where ProfileUnity as a Service did not run when enabled post ProfileUnity Client install.
  - Fixed an issue with Portability where manifest file checksums matched but Portability files were still restored.
  - Fixed an issue with Trigger Points where ICA Connect/Disconnect did not work on XenApp.
  - Fixed an issue with MAPI where create profile functions did not work with Office 2010 and 2013.
  - Fixed an issue with File Associations where the browser was not set as default after webpages had been associated.
  - Fixed an issue with Administrative Templates where modules did not follow defined filters.
  - Fixed an issue where Application Restrictions did not work when nomenclature existed like notepad++.exe.
  - Fixed an issue where Elevation did not work when nomenclature existed like notepad++.exe.
  - Fixed an issue where temp space issued with Windows 2016 RDS when naming for user/VHD has nomenclature like test-paba\_support.
  - Fixed an issue where Printer module tried to add printers redirected within other user sessions (RDSH/XenApp).
  - Fixed an issue where the File Associations module did not work correctly at least for certain file types.
  - Fixed an issue with Portability Settings where Exclude failed when using Custom, SystemDrive or UserProfile.
  - Fixed an issue with Startup.exe where removing Client from Add/Remove did not uninstall when Client was installed via MSI.
  - Fixed an issue with ProfileDisk where variables in VHD Creation Path were case sensitive.
  - Fixed an issue with ProfileDisk where profiles did not recover on persistent machines when disk was deleted.
  - Fixed an issue where ProfileDisk caused increased login time with Citrix 7.15+.
  - Fixed an issue with Startup where Userinit values were sometimes not modified correctly for XenDesktop.

- **FlexApp**
  - Fixed an issue where the FlexApp Packaging Console was unable to access the Management Console on port 443.
  - Fixed an issue where FlexApp post-playback with no applications open could be taking unneeded CPU in the range of 30% of each core.
  - Fixed an issue where FlexApps containing NTFS supported symbols did not playback.
  - Fixed an issue where a Click-to-Layer FlexApp package that had an XML file with issues caused all other FlexApp packages not to replay.
  - Fixed an issue where a missing FlexApp XML file caused other Click-to-Layer FlexApps to be mounted at login.
  - Fixed an issue where a FlexApp DIA package with VHD issues caused all packages to fail to replay.
  - Fixed an issue where DIA PDF printer did not show up on the desktop - PDF Xchange PRO 7.
  - Fixed an issue where PATH environment variable additions failed to add when multiple FlexApp packages were mounted.
  - Fixed an issue where Import Cloning Package did not update metadata or generate an ICO file.
  - Fixed an issue where Click-to-Layer shortcut was still displaying on the Client machine even when shortcut was deleted from "All user desktop" in the FlexApp Packaging Console.
  - Fixed an issue with the FlexApp Packaging Console where the Inventory name did not display correctly when using NTFS-supported symbols.
  - Fixed an issue where FlexApps containing NTFS-supported symbols did not mount (playback, edit).
  - Fixed an issue with editing where the package XML was not updated when a shortcut was modified.
  - Fixed an issue with FlexApp DIA Click-to-Layer where the package icon was not showing properly in the Start menu.
  - Fixed an issue with the package editor where deleting a shortcut left a phantom blank shortcut.
  - Fixed an issue where capture of Advanced IP Scanner and Advanced Port Scanner failed.
  - Fixed an issue with the FlexApp Packaging Console where admins were unable to edit the 6.5.x packages after upgrading to 6.7.6.
  - Fixed an issue with the Cap Editor where imported registry REG\_BINARY values could not be modified.
  - Fixed an issue with the Cap Editor where import of unknown value types failed.

**COMPONENT VERSIONS**

Component	6.8
Console UI	6.8.0.6886
FlexDisk Service	6.8.0.6886
Client	6.8.0.1061
Client.NET	6.8.0.6884
VirtFS	6.8.0.6884
LWL UserApp Player	6.8.0.1575
LWL UserApp Service	6.8.0.1575
LWL Elevation Service	6.8.0.1575
FPC	6.8.0.6885
FPC Player	6.8.0.1575
FPC VirtFS	6.8.0.6884
CSMonitor	6.8.0.6886

### Known Issues and Limitations

- **End-of-Life for ProfileUnity versions 4.x and 5.x:** Liquidware will be discontinuing all sales and technical support of ProfileUnity versions 4.x and 5.x effective 12/31/2017. We encourage all customers who may still be utilizing these versions to upgrade to a more recent version to take advantage of the numerous technology & feature enhancements as well as resolved support issues.
- **End-of-Life for ProfileUnity version 6.0.x:** Liquidware will be discontinuing all sales and technical support of ProfileUnity version 6.0.x effective 12/31/2018. We encourage all customers who may still be utilizing these versions to upgrade to a more recent version to take advantage of the numerous technology & feature enhancements as well as resolved support issues.
- Instant Clones may have problems running startup scripts which can result with an incorrect Userinit registry value. Please see this [KB](#) for some workarounds.
- Support has ended for Windows XP, Vista, Server 2003 and Server 2008 non-R2. You will need to use version 6.7.7 to support these older operating systems.
- Unable to change to temp directory error during login in certain use cases, contact support for a hotfix.
- JPG File Association does not work in Win10 1703+.
- Diagnostic Tool does not show correct number of CPUs.
- ProfileUnity and MongoDB Services Fail to Start After Reboot On Slower Storage. See this [KB](#) as a workaround.
- Administrative Templates - Importing settings from some ADMX's do not get applied.
- FlexApp – Manually adding Fonts Are Captured but Do Not Get Re-Added On Playback.
- Shortcut - Some Modern apps are not pinned on Windows 10.
- File Association is not working on Windows 10 when setting with Modern apps.
- Shortcut - Modern apps are not pinned on German environment (Windows 10 V1703).
- Audit Management - Changing No Filter To Filter shows internal filter ID, not friendly name.
- Office 2013 and Office 2016 are not supported when layering FlexApp packages to Windows Server 2008 R2 and 2012 R2; Windows Server 2016 is supported.
- Windows 10 LTSB 2015 is not supported.
- Windows 10 1511 is not supported.
- Office 2016 as a FlexApp package won't license on Windows 10 LTSB.
  - Workaround: Use Windows 10 Enterprise 1607
- When using 3<sup>rd</sup> party layering products, you must fully disable FlexApp.
- Migrating to ProfileDisk where Portability Compression is set to "Faster Archives" would cause any rulesets set to userprofile to restore outside ProfileDisk.
  - Workaround: From the Main Configuration Module, change Portability Compression to use "No Compression" or "Smaller Archives" before migrating.
- When using license path and INI path at the same time, you cannot exceed a total combined character count of 238 characters; 22 are taken by the product.
- Windows 7/8 32-bit are no longer supported by the ProfileUnity Management Console.
- The use of \* in Privilege Elevation is no longer supported. To resolve this for FlexApp UIA, you would put in the Path Contains '\\server\share\%username%' and '%userprofile%'. This will auto



approve anything trying to be installed from the user home share and profile path, for example Downloads, My Documents, Desktop.

- Files that have more than 260 characters are not processed by the portability engine.
- Applications packaged on Windows 7 and played back on Windows 8.1/10 is best effort. With all the changes made to Windows 8.1/10, application vendors have had to make many change to their applications to make them compatible with Windows 8.1/10, and we cannot ensure applications will run correctly. The same would apply in reverse; applications packaged on Windows 8.1/10 are best effort support when played back on Windows 7/10.
- Startup.exe will not run on 2008 R2 if .NET 3.5.1 is not enabled in features. LwL.ProfileUnity.Client.Startup.exe needs 3.5.1 to run.
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- If the customer has automatic root certificate updates disabled, ProfileUnity install may fail with data1.cab certificate error
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- Using Portability on all of Appdata Local can cause long logins for Windows 10.
- Windows 7 pinned Start Menu items don't migration to Windows 10 when using Portability.
- Windows 7 desktop background does not migrate to Windows 10 when using Portability.
- Installing ProfileUnity 6.5+ and Flex-IO on the same server is not supported.
- Windows 10 Edge history and cookies are not accepted by Windows.
  - Workaround: Use ProfileDisk VHD or VMDK.
- Migrating a Windows 7 ProfileDisk to Windows 10 will cause the Windows 10 Start Menu to lock up.
- Packaging application on Windows 10 with FlexApp requires all C++ runtimes are installed in the base OS of the FlexApp packaging console and the target desktop. On Windows 10 64-bit, you must install both x86 and x64 versions.
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    - i. <https://www.microsoft.com/en-us/download/details.aspx?id=5638>
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- i. <https://www.microsoft.com/en-us/download/details.aspx?id=13523>

## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

*v 6.7.7.6701, Released May 8<sup>th</sup>, 2018*

### Issues Resolved

- **Management Console**
  - Fixed an issue where the Amazon S3 credential validation failed when tested, but the credentials and permissions were correct.
  - Fixed an issue where the configuration file could not be published to Amazon S3.

## COMPONENT VERSIONS

Component	6.7.7
Console UI	6.7.7.6701
FlexDisk Service	6.7.6.6701
Client	6.7.6.904
Client.NET	6.7.6.6684
VirtFS	6.7.6.6683
LWL UserApp Player	6.7.6.1540
LWL UserApp Service	6.7.6.1540
LWL Elevation Service	6.7.6.1540
FPC	6.7.6.6683
FPC Player	6.7.6.1540
FPC VirtFS	6.7.6.6683
CSMonitor	6.7.6.6701

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- Cap Editor - Field right click context menu has line through it.
- Startup.exe - Removing Client from add/remove does not uninstall when Client was installed via MSI.
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## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

*v 6.7.6.6684, Released April 23<sup>RD</sup>, 2018*

### Major Updates

#### ***ProfileUnity Management Console***

- ProfileUnity now supports saving to Google Cloud Storage (GCS) for configuration files, license file and portability. This removes the need for file shares and is mainly designed for desktops or RDS servers running on Google Cloud Platform.
- ProfileUnity now supports saving to Azure Blob Storage for configuration files, license file and portability. This removes the need for file shares and is mainly designed for desktops or RDS servers running on Azure Cloud.

### Issues Resolved

- **Management Console**
  - Fixed an issue where the Amazon S3 credential validation failed when tested, but the credentials were correct.
  - Fixed an issue where after an import of DIA, packages showed as zero and the UI was hung.
  - Fixed an issue where FlexApp DIA VMDK- Error message is displaying when Assign/Mount Weight/Mirror after upgraded from 6.5.x to 6.7.6
- **Client**
  - Fixed an issue where ProfileDisk could cause users to logoff immediately with Citrix 7.16+.
  - Fixed an issue with the error “Unable to Perform Registry Cleanup”.
- **FlexApp**
  - Fixed an issue where the ProfileUnity Management Console was running on port 443. The FlexApp Packaging Console is unable to access the Management Console on port 443.
  - Fixed an issue where FlexApp post playback with no applications open could be taking unneeded CPU in the range of 30% of each core.

## COMPONENT VERSIONS

Component	6.7.6
Console UI	6.7.6.6684
FlexDisk Service	6.7.6.6684
Client	6.7.6.904
Client.NET	6.7.6.6684
VirtFS	6.7.6.6683
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## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

*v 6.7.5.6663, Released April 4<sup>TH</sup>, 2018*

### Major Updates

#### ***ProfileUnity Management Console***

- ProfileUnity now supports saving to Amazon S3 storage for configuration files, license file, portability and the client install. This removes the need for file shares and is mainly designed for Amazon Workspaces or RDS Servers running on Amazon EC2.

#### ***Client***

- Faster Logins
  - In slower Active directory environments where querying group membership during login has been slow, logins are now faster. We now use the Windows local token for what groups the user is part of. This applies to group check filters and ProfileDisk VHD group checks.
  - In environments where WMI is corrupt or slow, this can slow down the login. ProfileUnity repairs WMI on boot and starts the WMI service. As a result, WMI is running before the user login occurs. ProfileUnity also pre-loads WMI computer-based filters into RAM before the user logs in.
- Faster Logoffs
  - Microsoft Edge rule was optimized.
  - VHD unmounts are faster than 6.7.0. This applies to ProfileDisk and FlexApp.
- The File Associations module now supports default browser, PDF and other Windows defaults on Windows 10. The File Associations module also now supports RDSH where two users who are on the same OS at the same time can have different file associations.
- Pinning modern apps to Windows 10 tiles and the taskbar is now supported.
- Deleting modern apps from Windows 10 tiles and the taskbar is now supported.

#### ***FlexApp***

- Faster FlexApp
  - In some cases, FlexApp DIA playback can playback faster.
  - In some cases, FlexApp DIA Click-To-Layer shortcuts can be created faster.
- FlexApp DIA shortcuts that users copy to their personal Start Menu, desktop, Windows 10 tiles and taskbar are removed at login if the FlexApp DIA assignment is removed from the user.
- FlexApp DIA Click-to-Layer shortcuts that users copy to their Start Menu, desktop, Windows 10 tiles and taskbar are removed at login if the FlexApp DIA Click-to-Layer assignment is removed from the user.

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## Minor Updates

### *ProfileUnity Management Console*

- An ODBC portability rule is enabled by default in Templates.
- ProfileUnity Console Roles - "Users" cannot deploy a configuration where they cannot edit any of the configuration's modules.
- ProfileUnity Console Roles - When a "user" is part of a single role, the user is no longer able to create configurations.
- ProfileUnity Console Roles - A "user" can no longer delete a configuration that they can edit.
- ProfileUnity Console Roles – When a user account link to AD already exists and the same user is added to a Role, the system will now just link the user and not try to add them in as a user again.

### *Client*

- The ProfileUnity Client now requires Microsoft .NET Framework 4.6.2.
- LwL.ProfileUnity.Client.Startup.exe is written in .NET 3.5.1 and checks for the existence of .NET 4.6.2. If .NET 4.6.2 is not installed, startup.exe will install it.  
LwL.ProfileUnity.Client.Startup.Update.exe is run once .NET 4.6.2 is detected.

### *FlexDisk*

- ProfileUnity FlexDisk UI is faster to use.
- Mirroring can now take place while FlexDisks are in use.
- In the event of an outage, the FlexDisk database can get out of sync with what is active in vCenter. In the ProfileUnity FlexDisk UI, you can click reconcile to remove any out of sync entries from the database.
- FlexDisk Deletes and Disconnects now support multi-select.

## Issues Resolved

- **Management Console**
  - Disabled VSS for Application Data 3rd Party Apps in templates.
  - Fixed an issue with Administrative Templates - 'Same Key Exists' Error when trying to edit ADMX rule.
  - Fixed an issue with auto-deployment of nodes.xml without prompt for confirmation.
  - Fixed an issue with FlexDisk Management where "Delete selected" button was enabled for unselected data after reloading the grid.
  - Fixed an issue with Guided Configuration - Confirm Your Settings - Update Button had no response.
  - Fixed an issue with FlexDisk Management - connections - "Disconnect selected" button was enabled for unselected data after reloading the grid.
  - Fixed an issue with Administration - "Portability save path" and "INI deployment path" sections were not available.
  - Fixed an issue with Administration -Sort button was not working for Users and Roles (Account Type).

- Fixed an issue with Administration - Sort button was not working for Templates (Created) and Users and Roles (Last Logon).
- Fixed an issue with Shortcuts - "Delete All" option was saved for pinned items after reselecting from shell/web link type.
- Fixed an issue with FlexDisk Management - Sort button did not work on DIA, UDD, or Provision tabs.
- Fixed an issue where ProfileUnity users were able to deploy the configuration.
- Fixed an issue with Role Management - AD users were not mandatory while creating Roles.
- Fixed an issue with Role Management - ProfileUnity displayed the warning message as "Priority" instead of "Sequence" while clicking on save.
- Fixed an issue with Users - When new password was blank, after clicking on save button it was showing "Confirm password cannot be blank".
- Login with format <Domain>\<User> failed after initial login.
- Fixed issue with Users and Roles - Role Priority setting was reversed.
- Drive letter (Default value: A:) information was still displaying in "View in PDF/TXT & INI"
- Drive letter (Default value: A:) was showing in the grid after selecting "Disconnect All" in Drive Mapping.
- Drive letter was showing in the grid after selecting "Mount to path" in Mount location.
- Fixed an issue with Users and Roles - After enabling, certain users displayed 'Service Account Credential Need To Be Updated'.
- Configuration was deployed to default deployment path instead of "Deployment Path Override" location.
- Fixed an issue with Users and Roles - Existing user could not be added to multiple roles.
- Fixed an issue where ProfileUnity Console "Pause and enable" button reset page view.
- Security group name was not showing in the license file when deploying client tools from Administration page.
- Fixed an issue with Shortcuts - Importing only populated EXE path and was missing arguments.
- Fixed an issue with FlexDisk Management - Connection details were not listed in the Connections tab.
- Fixed an issue with FlexDisk Management - UDD Sort, Refresh and Record Buttons did not take effect until page reload.
- Fixed an issue with Search- ProfileUnity threw 'Failed To Load js: OK' error when clicking on Administration related result links (for ProfileUnity user's login).
- Fixed an issue with Virtual Disks - "Storage Type" was showing in the grid but not in the Create/Edit rule.
- Fixed an issue with Administration - By clicking on white space of Database without expanding it, it was displaying "Manage Database Connection" popup.
- Fixed an issue with Main - Portability Archive Retention - More numbers of folders were created than per given input numbers.
- Fixed an issue with Shortcuts - "Pinned Item Location" field was missing in the "View in PDF" and "View in Text".

