



**Stratusphere™ FIT &
Stratusphere™ UX**

Upgrade Instructions

Introduction

This guide has been authored by experts at Liquidware to provide information and guidance concerning the upgrade procedures of Stratusphere™ FIT and Stratusphere™ UX appliances for version 6.0.0 and higher.

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Overview

This document is meant for Stratusphere Administrators who need to perform an upgrade of their existing Stratusphere 6.0 to the latest version of 6.x. Prior versions of Stratusphere appliances cannot be upgraded through the Web UI to the latest 6.x version due to underlying operating system related upgrades.

The existing 5.8.5 or higher version CID Keys and Network Stations already deployed will continue to function and upload data to the new Stratusphere 6.x appliances. The CID Keys, in turn, could be configured to auto-upgrade themselves to the 6.x version through a simple configuration option within the Administration Web UI. The 5.8.5 or higher Network Stations cannot be upgraded to 6.x Collectors but are still compatible with Stratusphere 6.x Hubs and can be replaced in a phased manner. New Stratusphere Collector appliances would have to be deployed to take advantage of the highly scalable architecture of Stratusphere 6.x.

Depending on whether your Stratusphere appliances have direct access to the Internet or not, Liquidware Labs provides 2 options:

1. Online Upgrades: If your appliances have direct access to the Internet use the instructions in the [Upgrading online Stratusphere appliances](#) section.
2. Offline Upgrades: If your appliance is in a secure, air-gapped environment with no direct access to the Internet, use the instructions in the [Upgrading offline Stratusphere appliances](#) section. From a computer that has access to the Internet, you will need to download a single upgrade image file first, then upload it to the Stratusphere Hub appliance using the Web UI within the **ADMINISTRATION** section under the **HUB ADMINISTRATION > UPGRADES** tab.

Please refer to the order in which appliances need to be upgraded below as well. If you encounter any errors, use the [Troubleshooting](#) section at the end of this release section.

Order of Upgrading Stratusphere Appliances

Beginning with Stratusphere 6.0, the high-level process for upgrades is as follows:

1. The user stops services on all existing Stratusphere 6.x CID Key Collectors through each Collector appliance command line console.
2. The user navigates to the **HUB ADMINISTRATION > UPGRADES** tab within the **ADMINISTRATION** section within the Web UI or login to the Hub Console. Once logged in, the user initiates an upgrade that automatically does the following:
 - a. Halts all services on the Hub,
 - b. If there is a separate Database appliance attached:
 - i. Upgrades the database appliance
 - ii. Reboots it.
 - c. The Hub then upgrades and reboots itself in an automated operation.
2. The user then needs to upgrade the Collector Appliances using the command line console. The Collectors will reboot themselves once upgraded.

It must be noted that Liquidware considers legacy 5.8.x Network Stations to be disposable appliances. In any event, when you want to replace legacy Network Stations with 6.x Collector appliance, OR where some Collectors don't upgrade, they can be powered off, then deleted from the Web UI, and a brand-new 6.x Collector appliance can be downloaded and installed in its place with the same IP Address, hostname, and DNS names. Please make sure the legacy Network Station is deleted from the Web UI, prior to trying to add a replacement 6.x Collector with the same network configuration and host name back to the Stratusphere installation.

Upgrading Online Stratusphere Appliances

Preparation

1. This online upgrade section applies specifically to Stratusphere appliances running **6.0.3 and higher ONLY**. Please use the [Offline Upgrade](#) section if you are still on 6.0.0 – 6.0.2. If your appliances are on an earlier version like 5.8.x, please refer to the [Migrating from 5.8.5 or Higher to 6.0 Appliances](#) documentation. Apply the following instructions on each **6.0.3 and higher** appliance in order.
2. Please acquire administrative credentials to the Stratusphere Web UI, Hub, and Database consoles for the 'friend' and 'root' superuser accounts.
3. **Liquidware strongly recommends using the online [Stratusphere Sizing Guide](#) to resize your Stratusphere appliances appropriately and prevent any chances of data loss.**
4. Power down all your Stratusphere appliances (Hub, Database, and Collectors).
5. Edit the appliance settings for each appliance and update them based on the Stratusphere Sizing Guide recommendations.
6. Due to recently published vulnerabilities such as *Spectre & Meltdown*, VMware recommends upgrading the virtual machine hardware version to the latest available version supported by your vSphere infrastructure. When the Stratusphere appliances have been powered down, please upgrade their virtual machine hardware versions to 10 or higher, as supported by the vSphere infrastructure. Here is a [KB article](#) from VMware for upgrading virtual machine hardware versions.
7. **Take a snapshot of the Hub and Database appliances.**
8. Now, power up your Stratusphere Hub and Database appliances. Leave the Collectors powered OFF.
9. Liquidware recommends keeping the local appliance consoles of the Stratusphere Hub, Database, and Collector open during the upgrade process. It is helpful because the user can observe the upgrade status, reboot activity, and uptime on the console status screens.

