
Stratusphere™ Release Notes

Version Table

VERSION 6.0.3, RELEASED JUNE 13 TH , 2018.....	2
VERSION 6.0.2, RELEASED APRIL 24 TH , 2018.....	4
VERSION 6.0.1, RELEASED FEBRUARY 27 ST , 2018.....	8
VERSION 6.0.0, RELEASED DECEMBER 14 TH , 2017.....	12

Stratusphere™ Release Notes

Version 6.0.3, released June 13th, 2018

What's New?

- This is mainly a security update and bug fix release.

Enhancements & Bug Fixes

- Fixed an issue in the ADVANCED > INSPECTORS > LOGIN tab where it would display a SQL error while looking up data by Machine Groups.
- Security Updates for CentOS appliances. The updates address Common Vulnerability and Exposure (CVE) CVE-2017-7645, CVE-2017-8824, CVE-2017-13166, CVE-2017-18017, CVE-2017-1000410, CVE-2018-1111, CVE-2018-1115, CVE-2018-1124, CVE-2018-1126, CVE-2018-2790, CVE-2018-2794, CVE-2018-2795, CVE-2018-2796, CVE-2018-2797, CVE-2018-2798, CVE-2018-2799, CVE-2018-2800, CVE-2018-2814, CVE-2018-2815, CVE-2018-3639, CVE-2018-8897, & CVE-2018-1000156. For additional information please refer to <http://cve.mitre.org/index.html>.

Known Issues

- Advanced Inspectors may appear within very small window after an upgrade. Hit the F5 key to restore the regular size.
- While importing Stratusphere OVF's on some ESX versions, the VMware Virtual Infrastructure Client will show a warning. These warnings can be safely ignored.
- While using Internet Explorer 9, the UI may not format & display some pages, such as SAN Diagnostic Summary, as expected due to compatibility issues. Liquidware recommends using the latest version of Internet Explorer, Mozilla Firefox, or Google Chrome as a temporary workaround. Also, while using Mozilla Firefox, some of the ASSESSMENT > SUMMARY tab's graphs and charts may not display call out lines and text as expected until the user clicks in each widget.
- If ENHANCED SECURITY is enabled in the console, it requires using strong passwords including special characters. Using a backslash '\ character in the password causes issues while migrating data from 5.8.5 appliances to 6.0. The password match fails and since the migration asks user to retry, it may result in account lockout if forced to enter multiple times.
- The Windows CID Key on Amazon WorkSpaces depends on the Teradici PCoIP agent to populate the remote client name and remote client IP Address within the registry. If the PCoIP agent does not populate the registry, the CID Key will not be able to collect this information.
- Editing and customizing a machine's CID Key Properties may not save properly in the INVENTORY > MACHINES tab's EDIT MACHINE: > CONNECTOR ID KEY PROPERTIES page.
- The ADVANCED > INSPECTORS > EXTENSIONS tab may display incorrect count and size of file extensions under certain conditions such multiple boots, logins or restarting of the CID Key.
- The DIAGNOSTICS > INSPECTORS > DESKTOP APPLICATION SUMMARY page times out after 15 minutes and may result in an error. This is due to the Chart on the page, waiting for a query to finish. If the user uses the browser's Back button, the table data will be updated but the chart may be empty or displaying existing results.

- The DIAGNOSTIC > INSPECTORS > NETWORK APPLICATION SUMMARY tab's network APPLICATION name may not match the name used to specify the application in the COLLECTOR ADMINISTRATION > NETWORK COLLECTOR POLICIES tab.
- Reports:
 - FIT REPORTS – APPLICATIONS:
 - APPLICATIONS WITH KNOWN POOR VDI FIT INSTALLED BY USER AND MACHINE (CSV) fails if no applications are set as Poor VDI FIT under ASSESSMENT > VDI FIT PROFILE tab.
 - APPLICATION COMPARISON BY MACHINE GROUP Report has performance issues.