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- Fixed an issue with Shortcuts - Pinned Item - "Process Action After Login" option was showing enable in edit window even it was disabled.
  - Fixed an issue with Shortcuts - Pinned Items - Target arguments were not showing in the grid for both Start Menu and Taskbar.
  - Fixed problem generating/deploying configuration INI after modifying the configuration itself.
  - Fixed an issue with Users and Roles - After enabling service account, GPO deployment failed.
- **Client**
    - Fixed an issue with Trigger Point - Completely failed in all the environments.
    - Fixed an issue with Portability – Client was unable to alternate between .7z and .Lou archives.
    - Portability only saved with smaller compression (7z).
    - Elevation XML hashes were wiped when new elevation entry added through module.
    - Fixed an issue with Diagnostic Tool - Side menu was missing from HTML report.
    - Shortcuts failed to create when folder did not exist.
    - Fixed an issue with Diagnostic Tool - Bundled 6.7.0 Version did not run; threw exception instead.
    - Fixed an issue with Shortcuts - Icons were not set when DLL index or .ICO was used.
    - Fixed an issue with Startup.exe - ProfileUnity As A Service password failed to update when upgrade ran in session.
    - Fixed an issue with CAC - ProfileDisk VHD unmount failed when user did not have read access.
    - Fixed issue displaying warning message & command prompt window while ProfileUnity splash was running.
    - Elevation continually opened lwl-chrome-monitor.exe when CID Chrome plugin was enabled.
    - ProfileDisk VHD was not working after Logoff & Login on Client machine.
  - **FlexApp**
    - Apps with Click-to-Layer were playing back with multiple users.
    - After logoff and login, System DIA Apps with Click-to-Layer were not playing back.
    - Normal Apps were not working on the client machine.
    - Applications were not playing back when configured with single app.
    - Fixed an issue with File Associations - File Associations were not working when FlexApp DIA and File Association were configured together.
    - VHD Apps were not playing back on second login.
    - DIA App caused logoff/shutdown to take 5+ minutes to complete.
    - Fixed an issue where configurations were unable to be deployed when Flexapp DIA was configured.
    - Normal Apps were missing for second user when config contained a mix of Click-to-Layer.
    - Pinned apps did not display app icon (Win10/2016).

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- 3 DIA apps caused VirtFsService.exe to cause kernel error and freeze the VM.
  - FlexApp DIA of applications that add to the %PATH% environment variable caused icon and system utility issues.
  - Error was thrown after several FlexApp DIA entries were created or edited.
  - Adobe Standard DIA caused default printer to go offline.
  - DIA Start Menu shortcuts were not always restored for subsequent users on RDSH 2016.
  - System DIA applications were not played back in the client machine.
  - Click-To-Run FlexApp DIAs caused other packages mounted at login to not appear to user.
  - Click-to-Layer Published App was only accessible on first session, VHD leftover (Citrix XenApp).
  - Fixed an issue with FlexApp Packaging Console - View a Package - Incorrect information was displaying in "Applications installed" when doing more than one reboot.
  - Fixed an issue with FlexApp Packaging Console where you were unable to extend the package after reboot on Windows 10.
  - Capture of Adobe XI Pro failed, hung at 'Launching the uninstallation process...!'
  - "Applications installed" information was not showing in "View a Package" details.
  - FlexApp Packaging Console capture of Workshare Compare failed - reboot was not detected and FPC failed to complete the capture.
  - FlexApp Packaging Console capture of RightFax failed to capture Printer Driver.
  - FlexApp Packaging Console capture of Morningstar Direct failed with 'Internal Server' error.
  - Cloning progress indicator duplicated when cloning.
  - 'Creating and mounting Child VHD' step took ~5 minutes to complete when cloning.
  - Fixed an issue with FlexApp Packaging Console - App icon was not saving or restoring correctly for the apps which required reboot.
  - Fixed an issue with FlexApp Packaging Console - Extend functionality failed while cloning the package.
  - Click-to-Layer Apps worked as a Normal App when both Normal & Click-to-Layer Apps were configured in the same INI.
  - Click-to-Layer Apps did not open when mixed with regular Apps.
  - Sage 2016 did not run on playback; only the splash screen was seen.
  - Sage 2016 install failed during capture on Windows 7 64-bit.
  - FlexApp login performance was slower than 6.5.10.
  - Non-admin users could not login when SQL MGMT studio was layered as a service.

## COMPONENT VERSIONS

Component	6.7.5
Console UI	6.7.5.6663
FlexDisk Service	6.7.5.6663
Client	6.7.5.893
Client.NET	6.7.5.6649
VirtFS	6.7.5.6628
LWL UserApp Player	6.7.5.1905
LWL UserApp Service	6.7.5.1905
LWL Elevation Service	6.7.5.1905
FPC	6.7.5.6663
FPC Player	6.7.5.1905
FPC VirtFS	6.7.5.6628
CSMonitor	6.7.5.6663

## Known Issues and Limitations

- **End-of-Life for ProfileUnity versions 4.x and 5.x:** Liquidware will be discontinuing all sales and technical support of ProfileUnity versions 4.x and 5.x effective 12/31/2017. We encourage all customers who may still be utilizing these versions to upgrade to a more recent version to take advantage of the numerous technology & feature enhancements as well as resolved support issues.
- File Associations for browser and shortcut module web link don't open correctly.
- JPG File Association does not work in Win10 1703+.
- MAPI profile creation fails when 'Create - Only if No Profile Exist' is used.
- Existing ProfileDisk group filters do not show when deploying a new config from template.
- ProfileDisk causes increased login time with Citrix 7.15+.
- Shortcut - Some Modern apps are not pinned on Windows 10.
- File Association is not working on Windows 10 when setting with Modern apps.
- Shortcut - Modern apps are not pinned on German environment (Windows 10 V1703).
- After deploying ProfileUnity ADMX, any changes made to configuration are not applied/saved.
- Audit Management - Changing No Filter To Filter shows internal filter ID, not friendly name.
- Cap Editor - Field right click context menu has line through it.



- Startup.exe - Removing Client from add/remove does not uninstall when Client was installed via MSI.
- Importing and Cloning FlexApp package does not update metadata, generate ICO.
- Cap Editor - Imported registry REG\_BINARY values cannot be modified.
- Cap Editor - Import of unknown value types fail.
- Office 2013 and Office 2016 are not supported when layering FlexApp packages to Windows Server 2008 R2 and 2012 R2; Windows Server 2016 is supported.
- Windows 10 LTSB 2015 is not supported.
- Windows 10 1511 is not supported.
- Office 2016 as a FlexApp package won't license on Windows 10 LTSB.
  - Workaround: Use Windows 10 Enterprise 1607
- When using 3<sup>rd</sup> party layering products, you must fully disable FlexApp.
- Migrating to ProfileDisk where Portability Compression is set to "Faster Archives" would cause any rulesets set to userprofile to restore outside ProfileDisk.
  - Workaround: From the Main Configuration Module, change Portability Compression to use "No Compression" or "Smaller Archives" before migrating.
- When using license path and INI path at the same time, you cannot exceed a total combined character count of 238 characters; 22 are taken by the product.
- Windows 7/8 32-bit are no longer supported by the ProfileUnity Management Console.
- The use of \* in Privilege Elevation is no longer supported. To resolve this for FlexApp UIA, you would put in the Path Contains '\\server\share\%username%' and '%userprofile%'. This will auto approve anything trying to be installed from the user home share and profile path, for example Downloads, My Documents, Desktop.
- Files that have more than 260 characters are not processed by the portability engine.
- Applications packaged on Windows 7 and played back on Windows 8.1/10 is best effort. With all the changes made to Windows 8.1/10, application vendors have had to make many change to their applications to make them compatible with Windows 8.1/10, and we cannot ensure applications will run correctly. The same would apply in reverse; applications packaged on Windows 8.1/10 are best effort support when played back on Windows 7/10.
- Startup.exe will not run on 2008 R2 if .NET 3.5.1 is not enabled in features. LwL.ProfileUnity.Client.Startup.exe needs 3.5.1 to run.
  - **Notes:** On Windows 2008 R2 .NET 3.5.1 is NOT enabled out of the box. To enable it before running startup.exe, run this command from an elevated command prompt 'serverManagerCmd.exe -install Net-Framework', reboot, run Windows Updates, reboot then re-run startup.exe.
- If the customer has automatic root certificate updates disabled, ProfileUnity install may fail with data1.cab certificate error
  - **Notes:** FED and some commercial accounts following federal STIG guidelines could have automatic root certificate updates disabled causing them to not have the latest root cert our installer code was compiled with the latest root certificates.
  - **KB Article:** [ProfileUnity Install May Fail If Automatic Root Certificate Updates Disabled - Data1.Cab Certificate Error](#)
- Using folder redirection on all of Appdata Local can cause the Windows 10 Start Menu to not work correctly.
- Using Portability on all of Appdata Local can cause long logins for Windows 10.
- Windows 7 pinned Start Menu items don't migration to Windows 10 when using Portability.
- Windows 7 desktop background does not migrate to Windows 10 when using Portability.

- Installing ProfileUnity 6.5+ and Flex-IO on the same server is not supported.
- Windows 10 Edge history and cookies are not accepted by Windows.
  - Workaround: Use ProfileDisk VHD or VMDK.
- Migrating a Windows 7 ProfileDisk to Windows 10 will cause the Windows 10 Start Menu to lock up.
- Packaging application on Windows 10 with FlexApp requires all C++ runtimes are installed in the base OS of the FlexApp packaging console and the target desktop. On Windows 10 64-bit, you must install both x86 and x64 versions.
  - 2005 SP1 Redistributable Package (x86)
    - i. <https://www.microsoft.com/en-us/download/details.aspx?id=5638>
  - 2005 SP1 Redistributable Package (x64)
    - i. <https://www.microsoft.com/en-us/download/details.aspx?id=18471>
  - 2008 SP1 Redistributable Package (x86)
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  - 2008 SP1 Redistributable Package (x64)
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  - 2010 SP1 Redistributable Package (x86)
    - i. <https://www.microsoft.com/en-us/download/details.aspx?id=8328>
  - 2010 SP1 Redistributable Package (x64)
    - i. <https://www.microsoft.com/en-us/download/details.aspx?id=13523>

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## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

*v 6.7.0.6422, Released August 1st, 2017*

### Major Updates

#### ***ProfileUnity Management Console***

- User Role Management – Within the Administration section of the ProfileUnity Management Console, you can build user roles where only certain configurations or individual modules can be updated by certain administrators.
- Audit Log – Within the Administration section of the management console, you can see what changes other administrators made; i.e., date and timestamp, user name, type of record (e.g., login, filter, configuration module), details of the change showing both old and new values.
- Full CAC Card Support for the ProfileUnity Management Console – You can now enable full CAC support when logging into the ProfileUnity Management Console versus having to enter in an Active Directory user account and password.
- The ProfileUnity Template wizard has a Template built for Windows 7, 10 and 2016 as a Desktop or 2016 RDS host where you can have a single OS listed or coexistence between them all.
- The ProfileUnity Template wizard has a Template built for enabling Outlook indexing for VDI and Outlook indexing for RDS hosts.
- The ProfileUnity Template wizard has a ProfileDisk Template built for Windows 7, 10 and 2016 as a Desktop or 2016 RDS host.

#### ***Client***

- ProfileDisk for RDSH – ProfileDisk now works for Remote Desktop Session Host. A VHD, which stores the entire Profile, is attached for each user at login.
- Post-login Trigger – A trigger can now be set for a configuration or module to run after login.
- The following modules have been re-written with logging - Desktop Start Menu, INI Files, Internet Explorer, Internet Proxy Setting, MAPI Profiles, Message Boxes, Office File Locations, Office Options, Path, Outlook, RDP Client, Time Sync, and Windows Options.

#### ***FlexApp***

- FlexApp DIA VHD Session-based Layering – On a Multi-user system, FlexApp packages are viewed per user session, enabling users to have access to only their applications rather than all applications on the same RDS host.
- Click-to-Layer FlexApp VHD DIA – Click-to-Layer delays mounting applications until they are requested by a user. Application shortcuts are deployed to users' desktops. When the shortcut is clicked to open the application, the layer then mounts and activates. This helps to reduce the amount of time it takes for all the application layers to activate in the system. This technology works for normal VDI desktops, RDS published desktops and published applications.
- FlexApp Package Dependencies – The FlexApp Packaging Console now allows for packages to be declared as dependent on other packages, controlling the order in which applications playback.

For example, if you had two apps, A and B, and you wanted to make sure the user did not open app B before app A was played back, you could make them dependent on each other.

- FlexApp Packaging Console Reboot Handling – At any time during the packaging process, you or the application can just start a reboot. The FlexApp Packaging Console will detect this event, pause the packaging process, and resume the process after the reboot completes.

### ***FlexDisk***

- FlexDisk is now 64-bit – the FlexDisk code base has been upgraded to 64-bit.
- FlexDisk User Data Disks are assigned as one VMDK per user instead of based on snap shots.
- vSphere 6.5 Support has been added to FlexDisk.
- Computer-Level Assignments – FlexDisk can now assign FlexApp packages to the naming pattern of your Desktop pool.

## Minor Updates

### ***ProfileUnity Management Console***

- FlexApp UIA persistent disk option was removed.
- “Process Action After Login” option was added to the Shortcuts module.
- When the message queue connection string is updated in the Administration section of the ProfileUnity Management Console, the FlexDisk message queue connection string is updated as well.
- The FlexApp UIA “Reverse Play” option was removed.
- The Drive Mapping module now executes before the Portability Settings module.
- Added Support for disabling TLS 1.0 on Windows.
- Added Support for disabling SHA-1 on Windows.
- ProfileUnity Management Console paging list now has 50 and 100 as options.
- The management console under Inventory Management > FlexApp DIA can now import FlexApp DIAs.
- The Printers module now runs before the Portability Settings module.
- ProfileUnity Console IP address and FQDN is stamped into the header of the INI file generated.
- Each configuration can have its own deployment path.
- ProfileUnity Console Administration section settings are now persistent to clustered consoles.

### ***Client***

- Module Updates
  - INI Files - Added option for post-login processing
  - Internet Explorer -Added support for Microsoft Edge
  - Internet Proxy Setting - Added support for Microsoft Edge
  - Message Boxes - Added support for post-login
  - Office File Locations - Updated for Office 2013/2016
  - Office Options - Updated for Office 2013/2016
  - Path support for system path
  - Outlook -Updated for Office 2013/2016

- Shortcuts
  - Added support for Windows 10 Start Menu pinned items
  - Added post-login option
  - Added support for user pinned items and administrator pinned items to Coexistence on the start menu and task bar.
- All post-login activity is done right when ProfileUnity finishes running and no longer uses RunOnce.
- LwL.ProfileUnity.Client.Logoff.exe.config has an option for restart desktop after logoff.
- Added support for disabling SHA-1 on Windows.
- ProfileUnity printer handling will no longer disturb Citrix client-connected printers.
- Louzip can now convert .lbr into .reg file.
- LwL.ProfileUnity.Client.Startup.exe will only install the VHD driver on Windows 7 or Server 2008 R2.
- When using “ProfileDisk VHD CAC support” GPO feature, the ProfileUnity as a Service account will be used to dismount the VHD on logoff.
- By default, ProfileUnity approved processes for elevation are code signed by Liquidware Labs and the SHA-256 hash of ProfileUnity’s main processes.
- Added support for Windows 10 pinned to title.

### ***FlexApp***

- On logoff of users don't reverse play ProfileUnity as a Service DIAs.
- Support for FIPS was added.
- Updated disk label of FlexApp DIA VHD to follow the same format as FlexApp DIA VMDK disk label.
- Added support for disabling SHA-1 on Windows.
- FlexApp Packaging Console has compression off by default.

### ***FlexDisk***

- Added support for disabling SHA-1 on Windows.

## **Issues Resolved**

- Fixed an issue where a FlexApp of Adobe Pro would stop a user from connecting to network printers.
- European date format caused Application Launcher issue.
- False warning was given when filter was unassigned from all configurations.
- Administrative Template module was not generating proper INI settings.
- Fixed an issue with FlexDisk UI performance.
- Fixed an issue with long disk attach times when using FlexDisk.