Download Update

- Log into the Administration section of the Stratusphere Hub Web UI.
 - Navigate to the **HUB ADMINISTRATION > UPGRADES** tab.
 - If your Stratusphere Hub has access to the Internet, it should auto select the **ONLINE** tab. If there are no upgrades available, it will display a message **"THERE ARE NO UPGRADES AVAILABLE."** If no upgrades are available, you may need to wait for about 24 hours for the Hub to check for upgrades. Alternatively, you can choose the [Offline upgrade](#) option.
 - If there is an upgrade available, it will display a message **"AN UPDATE (6.x.x) IS AVAILABLE FOR DOWNLOAD."** Click the **DOWNLOAD UPDATE** button to download the upgrade image within the Stratusphere Hub.
 - The UI will display a blue progress bar with the message **"DOWNLOAD IN PROGRESS (THIS MAY TAKE SEVERAL MINUTES)"**. The upgrade image file is about ~1.1GB so depending on your connection, it may take some time to finish downloading.
 - Once downloaded, the UI should display a green status bar at the top of the page with the message **"DOWNLOAD COMPLETED SUCCESSFULLY"**.

Update Hub

- From the **HUB ADMINISTRATION > UPGRADES** tab in the **ADMINISTRATION** section of the Stratusphere Hub Web UI:
 - Click the **INSTALL UPDATE** button to now install the 6.x.x upgrade on the Stratusphere Hub. The UI will display a green progress bar with the message “**INSTALL IN PROGRESS (THIS MAY TAKE SEVERAL MINUTES)**”. The update is being installed now.
 - **Update Database:** If this installation of Stratusphere has a Database Appliance attached with default password (`sspassword`) for the `friend` and `root` users, the Hub will automatically upgrade the Database Appliance to 6.x.x and reboot it as well.

Note: If **ENHANCED SECURITY** is enabled or the default passwords have been changed due to security protocols and/or best practices, please jump to the [Hub upgraded but the Database is still showing older version](#) section of troubleshooting to upgrade the Database through the console-based upgrade process.
 - The Hub will upgrade itself and reboot.
- On starting the upgrade, all services on the appliance are turned off. The UI will display the following message “**STRATUSPHERE IS BEING UPGRADED AFTER WHICH THE HUB WILL BE REBOOTED. YOU WILL BE LOGGED OUT IN 10 SECONDS. PLEASE WAIT AT LEAST 15 MINUTES TO LOG BACK IN.**” The user will be logged out of the Web UI automatically. Once the services are unavailable, a generic “**STRATUSPHERE IS DOWN**” message will be display. After the upgrade and subsequent reboot, when all services are available again, this generic message automatically goes away, and the Stratusphere Web UI’s Login page is displayed again.
- **PLEASE DO NOT MANUALLY REBOOT THE APPLIANCE.** Please observe the appliance console windows and wait for the appliance to reboot on its own before trying to refresh the Stratusphere Web UI Login page as the appliance reboots itself.
- Refresh the Login page of the Web UI and verify if the Hub displays the latest version “**VERSION: 6.x.x**” on the left in the bottom blue ribbon. Use a hard refresh within your browser (example: `SHIFT+F5` in Chrome) to fetch the latest version of the page instead of the cached version.
- Log into the **Stratusphere FIT or Stratusphere UX** section of the Stratusphere Hub Web UI.
 - Check the Web UI for standard functionality.
 - Navigate through the various Advanced tabs.
 - Navigate to any other tabs you use the most to ensure full functionality.