Release Available As

- Software Update: This release is only available as a Software Update if you are on 6.0.x version of Stratusphere. However, if you are 5.8.5 or higher, we do offer a migration option whereby you can download a new Stratusphere 6.0.x Hub and Database Appliance and use the migrate option in the consoles of these new appliances to migrate network configuration, certificates, and data from the old 5.8.5 or higher appliances to the newer 6.0 appliances.

NOTE: Please see the Upgrading section below for instructions.

Release Applies to

- Stratusphere Hub Appliance.
- Stratusphere Database Appliance.
- Stratusphere Collector Appliance.

Upgrading

If your current installed version of Stratusphere is 6.0.0, please use the instructions in [Upgrading from Stratusphere 6.0](#) to upgrade to the latest version.

If your current installed version of Stratusphere is at 5.8.5 or higher, please use the instructions in [Migrating from 5.8.5 or Higher to 6.0 Appliances](#), to migrate network settings, certificates, and data from 5.8.5 and higher appliances to the 6.0 appliances. If you are on a version earlier than 5.8.5, please upgrade to 5.8.5 and then perform a migration using the instructions mentioned above.

If your current installed version of Stratusphere is 5.7.x or earlier, please upgrade to 5.8.5 and then migrate to Stratusphere 6.0. Please get in touch with Liquidware Labs Customer Support at Support@Liquidware.com or search for a KB article titled "Migrating to Stratusphere 5.7.0" on our Support Site. Additionally, you can reference [Migrating from 5.6.x to 5.7.0 Stratusphere Appliances](#).

If your current installed version of Stratusphere is 4.8.x, please visit our [Support documentation site](#) and read the [Stratusphere Upgrade Guide for 5.0](#) document created specifically to help customers upgrade from 4.8.x to the 5.0 version of Stratusphere. Alternatively, contact Support@Liquidware.com for further assistance.

Version 6.0.2, released April 24th, 2018

What's New?

- This is mainly a security update and bug fix release with limited enhancements.

Enhancements & Bug Fixes

- Added many security updates and vulnerability patches.
- Enhanced the ADVANCED > INSPECTORS to use updated Application Process summarized daily roll-up tables in APPLICATIONS tabs for faster performance. DIAGNOSTICS > INSPECTORS and DIAGNOSTICS > REPORTS will be updated in the 6.1 version to use updated roll-up tables.
- Enhanced the PREVIEW > CUSTOM DASHBOARDS with previews for data sources, ability to highlight rows, auto-refresh functionality, column sorting and sorting order, enhanced search functionality, and addition of preferences to customize behavior.
- Enhanced CID Key fallback logic whereupon if the CID Key fails to upload data 5 times in a row to Collectors, it will fallback to the Hub and only request an updated cert.txt to see if Collectors have been added, updated, or removed and not upload any current or pending reports to the Hub.
- Enhanced AWS AMIs to include Elastic Network Adaptor (ENA) to add compatibility with m5 tier on AWS.
- Fixed an issue where the versions of the Collectors were not changing after upgrading to 6.0.1.
- Fixed an issue where the migration wizard would not pause to show an error if it failed before the data transfer process began.
- Fixed an issue where CID Key services on VMware Instant Clones would fail to start by adding a VMWARE INSTANT CLONES POST SYNC SCRIPT. This script uses absolute paths because VMware would move the post sync scripts to the temporary folder where usage of relative paths would fail.
- Fixed an issue where some reports with hourly breakdown of data were displaying inaccurate values while using daily roll-up tables instead of the hourly or detail level tables.
- Fixed an issue where the CID Key will now perform trace routes from source to destination of a connection instead of performing bidirectional trace routes i.e. from source to destination as well as destination to source.
- Fixed an issue with CID Key on MAC OS High Sierra would not register with the Hub.
- Fixed an issue where the Web UI would show a negative number in bytes of storage space utilized for summarized, daily roll-up tables.
- Fixed an issue where the Web UI would not show the HUB ADMINISTRATION > UPGRADES > ONLINE tab automatically when an online upgrade was available.
- Fixed an issue while editing an existing subnet under the INVENTORY > SUBNETS tab.
- Fixed an issue with Smart Groups associated with machine name pattern matching failing to associate similar named machines within a Smart Group as configured.
- Fixed an issue where the swap partition on the disk2 of the Database appliance would not stretch as expected.