## COMPONENT VERSIONS

Component	6.7.0
Console UI	6.7.0.6422
FlexDisk Service	6.7.0.6422
Client	6.7.770
Client.NET	6.7.06411
VirtFS	6.7.0.6417
LWL UserApp Player	6.7.21127
LWL UserApp Service	6.7.21127
LWL Elevation Service	6.7.21127
FPC	6.7.0.6417
FPC Player	6.7.21127
FPC VirtFS	6.7.0.6417
CSMonitor	6.5.6240

## Known Issues and Limitations

- **End-of-Life for ProfileUnity versions 4.x and 5.x:** Liquidware will be discontinuing all sales and technical support of ProfileUnity versions 4.x and 5.x effective 12/31/2017. We encourage all customers who may still be utilizing these versions to upgrade to a more recent version to take advantage of the numerous technology & feature enhancements as well as resolved support issues.
- Office 2013 and Office 2016 are not supported when layering FlexApp packages to Windows Server 2008 R2 and 2012 R2; Windows Server 2016 is supported.
- Windows 10 LTSB 2015 is not supported.
- Windows 10 Enterprise 1507 is not supported.
- Office 2016 as a FlexApp package won't license on Windows 10 LTSB.
  - Workaround: Use Windows 10 Enterprise 1607
- When using 3<sup>rd</sup> party layering products, you must fully disable FlexApp.
- Migrating to ProfileDisk where Portability Compression is set to "Faster Archives" would cause any rulesets set to userprofile to restore outside ProfileDisk.
  - Workaround: From the Main Configuration Module, change Portability Compression to use "No Compression" or "Smaller Archives" before migrating.

- When using license path and INI path at the same time, you cannot exceed a total combined character count of 238 characters; 22 are taken by the product.
- Windows 7/8 32-bit are no longer supported by the ProfileUnity Management Console.
- The use of \* in Privilege Elevation is no longer supported. To resolve this for FlexApp UIA, you would put in the Path Contains '\\server\share\%username%' and '%userprofile%'. This will auto approve anything trying to be installed from the user home share and profile path, for example Downloads, My Documents, Desktop.
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- Applications packaged on Windows 7 and played back on Windows 8.1/10 is best effort. With all the changes made to Windows 8.1/10, application vendors have had to make many change to their applications to make them compatible with Windows 8.1/10, and we cannot ensure applications will run correctly. The same would apply in reverse; applications packaged on Windows 8.1/10 are best effort support when played back on Windows 7/10.
- Startup.exe will not run on 2008 R2 if .NET 3.5.1 is not enabled in features.  
LwL.ProfileUnity.Client.Startup. needs 3.5.1 to run.
  - **Notes:** On Windows 2008 R2 .NET 3.5.1 is NOT enabled out of the box. To enable it before running startup.exe, run this command from an elevated command prompt 'serverManagerCmd.exe -install Net-Framework', reboot, run Windows Updates, reboot then re-run startup.exe.
- If the customer has automatic root certificate updates disabled, ProfileUnity install may fail with data1.cab certificate error
  - **Notes:** FED and some commercial accounts following federal STIG guidelines could have automatic root certificate updates disabled causing them to not have the latest root cert our installer code was compiled with the latest root certificates.
  - **KB Article:** [ProfileUnity Install May Fail If Automatic Root Certificate Updates Disabled - Data1.Cab Certificate Error](#)
- Using folder redirection on all of Appdata Local can cause the Windows 10 Start Menu to not work correctly.
- Using Portability on all of Appdata Local can cause long logins for Windows 10.
- Windows 7 pinned Start Menu items don't migrate to Windows 10 when using Portability.
- Windows 7 desktop background does not migrate to Windows 10 when using Portability.
- Installing ProfileUnity 6.5+ and Flex-IO on the same server is not supported.
- Windows 10 Edge history and cookies are not accepted by Windows.
  - Workaround: Use ProfileDisk VHD or VMDK.
- Migrating a Windows 7 ProfileDisk to Windows 10 will cause the Windows 10 Start Menu to lock up.
- Packaging application on Windows 10 with FlexApp requires all C++ runtimes are installed in the base OS of the FlexApp packaging console and the target desktop. On Windows 10 64-bit, you must install both x86 and x64 versions.
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    - i. <https://www.microsoft.com/en-us/download/details.aspx?id=18471>
  - 2008 SP1 Redistributable Package (x86)
    - i. <https://www.microsoft.com/en-us/download/details.aspx?id=5582>
  - 2008 SP1 Redistributable Package (x64)

- i. <https://www.microsoft.com/en-us/download/details.aspx?id=2092>
- 2010 SP1 Redistributable Package (x86)
  - i. <https://www.microsoft.com/en-us/download/details.aspx?id=8328>
- 2010 SP1 Redistributable Package (x64)
  - i. <https://www.microsoft.com/en-us/download/details.aspx?id=13523>



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## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

*v 6.5.10.6310, Released April 12<sup>th</sup>, 2017*

### **Critical Alert Issue Identified**

Liquidware Labs has found a major change in how vSphere 6.5 handles encrypted communication for VMDK management.

Currently if you upgrade your vSphere environment to 6.5, you will not be able to create any new ProfileDisks or FlexApp packages that are based on VMDKs that FlexDisk leverages. At this time, there is NO workaround except for rolling back to an older version of vSphere. This problem is affecting all 3<sup>rd</sup> party ecosystem products that manage VMDKs including backup software. Liquidware Labs will support this new method of encrypted communication for VMDK management due out the end of Q2.

For any questions please feel free to contact our Support Team, via [support@liquidwarelabs.com](mailto:support@liquidwarelabs.com).

### **Issues Resolved**

- FlexApp caused long logoff times.
- FlexDisk failed to attach ProfileDisk and FlexApps with VMware Instant Clones.
- FlexDisk failed to look up users in AD in some environments.
- Profile Cleanup did not work consistently.
- Cross domain VHD ProfileDisk did not attach after upgrade to 6.5.9.
- Logoff.exe hung when Windows could not contact an online certificate revocation list.
- Client upgrades failed when ProfileUnity Client files were locked.
- Startup.exe will now only preinstall VHD driver on Windows 2008 R2 or Windows 7.

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**COMPONENT VERSIONS**

Component	6.5.10
Console UI	6.5.10.6310
FlexDisk Service	6.5.6297
Client	6.5.706
Client.NET	6.5.10.6292
VirtFS	2.1.6219
LWL UserApp Player	1.1.7310
LWL UserApp Service	1.1.7310
LWL Elevation Service	1.1.7310
FPC	6.5.10.6295
FPC Player	1.1.7310
FPC VirtFS	2.1.6219
CSMonitor	6.5.6295

### Known Issues and Limitations

- vSphere 6.5 is not supported for FlexDisk. This will be supported in the next major release.
- Office 2013 and Office 2016 are not supported when layering to 2008 R2 and 2012 R2; Server 2016 is supported.
- Windows 10 LTSB 2015 is not supported.
- Windows 10 Enterprise 1507 is not supported.
- Office 2016 as a FlexApp won't license on Windows 10 LTSB.
  - Workaround: Use Windows 10 Enterprise.
- Using the ProfileUnity shortcut module won't pin items to the taskbar on Windows 10.
  - Workaround: None, this will be addressed in the next major release.
- Logoffs are extended if you have FlexApp DIA in more than one INI being processed by a client.
- When using 3<sup>rd</sup> party layering products, you must fully disable FlexApp.
- Migrating to ProfileDisk where Portability Compression is set to "Faster Archives" would cause any rulesets set to userprofile to restore outside ProfileDisk.
  - Workaround: From the Main Configuration Module, change Portability Compression to use "No Compression" or "Smaller Archives" before migrating.

- When using license path and INI path at the same time, you cannot exceed a total combined character count of 238 characters; 22 are taken by the product.
- Windows 7/8 32-bit are no longer supported by the ProfileUnity Management Console.
- Non-English APAC Windows 7 and Windows XP is not supported; you must use ProfileUnity 5.0 with double-byte character support.
- The use of \* in Privilege Elevation is no longer supported. To resolve this for FlexApp UIA, you would put in the Path Contains '\\server\share\%username%' and '%userprofile%'. This will auto approve anything trying to be installed from the user home share and profile path, for example Downloads, My Documents, Desktop.
- Files that have more than 260 characters are not processed by the portability engine.
- Applications packaged on Windows 7 and played back on Windows 8.1/10 is best effort. With all the changes made to Windows 8.1/10, application vendors have had to make many change to their applications to make them compatible with Windows 8.1/10, and we cannot ensure applications will run correctly. The same would apply in reverse; applications packaged on Windows 8.1/10 are best effort support when played back on Windows 7/10.
- Dell vWorkSpace support has been removed, please contact Dell vWorkSpace Support for the correct version of vWorkSpace that supports ProfileUnity.
- Startup.exe will not run on 2008 R2 if .NET 3.5.1 is not enabled in features.  
LwL.ProfileUnity.Client.Startup. needs 3.5.1 to run.
  - **Notes:** On Windows 2008 R2 .NET 3.5.1 is NOT enabled out of the box. To enable it before running startup.exe, run this command from an elevated command prompt 'serverManagerCmd.exe -install Net-Framework', reboot, run Windows Updates, reboot then re-run startup.exe.
- If the customer has automatic root certificate updates disabled, ProfileUnity install may fail with data1.cab certificate error
  - **Notes:** FED and some commercial accounts following federal STIG guidelines could have automatic root certificate updates disabled causing them to not have the latest root cert our installer code was compiled with the latest root certificates.
  - **KB Article:** [ProfileUnity Install May Fail If Automatic Root Certificate Updates Disabled - Data1.Cab Certificate Error](#)
- Using folder redirection on all of Appdata Local can cause the Windows 10 Start Menu to not work correctly.
- Using Portability on all of Appdata Local can cause long logins for Windows 10.
- The desktop background does not restore from one Windows 10 persistent desktop to another on Windows 10 persistent desktop.
- Windows 10 accent colors do not restore when using Portability.
- Windows 7 pinned Start Menu items don't migration to Windows 10 when using Portability.
- Windows 7 desktop background does not migrate to Windows 10 when using Portability.
- Installing ProfileUnity 6.5+ and Flex-IO on the same server is not supported.
- Windows 10 Edge history and cookies are not accepted by Windows.
  - Workaround: Use ProfileDisk VHD or VMDK.
- Migrating a Windows 7 ProfileDisk to Windows 10 will cause the Windows 10 Start Menu to lock up.
- Packaging application on Windows 10 with FlexApp requires all C++ runtimes are installed in the base OS of the FlexApp packaging console and the target desktop. On Windows 10 64-bit, you must install both x86 and x64 versions.
  - 2005 SP1 Redistributable Package (x86)

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- 2008 SP1 Redistributable Package (x64)
  - i. <https://www.microsoft.com/en-us/download/details.aspx?id=2092>
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  - i. <https://www.microsoft.com/en-us/download/details.aspx?id=8328>
- 2010 SP1 Redistributable Package (x64)
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## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

*v 6.5.9.6236, Released February 1<sup>st</sup>, 2017*

### Critical Alert Issue Identified

Liquidware Labs has found a major change in how vSphere 6.5 handles encrypted communication for VMDK management.

Currently if you upgrade your vSphere environment to 6.5, you will not be able to create any new ProfileDisks or FlexApp packages that are based on VMDKs that FlexDisk leverages. At this time, there is NO workaround except for rolling back to an older version of vSphere. This problem is affecting all 3<sup>rd</sup> party ecosystem products that manage VMDKs including backup software. Liquidware Labs will support this new method of encrypted communication for VMDK management due out in the first part of Q2.

For any questions please feel free to contact our Support Team, via [support@liquidwarelabs.com](mailto:support@liquidwarelabs.com).

### What's New in ProfileUnity 6.5.9?

- Client - CAC support for ProfileDisk VHD and ProfileDisk VMDK
  - When using ProfileDisk VHD (without CAC) we do NOT need machine level permissions on the file share like other vendors. The reason we don't need machine level permissions is because we impersonate the user logging in when connecting to a file share. However, we can NOT impersonate a CAC user for security reasons. So, instead of requiring machine level permissions on a file share for CAC support, we leverage ProfileUnity as a Service user name and password. When you deploy ProfileDisk VHD and set our registry key from group policy to enable impersonation of ProfileUnity as a Service user, we will impersonate the ProfileUnity as a Service user (using user name and password set on the service, not reading the creds file on the network share). This also means the minimum requirement for ProfileDisk VHD with CAC, will be to have the ProfileUnity as a Service account full control on the file share and ACL. When it comes to ProfileDisk VMDK and CAC nothing needs be done but run this version of ProfileUnity.

### Issues Resolved

- Console - Login failed when user had simple password.
- FlexDisk - CSmonitor used excessive memory if unable to find corresponding sessions.
- Client - Post login default printer was not being set correctly in Windows 10.
- Client - Startup - Upgrades failed on systems using system level DIA.
- Client - Startup - Userinit values were not modified correctly when KACE was in place.
- Client - Windows 7 persistent computer startup "Please Wait" sat 90 seconds due to command service crash and errors.

- Client - Elevation logs in user profile path broke Profile Cleanup if elevation rules were configured.

### COMPONENT VERSIONS

Component	6.5.9
Console UI	6.5.9.6236
FlexDisk Service	6.5.6236
Client	6.5.704
Client.NET	6.5.9.6225
VirtFS	2.1.6219
LWL UserApp Player	1.1.7310
LWL UserApp Service	1.1.7310
LWL Elevation Service	1.1.7310
FPC	6.5.9.6221
FPC Player	1.1.6912
FPC VirtFS	2.1.6093
CSMonitor	6.5.6192

### Known Issues and Limitations

- vSphere 6.5 is not supported for FlexDisk. This will be supported in the next major release.
- Office 2013 and Office 2016 are not supported when layering to 2008 R2 and 2012 R2; Server 2016 is supported.
- When using 3<sup>rd</sup> party layering products, you must fully disable FlexApp.
- Migrating to ProfileDisk where Portability Compression is set to “Faster Archives” would cause any rulesets set to userprofile to restore outside ProfileDisk.
  - Workaround: From the Main Configuration Module, change Portability Compression to use “No Compression” or “Smaller Archives” before migrating.
- When using license path and INI path at the same time, you cannot exceed a total combined character count of 238 characters; 22 are taken by the product.
- Windows 7/8 32-bit are no longer supported by the ProfileUnity Management Console.
- Non-English APAC Windows 7 and Windows XP is not supported; you must use ProfileUnity 5.0 with double-byte character support.
- The use of \* in Privilege Elevation is no longer supported. To resolve this for FlexApp UIA, you would put in the Path Contains ‘\\server\share\%username%’ and ‘%userprofile%’. This will auto approve anything trying to be installed from the user home share and profile path, for example Downloads, My Documents, Desktop.
- Files that have more than 260 characters are not processed by the portability engine.
- Applications packaged on Windows 7 and played back on Windows 8.1/10 is best effort. With all the changes made to Windows 8.1/10, application vendors have had to make many change to their applications to make them compatible with Windows 8.1/10, and we cannot ensure applications will run correctly. The same would apply in reverse; applications packaged on Windows 8.1/10 are best effort support when played back on Windows 7/10.
- Dell vWorkSpace support has been removed, please contact Dell vWorkSpace Support for the correct version of vWorkSpace that supports ProfileUnity.
- Startup.exe will not run on 2008 R2 if .NET 3.5.1 is not enabled in features.  
LwL.ProfileUnity.Client.Startup. needs 3.5.1 to run.
  - **Notes:** On Windows 2008 R2 .NET 3.5.1 is NOT enabled out of the box. To enable it before running startup.exe, run this command from an elevated command prompt ‘serverManagerCmd.exe -install Net-Framework’, reboot, run Windows Updates, reboot then re-run startup.exe.
- If the customer has automatic root certificate updates disabled, ProfileUnity install may fail with data1.cab certificate error
  - **Notes:** FED and some commercial accounts following federal STIG guidelines could have automatic root certificate updates disabled causing them to not have the latest root cert our installer code was compiled with the latest root certificates.
  - **KB Article:** [ProfileUnity Install May Fail If Automatic Root Certificate Updates Disabled - Data1.Cab Certificate Error](#)
- Using folder redirection on all of Appdata Local can cause the Windows 10 Start Menu to not work correctly.
- Using Portability on all of Appdata Local can cause long logins for Windows 10.
- The desktop background does not restore from one Windows 10 persistent desktop to another on Windows 10 persistent desktop.
- Windows 10 accent colors do not restore when using Portability.
- Windows 7 pinned Start Menu items don’t migration to Windows 10 when using Portability.
- Windows 7 desktop background does not migrate to Windows 10 when using Portability.

- Installing ProfileUnity 6.5+ and Flex-IO on the same server is not supported.
- Windows 10 Edge history and cookies are not accepted by Windows.
  - Workaround: Use ProfileDisk VHD or VMDK.
- Migrating a Windows 7 ProfileDisk to Windows 10 will cause the Windows 10 Start Menu to lock up.
- Packaging application on Windows 10 with FlexApp requires all C++ runtimes are installed in the base OS of the FlexApp packaging console and the target desktop. On Windows 10 64-bit, you must install both x86 and x64 versions.
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    - i. <https://www.microsoft.com/en-us/download/details.aspx?id=8328>
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## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

*v 6.5.8.6159, Released December 6<sup>th</sup>, 2016*

### What's New in ProfileUnity 6.5.8?

- Console and Client- Volume Shadow Copy is now an option for portability backup.
- Console - Windows 10 Templates now include portability for Microsoft Edge Support.
- Console - Windows 10 templates now use VSS to save portability the Windows 10 start menu.
- Console - Install support for Server 2016.
- Console - ProfileDisk Support for 2016 as a Desktop.
- Console and Client - Server 2016 filter has been added.
- Client - Support for 2016 as a Desktop and as RDS Server.
- FlexApp - Support for 2016 Desktop and as RDS Server.