Update Collectors

- Skip this section if there are no Collectors installed.
- If you have any Collector appliances, power them all up now.

Note: If **Enhanced Security** is enabled or the default passwords have been changed due to security protocols and/or best practices, the Collectors may fail to upgrade themselves through the UI. Please jump to the [Collectors did not upgrade through the UI, still showing the old version](#) section of troubleshooting, to upgrade the Collectors through the console-based upgrade process.
- Ensure the Collectors are all powered ON.
- Log into the **ADMINISTRATION** section of the Stratusphere Hub Web UI.
- Navigate to the **COLLECTOR ADMINISTRATION > COLLECTORS** tab.
- Make sure the Collectors are communicating with the Hub by selecting one of them and clicking the **VIEW PROPERTIES** button. Wait for the latest **STATUS** to refresh on the Collectors. Navigate back to **COLLECTOR ADMINISTRATION > COLLECTORS** tab.
- Select the Collectors you want to upgrade from the list (one or all) and click the **UPGRADE** button. The Hub will contact each selected Collector and ask them to update themselves with the newly uploaded upgrade image.

- Once a Collector begins the upgrade process, it will display “**UPGRADES RUNNING**” within the opened Collectors consoles. Once the upgrades are complete, it will display a new version on the top of the console Status screen. Depending on the type of update, the Collectors may reboot. On reboot, wait for all the services to start.
- Within the **COLLECTOR ADMINISTRATION > COLLECTORS** tab, refresh the list of Collectors and verify if each Collector is now at expected 6.x.x version.

Validate & Complete Update

- Before completing the upgrade and removing the snapshots, Liquidware recommends:
 - Waiting for a few hours to ensure that the CID Keys round-robin through their list of Collectors
 - New data is being collected and saved within the database
 - New data is visible within the Web UI.
 - On verification that the installation has upgraded and is working properly, please remove the snapshots on the Stratusphere appliances.
- Upgrade is now complete.

Note: VMware vSphere Virtual Machine Hardware Version

Based on some recently published vulnerabilities, VMware has recommended using higher virtual machine hardware versions. Please make sure to upgrade the Stratusphere appliance virtual machine hardware version to at least 10 and higher as supported by your infrastructure. Please reference this [Knowledge Base article](#) from VMware for additional information on how to upgrade virtual machine hardware versions.

Upgrading Offline or Firewall Isolated Stratusphere Appliances

Preparation

1. The following section applies specifically to Stratusphere appliances running **6.0.0 and higher ONLY**. If your appliances are on an earlier version like 5.8.x, please refer to the [Migrating from 5.8.5 or Higher to 6.0 Appliances](#) documentation. Apply the following instructions on each **6.0.0 and higher** appliance in order.
2. Please acquire administrative credentials to the Stratusphere Web UI, Hub, and Database consoles for the 'friend' and 'root' superuser accounts.
3. On a local desktop with access to the Internet, please download the Stratusphere upgrade image by clicking on the following link:
 - a. <http://download.liquidwarelabs.com/stratusphere/releases/stratusphere-6.1.1.img> file.
4. **Liquidware strongly recommends using the online [Stratusphere Sizing Guide](#) to resize your Stratusphere appliances appropriately and prevent any chances of data loss.**
5. Power down all your Stratusphere appliances (Hub, Database, and Collectors).
6. Edit the appliance settings for each appliance and update them based on the Stratusphere Sizing Guide recommendations.
7. Due to recently published vulnerabilities such as *Spectre & Meltdown*, VMware recommends upgrading the virtual machine hardware version to the latest available version supported by your vSphere infrastructure. When the Stratusphere appliances have been powered down, please upgrade their virtual machine hardware versions to 10 or higher, as supported by the vSphere infrastructure. Here is a [KB article](#) from VMware for upgrading virtual machine hardware versions.
8. **Take a snapshot of the Hub and Database appliances.**
9. Now, power up your Stratusphere Hub and Database appliances. Leave the Collectors powered OFF.
10. Liquidware recommends keeping the local appliance consoles of the Stratusphere Hub, Database, and Collector open during the upgrade process. It is helpful because the user can observe the upgrade status, reboot activity, and uptime on the console status screens.