- Fixed an issue where the database would spike to 100% CPU if no network connection partitions were observed for the automatic partition management.
- Fixed an issue with the CID Key where it would not associate process end times with ones that have been uploaded to Stratusphere but have since exited.
- Added, enhanced, fixed or made minor formatting updates to the following reports:
 - ADMINISTRATION > DATABASE SCHEMA TABLE SIZE BREAKDOWN
 - ADMINISTRATION > MACHINES OBSERVED BY MACHINE GROUPS
 - ADMINISTRATION > MACHINES WITH UPTIMES ABOVE THRESHOLD
 - ADMINISTRATION > SPECTRE MELTDOWN PATCH REMEDIATION STATUS FOR WINDOWS 10 MACHINES
 - FIT ASSESSMENT REPORTS (PACK 1) > 112. ASSESSMENT FINDINGS
 - FIT ASSESSMENT REPORTS (PACK 1) > 106. PEAK IOPS AGGREGATED BY HOUR
 - FIT ASSESSMENT REPORTS (PACK 2) > 202. KEY METRICS AVERAGED BY HOUR
 - FIT ASSESSMENT REPORTS (PACK 2) > 203. KEY METRICS AGGREGATED BY HOUR (MONDAY-FRIDAY)
 - FIT ASSESSMENT REPORTS (PACK 2) > 213. NETWORK CONNECTION DETAILS FOR CID KEY COMMUNICATIONS
 - UX DIAGNOSTIC REPORTS > PERFORMANCE TIME CHART
- Security Updates for CentOS appliances. The updates address Common Vulnerability and Exposure (CVE) CVE-2017-5753, CVE-2017-5715, CVE-2017-5754, CVE-2018-1058, CVE-2018-5732, and CVE-2018-5733. For additional information please refer to <http://cve.mitre.org/index.html>.

Known Issues

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- While importing Stratusphere OVF's on some ESX versions, the VMware Virtual Infrastructure Client will show a warning. These warnings can be safely ignored.
- While using Internet Explorer 9, the UI may not format & display some pages, such as SAN Diagnostic Summary, as expected due to compatibility issues. Liquidware recommends using the latest version of Internet Explorer, Mozilla Firefox, or Google Chrome as a temporary workaround. Also, while using Mozilla Firefox, some of the ASSESSMENT > SUMMARY tab's graphs and charts may not display call out lines and text as expected until the user clicks in each widget.
- If ENHANCED SECURITY is enabled in the console, it requires using strong passwords including special characters. Using a backslash '\' character in the password causes issues while migrating data from 5.8.5 appliances to 6.0. The password match fails and since the migration asks user to retry, it may result in account lockout if forced to enter multiple times.
- The Windows CID Key on Amazon WorkSpaces depends on the Teradici PCoIP agent to populate the remote client name and remote client IP Address within the registry. If the PCoIP agent does not populate the registry, the CID Key will not be able to collect this information.
- Editing and customizing a machine's CID Key Properties may not save properly in the INVENTORY > MACHINES tab's EDIT MACHINE: > CONNECTOR ID KEY PROPERTIES page.

- The ADVANCED > INSPECTORS > EXTENSIONS tab may display incorrect count and size of file extensions under certain conditions such multiple boots, logins or restarting of the CID Key.
- The DIAGNOSTICS > INSPECTORS > DESKTOP APPLICATION SUMMARY page times out after 15 minutes and may result in an error. This is due to the Chart on the page, waiting for a query to finish. If the user uses the browser's Back button, the table data will be updated but the chart may be empty or displaying existing results.
- The DIAGNOSTIC > INSPECTORS > NETWORK APPLICATION SUMMARY tab's network APPLICATION name may not match the name used to specify the application in the COLLECTOR ADMINISTRATION > NETWORK COLLECTOR POLICIES tab.
- Reports:
 - FIT REPORTS – APPLICATIONS:
 - APPLICATIONS WITH KNOWN POOR VDI FIT INSTALLED BY USER AND MACHINE (CSV) fails if no applications are set as Poor VDI FIT under ASSESSMENT > VDI FIT PROFILE tab.
 - APPLICATION COMPARISON BY MACHINE GROUP Report has performance issues.