### Issues Resolved

- FlexApp DIA - FlexDisk - Package Creation failed for FlexDisk package type in 2012 R2.
- FlexApp DIA - FlexDisk - Could not clone in use VMDK FlexApp.
- Console - FlexDisk - Task Manager - Cancel Option was not working.
- Console - Upgrades - Drive Mapping - Importing 5.x son displayed drive letter as numbers in 6.5.
- Console - ADML & GPO details were missing in "View in PDF" & "View in Text".
- Console - FlexDisk - searching for a VM for VMDK connect and disconnect with Virtual Center MoRef, DNS name and Bios UUID were unreliable in some cases, display name is now used.

**COMPONENT VERSIONS**

Component	6.5.8
Console UI	6.5.8.6159
FlexDisk Service	6.5.6159
Client	6.5.697
Client.NET	6.5.8.6151
VirtFS	2.1.6093
LWL UserApp Player	1.1.6912
LWL UserApp Service	1.1.6912
LWL Elevation Service	1.1.6912
FPC	6.5.8.6159
FPC Player	1.1.6912
FPC VirtFS	2.1.6093
CSmonitor	6.5.6143

## Known Issues and Limitations

- Office 2013 and Office 2016 are not supported when layering to 2008 R2 and 2012 R2; Server 2016 is supported.
- When using 3<sup>rd</sup> party layering products, you must fully disable FlexApp.
- Migrating to ProfileDisk where Portability Compression is set to “Faster Archives” would cause any rulesets set to userprofile to restore outside ProfileDisk.
  - Workaround: From the Main Configuration Module, change Portability Compression to use “No Compression” or “Smaller Archives” before migrating.
- When using license path and INI path at the same time, you cannot exceed a total combined character count of 238 characters; 22 are taken by the product.
- Windows 7/8 32-bit are no longer supported by the ProfileUnity Management Console.
- Non-English APAC Windows 7 and Windows XP is not supported; you must use ProfileUnity 5.0 with double-byte character support.
- The use of \* in Privilege Elevation is no longer supported. To resolve this for FlexApp UIA, you would put in the Path Contains ‘\\server\share\%username%’ and ‘%userprofile%’. This will auto approve anything trying to be installed from the user home share and profile path, for example Downloads, My Documents, Desktop.
- Files that have more than 260 characters are not processed by the portability engine.
- Applications packaged on Windows 7 and played back on Windows 8.1/10 is best effort. With all the changes made to Windows 8.1/10, application vendors have had to make many change to their applications to make them compatible with Windows 8.1/10, and we cannot ensure applications will run correctly. The same would apply in reverse; applications packaged on Windows 8.1/10 are best effort support when played back on Windows 7/10.
- Dell vWorkspace support has been removed, please contact Dell vWorkSpace Support for the correct version of vWorkSpace that supports ProfileUnity.
- Startup.exe will not run on 2008 R2 if .NET 3.5.1 is not enabled in features.  
LwL.ProfileUnity.Client.Startup. needs 3.5.1 to run.
  - **Notes:** On Windows 2008 R2 .NET 3.5.1 is NOT enabled out of the box. To enable it before running startup.exe, run this command from an elevated command prompt ‘serverManagerCmd.exe -install Net-Framework’, reboot, run Windows Updates, reboot then re-run startup.exe.
- If the customer has automatic root certificate updates disabled, ProfileUnity install may fail with data1.cab certificate error
  - **Notes:** FED and some commercial accounts following federal STIG guidelines could have automatic root certificate updates disabled causing them to not have the latest root cert our installer code was compiled with the latest root certificates.
  - **KB Article:** [ProfileUnity Install May Fail If Automatic Root Certificate Updates Disabled - Data1.Cab Certificate Error](#)
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- Using Portability on all of Appdata Local can cause long logins for Windows 10.
- The desktop background does not restore from one Windows 10 persistent desktop to another on Windows 10 persistent desktop.
- Windows 10 accent colors do not restore when using Portability.
- Windows 7 pinned Start Menu items don’t migration to Windows 10 when using Portability.
- Windows 7 desktop background does not migrate to Windows 10 when using Portability.
- Installing ProfileUnity 6.5+ and Flex-IO on the same server is not supported.

- Windows 10 Edge history and cookies are not accepted by Windows.
  - Workaround: Use ProfileDisk VHD or VMDK.
- Migrating a Windows 7 ProfileDisk to Windows 10 will cause the Windows 10 Start Menu to lock up.
- Packaging application on Windows 10 with FlexApp requires all C++ runtimes are installed in the base OS of the FlexApp packaging console and the target desktop. On Windows 10 64-bit, you must install both x86 and x64 versions.
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## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

*v 6.5.6116, Released October 12<sup>th</sup>, 2016*

### What's New in ProfileUnity 6.5.7?

- FlexApp of Office 365 2016 Support has been added. A new Knowledge base article has been created.
  - **KB Article:** [How To DIA Office 365 Professional Plus](#)
- FlexApp of Office Products have been streamlined. Please see our new Knowledge base articles have for more information.
  - **KB Article:** [How do I create a DIA package with Office, Visio and Project \(2013 or 2016\) on Windows 10 in a single layer](#)
  - **KB Article:** [How do I create a DIA package with Office, Visio and Project 2010 on Windows 10 in a single layer.](#)
  - **KB Article:** [How to FlexApp DIA Office 2013 and 2016 on Windows 10](#)
  - **KB Article:** [How to FlexApp DIA Office 2010 on Windows 10](#)
- Windows 10 Start Menu capture optimizations have been added to all Windows 10 templates.
- Windows AppLocker and ProfileUnity support has been added.
  - **KB Article:** [Configuring ProfileUnity With Windows 10 AppLocker](#)

### Issues Resolved

- Management Console - Administration ProfileDisk: Nodes.xml was generated incorrectly when message broker was modified.
- Management Console - Guided Setup - Automatic GPO Integration: Generated GPO did not have classic Administrative template for system configuration.
- Management Console - ProfileUnity Login Page: Login was showing incomplete message when creating password for default(admin) user.
- Management Console - Inventory – Redirection: Shell folders names were not displayed for (Download, Links, Libraries, Searches and Contacts). Alphanumeric codes were displayed instead.
- FlexDisk: User was unable to delete FlexDisk (UDD or DIA) when FlexDisk Host is inaccessible.
- FlexDisk- FlexDisk Management - Event Monitor: Sort button did not work on any of the columns.
- Client - ThinApp and Rsync did not follow custom extract path.
- Client - All paths used for ProfileUnity Client no longer contain the term "TEMP" or "TMP".
- Startup - Client Tools were not being fully deployed in some cases.
- FlexApp- Office 365 did not playback correctly.
- FlexApp - FlexApp Packaging Console playback hung on 'Creating and mounting the child VHD' (Office 365).
- FlexApp - FlexApp Packaging Console Installer: Silent installation process was not completed fully.
- FlexApp - Order of processing on playback for applications with services was an issue which mainly affected Office.

**COMPONENT VERSIONS**

Component	6.5.7
Console UI	6.5.6116
FlexDisk Service	6.5.6116
Client	6.5.689
Client.NET	6.5.7.6099
VirtFS	2.1.6093
LWL UserApp Player	1.1.6912
LWL UserApp Service	1.1.6912
LWL Elevation Service	1.1.6912
FPC	6.5.6.6116
FPC Player	1.1.6912
FPC VirtFS	2.1.6093
CSMonitor	6.5.6081

## Known Issues and Limitations

- When using 3<sup>rd</sup> party layering products, you must fully disable FlexApp.
- Migrating to ProfileDisk where Portability Compression is set to “Faster Archives” would cause any rulesets set to Userprofile to restore outside ProfileDisk.
  - Workaround: From the Main Configuration Module, change Portability Compression to use “No Compression” or “Smaller Archives” before migrating.
- When using license path and INI path at the same time, you cannot exceed a total combined character count of 238 characters; 22 are taken by the product.
- Windows 7/8 32-bit are no longer supported by the ProfileUnity Management Console.
- Non-English APAC Windows 7 and Windows XP is not supported; you must use ProfileUnity 5.0 with double-byte character support.
- The use of \* in Privilege Elevation is no longer supported. To resolve this for FlexApp UIA, you would put in the Path Contains ‘\\server\share\%username%’ and ‘%userprofile%’. This will auto approve anything trying to be installed from the user home share and profile path, for example Downloads, My Documents, Desktop.
- Files that have more than 260 characters are not processed by the portability engine.
- Applications packaged on Windows 7 and played back on Windows 8.1/10 is best effort. With all the changes made to Windows 8.1/10, application vendors have had to make many change to their applications to make them compatible with Windows 8.1/10, and we cannot ensure applications will run correctly. The same would apply in reverse; applications packaged on Windows 8.1/10 are best effort support when played back on Windows 7/10.
- Dell vWorkSpace support has been removed, please contact Dell vWorkSpace Support for the correct version of vWorkSpace that supports ProfileUnity.
- Startup.exe will not run on 2008 R2 if .NET 3.5.1 is not enabled in features.  
LwL.ProfileUnity.Client.Startup. needs 3.5.1 to run.
  - **Notes:** On Windows 2008 R2 .NET 3.5.1 is NOT enabled out of the box. To enable it before running startup.exe, run this command from an elevated command prompt ‘serverManagerCmd.exe -install Net-Framework’, reboot, run Windows Updates, reboot then re-run startup.exe.
- If the customer has automatic root certificate updates disabled, ProfileUnity install may fail with data1.cab certificate error
  - **Notes:** FED and some commercial accounts following federal STIG guidelines could have automatic root certificate updates disabled causing them to not have the latest root cert our installer code was compiled with the latest root certificates.
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- Windows 10 accent colors do not restore when using Portability.
- Windows 7 pinned Start Menu items don’t migration to Windows 10 when using Portability.
- Windows 7 desktop background does not migrate to Windows 10 when using Portability.
- Installing ProfileUnity 6.5+ and Flex-IO on the same server is not supported.
- Windows 10 Edge settings restored by Portability are not accepted by Windows.

- Workaround: Use ProfileDisk VHD or VMDK.
- Migrating a Windows 7 ProfileDisk to Windows 10 will cause the Windows 10 Start Menu to lock up.
- Packaging application on Windows 10 with FlexApp requires all C++ runtimes are installed in the base OS of the FlexApp packaging console and the target desktop. On Windows 10 64-bit, you must install both x86 and x64 versions.
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## ProfileUnity™ and ProfileUnity FlexApp™

### Change Log/Release Notes

*v 6.5.6086, Released August 31<sup>st</sup>, 2016*

#### What's New in ProfileUnity 6.5.6?

- Console Debug Logging Enhancements
  - Destruction of session IDs.
  - HTTP headers including User-Agent Referrer GET and POST.
  - Source IP addresses.
  - Concurrent logons from different workstations occur.
- Client - File extract path no longer contains the phrase tmp or temp.
- Client - 7zip version was updated to remove a false positive when performing security scanning.
- Client - FlexDisk now finds the VM by UUID even when VMware Tools is not ready.
- FlexDisk - Resource reduction work was done.
- FlexDisk - vSan support was added.
- FlexApp - Office layering process has been refined; new KB articles are on the support site.

#### Issues Resolved

- Console - Global Variables are not being populated in User Defined Scripts.
- Console - Unable to download the template configuration in PDF format.
- Console - After upgrading to 6.5.5, not able to download the configuration in PDF format.
- Console - Upgrades Drive Mapping - Importing 5.x JSON displays drive letter as numbers in 6.5.
- Client - PendingFileRenameOperations Registry Key is created with client install.
- Client - Startup Installer - Install fails with 'FileNotFoundException'.
- Client - Portability Replace deletes existing file/folders when archive does not previously exist.
- Client - System DIA apps do not playback when UIA is configured.
- Client - Filters ICA Client Address does not work with several options client.
- Client - Windows 7 filter would sometimes return with RDSH enabled.
- Client - Filters would run slow checking if RDSH was enabled.
- FlexDisk - Attach and Detach issues have been addressed.
- FlexDisk - When attempting to create a VMDK based application, the process fails with an object reference error.
- FlexApp - Random Reg keys missing on playback.
  - No need to recapture apps for this issue.
- FlexApp - When an installer asks to remove files, FlexApp on capture would remove too many files.
  - This has only been seen with Office 2010.
  - If your layered app is having errors about missing files you would need to recapture.

**COMPONENT VERSIONS**

Component	6.5.6
Console UI	6.5.6086
FlexDisk Service	6.5.6086
Client	6.5.683
Client.NET	6.5.6.6085
VirtFS	2.1.6085
LWL UserApp Player	1.1.6829
LWL UserApp Service	1.1.6829
LWL Elevation Service	1.1.6829
FPC	6.5.6.6086
FPC Player	1.1.6829
FPC VirtFS	2.1.6085
CSMonitor	6.5.6081

### Known Issues and Limitations

- When using 3<sup>rd</sup> party layering products, you must fully disable FlexApp.
- Migrating to ProfileDisk where Portability Compression is set to “Faster Archives” would cause any rulesets set to Userprofile to restore outside ProfileDisk.
  - Workaround: From the Main Configuration Module, change Portability Compression to use “No Compression” or “Smaller Archives” before migrating.
- When using license path and INI path at the same time, you cannot exceed a total combined character count of 238 characters; 22 are taken by the product.
- Windows 7/8 32-bit are no longer supported by the ProfileUnity Management Console.
- Non-English APAC Windows 7 and Windows XP is not supported; you must use ProfileUnity 5.0 with double-byte character support.
- The use of \* in Privilege Elevation is no longer supported. To resolve this for FlexApp UIA, you would put in the Path Contains ‘\\server\share\%username%’ and ‘%userprofile%’. This will auto approve anything trying to be installed from the user home share and profile path, for example Downloads, My Documents, Desktop.
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- Dell vWorkSpace support has been removed, please contact Dell vWorkSpace Support for the correct version of vWorkSpace that supports ProfileUnity.
- Startup.exe will not run on 2008 R2 if .NET 3.5.1 is not enabled in features.
  - LwL.ProfileUnity.Client.Startup. needs 3.5.1 to run.
  - **Notes:** On Windows 2008 R2 .NET 3.5.1 is NOT enabled out of the box. To enable it before running startup.exe, run this command from an elevated command prompt ‘serverManagerCmd.exe -install Net-Framework’, reboot, run Windows Updates, reboot then re-run startup.exe.
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  - **Notes:** FED and some commercial accounts following federal STIG guidelines could have automatic root certificate updates disabled causing them to not have the latest root cert our installer code was compiled with the latest root certificates.
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- Installing ProfileUnity 6.5+ and Flex-IO on the same server is not supported.
- Windows 10 Edge settings restored by Portability are not accepted by Windows.

- Workaround: Use ProfileDisk VHD or VMDK.
- Migrating a Windows 7 ProfileDisk to Windows 10 will cause the Windows 10 Start Menu to lock up.
- Packaging application on Windows 10 with FlexApp requires all C++ runtimes are installed in the base OS of the FlexApp packaging console and the target desktop. On Windows 10 64-bit, you must install both x86 and x64 versions.
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## ProfileUnity™ and ProfileUnity FlexApp™

### Change Log/Release Notes

*v 6.5.6037, Released July 20<sup>th</sup>, 2016*

### What's New in ProfileUnity 6.5.5?

- VDI Concurrent licenses are now handled by counting the number of computer accounts in an OU or many OUs. Customers that have bought concurrent licensing will need to upgrade and get a new license from Liquidware Labs.
- ProfileUnity now has a built in diagnostic tool to help diagnose environmental issues.
- A new Template has been added to support migration from Windows 7 to a network share then back local to Windows 10 again.
- A new Template has been added for migration of Windows 7 to Amazon Workspaces.
- VHD ProfileDisk temp files are stored outside the ProfileDisk to avoid unnecessary ProfileDisk growth.
- Export an entire configuration module
  - ProfileUnity today can export and import full configurations. However, with this release ProfileUnity can export an entire module of items and import them into an existing configuration.
- Export any configuration module item
  - ProfileUnity today can export and import full configurations. However, with this release ProfileUnity can export selected module items and import them into another existing module. This can be super helpful when you want to apply X number of updates to a configuration without replacing the entire configuration.
- ADMX import with GPO import directly from Active Directory
  - Since ProfileUnity is a full UEM tool and it processes user management changes faster than Group Policy, we have added the ability to move or augment GPO settings to ProfileUnity.
- Nodes.XML path for startup.exe is optionally read from Reg key from ADM(X).
  - This allows larger accounts to have one install path for the software and one path for how ProfileDisk is configured per OU.
- Startup.exe configuration can be update to not deploy certain ProfileUnity Services.
- Cred file for ProfileUnity as a Service reads from Reg key from ADM(X) set
  - This allows larger accounts to have one install path for the software and one path for how ProfileUnity as a Service is configured per OU.
- ProfileDisk VHD now support group assignments
  - You can now assign a group of users a VHD-based ProfileDisk. If the user is not part of that group, their login will not be held off.
- File Associations Module administrator controlled for Windows 7 & 10 and Windows Server 2008 R2
  - This allows administrators to control what apps open for what file types.
- Portability updated to support capturing user authored file associations.
- Portability now support post login options to speed up login times.
- Portability replace/delete functions are now faster.
- Portability restore once tracker is now located in the root of the user's profile instead of next to the archive.