Upload Update

- Log into the **ADMINISTRATION** section of the Stratusphere Hub Web UI.
 - Navigate to the **HUB ADMINISTRATION > UPGRADES** tab.
 - If your Stratusphere Hub is isolated from the Internet within a secure, air-gapped environment the Hub is in offline mode. It will display a page with a BROWSE or CHOOSE FILE button depending on your browser. Click the BROWSE or CHOOSE FILE button to navigate to the location where the `stratusphere_6.x.x.img` file is stored, select it, and open it.
 - Click on the **UPLOAD UPDATE** button. On clicking, a blue progress bar with the message "**UPLOAD IN PROGRESS (THIS MAY TAKE SEVERAL MINUTES)**" will be displayed. The upgrade image is now being uploaded to the Hub. This is a ~1.1GB file, so depending your network connection it will take some time to upload this large file.
 - Once finished uploading, a green progress bar with the message "**DOWNLOAD COMPLETED. VERIFYING IMAGE.**" will be displayed. Here the Hub is verifying the integrity of image file uploaded. Once verified, it will display "**UPLOAD COMPLETED SUCCESSFULLY**" at the top of the page.

Update Hub

- From the **HUB ADMINISTRATION > UPGRADES** tab in the **ADMINISTRATION** section of the Stratusphere Hub Web UI:
 - Click the **INSTALL UPDATE** button to now install the 6.x.x upgrade on the Stratusphere Hub. The UI will display a green progress bar with the message “**INSTALL IN PROGRESS (THIS MAY TAKE SEVERAL MINUTES)**”. The update is being installed now.
 - Update Database: If this installation of Stratusphere has a Database Appliance attached with default password (`sspassword`) for the `friend` and `root` users, the Hub will automatically upgrade the Database Appliance to 6.x.x and reboot it as well.

Note: If **ENHANCED SECURITY** is enabled or the default passwords have been changed due to security protocols and/or best practices, please jump to the [Hub upgraded but the Database is still showing older version](#) section of troubleshooting to upgrade the Database through the console-based upgrade process.
 - The Hub will upgrade itself and reboot.
- On starting the upgrade, all services on the appliance are turned off. The UI will display the following message “**STRATUSPHERE IS BEING UPGRADED AFTER WHICH THE HUB WILL BE REBOOTED. YOU WILL BE LOGGED OUT IN 10 SECONDS. PLEASE WAIT AT LEAST 15 MINUTES TO LOG BACK IN.**” The user will be logged out of the Web UI automatically. Once the services are unavailable, a generic “**STRATUSPHERE IS DOWN**” message will be display. After the upgrade and subsequent reboot, when all services are available again, this generic message automatically goes away, and the Stratusphere Web UI’s Login page is displayed again.
- **PLEASE DO NOT MANUALLY REBOOT THE APPLIANCE.** Please observe the appliance console windows and wait for the appliance to reboot on its own before trying to refresh the Stratusphere Web UI Login page as the appliance reboots itself.
- Refresh the Login page of the Web UI and verify if the Hub displays the latest version “Version: 6.x.x” on the left in the bottom blue ribbon. Use a hard refresh within your browser (example: **SHIFT+F5** in Chrome) to fetch the latest version of the page instead of the cached version.
- Log into the **Stratusphere FIT or Stratusphere UX** section of the Stratusphere Hub Web UI.
 - Check the Web UI for standard functionality.
 - Navigate through the various Advanced tabs.
 - Navigate to any other tabs you use the most to ensure full functionality.

Update Collectors

- Skip this section if there are no Collectors installed.
- If you have any Collector appliances, power them all up now.