Release Available As

- Software Update: This release is only available as a Software Update if you are on 6.0.x version of Stratusphere. However, if you are 5.8.5 or higher, we do offer a migration option whereby you can download a new Stratusphere 6.0.x Hub and Database Appliance and use the migrate option in the consoles of these new appliances to migrate network configuration, certificates, and data from the old 5.8.5 or higher appliances to the newer 6.0 appliances.

NOTE: Please see the Upgrading section below for instructions.

Release Applies to

- Stratusphere Hub Appliance.
- Stratusphere Database Appliance.
- Stratusphere Collector Appliance.
- Stratusphere Connector ID Key.

Upgrading

If your current installed version of Stratusphere is 6.0.0, please use the instructions in [Upgrading from Stratusphere 6.0](#) to upgrade to the latest version.

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Release Notes

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Version 6.0.1, released February 27st, 2018

What's New?

- This is a security update and bug fix release only.

Enhancements & Bug Fixes

- Added many security updates and vulnerability patches, including Java updates, Meltdown & Spectre security updates specifically.
- Enhanced the ADVANCED > INSPECTORS to use summarized daily roll-up tables in the USERS, MACHINES, and APPLICATIONS tabs for faster performance.
- Enhanced the Preview Custom Dashboards with auto-refresh functionality, column sorting and sorting order, and enhanced search functionality.
- Enhanced the database copy & migration wizard to provide the amount of time estimated for the data copy/migration to finish. This is just an approximate estimation.
- Enhanced CID Key to collect security updates installed on Windows machines to detect specific patches installed on each machine. This will be used to report on which machines have been patched for Spectre and Meltdown soon.
- Enhanced appliance flexibility and uptime by adding the ability to hot add CPU and RAM resources to the Stratusphere virtual appliances.
- Enhanced CID Key to support Apple macOS High Sierra 10.13 and support determining an appropriate host name for the machine as well.
- Reduced disk space requirements by eliminating the Summarized Hourly, Weekly, Monthly, and Yearly roll-ups.
- Enhanced summary roll-up processing functionality where processing data and creation of summarized data will temporarily pause if the disk space used was close to the auto-delete threshold.
- Enhanced and revised how some roll-up values for certain metrics were being calculated. Affected metrics include Application Load Time, RAM Usage, Network Latency, Session Latency, etc.
- Fixed an issue with the CID Key where in some instances it would erroneously associate a process to a different application than the one expected.
- Fixed an issue with the CID Key where it would not send ping metrics related to remote display sessions.
- Fixed an issue with the Hub where it erroneously reports a successful sync with VMware vSphere but gets no data during the sync.
- Fixed an issue with the Hub's VMware vSphere sync operation where it was unable to associate a virtual machine with the host it was running on.
- Fixed an issue where some Summarized Roll-up tables were not being auto-deleted on being disabled until that period was over.
- Fixed an issue with the APPLICATION pop-out inspector under the ADVANCED > SEARCH 360 MACHINE GROUP > SYSTEM PROCESS & SERVICES CONSUMPTION FOR MACHINE GROUPS table.