- FlexApp FlexDisk Mirroring
  - This allows VMDK-based FlexApp Layers to be replicated to many datastores across sites and across many Virtual Centers. This feature also includes bandwidth control.
- Updated FlexDisk Connection Server Monitor does not rely on View shared memory; now directly integrates into the ADSI database of View.
- FlexDisk/ProfileUnity to support any number of VMware vCenter Servers
  - FlexDisk can now assign FlexApp Layers for any user in any Virtual Center (VC).
- ProfileDisk FlexDisk support for locking to a VMware pool
  - Today you can't lock ProfileDisk to a pool. The VMware broker doesn't know what desktop it gave you until later in the login process, which is useless. We have built technology to allow locking a ProfileDisk to a VMware pool.
- ProfileDisk changes that would be nested under a FlexApp DIA layer now persists to ProfileDisk.
- FlexApp HKCU values are written directly to the user's registry hive.
- FlexApp HKCU values are only written directly to the user's registry hive when the value does not exist.
- FlexApp playback of layers are 30-50% faster
- ProfileUnity client now supports counting the number of single user computers in an OU.
- System level Environment variables can be created using the Environment variable module.
- ProfileUnity UI exposes Direct to Host mode from FlexDisk.
  - Direct to Host mode reduces VC latency when attaching disks by spreading the load to each ESXi host.
- ProfileUnity database backup includes FlexDisk database.
- ProfileUnity.NET Guided Configuration Wizard: Added skip checkbox for Automatic AD GPO integration
  - This should make it easier for clients to see they can skip the Automatic configuration of ProfileUnity's GPOs.
- ProfileUnity.NET Guided Configuration Wizard: Added Deploy and Download Configuration buttons.
  - When pushing out configuration templates to be used by the ProfileUnity Client, AD admins can now have ProfileUnity deploy the Configuration by copying it to the Deployment Path by clicking on the Deploy button. Admins can click the Download Configuration button to download and manually copy the Configuration INI file to the location of the ProfileUnity Client. Or admins can click the Finish button without deploying the Configuration at all.
- Deploy Configuration INI file to deployment path with retention policy.
  - It has been a long standing request to NOT have to download a Configuration INI and then manually copy it to the client deployment path. We have now added the option to just push Configuration INI live. Part of this feature is the ability to restore older versions of a Configuration in case you make a mistake. In the UI can you pick from the last 5 versions of automatic backups that were saved of your configuration.
- Global paths for Configuration, Filter, and Portability Rulesets to leverage.
  - Whenever you change servers in a data center it can impact other things like ProfileUnity settings. With Global Variables you can change a single path in one place it would change 100s of locations in various settings automatically within ProfileUnity.
- When inside a module and using the edit option after saving your changes, don't snap back to the top but stay in the current placement.

- When a line item inside a module is highlighted, clicking anywhere on the line defaults to edit mode.
- Portability support for C:\windows\system32 on 64-bit OS had been added, the administrator will be able to put in C:\windows\system32 or C:\Windows\SysWOW64 and have either honored.
- Portability Module and Registry Module Support for both 32- and 64-bit registry paths.
- Federated ProfileUnity with FlexDisk - This would allow an active-active sites with many VCs be managed all from a single console. You would need to have a three node system at the main site and a min two node replica set at all the secondary sites. This would include us handing the replication of VMDK based FlexApp Layers to any site and any VC from a centralized location.

## Issues Resolved

- Triggers don't follow LIC path set in GPO.
- Windows Server 2008 R2 filter only fires True when machine class is Terminal Server.
- Packages not playing back when IP used to configure VC.
- Filter Management - Registry Key & Registry Value filters do not work using Contains, Does Not Contain, Begins With or Ends With match
- ProfileUnity was unable to install using a fabric password with " (space)" It cause FlexDisk Server to not start.
- FlexApp Packaging Console allowed delete of in use VMDK packages.
- CSMonitor requires users to manually change Connection String after uninstall/re-install.
- Persist FlexApp DIA HKCU Reg values was not working.
- Client continuously runs VHD with /FlexDisk when system DIA, Triggers are present.
- BSOD occurs when using APPV 5.1 with ProfileUnity.
- VM lockups due to virtual registry driver.
- Unsigned driver install support for FlexApp DIA, however Windows 7 still needs Microsoft Hotfix: KB2921916
- ICA session filter would not fire True for XenDesktop 7.5/7.6.
- Restoring registry fails when captured with Isolate sub keys/subdirectories.
- FlexApp Error 500 when trying to extend or configure a package.
- Registry module Browse Local/Server Importing - Data is not imported when value is (Default).

**COMPONENT VERSIONS**

Component	6.5.5
Console UI	6.5.6037
FlexDisk Service	6.5.6037
Client	6.5.678
Client.NET	6.5.5.6031
VirtFS	2.1.6017
LWL UserApp Player	1.1.6624
LWL UserApp Service	1.1.6624
LWL Elevation Service	1.1.6624
FPC	6.5.5.6026
FPC Player	1.1.6624
FPC VirtFS	2.1.6017
CSMonitor	6.5.6002



## Known Issues and Limitations

- FlexDisk does not support VMware vSan, support is pending the next release.
- When using 3<sup>rd</sup> party layering products you must fully disable FlexApp
- Migrating to ProfileDisk where portability is set too faster would cause any rulesets set to userprofile to restore outside ProfileDisk.
  - Workaround: Change portability to use no compression or smaller compression before migrating.
- When using license path and INI path at the same time, you cannot exceed a total combined character count of 238 characters; 22 are taken by the product.
- Windows 7/8 32-bit are no longer supported by the ProfileUnity Management Console.
- Non-English APAC Windows 7 and Windows XP is not supported; you must use ProfileUnity 5.0 with double-byte character support.
- The use of \* in Privilege Elevation is no longer supported. To resolve this for FlexApp UIA, you would put in the Path Contains [\\server\share\%username%](#) and %userprofile%. This will auto approve anything trying to be installed from the user home share and profile path, for example Downloads, My Documents, Desktop.
- Files that have more than 260 characters are not processed by the portability engine.
- Applications packaged on Windows 7 and played back on Windows 8.1/10 is best effort. With all the changes made to Windows 8.1/10, application vendors have had to make many change to their applications to make them compatible with Windows 8.1/10, and we cannot ensure applications will run correctly. The same would apply in reverse; applications packaged on Windows 8.1/10 are best effort support when played back on Windows 7/10.
- Dell vWorkspace support has been removed, please contact Dell vWorkSpace Support for the correct version of vWorkSpace that supports ProfileUnity.
- Startup.exe will not run on 2008 R2 if .NET 3.5.1 is not enabled in features.  
LwL.ProfileUnity.Client.Startup. needs 3.5.1 to run.
  - **Notes:** On Windows 2008 R2 .NET 3.5.1 is NOT enabled out of the box. To enable it before running startup.exe, run this command from an elevated command prompt 'serverManagerCmd.exe -install Net-Framework', reboot, run Windows Updates, reboot then re-run startup.exe.
- If the customer has automatic root certificate updates disabled, ProfileUnity install may fail with data1.cab certificate error
  - **Notes:** FED and some commercial accounts following federal STIG guidelines could have automatic root certificate updates disabled causing them to not have the latest root cert our installer code was compiled with the latest root certificates.
  - **KB:**<https://liquidwarelabs.zendesk.com/entries/106422613-ProfileUnity-install-may-fail-if-automatic-root-certificate-updates-disabled->
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- Using Portability on all of Appdata Local can cause long logins for Windows 10.
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- Windows 10 accent colors do not restore when using Portability.
- Windows 7 pinned Start Menu items don't migration to Windows 10 when using Portability.
- Windows 7 desktop background does not migrate to Windows 10 when using Portability.
- Installing ProfileUnity 6.5+ and Flex-IO on the same server is not supported.

- Windows 10 Edge settings restored by Portability are not accepted by Windows.
  - Workaround: Use ProfileDisk VHD or VMDK.
- Migrating a Windows 7 ProfileDisk to Windows 10 will cause the Windows 10 Start Menu to lock up.
- Packaging application on Windows 10 with FlexApp requires all C++ runtimes are installed in the base OS of the FlexApp packaging console and the target desktop. On Windows 10 64-bit you must install both x86 and x64 versions.
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  - 2008 SP1 Redistributable Package (x86)
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  - 2010 SP1 Redistributable Package (x86)
    - i. <https://www.microsoft.com/en-us/download/details.aspx?id=8328>
  - 2010 SP1 Redistributable Package (x64)
    - i. <https://www.microsoft.com/en-us/download/details.aspx?id=13523>

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## ProfileUnity™ and ProfileUnity FlexApp™

### Change Log/Release Notes

*v 6.5.2.5896, Released March 2<sup>nd</sup>, 2016*

## What's New in ProfileUnity 6.5.2?

### Issues Resolved

- Fabric does not work when the ProfileUnity password contains a ^ or two % signs.
- Importing 5.x/6.x configuration file (.json) of Configuration Management into ProfileUnity 6.5.1 both Filter and Portability Management create empty filter and ruleset.
- When a user clicks any one of the Portability Setting rules, it shows the next rule VHD ProfileDisk Windows 7 & 8, Template.
- ProfileUnity Web Service is missing after upgrade from 6.5 to 6.5.1.
- After upgrading from 6.0 to 6.5.1, ProfileUnity console login errors with "A referral was returned from the server".
- ProfileDisk/User Data Disks are removed from VMware View client VMs when View connection server is rebooted.
- ProfileUnity 6.5.1 and 6.5 - default filters (Windows 10, Windows 7 & 10 and Windows 7, 8.1, 10) of 6.5.1 settings are incorrectly displayed.
- Second ProfileDisk is created for user when alternate login format is username@Domain.
- ProfileDisk - VHD is not created when path has a space.
- Startup - Registry is not modified correctly for XenApp 7.5/7.6 (userinit).
- On a rare occasion when logging in with debug mode, you might get a printer error "Printers - InvalidOperationException...".
- Red X Drive issue resolved on Win7, 8, 10, 2008R2 and 2012 R2.
- XenApp 7.x ProfileUnity chain loader did not install correctly.
- Csmonitor fails to install when the password contains multiple \$ signs.
- Import of configurations from ProfileUnity 5.x fail to import.
- ProfileUnity Guided Configuration text incorrectly states nested groups are not supported for licensing. Text edited to note nested groups are supported.
- Windows 10 template service stopping order in user defined scripts order could cause logoffs to hang.
- Read only folders on the root of a VHD or VMDK are causing capture, playback and cloning issues for FlexApp DIA.
- Non-domain admin accounts cannot login to the ProfileUnity Console.
- When portability restore has a fatal error while logging in in fatal mode, the name of the portability archive with the error will be posted to the fatal log without needing to go into debug mode.
- When a blank path is given while enabling debug for all logs, the user logs will go to the users' %temp%\ProfileUnity and ProfileUnity system process logs will go to Windows\temp\ProfileUnity.

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**COMPONENT VERSIONS**

Component	6.5.2
Console UI	6.5.5896
FlexDisk Service	6.5.5896
Client	6.5.641
Client.NET	6.5.2.5890
VirtFS	2.1.5829
LWL UserApp Player	1.1.6112
LWL UserApp Service	1.1.6112
LWL Elevation Service	1.1.6112
FPC	6.5.2.5878
FPC Player	1.1.6112
FPC VirtFS	2.1.5829
CSMonitor	6.5.5786

## Known Issues and Limitations

- Migrating to ProfileDisk where portability is set to faster would cause any rule sets set to userprofile to restore outside ProfileDisk.
  - Workaround: Change portability to use no compression or smaller compression before migrating.
- Using ProfileDisk and FlexApp DIA where user registry settings overlap with FlexApp DIA registry settings, will cause user settings to never persist to the ProfileDisk.
  - Workaround: Turn on the portability rule called 3<sup>rd</sup> party that captures HKCU\Software, to persist these settings going forward until the next major product release.
- When using license path and INI path at the same time, you cannot exceed a total combined character count of 238 characters; 22 are taken by the product.
- Windows 7/8 32-bit are no longer supported by the ProfileUnity Management Console.
- Non-English APAC Windows 7 and Windows XP is not supported; you must use ProfileUnity 5.0 with double-byte character support.
- The use of \* in Privilege Elevation is no longer supported. To resolve this for FlexApp UIA, you would put in the Path Contains `\\server\share\%username%` and `%userprofile%`. This will auto approve anything trying to be installed from the user home share and profile path, for example Downloads, My Documents, Desktop.
- Files that have more than 260 characters are not processed by the portability engine.
- Applications packaged on Windows 7 and played back on Windows 8.1/10 is best effort. With all the changes made to Windows 8.1/10, application vendors have had to make many change to their applications to make them compatible with Windows 8.1/10, and we cannot ensure applications will run correctly. The same would apply in reverse; applications packaged on Windows 8.1/10 are best effort support when played back on Windows 7/10.
- Dell vWorkSpace support has been removed, please contact Dell vWorkSpace Support for the correct version of vWorkSpace that supports ProfileUnity.
- Startup.exe will not run on 2008 R2 if .NET 3.5.1 is not enabled in features.  
LwL.ProfileUnity.Client.Startup. needs 3.5.1 to run.
  - **Notes:** On Windows 2008 R2 .NET 3.5.1 is NOT enabled out of the box. To enable it before running startup.exe, run this command from an elevated command prompt 'serverManagerCmd.exe -install Net-Framework', reboot, run Windows Updates, reboot then re-run startup.exe.
- If the customer has automatic root certificate updates disabled, ProfileUnity install may fail with data1.cab certificate error
  - **Notes:** FED and some commercial accounts following federal STIG guidelines could have automatic root certificate updates disabled causing them to not have the latest root cert our installer code was compiled with the latest root certificates.
  - **KB:** <https://liquidwarelabs.zendesk.com/entries/106422613-ProfileUnity-install-may-fail-if-automatic-root-certificate-updates-disabled->
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- Using Portability on all of Appdata Local can cause long logins for Windows 10.
- The desktop background does not restore from one Windows 10 persistent desktop to another on Windows 10 persistent desktop.
- Windows 10 accent colors do not restore when using Portability.
- User mapped drives show as a red X when using Portability to restore them on Windows 10. Contact support for a workaround.

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- Windows 7 pinned Start Menu items don't migrate to Windows 10 when using Portability.
  - Windows 7 desktop background does not migrate to Windows 10 when using Portability.
  - Installing ProfileUnity 6.5+ and Flex-IO on the same server is not supported.
  - Windows 10 Edge settings restored by Portability are not accepted by Windows.
    - Workaround: Use ProfileDisk VHD or VMDK.
  - Migrating a Windows 7 ProfileDisk to Windows 10 will cause the Windows 10 Start Menu to lock up.
  - Packaging application on Windows 10 with FlexApp requires all C++ runtimes are installed in the base OS of the FlexApp packaging console and the target desktop. On Windows 10 64-bit you must install both x86 and x64 versions.
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    - 2008 SP1 Redistributable Package (x86)
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    - 2008 SP1 Redistributable Package (x64)
      - i. <https://www.microsoft.com/en-us/download/details.aspx?id=2092>
    - 2010 SP1 Redistributable Package (x86)
      - i. <https://www.microsoft.com/en-us/download/details.aspx?id=8328>
    - 2010 SP1 Redistributable Package (x64)
      - i. <https://www.microsoft.com/en-us/download/details.aspx?id=13523>

## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

*v 6.5.1.5833, Released December 21<sup>st</sup>, 2015*

### What's New in ProfileUnity 6.5.1?

- FlexApp Micro Isolation
  - "Inter-layer conflicts are a well-known issue for application layering. Other solutions take a naive approach to conflict resolution such as last write wins, or at best have developed a conflict handling rule set over time that still can't resolve every type of conflict. In many cases, the only resolution was to put many applications into the same layer resulting in more difficult and less flexible application management. With micro-isolation we have chosen to solve the problem by eliminating these types of conflicts altogether. Each layer sees the versions of files and registry values that were put in place during the capture process. In other words, we've removed the limitation of a single file or registry value having only one set of contents, and as a result, FlexApp provides a better-than-native level of application compatibility."
- Windows 10 support for core ProfileUnity has been added.
- Windows 10 support to FlexApp layering has been added.
- Office 2016 Support has been added to FlexApp layering, also see the chart below on versions of Office supported on which OS platforms with FlexApp. Each version of Office, Visio and Project can be put into their own layer, no need to put Visio or Project into the same layer as Office.
- Startup.vbs now runs LwL.ProfileUnity.Client.Startup.exe if you are running Windows 7+, it's still suggested to switch your group policy to run LwL.ProfileUnity.Client.Startup.exe instead of startup.vbs.
- When running LwL.ProfileUnity.Client.Startup.exe as an administrator you will now see a console window of status.