Note: If **Enhanced Security** is enabled or the default passwords have been changed due to security protocols and/or best practices, the Collectors may fail to upgrade themselves through the UI. Please jump to the [Collectors did not upgrade through the UI, still showing the old version](#) section of troubleshooting, to upgrade the Collectors through the console-based upgrade process.
- Ensure the Collectors are all powered ON.
- Log into the **ADMINISTRATION** section of the Stratusphere Hub Web UI.
- Navigate to the **COLLECTOR ADMINISTRATION > COLLECTORS** tab.
- Make sure the Collectors are communicating with the Hub by selecting one of them and clicking the **VIEW PROPERTIES** button. Wait for the latest **STATUS** to refresh on the Collectors. Navigate back to **COLLECTOR ADMINISTRATION > COLLECTORS** tab.
- Select the Collectors you want to upgrade from the list (one or all) and click the **UPGRADE** button. The Hub will contact each selected Collector and ask them to update themselves with the newly uploaded upgrade image.

- Once a Collector begins the upgrade process, it will display “**UPGRADES RUNNING**” within the opened Collectors consoles. Once the upgrades are complete, it will display a new version on the top of the console Status screen. Depending on the type of update, the Collectors may reboot. On reboot, wait for all the services to start.
- Within the **COLLECTOR ADMINISTRATION > COLLECTORS** tab, refresh the list of Collectors and verify if each Collector is now at expected 6.x.x version.

Validate & Complete Update

- Before completing the upgrade and removing the snapshots, Liquidware recommends:
 - Waiting for a few hours to ensure that the CID Keys round-robin through their list of Collectors
 - New data is being collected and saved within the database
 - New data is visible within the Web UI.
 - On verification that the installation has upgraded and is working properly, please remove the snapshots on the Stratusphere appliances.
- Upgrade is now complete.

Note: VMware vSphere Virtual Machine Hardware Version

Based on some recently published vulnerabilities, VMware has recommended using higher virtual machine hardware versions. Please make sure to upgrade the Stratusphere appliance virtual machine hardware version to at least 10 and higher as supported by your infrastructure. Please reference this [Knowledge Base article](#) from VMware for additional information on how to upgrade virtual machine hardware versions.

Troubleshooting

No new data from CID Keys after the upgrade

- Please make sure the Collectors have been upgraded and have rebooted.
- If the Collector appliances did not reboot themselves, please reboot them as we paused their services prior to beginning the update.
- Verify each Collector's version number by logging into the **ADMINISTRATION** section's **COLLECTOR ADMINISTRATION > COLLECTORS** tab.
- If ENHANCED SECURITY was enabled on the Hub and/or the Database appliances, please execute the following on the command line console of the Database appliance:
 - Log into the console using 'friend' and 'sspassword' as default credentials.
 - Switch to the root using 'su -' and 'sspassword' as default credentials.
 - Execute the following command:

```
/opt/tnt/etc/iptables-filter && /sbin/iptables-save -t filter >/etc/sysconfig/iptables
```
 - Log out of the command line console by entering CTRL+D twice.
 - This should allow the Collectors to connect directly into the database again and save data.

SCP fails to log into the appliance

- The Stratusphere appliance is a security hardened appliance. If Enhanced Security is enabled, it has policies whereby passwords will expire after a certain amount of time. An expired password may be preventing the user from logging into the appliance.
- Log into the local command line console and it will prompt you to change and update your password immediately. Once updated, you should be able to use the SCP tool again to upload files to the appliance.

“Please select a file to upload” message while uploading file in offline mode

- The browser may have cached some of the code and thus may not be running the latest version of the page. Please log out of the UI, clear the cache in the browser, and start over. If the problem persists then depending on your browser do the following:
 - In Firefox, right-click anywhere within the yellow warning message bar and choose THIS FRAME -> RELOAD FRAME menu option.
 - In Chrome, right-click anywhere within the yellow warning message bar and choose RELOAD FRAME menu option.
 - In Internet Explorer, right-click anywhere within the yellow warning message bar and choose REFRESH menu option.

Stratusphere Web UI shows update available but fails on online upgrade

- If you are on 6.0.0 or 6.0.1 or 6.0.2, the online upgrade of Stratusphere will fail. You must be on 6.0.3 or higher to use online upgrades. Please use instructions in [Offline Upgrade](#) section to update to the latest version.