- Fixed an issue in the Web UI where the ASSESSMENT > SUMMARY tab widgets would show no callout lines and text in the pie charts.
- Fixed an issue in the Web UI where the DOWNLOAD UPDATE button was erroneously appearing on the Web UI's HUB ADMINISTRATION > UPGRADES > OFFLINE tab.
- Added, enhanced, fixed or made minor formatting updates to the following reports:
 - ADMINISTRATION > ALERT ON DATABASE DISK PURGE PRIOR TO THRESHOLD
 - ADMINISTRATION > ALERT ON MISSING DATABASE INSERTS
 - ADMINISTRATION > MACHINE CALLBACK COUNTS BY DAY
 - ADMINISTRATION > MACHINE CALLBACK COUNTS BY HOUR
 - ADMINISTRATION > DATABASE SCHEMA TABLE SIZE BREAKDOWN
 - ADMINISTRATION > MACHINE CID KEY SETTINGS
 - APPLICATION STRATEGY > APPLICATIONS INSTALLED VS USED SUMMARY
 - FIT ASSESSMENT REPORTS (PACK 2) > 203. KEY METRICS AGGREGATED BY HOUR (MONDAY-FRIDAY)
 - FIT ASSESSMENT REPORTS (PACK 2) > 211. MACHINE GROUPS BY HIGH USER VDI FIT RATINGS
 - FIT REPORTS - APPLICATIONS > APPLICATIONS INSTALLED VS USED SUMMARY
 - FIT DISCOVERY & FINDINGS > MACHINE CPUs & UTILIZATION SUMMARY
 - FIT DISCOVERY & FINDINGS > MACHINE DISKS & USAGE SUMMARY
 - FIT DISCOVERY & FINDINGS > MACHINE EXTERNAL DEVICE SUMMARY
 - FIT DISCOVERY & FINDINGS > MACHINE MEMORY SIZE AND USAGE SUMMARY
 - FIT DISCOVERY & FINDINGS > MACHINE OPERATING SYSTEMS
 - FIT REPORTS - MACHINES > MACHINE AGES
 - FIT REPORTS - MACHINES > MACHINE BIOS AND TPM DETAILS
 - FIT REPORTS - MACHINES > MACHINE CPUs & UTILIZATION SUMMARY
 - FIT REPORTS - MACHINES > MACHINE DISKS & USAGE SUMMARY
 - FIT REPORTS - MACHINES > MACHINE EXTERNAL DEVICE SUMMARY
 - FIT REPORTS - MACHINES > MACHINE MEMORY SIZE AND USAGE SUMMARY
 - FIT REPORTS - MACHINES > MACHINE OPERATING SYSTEMS
 - FIT REPORTS - MACHINES > MACHINE PRINTER SUMMARY
 - FIT REPORTS - MACHINES > MACHINE PRINTER DETAILS
 - MANAGEMENT REPORTS > MACHINE GROUP POOLS COUNTS BY HOUR
 - UX DIAGNOSTIC REPORTS > USER EXPERIENCE KEY METRICS AGGREGATED BY HOUR
 - UX HEALTH CHECK REPORTS > 307. KEY METRICS TIME CHART AVERAGED BY HOUR
 - UX HEALTH CHECK REPORTS > 308. KEY METRICS AVERAGED BY HOUR
 - UX HEALTH CHECK REPORTS > 309. KEY METRICS AGGREGATED BY HOUR (BUSINESS HOURS)
 - UX HEALTH CHECK REPORTS > 311. USER EXPERIENCE KEY METRICS TIME CHART
 - WINDOWS MIGRATIONS > APPLICATIONS INSTALLED VS USED SUMMARY
- Security Updates for CentOS appliances. The updates address Common Vulnerability and Exposure (CVE) CVE-2017-3145, CVE-2017-5715, CVE-2017-5753, CVE-2017-5754, CVE-2017-7542, CVE-2017-9074, CVE-2017-11176, CVE-2018-1052, CVE-2018-1053, CVE-2018-2579, CVE-2018-2582, CVE-2018-2588, CVE-2018-2599, CVE-2018-2602, CVE-2018-2603, CVE-2018-2618, CVE-2018-2629, CVE-2018-2633, CVE-2018-2634, CVE-2018-2637, CVE-2018-2641, CVE-2018-

2663, CVE-2018-2677, and CVE-2018-2678. For additional information please refer to <http://cve.mitre.org/index.html>.