Office Product	Office Bit Level	Windows 7 (32-Bit)	Windows 8.1 (32-Bit)	Windows 10 (32-Bit)	Windows 7 (64-Bit)	Windows 8.1 (64-Bit)	Windows 10 (64-Bit)	Windows 7 (64-Bit)	Windows 8.1 (64-Bit)	Windows 10 (64-Bit)
Office 2010	32,64	✓	✓	✓	✓	✓	✓	✓	✓	✓
Visio 2010	32,64	✓	✓	✓	✓	✓	✓	✓	✓	✓
Project 2010	32,64	✓	✓	✓	✓	✓	✓	✓	✓	✓
Office 2013	32,64	✓	✓	✓	✓	✓	✓	✓	✓	✓
Visio 2013	32,64	✓	✓	✓	✓	✓	✓	✓	✓	✓
Project 2013	32,64	✓	✓	✓	✓	✓	✓	✓	✓	✓
Office 2016	32,64	✓	✓	✓	✓	✓	✓	✓	✓	✓
Visio 2016	32,64	✓	✓	✓	✓	✓	✓	✓	✓	✓
Project 2016	32,64	✓	✓	✓	✓	✓	✓	✓	✓	✓

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## Issues Resolved

- The ProfileUnity Console can be installed when FIPS mode is enabled.
- ProfileUnity installed to a drive other than C drive you cannot enable clustering.
- When upgrading from older versions, the built in admin password is not retained.
- When logging in as domain user in ProfileUnity 6.5 Console throws translation error on German 2008R2 OS.
- LwL.ProfileUnity.Client.Startup.exe does not install ProfileUnity Client on German OS.
- When enabling License path and INI path with long FQDN names, you can get a message on login Error - "Maximum Command Length Exceeded!"
- Installation - unable to login to Console when installer specified password begins with a number or pound sign.
- ProfileDisk registry keys are not removed when nodes.xml is removed from Netlogon.
- Upgrades - 5.7/6.0 to 6.5 startup.exe fails when Client Tools are overwritten.
- Path too long message with FlexApp DIA logs, causing a SXS error.
- Nested groups do not receive ProfileDisk with FlexDisk when assigned to top level.
- ProfileUnity 6.5 Client Tools and App-V on the same OS causes a blue screen.
- ProfileUnity server name that is or exceeds NetBIOS 15-character limit ProfileDisk will not work correctly.
- When removing items from a package during capture or post capture causes no packages to playback.
- LwL.ProfileUnity.Client.Startup.exe will NOT install ProfileDisk when using a server OS as a desktop, LwL.ProfileUnity.Client.Startup.exe is detecting RDS is enabled when it's not.
- Taskbar icons are white and are not restoring after upgrading to ProfileUnity 6.5.
- If your 6.0 ProfileUnity.manifest file is missing 6.5 portability will fail to restore.
- Client.net detects the incorrect number of sessions and won't restart the spooler.
- When using FlexDisk HOTADD, VMDKs show as offline on server OSes.
- FlexApp DIA on persistent desktop, the application shortcuts are invalid after logoff and on.
- On XenApp or other RDS server we are kicking off a VHD.exe for each user.
- Importing binary Reg files into the registry module don't create correctly on the Client.
- Windows 8 Microsoft Surface tablets icon size changes on login.
- FlexDisk assignments with nested groups would not attach disks.
- Connection Filters would not apply correctly on windows View RDSH but applied correctly on MS RDS and Citrix XenApp.
- Importing configurations from older versions of the ProfileUnity console would incorrect make existing drive mappings with numbers instead of a drive letter.



**COMPONENT VERSIONS**

Component	6.5.1
Console UI	6.5.5833
FlexDisk Service	6.5.5833
Client	6.5.627
Client.NET	6.5.1.5820
VirtFS	2.1.5819
LWL UserApp Player	1.1.6008
LWL UserApp Service	1.1.6008
LWL Elevation Service	1.1.6008
FPC	6.5.1.5820
FPC Player	1.1.6008
FPC VirtFS	2.1.5819
CSMonitor	6.5.5786

**Known Issues and Limitations**

- Windows 7/8 32-bit are no longer supported by the ProfileUnity Management Console.
- Non-English APAC Windows 7 and Windows XP is not supported; you must use ProfileUnity 5.0 with double-byte character support.
- The use of \* in Privilege Elevation is no longer supported. To resolve this for FlexApp UIA, you would put in the Path Contains [\\server\share\%username%](#) and %userprofile%. This will auto approve anything trying to be installed from the user home share and profile path, for example Downloads, My Documents, Desktop.
- Files that have more than 260 characters are not processed by the portability engine.
- Applications packaged on Windows 7 played back on Windows 8.1 is best effort. With all the changes made to Windows 8.1, application vendors have had to make many change to their applications to make them compatible with Windows 8.1, and we cannot ensure applications will run correctly. The same would apply in reverse applications packaged on Windows 8.1 are best effort support when played back on Windows 7.
- Dell vWorkSpace support has been removed, please contact Dell vWorkSpace Support for the correct version of vWorkSpace that supports ProfileUnity.
- Startup.exe will not run on 2008 R2 if .NET 3.5.1 is not enabled in features.  
LWL.ProfileUnity.Client.Startup. needs 3.5.1 to run.

## Release Notes

- **Notes:** On Windows 2008 R2 .NET 3.5.1 is NOT enabled out of the box. To enable it before running startup.exe, run this command from an elevated command prompt 'serverManagerCmd.exe -install Net-Framework', reboot, run windows updates, reboot then re-run startup.exe.
- If the customer has automatic root certificate updates disabled, ProfileUnity install may fail with data1.cab certificate error
  - **Notes:** FED and some commercial accounts following federal STIG guidelines could have automatic root certificate updates disabled causing them to not have the latest root cert our installer code was compiled with the latest root certificates.
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- The desktop background does not restore from one Windows 10 persistent desktop to another on Windows 10 persistent desktop.
- Windows 10 accent colors do not restore when using Portability.
- User mapped drives show as a red X when using Portability to restore them on Windows 10. Contact support for a workaround.
- FlexDisk's are still assigned when removing a user from an AD group.
- Windows 7 pinned Start Menu items don't migrate to Windows 10 when using Portability.
- Windows 7 desktop background does not migrate to Windows 10 when using Portability.
- Installing ProfileUnity 6.5+ and Flex-IO on the same server is not supported.
- Windows 10 Edge settings restored by Portability are not accepted by Windows. The workaround is to use ProfileDisk VHD or VMDK.
- Migrating a Windows 7 ProfileDisk to Windows 10 will cause the windows 10 Start Menu to lock up.
- Packaging application on windows 10 with FlexApp requires all C++ runtimes are installed in the base OS of the FlexApp packaging console and the target desktop. On Windows 10 64 bit you must install both x86 and x64 versions.
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## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

*v 6.5.5751, Released October 7<sup>th</sup>, 2015*

### What's New in ProfileUnity 6.5.0?

- FlexDisk – A Robust VMDK Delivery System – VMware Hypervisor
  - FlexDisk allow for VMDKs to be used to deliver FlexApp application layers for high performance execution of applications running from FlexApp layers, to non-persistent or persistent desktops
  - FlexDisk based ProfileDisk - Allows for the entire local windows Profile to exist on a VMDK that can be attached and detached when needed for the user. This allows for 100% of all file system and registry changes in the user profile path to be stored and attached to the desktop the user is logging into. This is done without a filter driver for best performance.
- ProfileUnity Clustering – When your users' desktop depends on the delivery of a VMDK for the user's profile or applications layers you need to have a system can be configured in clustered mode to remove a single point of failure and provide more than one node for resources processing for scaling needs.
  - Fabric – The fabric is a set of services used to get information from point A to point B without a single point of failure. The fabric is used to transmit and receive login/logoff events so VMDKs can be added or removed from the desktop at the proper times.
  - FlexDisk Service – This service is responsible for pulling needed information from the fabric and taking action on the VMware Virtual Center API's, i.e. adding and removing disks.
  - Connection Server Monitor – The Connection Server Monitor service installs on each VMware View Broker server. Its job is to relay login and logout information to the fabric to be consumed by FlexDisk.
  - Database – The setup of the database cluster is automated by the ProfileUnity console.
  - Outage alerts – If a service fails, an outage email can be sent. The SMTP settings support, FQDN or IP, custom port, SSL/TLS 'to' and 'from' email addresses can be customized.
  - Fabric Broadcast – When you expand or shrink the number of nodes in a cluster, all clustered nodes will automatically update their list of clustered nodes without the need to manually edit each node by hand. This includes the connection server monitors, for desktops you would just download a new nodes.xml to your file share for the desktops to update themselves on boot.
  - Service Status Dashboard – When in the admin section of the ProfileUnity console you can see the status of each node's services up or down.
- VHD based ProfileDisk - Allows for the entire local windows Profile to exist on a VHD that can be attached and detached when needed for the user, this VHD would live on a CIFS share. This allows for 100% of all file system and registry changes in the user profile path to be stored and attached to the desktop the user is logging into. This is done without a filter driver for best performance. This technology supports the following OS Win7/8.1 – 2008R2/2012R2 as a desktop delivery method. RDSH hosts are not supported. Also below you can see the platforms supported.

- VMware View VDI
- Citrix VDI, MCS and PVS
- FlexApp 2.0 – FlexApp now employs a virtual registry and virtual file system overlay, this means our virtual registry and file system coexist with what is in the system all without isolation and without tattooing the system.
  - Application success rate have improved using this new method.
  - Editing a layer is as simple as activating the layer and making any application level changes, file or registry level change. All changes are automatically persisted to the layer going forward.
  - A FlexApp 2.0 layer is a true non-persistent application layer.
  - FlexApp can leverage VMDK for its storage delivery layer with its integration with FlexDisk.
- ProfileUnity client for the system– ProfileUnity can be setup to run at the system level on computer startup. HKLM changes can be done at system startup and also things like system level FlexApps for RDSH/XenApp can be attached on system startup as well.
- Automatic Isolate Registry Keys – When this feature is enabled on a Registry Key all 1<sup>st</sup> level child keys are broken out into their own archive and MD5 checksum. This checksum is also cached locally in the profile on the network path. This can allow for less data to be restored on login and less data be saved if Registry Key have not changed. The other added benefit is multiple sessions; this allow two different apps not step on each other when having high level portability rules out of the box.
- Automatic Isolate Directories - When this feature is enabled on a Directory all 1<sup>st</sup> level child Directories are broken out into their own archive and MD5 checksum. This checksum is also cached locally in the profile on the network path. This can allow for less data to be restored on login and less data be saved if a Directory have not changed. The other added benefit is multiple sessions; this allow two different apps not step on each other when having high level portability rules out of the box.
- 2<sup>nd</sup> level archive MD5– Some customers are reporting archives that are not restoring correctly, most causes are replication software where the archive is not the same archive that was written to disk. To help the clients understand if the archive was tampered from its original MD5 state from when ProfileUnity wrote the file. You can enable a 2<sup>nd</sup> level MD5 check that does have login performance over head.
- Portability can now backup locked files – The portability engine can be given a list of files or directories that if locked, the processes locking said files or directories will be terminated.
- Portability now has the option for a retention policy, you can create a policy where you keep the X number of last logoff's. This allows for an entire profile restore or even down to a single application level restore of user's settings.
- Leveraging VMDK ProfileDisk Outlook indexing can be setup to follow the user from one non-persistent desktop to another. [See this KB.](#)
- All ProfileUnity screens now use server side paging to support large number of objects on the screen at one time without slowing down the UI.
- ProfileUnity now uses MongoDB for its primary database. This database allows for storing and reports on large amounts of data and clustering for HA when needed.
- Portability now Supports a custom path, where you might have files on a drive other than C drive that you need to backup and restore.
- All modules items now have Description Fields for storing notes.

- Triggers now have an option to execute a module on PCoIP disconnect. A common use might be to save portability on PCoIP disconnect. – VMware View 6.0 or greater.
- Filter comments are now visible when you are assigning a filter to module item.
- FlexApp application playback now starts in parallel to client starting. -This will get users' applications ready for use by the time they get their desktop.
- Users Number Lock state can now be captured by adding this registry key to portability - HKEY\_CURRENT\_USER\Control Panel\Keyboard\NumLock
- Pinned Items are now supported when moving around the location of Appdata\Roaming location
- Portability registry handling can be up to 70% faster on login in some cases.
- Certain filter objects are now stored in memory, this speeds up the ProfileUnity client when you have a large number of filters to process.
- FlexApp Packaging console can clone application layers bi-directionally between VHD and VMDK.
- Require Group Membership for configuration execution has been expanded to support any filter. Now you can bind the execution of a configuration to any filter that can be created.
- Volume state can now be captured by adding this registry key to portability - HKEY\_CURRENT\_USER\Control Panel\Sound
- Logging debug level can now be set on a filter, this also includes redirecting logs to a single location. This allows for single user debugging without the need to enable debugging on everyone.
- Added Filters
  - Times of Day, Day(s) of week
  - Laptop/Tablet or workstation
  - Session Type
    - RDP
    - ICA
    - PCoIP
  - Machine Group filter
  - Service NOT running
  - User AD attribute filter

### Issues Resolved

- Portability no longer stops on corrupt archives, as much of the profile is loaded but with a warning to the user, saying you have been logged on with a temporary profile. This message can also be suppressed.
- Portability no longer hangs on removing directory when using replace rules.
- Portability no longer hangs on replace of empty directories.
- Portability no longer hangs on directories with periods.
- Non-admin users trying to login to the ProfileUnity console might have experienced errors, these should be resolved.
- When using the inventory module and the ProfileUnity console database would grow above a few hundred MB you would see errors on service start, this had been resolved.
- ProfileUnity being installed after Dell Kace issues have been resolved.
- When using the ProfileUnity console wizard to create ProfileUnity's GPO it could have been blank, this issue has been resolved.

**COMPONENT VERSIONS**

Component	6.5
Console UI	6.5.5751
FlexDisk Service	6.5.5751
Client	6.5.586
Client.NET	6.5.0.5746
VirtFS	2.0.5749
LWL UserApp Player	1.1.5730
LWL UserApp Service	1.1.5730
LWL Elevation Service	1.1.5730
FPC	6.5.0.5751
FPC Player	1.1.5730
FPC VirtFS	2.0.5749
CSMonitor	6.5.5749

**Known Issues and Limitations**

- Windows 7/8 32 bit are no longer supported by the ProfileUnity Management Console.
- Non-English APAC Windows 7 and Windows XP is not supported; you must use ProfileUnity 5.0 with Double-byte character support.
- The use of \* in Privilege Elevation is no longer supported, to resolve this for FlexApp UIA you would put in the Path Contains [\\server\share\%username%](#) and %userprofile%, This will auto approve anything trying to be installed from the user home share and profile path, for example Downloads, My Documents, Desktop.
- Files that have more than 260 characters are not processed by the portability engine.
- Applications packaged on Windows 7 played back on Windows 8.1 is best effort. With all the changes made to Windows 8.1 application vendors have had to make many change to their applications to make them compatible with Windows 8.1 we cannot ensure applications will run correctly. The same would apply in reverse applications packaged on Windows 8.1 are best effort support when played back on Windows 7.
- Dell vWorkspace support has been removed, please contact Dell vWorkspace Support for the correct version of vWorkspace that supports ProfileUnity.

## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

### Critical Upgrade Alert – See upgrade section

*v 6.0.5409 Patch 2, Released October 24<sup>th</sup>, 2014*

### Issues Resolved

- ProfileUnity 6.0 monitors all user processes by default for Elevation, Application Restrictions, Application Open/Close triggers and for User installed Applications – The following issues have been resolved related to this monitoring.
  - Processes monitored could be left in Zombie state.
  - All user processes are monitored and handles were not cleaned up correctly causing a handle leak.
  - When monitoring processes and the process did not have file properties, a file handle was hung open and the process could not be run or removed after this occurred.
- After patch 1 mapped drives appear to no longer function for some environments, this had been resolved.

### COMPONENT VERSIONS

Component	6.0 P2
Console/UI	6.0.5409
Client	6.0.437
Client.NET	6.0.5394
LWL UIA Player	1.1.4622.33247
LWL UIA Service	1.1.4622.33344
LWL Elevation Service	1.1.4622.33410
LWL Profile Service	5.2.0.1
FlexApp Packaging Console	6.0.5296
LWL FPC Player	1.1.4224.423

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## Upgrade and Update Notes

- When upgrading from ProfileUnity 4.8.1-5.2 to 5.5x, please use this document as your guide
  - <http://www.liquidwarelabs.com/content/pdf/documents/support/Liquidware-Labs-ProfileUnity-Upgrade-Guide>
- When updating a prior version of ProfileUnity 5.5.xxxx, please use this process for updating.
  - <http://www.liquidwarelabs.com/content/pdf/documents/support/Liquidware-Labs-ProfileUnity-Installation-Guide>
- This ProfileUnity release affects the ProfileUnity management console, INI file, Client.exe files, FlexApp UIA/DIA and the FlexApp packaging console, all components but the INI file must be upgraded at the same time.