Hub upgraded but there are some errors while using the Web UI

- In most cases, the default password (`sspassword`) for the friend or root users may have been changed on the Database Appliance, thus causing the connection failures between the Hub and Database.
 - Log into the command line console of the Database Appliance using User ID: `ssconsole` and Password: `sspassword` as credentials.
 - Enter option U for the 'U) Update Software Menu' option.
 - Enter option S for the 'S) Software Update Site' option.
 - The update site should be set to the Stratusphere Hub IP or DNS such as `https://Hub.IP.or.DNS/upgrades/latest`. Hub.IP.or.DNS needs to be the actual IP or DNS of the Stratusphere Hub. If it does NOT match and is still pointing to `http://download.liquidwarelabs.com/upgrades/yum/` then press Y and edit it to match `https://Hub.IP.or.DNS/upgrades/latest` and hit, ENTER. It will update the site and ask again if you want to make a change – press N and ENTER to finish. If it matches, press N and ENTER to proceed.
 - Enter option C for the 'C) Check for Updates' option.
 - If there are updates available, enter option U for the 'U) Update' option to apply the update on the appliance.
 - Use the Q option to return to the previous menu and select R for the 'R) Reboot Server' option if it is not scheduled automatically.
 - Once the appliance reboots, give it at least **10-15 minutes** to start all required services.

Hub upgraded but the Database is still showing the old version

- In most cases, the default password (`sspassword`) for the friend or root users may have been changed on the Database Appliance, thus causing the connection failures between the Hub and Database.
 - Log into the command line console of the Database Appliance using User ID: `ssconsole` and Password: `sspassword` as credentials.
 - Enter option U for the 'U) Update Software Menu' option.
 - Enter option S for the 'S) Software Update Site' option.
 - The update site should be set to the Stratusphere Hub IP or DNS such as `https://Hub.IP.or.DNS/upgrades/latest`. Hub.IP.or.DNS needs to be the actual IP or DNS of the Stratusphere Hub. If it does NOT match and is still pointing to `http://download.liquidwarelabs.com/upgrades/yum/` then press Y and edit it to match `https://Hub.IP.or.DNS/upgrades/latest` and hit, ENTER. It will update the site and ask again if you want to make a change – press N and ENTER to finish. If it matches, press N and ENTER to proceed.
 - Enter option C for the 'C) Check for Updates' option.
 - If there are updates available, enter option U for the 'U) Update' option to apply the update on the appliance.
 - Use the Q option to return to the previous menu and select R for the 'R) Reboot Server' option if it is not scheduled automatically.
 - Once the appliance reboots, give it at least **10-15 minutes** to start all required services.

Collectors did not upgrade through the UI, still showing the old version

- In some cases, when **ENHANCED SECURITY** is enabled, the Collectors fail to upgrade to the latest version. In these cases, please use the Collector's console-based upgrade process.
 - Ensure the Collectors are all powered ON.
 - Log into the console using 'ssconsole' and 'sspassword' as default credentials.
 - Enter option U for the 'U) Update Software Menu' option.
 - Enter option S for the 'S) Software Update Site' option.
 - The update site should be set to the Stratusphere Hub IP or DNS such as `https://Hub.IP.or.DNS/upgrades/latest`. Hub.IP.or.DNS needs to be the actual IP or DNS of the Stratusphere Hub. If it does NOT match and is still pointing to `http://download.liquidwarelabs.com/upgrades/yum/` then press Y and edit it to match `https://Hub.IP.or.DNS/upgrades/latest` and hit, enter. It will update the site and ask again if you want to make a change – press N and enter to finish. If it matches, press N and enter to proceed.
 - Enter option C for the 'C) Check for Updates' option. It will check for updates and display if there are any updates available.
 - If there are updates available, enter option U for the 'U) Update' option to apply the update on the appliance. It will prompt you 'Do you really want to update?' to confirm. Enter 'Y'.
 - In most cases, the appliance may reboot automatically after an upgrade. In case it does not, use the Q option to return to the previous menu and select R for the 'R) Reboot Server' option.
 - Once the appliance reboots, give it a few minutes to start all required services.
- Log into the **ADMINISTRATION** section of the Stratusphere Hub Web UI.
 - Navigate to the **COLLECTOR ADMINISTRATION > COLLECTORS** tab.
 - Verify if each Collector now is at 6.x.x version.

Getting Help with Stratusphere

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

Using Online Resources

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

Contacting Support

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

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

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

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

International: + 1 (678) 397-0460