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- The DIAGNOSTIC > INSPECTORS > NETWORK APPLICATION SUMMARY tab's network APPLICATION name may not match the name used to specify the application in the COLLECTOR ADMINISTRATION > NETWORK COLLECTOR POLICIES tab.
- The summarized, roll-up tables for Applications does not roll-up the count of the ANR events observed for the application process but only whether it had an ANR event or not.
- Reports:
 - FIT REPORTS – APPLICATIONS:
 - APPLICATIONS WITH KNOWN POOR VDI FIT INSTALLED BY USER AND MACHINE (CSV) fails if no applications are set as Poor VDI FIT under ASSESSMENT > VDI FIT PROFILE tab.
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Release Available As

- Virtual Appliance Downloads: Please visit www.liquidware.com/download/ to download the latest versions of Stratusphere appliances in OVF format. Remaining formats of AMI, XVA and ZIP formats will be added soon.
- Software Update: This release is also available as a Software Update if you are on 6.0.0 version of Stratusphere. However, if you are 5.8.5 or higher, we do offer a migration option whereby you can download a new Stratusphere 6.0.x Hub and Database Appliance and use the migrate option in the consoles of these new appliances to migrate network configuration, certificates, and data from the old 5.8.5 or higher appliances to the newer 6.0 appliances.

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Version 6.0.0, released December 14th, 2017

What's New?

- Stratusphere 6.0 appliances now use the Linux CentOS 6 Operating System. *See the [Upgrading](#) section below on how to install it or migrate to it depending on your current version installed.*
- **Preview Custom Dashboards:** Liquidware introduces a preview to our brand new customizable, interactive dashboards available under the Preview tab after logging into Stratusphere FIT/UX. There are some prebuilt dashboards plus the ability to search by numerous criteria and filters.
- **Collector Architecture:** Liquidware has enhanced and rebranded Stratusphere Network Station appliances into Stratusphere Collector appliances.
 - They are hardened, Linux based, lightweight (2 vCPU, 4 GB) software appliances that serve to collect data from CID Keys and/or sniff network connections.
 - The functionality that existed within the Stratusphere Hub has now been migrated into Collector appliances for high-availability and higher-scale CID Key data collection.
 - Each Collector communicates with the Stratusphere Hub using SSL Port (TCP/443) and can collect data from 5-10K CID Keys calling back every 60 minutes.
 - The Collector appliance also inserts CID Key data directly into the Stratusphere Database appliance bypassing the Stratusphere Hub appliance.
 - A single Stratusphere installation can now support up to 20K CID Keys calling back every 60 minutes, up from 5K in 5.8.x i.e. 400% increase in capacity.
- **CID Keys:**
 - CID Keys now use Standard Secure Communication Ports (TCP/443).
 - Apple MAC OS X (El Capitan) and macOS Sierra; macOS High Sierra (coming soon).
 - Microsoft Server 2016
 - SUSE Linux 11 SP4 and higher
 - Support for IGEL thin clients
 - Signed Windows Installer for manual installation, in addition to auto-registering one
- **Process Optimization (beta):** *Liquidware introduces a new feature to highly optimize user experience on sub-optimally sized machines to enhance productivity and increase desktop density while maintaining great end user experience. Please refer to this [article/white paper](#) to test drive this new feature.*
- **Advanced Inspectors:**
 - Added a new ADVANCED > INSPECTORS > TRACE ROUTE tab for viewing hop latencies, pings, and jitters from the CID Key to remote session end points.
 - In the ADVANCED > INSPECTORS > APPLICATIONS tab, under the OVERVIEW > OVERVIEW TYPE table, we now show applications running with elevated privileges under the PROCESS PRIVILEGE ELEVATED column. We also added the ability to see ALL process owners within the ADVANCED > INSPECTORS > APPLICATIONS tab under the PROCESSES drop down filter in addition to USERS, SYSTEM, and BOTH. This would be useful to see all other users on a multi-session machine such as a Terminal Server or XenApp server. This inspector also added WINDOW TITLE of a process that is in a NOT RESPONDING state.