### **Critical Upgrade Alert Issue Identified:**

Liquidware Labs has identified that our code signature is going to expire on 12/23/14.

What happens on 12/23/14 and what does this mean?

On 12/23/14, certain features of ProfileUnity will stop working. To address this you will need to patch ProfileUnity to the latest shipping version. If you are using ProfileUnity 5.5 or greater and leveraging Elevation you will be affected. Elevation is used if you're performing any of the below tasks with ProfileUnity that would normally require administrative rights.

For example;

- Using FlexApp DIA or UIA
- Using Virtual Disk module
- Running custom scripts that need admin rights
- Writing registry keys to a location users don't have access to normally
- Moving files or folders with Portability Settings to a location a user does not have access to

## Known Issues and Limitations

- Online Upgrades from 6.0 to 6.0.5 do not work correctly on server 2012 and 2012 R2, you must download this [MSI](#) and run it over the top of your existing install to upgrade.
- Non-English APAC Windows 7 and windows XP is not supported; you must use ProfileUnity 5.0 Double byte.
- The use of \* in Privilege Elevation is no longer supported, to resolve this for FlexApp UIA you would put in the Path Contains [\\server\share\%username%](#) and %userprofile%, This will auto approve anything trying to be installed from the user home share and profile path, for example Downloads, My Documents, Desktop
- Files that have more than 260 characters are not processed by the portability engine.
- Applications packaged on Windows 7 played back on windows 8.1 is best effort. With all the changes made to windows 8.1 application vendors have had to make many change to their applications to make them compatible with windows 8.1 we can ensure applications will run correctly. The same would apply in reverse applications packaged on windows 8.1 are best effort support when played back on windows 7.



## Release Notes

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- Windows 8.1 Modern Applications downloaded from the Microsoft Store do not follow the user from one desktop to another. Due to Microsoft security this is by design so Modern Applications that have been downloaded are not just copied from one OS to another.
- Dell vWorkSpace support has been removed, please contact Dell vWorkSpace Support for the correct version of vWorkSpace that support's ProfileUnity.
- Under rare circumstances, Automatic Console GPO Deployment Creates A Blank GPO
  - Workaround - use the domain administrator account.
- Shortcuts - Pin To Start Menu Module Works Differently in Windows 8.1,2012,2012R2

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## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

### Critical Upgrade Alert – See upgrade section

*v 6.0.5379 Patch 1, Released September 25<sup>th</sup>, 2014*

### Issues Resolved

- ProfileUnity Console Inventory was not collecting information from desktops correctly.
- On Client logoff all portability archives were updating regardless of change or not.
- Profile Cleanup was not working consistently.
- Client portability has extra code to better log/retry when creation of archive failed from environmental issues.
- Updated lwluserapp.xml to solve a problem with client.exe from being terminated and re-spawned incorrectly some cases.
- ADMX file has been repaired.
- Updated code signing certificate.
- Folder Redirection - using 'Copy To New Location' and 'Hide Previous Location' did not copy files.
- Spooler restart and Citrix Printer Mgmt. Service restart is handled better because of dependencies.
- Combining 'Sync To New Location' with 'Sync Only Don't Redirect' caused sync to not work.
- The Client Splash screen now displays what module is being processed.
- Shutdown events during logoff are now logged when client.net is in debug mode.
- Replace portability rules no longer needs to timeout multiple times if the files or directories being replaced don't exist. – This could greatly reduce login times for some configurations.
- Shutdown events during logoff are now logged when client.net is in debug mode.
  - If a user does a shutdown the client.net log will show the shutdown event and the log will be complete.
  - If a 3rd party gracefully shuts down the desktop the log will show the shutdown event and be incomplete.
  - If a 3rd party hard powers off the desktop the log will be incomplete and no shutdown event will be recorded.

**COMPONENT VERSIONS**

Component	6.0
Console/UI	6.0.5379
Client	6.0.435
Client.NET	6.0.5367
LWL UIA Player	1.1.4224.423
LWL UIA Service	1.1.4230.554
LWL Elevation Service	1.1.4230.594
LWL Profile Service	5.2.0.1
FlexApp Packaging Console	6.0.5296
LWL FPC Player	1.1.4224.423

**Upgrade and Update Notes**

- When upgrading from ProfileUnity 4.8.1-5.2 to 5.5x, please use this document as your guide
  - <http://www.liquidwarelabs.com/content/pdf/documents/support/Liquidware-Labs-ProfileUnity-Upgrade-Guide>
- When updating a prior version of ProfileUnity 5.5.xxxx, please use this process for updating.
  - <http://www.liquidwarelabs.com/content/pdf/documents/support/Liquidware-Labs-ProfileUnity-Installation-Guide>
- This ProfileUnity release affects the ProfileUnity management console, INI file, Client.exe files, FlexApp UIA/DIA and the FlexApp packaging console, all components but the INI file must be upgraded at the same time.

**Critical Upgrade Alert Issue Identified:**

Liquidware Labs has identified that our code signature is going to expire on 12/23/14.

What happens on 12/23/14 and what does this mean?

On 12/23/14, certain features of ProfileUnity will stop working. To address this you will need to patch ProfileUnity to the latest shipping version. If you are using ProfileUnity 5.5 or greater and leveraging Elevation you will be affected. Elevation is used if you're performing any of the below tasks with ProfileUnity that would normally require administrative rights.

For example;

- Using FlexApp DIA or UIA
- Using Virtual Disk module
- Running custom scripts that need admin rights
- Writing registry keys to a location users don't have access to normally
- Moving files or folders with Portability Settings to a location a user does not have access to

**Known Issues and Limitations**

- Online Upgrades from 6.0 to 6.0.5 do not work correctly, you must download this [MSI](#) and run it over the top of your existing install to upgrade.
- Non-English APAC Windows 7 and windows XP is not supported; you must use ProfileUnity 5.0 Double byte.
- The use of \* in Privilege Elevation is no longer supported, to resolve this for FlexApp UIA you would put in the Path Contains [\\server\share\%username%](#) and %userprofile%, This will auto approve anything trying to be installed from the user home share and profile path, for example Downloads, My Documents, Desktop
- Files that have more than 260 characters are not processed by the portability engine.
- Applications packaged on Windows 7 played back on windows 8.1 is best effort. With all the changes made to windows 8.1 application vendors have had to make many change to their applications to make them compatible with windows 8.1 we can ensure applications will run correctly. The same would apply in reverse applications packaged on windows 8.1 are best effort support when played back on windows 7.
- Windows 8.1 Modern Applications downloaded from the Microsoft Store do not follow the user from one desktop to another. Due to Microsoft security this is by design so Modern Applications that have been downloaded are not just copied from one OS to another.
- Dell vWorkSpace support has been removed, please contact Dell vWorkSpace Support for the correct version of vWorkSpace that support's ProfileUnity.
- Under rare circumstances, Automatic Console GPO Deployment Creates A Blank GPO
  - Workaround - use the domain administrator account.
- Shortcuts - Pin To Start Menu Module Works Differently in Windows 8.1,2012,2012R2

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## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

*v 6.0.5309, Released July 15<sup>th</sup>, 2014*

### What's New in ProfileUnity 6.0?

#### Trigger Points

ProfileUnity Modules can be triggered on a Trigger Point type instead of only at logon or logoff.

Trigger point types include:

- Interval
- PCoIP Reconnect
- PCoIP Connect
- ICA Connect
- ICA Disconnect
- RDP Connect
- RDP Disconnect
- Desktop Unlock
- Desktop Lock
- IP Address change
- Application Open
- Application Close
- Computer Shutdown

A few typical trigger points could be:

On PCoIP reconnect run the printer's module so when a doctor moves around an hospital they get a new default printer based on location. A 2<sup>nd</sup> example could be when using RDSH/XenApp Published applications you could setup a Portability Restore on application open and Portability Save on Application close. Lastly If you want user settings to be saved more often than logoff you might put portability save on an interval of every hour.

#### Application Restrictions

Deny policy means you can run any process but the processes listed in the deny policy. For example, you might deny a user to run Acrobat Pro because they're not licensed for it. You could also decide you don't want users to be able to run internet explorer as another example.

Allow policy means the user can ONLY run what is allowed, any other processes will be terminated. By default the following processes are allowed:

- ProfileUnity processes
- All system processes
- Processes from c:\Windows and subdirectories
- Processes signed by VMware and signed by Citrix.

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### **Privilege Elevation Enhancements**

Real time secure elevation of applications that need administrative rights. Real time means ProfileUnity is able to see that a process that has been spawned and check with the elevation policy to see if the process is on the approved list for elevation. When a process is elevated it has child process hack protection, if the user try's to spawn a child process from the elevated parent process the child process is de-elevated. For example, you might have an application that was written in house and requires administrative rights to run you don't want to make the user and administrator over the whole desktop but just the application.

Real time installer elevation, in the event on a physical or persistent desktop you want to allow users to install their own applications (nothing to do with FlexApp UIA) without needing full administrative rights over the desktop. You're now able to enable elevation of an installer in many ways; name, manufacture and read only network path are just a few examples.

### **Windows Operating System Support Updated**

- Windows 8.1 support as a Desktop OS
- Windows 8.1 Support for the ProfileUnity Console
- Windows 2012 Support for the ProfileUnity Console
- Windows 2012 R2 support as a Desktop OS
- Windows 2012 R2 RDSH supported

### **Windows 8.1/2012 R2 Full Desktop Start Menu**

With Microsoft removing the full start menu its Liquidware Labs view that this greatly affects user adaption for windows 8.1/2012 R2 from a non-touch device, VDI and RDSH point of view. We have bought our own version of the full start menu back that can be used in two ways, Windows XP style or a windows 7 style.

### **Filter Modifications**

- ICA Client Name
- Service Exists
- Service Running
- Directory 'is not' has been added, can be related to if a directory does not exist the filter would be true.
- File 'is not' has been added, can be related to if a file does not exist the filter would be true.
- Registry Value Exists has been added, can be related to if a Registry Name exists 1<sup>st</sup> column on the right hand side of the Registry. Value would be the name of the Registry Name NOT the data itself.
- Registry Key Exists has been added, can be related to if a Registry Key exists. Key would be the tree node in the Registry on the left.
- Filter option added system event Logon / Logoff and Trigger Points. A filter can now be true or false based on Logon / Logoff or Trigger Points. This allow control over if the module should run at Logon / Logoff only, Logon / Logoff and Trigger Points or only on Trigger Points.

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### Filters That Now Support IP Range

Example Value: 192.168.1.1-192.168.1.10 Returns true if the client machine has IP Address within the range of 192.168.1.1 through 192.168.1.10.

- IP address
- View Client IP address
- ICA Client Address

### Other New Features and Changes

- Drive Mapping-"Hide Drive" Option is to hide drive
- User Defined scripts follow the require group membership for execution under main
- Option to remove all shortcuts in shortcut location
- Option to create shortcuts in all users' desktop and all users start menu
- Windows 7/2008 R2/8.1/2012 R2 Templates now use LwL.ProfileUnity.Client.Startup.exe for client deployment.
- Windows 7/2008 R2/8.1/2012 R2 Templates now use LwL.ProfileUnity.Client.Logoff.exe for client deployment.
- ProfileUnity now caches Printer Server based printers metadata to greatly reduce connection time of many printers or printers from remote print servers. However when running a non-persistent environment there will be a delay in when the printer will become available to the user if the print drivers are not installed the base OS and have to be downloaded from the print server.
- XenDesktop Citrix Printer management service is now stopped and started when printers are laid back down to the OS to be compatible with user added printers and admin assigned printers.
- All ProfileUnity Services now write their logs to Windows\temp\ProfileUnity.
- All ProfileUnity user processes that have logging now write to the user's %temp%\ProfileUnity.

### Resolved Issues

- When browsing active directory from filters only 1000's objects were shown this limit was raised to 15,000.
- System.Memory.Exception Thrown When Importing Larger Database.
- Filters Are Created In The INI With The Post-Windows 2000 Group Name.
- If a directory does not exist and the portability rule is replace don't delete just write down files.
- Portability engine is no longer dependent on .Net 3.5, it is now forward compatible with .Net 4.0 or 4.5.
- When packaging an MSI you needed to type in system32\msiexec.exe /I <path to .msi> this is no longer required.
- FlexApp UIA user uninstall of applications has been resolved.
- Execution of 7z.exe in some secure environments when signed by Liquidware Labs, Inc. had an execution error, Liquidware Labs, Inc signing has been removed.
- Portability engine now used 7za.exe to avoid the need for 7z.exe to load a DLL, some environments have had issues loading the DLL.
- All ProfileUnity Services are quoted when installed to avoid a windows security vulnerability.

COMPONENT VERSIONS	
Component	6.0
Console/UI	6.0.5309
Client	6.0.421
Client.NET	6.0.5305
LWL UIA Player	1.1.4224.423
LWL UIA Service	1.1.4230.554
LWL Elevation Service	1.1.4230.594
LWL Profile Service	5.2.0.1
FlexApp Packaging Console	6.0.5296
LWL FPC Player	1.1.4224.423

## Upgrade and Update Notes

- When upgrading from ProfileUnity 4.8.1-5.2 to 5.5x, please use this document as your guide
  - <http://www.liquidwarelabs.com/content/pdf/documents/support/Liquidware-Labs-ProfileUnity-Upgrade-Guide>
- When updating a prior version of ProfileUnity 5.5.xxxx, please use this process for updating.
  - <http://www.liquidwarelabs.com/content/pdf/documents/support/Liquidware-Labs-ProfileUnity-Installation-Guide>
- This ProfileUnity release affects the ProfileUnity management console, ini file, Client.exe files, FlexApp UIA/DIA and the FlexApp packaging console, all components must be upgraded at the same time.

## Known Issues and Limitations

- Non-English APAC Windows 7 and windows XP is not supported; you must use ProfileUnity 5.0 Double byte.
- The use of \* in Privilege Elevation is no longer supported, to resolve this for FlexApp UIA you would put in the Path Contains [\\server\share\%username%](#) and %userprofile%, This will auto approve anything trying to be installed from the user home share and profile path, for example Downloads, My Documents, Desktop
- Files that have more than 260 characters are not processed by the portability engine.
- Applications packaged on Windows 7 played back on windows 8.1 is best effort. With all the changes made to windows 8.1 application vendors have had to make many change to their



applications to make them compatible with windows 8.1 we can ensure applications will run correctly. The same would apply in reverse applications packaged on windows 8.1 are best effort support when played back on windows 7.

- Windows 8.1 Modern Applications downloaded from the Microsoft Store do not follow the user from one desktop to another. Due to Microsoft security this is by design so Modern Applications that have been downloaded are not just copied from one OS to another.
- Dell vWorkSpace support has been removed, please contact Dell vWorkSpace Support for the correct version of vWorkSpace that support's ProfileUnity.
- Under rare circumstances, Automatic Console GPO Deployment Creates A Blank GPO
  - Workaround - use the domain administrator account.
- Shortcuts - Pin To Start Menu Module Works Differently in Windows 8.1,2012,2012R2
- Shortcuts - Icon File does not work for shell shortcuts in Windows 8.1,2012,2012R2
- Shortcuts - Shortcut containing a path with a space AND Going to a Drive Other Than C:\ Is Not Created Correctly
- Virtual Disk - Disk Is Always Gets Created With A Label Of "FlexApp"
- ThinApp - Apps In Directory Are Not Registering When '\*.exe' Is Used
  - Workaround - use \*
- Logging-Bailout Errors Appear In Event Viewer During/After Boot
- Elevated Apps Pop-under Open Windows When Opened
- UIA Desktop Shortcut Is Not Refreshed/Functional After Initial Install (8.1 Only)
  - Workaround - Logout of the desktop then log back in.
- System Notification Entries for Elevation and Application Restrictions Are Not Cleared Automatically On Persistent Desktops
  - Workaround - On Logout/Login the System Notification Entries are cleared.
- Windows 8.1 mapped drive need to be mapped to the root of the share and not subdirectories. See MS [KB2878604](#)

## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

*v 5.7.5158, Released February 18<sup>th</sup>, 2014*

### What's New?

#### Client

- Specified User ID/Password for printer job types was not saved.
- Default printer is not retained across sequential logins.
- Missing printers after login
- When trying to set a default printer, a user receives a 0x00000709 error.
- Portability files are not restored and removed when toggling legacy mode with a true and false filter in place.
- INIs in the NETLOGON directory were sometimes processed without input parameters.
- Packaging a FlexApp UIA package on a 64-bit machine did not complete successfully.
- Packaging more than one FlexApp DIA package where VHD mounting had to retry could result in duplicate UIDs and prevent VHDs from being mounted.

#### Known Issues

- <https://liquidwarelabs.zendesk.com/entries/38250438-Non-Domain-Admins-logging-in-to-ProfileUnity-Console-receive-Unknown-error-0x80005000->
- <https://liquidwarelabs.zendesk.com/entries/38194243-When-Logging-in-to-ProfileUnity-console-some-users-receive-User-was-denied-access->

## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

*v 5.7.5129, Released January 17<sup>th</sup>, 2014*

### What's New?

#### Client

- Archives deleted when filter is false
- Internal .reg writer creating invalid 3rd party appdata archives
- UAC popup for printers.reg upon login
- Multiple INI's with new portability engine would cause archives to be removed
- A "." in the folder path not being saved
- Files with no specified extension not being saved
- Folder re-direction copy on Windows 7

#### Known Issues

- <https://liquidwarelabs.zendesk.com/entries/38266323-Portability-files-are-not-restored-and-removed-when-switching-legacy-mode-with-machine-filter->
- <https://liquidwarelabs.zendesk.com/entries/38250438-Non-Domain-Admins-logging-in-to-ProfileUnity-Console-receive-Unknown-error-0x80005000->
- <https://liquidwarelabs.zendesk.com/entries/38194243-When-Logging-in-to-ProfileUnity-console-some-users-receive-User-was-denied-access->

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## ProfileUnity™ and ProfileUnity FlexApp™

### Change Log/Release Notes

*v 5.7.5093, Released December 12<sup>th</sup>, 2013*

### What's New?

#### Web Console

- Browse Shortcut links for importing many shortcuts, this also stream lines the shortcut creation process.
- Browse .reg Files for importing
- Browse Groups, Users and OU's in filters
- Option to Process mapped drives post login
- Option to Process Printers post login
- Export added back for inventory
- Templates now have ODBC on by default
- Filter added for windows 8.1 and windows 2012 R2

#### FlexApp Packaging Console

No changes

#### Client

- Logins and logoff's could be 2x – 10x faster by doing the following
  - Changing to faster archive format
  - Changing most if not all of your mapped drives to be processed post login
  - Changing your printers to be processed post login
- FlexApp DIA VHD processing is done post login
- FlexApp DIA / UIA now supports 2008 R2 Server as a desktop (still not supporting RDSH/TSE)
- Elevation is installed and now supports 2008 R2 Server as a desktop
- Elevation is installed and now supports 2008 R2 Server RDSH/TSE
- ProfileUnity installs on 8.1/2012 R2 now but is limited support
- If .net 3.5 is not installed older portability engine runs, performance equal to 5.6 and older product
- Windows Server 2008 R2 .Net 3.5 is enabled from within startup.vbs.
- Windows XP and windows 2008 non-R2 is hard coded to run older portability engine.
- Windows 8/8.1, Windows Server 2012/R2 the older portability engine runs until .net 3.5 is enabled
- When FIPS is enabled the new portability engine will switch to SH-1 instead of MD5.
- The new portability engine will output a portability duration time log to %temp% even in fatal mode
- Switching between portability archive types smaller, faster, no compression, legacy mode on or off is fully supported

- Portability logging is visible in the users %temp% by enabling debug in \Program files\ProfileUnity\client.net\LwL.ProfileUnity.Client.exe.config

### Issues Resolved

- ProfileUnity console Login issue when upgrading to 5.6 is now resolved in 5.7.
- Importing printers list is cut short is resolved
- Nested group for licensing is resolved
- User printer options now persist from one logon to another
- Processing the virtual disk module and DIA in to different ini's is now resolved
- In some cases a random printer could be dropped from connecting, retry logic was added to help correct this.

### Upgrade and Update Notes

- When upgrading from ProfileUnity 4.8.1-5.2 to 5.5x, please use this document as your guide
  - <http://www.liquidwarelabs.com/docs/ProfileUnity.Upgrade.Guide.pdf>
- When updating a prior version of ProfileUnity 5.5.xxxx, please use this process for updating.
  - <http://www.liquidwarelabs.com/docs/ProfileUnity.Installation.Guide.pdf> (pages 52-53)
- This ProfileUnity release affects the ProfileUnity management console, ini file, Client.exe files, FlexApp UIA/DIA and the FlexApp packaging console, all components must be upgraded at the same time.

### Known Issues and Limitations

- Non-English APAC Windows 7 and windows XP is not supported; you must use ProfileUnity 5.0 Double byte.
- Server 2012 is not yet supported for the ProfileUnity 5.5-5.6 Mgmt. Console.
- Windows 8/8.1, 2012/R2 is in limited support mode as a desktop client.

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## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

*v 5.6.2756, Released August 20<sup>th</sup>, 2013*

### What's New?

- Deployment Templates (templates all include most of what a user would need for their persona out of the box) example configurations:
  - Windows 7, New VDI & Physical install
  - Windows 7 & XP, Local Profile, Roaming Profile, VPM and UPM migration into ProU
  - Windows XP migration to Windows 7
  - Windows XP and Windows 7 coexistence
  - 2008 Published Desktop
  - 2008 Published App
  - Better OU Display in Guided configuration for larger organizations with sub OU's with the same name
- Feature request area built into the product under, The Upper Right > logged in user > about > Have a suggestion?
- Save and Restore only once for Portability
  - Support for Save and Restore only once is mainly used when migrating one time or when performing a read only migration.
- Added Filters for more flexibility
  - Registry Key filter
  - File filter
  - Directory filter
- Message popup when DIA is configured but not licensed
- Dell vWorkspace Support added
- Dell Kace support added
- Added Shell folder Support for Portability and Folder Redirection
  - Nethood, PrintHood, Templates, Links, contacts, Searches, Roaming Titles, Libraries
- Faster VHD mount times for virtual disks, DIA & UIA
- FlexApp DIA Package pre and post playback script support
  - While creating a package in the FlexApp packaging console you can now point to a script that would be include into the package to execute per or post package playback.
- FlexApp UIA uninstall support for non-admin users.
- FlexApp UIA Elevation support for installers where only the user has access to the UNC path not system.
- Sync only Newer files
  - When synchronizing more than one computer to same target path now only the newest files will be copied to the target path.
- Sync only Local Shell folders for Folder redirection and Portability

- This feature stops the overlap saving and restore of shell folders that are already redirected to the network, this applies to folder redirection as well.
- FlexApp DIA, only playback apps when capture OS and desktop bit level match
- FlexApp Packaging console now allows cloning of package that is in use
- Export-Backup/import Features added
  - Configurations
  - Templates
  - Filters
  - Portability
- Mass Printer import support
  - Administrators can now browse the print server for shared printers instead of typing in each printer by hand.
- FlexApp UIA and DIA Fixes in this release
  - Support for sharing top level directory. For example: Your 1<sup>st</sup> app is captured into C:\program files\Adobe\Acrobat and if C:\program files\Adobe is a directory or symlink your app will playback as a symlink under C:\program files\Adobe\Acrobat instead of failing because C:\program files\Adobe already exists.
- ProfileUnity Client.exe Defects Fixed in this release
  - Default printer not persisting for some clients
  - Windows 2008 32 bit RDS issue resolved
  - ThinApp ini issue formatting issue resolved
  - Windows XP 64 Bit Support Resolved
  - Configuration processing is done out of order when configuration files are hosted on a Linux Share.
  - Option to disable theme refresh in RunOnce needed for some persistent desktops
    - Create Key: HKCU\Software\Liquidware Labs\ProfileUnity
    - Name:DisableFeature Type:REG\_SZ Data:1

### Upgrade and Update Notes

- When upgrading from ProfileUnity 4.8.1-5.2 to 5.5x, please use this document as your guide
  - <http://www.liquidwarelabs.com/docs/ProfileUnity.Upgrade.Guide.pdf>
- When updating a prior version of ProfileUnity 5.5.xxxx, please use this process for updating.
  - <http://www.liquidwarelabs.com/docs/ProfileUnity.Installation.Guide.pdf> (pages 52-53)
- This ProfileUnity release affects the ProU management console, ini file, Client.exe files, FlexApp UIA/DIA and the FlexApp packaging console, all components must be upgraded at the same time.

### Known Issues and Limitations

- Non-English APAC Windows 7 and windows XP is not supported; you must use ProfileUnity 5.0 Double byte.
- Server 2012 is not yet supported for the ProfileUnity 5.5-5.6 Mgmt. Consoles.
- Server 2012 is not yet supported as a desktop client.

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- Windows 8 is not supported as a desktop client.

## ProfileUnity™ and ProfileUnity FlexApp™

### Change Log/Release Notes

*v 5.5.2111, Released April 17<sup>th</sup>, 2013*

#### What's New?

- ProfileUnity .Net Console now supports EMEA non-English Windows 2008 R2 (supported as of 5.5.1818)
- ProfileUnity Client now supports EMEA non-English Windows 7 (supported as of 5.5.1818)
- ProfileUnity Client now supports EMEA non-English Windows XP
- FlexApp Packaging Console/DIA now supports EMEA non-English Windows 7 non-persistent
- FlexApp Packaging Console only allows one instance of the app to be run at a time
- FlexApp Packaging Console added extend and configure buttons for create, extend, and configure forms
  - When creating a package you can create the package then extend or configure as many times as you need without reverse play occurring, this will help with application compatibility.
- FlexApp Packaging Console changed lwl\_userapp.xml updated it to include `<installer path="ose00000.exe" capture="0" /><installer path="idriver.exe" capture="1" />`
  - ose00000.exe was added to support Office 2010 captures when you have the App-V office 2010 fix for licensing in the base image pointing to KMS.
  - idriver.exe was added to support Pervasive SQL and other installers.
- FlexApp Packaging Console added version info to logging
- FlexApp Packaging Console made package optimize configurable via xml config file
  - In the event optimize gets stuck in a loop you can disable optimize.
- FlexApp Packaging Console added reboot pending check
  - You cannot package if you have a pending reboot, the console will stop you until the console is rebooted.
- FlexApp Packaging Console highlights active package in package list, made package name red when active
  - It's clearer what package is active and locked for editing.
- FlexApp Packaging Console allows .MSI's (in addition to .exe's) for package creation
- FlexApp Packaging Console changed active package message to `<name> is currently locked for editing`
- FlexApp Packaging Console you can no longer edit a package that is assigned to a rule in ProU.
  - To edit a package it cannot be assigned to an active rule, you must 1<sup>st</sup> remove the package from a rule to allow editing.
- FlexApp Packaging Console installer must ask for admin rights to install



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## Issues Resolved

### ProfileUnity Console Defects Fixes in this Release

- PROUDOTNET-235 Tool tip should show for the module settings fields which exceeds the actual display size
- PROUDOTNET-246 Message Box,Application launcher - Tracking path remains in the INI even the corresponding field is disabled
- PROUDOTNET-245 Messagebox,Application launcher - Schedule - Weekly on,Monthly on day - Settings are not persistent in the Edit page
- PROUDOTNET-244 Inventory - Scroll bar is required When the list of items exceeds actual size
- PROUDOTNET-247 Message box\Application launcher - Schedule -> Specific date value gets changed in the INI
- PROUDOTNET-242 Default portability Ruleset allows duplication
- PROUDOTNET-237 Setting compression values doesn't update ini correctly and only default works
- PROUDOTNET-250 Main,User defined alias and RDP client - Disabled Fields values are reflected in to INI
- PROUDOTNET-251 Windows options - Alert message is required for the Wallpaper field
- PROUDOTNET-249 Shortcuts - Pinned item location field is missing in the INI
- PROUDOTNET-178 Guided configuration - Command Buttons has no response when hit enter key
- PROUDOTNET-256 Portability settings will not print out if you the action is set to "Restore"

### FlexApp Packaging Console Defects Fixes in this Release

- Fixed bug with deleted items not being removed from main list
- Fixed package size showing as negative number
- Packages created in advanced mode were not appearing in the main list until refresh was clicked

### ProfileUnity Client.exe Defects Fixed in this Release

- .7z files get copied down, even when portability settings are save only

## Upgrade and Update Notes

- When upgrading from ProfileUnity 4.8.1-5.2 to 5.5x, please use this document as your guide
  - <http://www.liquidwarelabs.com/docs/ProfileUnity.Upgrade.Guide.pdf>
- When updating a prior version of ProfileUnity 5.5.xxxx, please use this process for updating.
  - <http://www.liquidwarelabs.com/docs/ProfileUnity.Installation.Guide.pdf> (pages 52-53)
- This ProfileUnity release affects the ProU management console, ini file, Client.exe files, FlexApp UIA/DIA and the FlexApp packaging console, all components must be upgraded at the same time.

## Known Issues and Limitations

- Non-English APAC Windows 7 and windows XP is not supported; you must use ProfileUnity 5.0 Double byte.

- Server 2012 is not yet supported for the ProfileUnity 5.5 Mgmt. Console.
- Server 2012 is not yet supported as a desktop client.
- Windows 8 is not supported as a desktop client.

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## ProfileUnity™ and ProfileUnity FlexApp™ Change Log/Release Notes

*v 5.5.1818, Released March 4<sup>th</sup>, 2013*

### Defects Fixes in this Release

- PROUDOTNET-201 Not outputting correct path for Portability Rulesets that use HKLM
- PROUDOTNET-205 Imported portability rules are missing actions
- PROUDOTNET-206 Imported ProU backup from Hub will have broken file path for Portability
- PROUDOTNET-207 Importer "wipe database before running" doesn't work
- PROUDOTNET-209 When configure Guided configuration with server path as \\server\share\%username% it create the path as \\server\share\%useranme%\Portability
- PROUDOTNET-212 Filter Settings: Imported Filter settings upgraded from 5.2 to 5.5 does not reflect/Work in ProU 5.5
- PROUDOTNET-216 Application Launcher seems to miss escape character in ini
- PROUDOTNET-219 Profile Cleanup - When everyday schedule is selected it cleans up user's profile contents at every log off.
- PROUDOTNET-220 Filter management - Configuration with Custom function filter enabled is not executed
- PROUDOTNET-221 When FIPS is enabled, unable to login in ProU 5.5
- PROUDOTNET-218 Unable to install ProU Console on Windows 2008 R2 german

### Upgrade and Update Notes

- When upgrading from ProfileUnity 4.8.1-5.2 to 5.5x, please use this document as your guide
  - <http://www.liquidwarelabs.com/docs/ProfileUnity.Upgrade.Guide.pdf>
- When updating a prior version of ProfileUnity 5.5.xxxx, please use this process for updating your 5.5.1607 and 5.5.1637 installations to 5.5.1818.
  - <http://www.liquidwarelabs.com/docs/ProfileUnity.Installation.Guide.pdf> (pages 52-53)
- This ProfileUnity update only affects the ProU management console, there are no updates to the client.exe files, FlexApp UIA/DIA or the FlexApp packaging console. However once your console has been updated you will need to download your ini files again to repair any defects that you were affected by.

### Known Issues and Limitations

- Non-English EMEA Windows 7, is not supported for FlexApp DIA: Fix pending release, late March 2013.
- Non-English EMEA Windows XP, is not supported as desktop client; you must use ProfileUnity 5.0 Double byte: Fix pending release, late March 2013.
- Non-English APAC Windows, 7 and windows XP is not supported; you must use ProfileUnity 5.0 Double byte.
- Server 2012 is not yet supported for the ProfileUnity 5.5 Mgmt. Console.

- Server 2012 is not yet supported as a desktop client.
- Windows 8 is not supported as a desktop client.
- On upgrade from older versions of ProfileUnity, UIA drive letter changes to A: Drive: Change this drive letter back before downloading your ini.

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## ProfileUnity™ and ProfileUnity FlexApp™ v5.5.1637 Change Log/Release Notes

*v 5.5.1637, Released January 29<sup>th</sup>, 2013*

### What's New?

- ProfileUnity 5.5 has a fresh new UI and management platform.
  - The ProfileUnity Interface is now HTML 5 so it can function with a number of HTML 5 compatible browsers.
  - Build on the .Net framework to development new windows integrated features quickly into the management platform
- New AD deployment automation
  - When setting up ProfileUnity 5.5 you can decide to do automation, this will automatically create the needed ProfileUnity GPO's on the OU of your choice.
  - Selecting a user group from this automation will also force ProfileUnity to change the group member ship for ProfileUnity Licensing on deployment as well.
- Guided configuration, this new version can also create a guided configuration that provides a streaming profile that covers 85%-90% of what most customers need from a UV solution. Customers can build from this guided configuration base for things they might need to add to their deployment.
- FlexApp DIA, Departmental applications was added to this release. Built off the base technology of User installed applications. DIA allows administrators to package applications with a simple easy to use FlexApp Packaging console. FlexApp DIA allows many users to share the same application without all the compatibility issues or your standard application virtualization software. This feature set is available in the advanced version of ProfileUnity named ProfileUnity FlexApp.
- VHD Provisioning was added as a feature, so the administration could provision VHD storage for any application or application settings that might need to be centralized on the network but need the network layer abstracted from the application.
- Profile Cleanup is a feature where the local cache copy of a profile that is used by ProfileUnity can be cleaned up, the main use for this is XenApp and or Terminal Server.
- ProfileUnity is no longer offered in the Stratusphere Virtual Appliance. It's only offered in the Standalone version.

### Known Issues and Limitations

- Non-English Windows 7 is not yet supported for FlexApp DIA.
- Non-English 2008 Server is not yet supported for the ProfileUnity 5.5 Mgmt. Console.
- Server 2012 is not yet supported for the ProfileUnity 5.5 Mgmt. Console.
- Server 2012 is not yet supported as a desktop client.
- Windows 8 is not supported as desktop clients.

- Non-English Windows XP is not supported as desktop client; you must use ProfileUnity 5.0 Double byte.

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