- In the ADVANCED > INSPECTORS > MACHINES tab, under the DEFAULT view as well as DISK > DISK DETAILS view, we now show the DISK ACTIVE TIME PERCENT & DISK RESPONSE TIMES. We also added DISK LABEL as a new BASIS option.
- NVIDIA GPU: Liquidware introduces the capability to monitor GPU stats such as GPU Core %, GPU Memory % Frame Buffer, Encode %, and Decode % on a per process basis.
- Security: Liquidware added a few features to enhance security compliance in FED/DoD:
 - Added a new ENHANCED SECURITY mode to each Stratusphere appliance to easily switch to a higher security compliance mode based on U.S. Department of Defense's Security Technical Implementation Guides (STIGs).
 - Added support for CAC Authentication for the Stratusphere Web UI.
 - Added initial support for multi-homed appliances where the SSH Console & Web UI Management Communications, CID Key Communications, Network Collector Communications, and Database Communications can all be on isolated network connections.
- Application Strategy Reports
 - Liquidware would like to provide guidance to its end users on how to approach their application strategy while transforming their desktops between the physical, virtual and cloud infrastructure. Stratusphere 6.0 adds a new category of reports called APPLICATION STRATEGY REPORTS that include 5 reports to help solve the application distribution problem.

Enhancements & Bug Fixes

- Enhanced the CID Key to detect and handle log off and shut down events on a machine to quickly upload collected stats up to the Hub/Collector and prevent data loss before the operating system shuts down the network card or the machine, especially on a non-persistent virtual machine environment.
- Enhanced CID Key to support enabling Amazon WorkSpaces based Teradici PCoIP Counters using a script under \ADMIN SCRIPTS\AMAZONWORKSPACES\TERADICIPCOIPCOUNTERS\INSTALLPREP.BAT.
- Enhanced CID Key to monitor logins on VMware Horizon RDSH Published Applications by monitoring when VMWARE-VIEW-UNITY-SHELL.EXE starts to determine when login processing is finished.
- Enhanced the CID Key Control Panel applet to show settings such as, the Hub the CID Key is registered to, a list of Collectors it is uploading stats to, along with Callback Frequency, Sampling Frequency, etc.
- Enhanced CID Key handling of logs, specifically for servers, where it now monitors the size of the log files every sampling period, and rotates them when they reach 200 MB.
- Extended support to VMware vSphere 6.5 by adding import and sync functionality.
- Enhanced performance for DIAGNOSTICS > INSPECTORS, DIAGNOSTICS > REPORTS, and ADVANCED > INSPECTORS > APPLICATIONS by 40% to 100% when using longer time frames like over 2 days, or weeks, or even months. These performance enhancements were due to using summarized roll-up data tables configured for DAILY, WEEKLY, MONTHLY, and YEARLY summarization within the HUB

ADMINISTRATION > DATA RETENTION > SETTINGS tab. It must be noted, that these summarized, roll-up tables have been implemented within the database for most types of metrics but are utilized only in limited areas within the Web UI & API in the product. Their usage will be universal across all remaining parts of the Web UI & API very shortly.

- Enhanced performance due to better database indexing and vacuuming.
- Enhanced the SQL performance and Export functionality for the DIAGNOSTICS > INSPECTORS > MACHINE DIAGNOSTIC SUMMARY, DIAGNOSTICS > INSPECTORS > USER DIAGNOSTIC SUMMARY, and DIAGNOSTICS > INSPECTORS > DESKTOP APPLICATION SUMMARY Inspectors.
- Enhanced all charts on the ASSESSMENT and DIAGNOSTICS tabs switching them to use Java Script based graphs and charts, and dropping any requirements for Flash plugins.
- Enhanced usability of the Stratusphere Login page to remember last used product and domain. The Login page will also poll the Stratusphere Hub for a heartbeat to detect when the Hub is available especially after installing new upgrades using the Web UI. The fields and buttons on the page will be disabled until the Hub is ready to receive UI requests.
- Enhanced the usability of the INVENTORY > MACHINES & INVENTORY > USERS tabs by adding action menu options to the MORE ACTIONS... drop down list to operate on individual machines/users as well as groups. More actions include ability to SET ADMINISTRATOR, SET USER, ENABLE/DISABLE API ACCESS, LOCK/UNLOCK ACCOUNTS, etc. Also, the User Groups page, provides most of the same operations as an individual User page, thus allowing a User Group imported from AD to be set as an Administrator role, with a single click.
- Enhanced the HUB ADMINISTRATION > CONFIGURATION tab, to include a default FROM: and TO: email address fields to receive scheduled Stratusphere Administration reports that provide status and warnings, critical to an administrator.
- Enhanced and tweaked HUB ADMINISTRATION > OVERVIEW, CONFIGURATION, and DATA RETENTION tabs with minor updates and fixes.
- Updated the default FIT & UX Profile thresholds to contemporary values.
- Fixed an issue with the Stratusphere Hub and Database appliances either not performing the automatic disk and file system expansion or hanging right after performing the expansion.
- Fixed an issue with the ADVANCED > SEARCH > 360 VIEWS where the sort order for the 14 days and 24-hour table was not set.
- Fixed an issue with the ADVANCED > INSPECTORS > INVENTORY tab, where the BIOS & TPM view would not display whether TPM information correctly.
- Fixed an issue with the CD Key where one of its services, LWLDATASVC.EXE, would suffer a crash.
- Fixed an issue with the CID Key where it was leaking file and registry handles over time.
- Fixed an issue with the CID Key where it was not handling an old stats.txt file properly.
- Fixed an issue with the CID Key where it would collect duplicate ping replies from remote destinations and then fail to upload stats to the Hub.
- Fixed an issue with the CID Key where it would incorrectly associate a process with an application.
- Fixed an issue where the DIAGNOSTICS > INSPECTOR > NETWORK CONNECTION HISTORY drilling down into the Interval details would not display bytes and packet trends over time.

- Fixed an issue while selecting and running multiple reports where the user would not get a notification of reports completing. Now, the user is redirected to the REPORTS ARCHIVE when all reports have completed.
- Fixed an issue in the ADMINISTRATION section of the Web UI under HUB ADMINISTRATION > CONNECTOR ID KEYS > CONNECTOR ID PROPERTIES tab where it would not save updated properties under some circumstances.
- Fixed an issue in the ADMINISTRATION section of the Web UI under HUB ADMINISTRATION > UPGRADES tab where it would not show the ONLINE and OFFLINE tabs.
- Fixed an issue in the ADMINISTRATION section of the Web UI under STATION ADMINISTRATION > NETWORK STATION POLICIES where the user could not edit and save existing policy rules.
- Fixed an issue under ADVANCED > SEARCH > 360 USER pop-out Inspector where the sorting by hour would not work as expected.
- Fixed an issue in the ADMINISTRATION section of the Web UI under HUB ADMINISTRATION > VM DIRECTORIES tab where it would only sync virtual machine stats if ALL VIRTUAL MACHINES were selected and ignore if any other setting was selected.
- Fixed an issue with the CID Key where it would only show display session of a single type to a single destination instead of multiple types of display sessions to the same remote destination.
- Added, enhanced, fixed or made minor formatting updates to the following reports:
 - ADMINISTRATION > DAYS SINCE LAST LOGIN
 - ADMINISTRATION > USER INVENTORY
 - FIT ASSESSMENT REPORTS (PACK 1) > 112. ASSESSMENT FINDINGS
 - FIT ASSESSMENT REPORTS (PACK 1) > VMWARE HORIZON VIEW CAPACITY REPORT
 - FIT ASSESSMENT REPORTS (PACK 1) & (PACK 2) updated so it reports for all machines regardless of users logged in or not.
 - FIT ASSESSMENT REPORTS (PACK 2) > 213. NETWORK CONNECTION DETAILS FOR CID KEY COMMUNICATIONS
 - FIT REPORTS - APPLICATIONS > APPLICATIONS INSTALLED & LAST USED BY MACHINE AND PRIMARY USER (CSV)
 - MANAGEMENT REPORTS > MACHINE AND USER COUNTS BY HOUR
 - UX DIAGNOSTIC REPORTS > USER LOGIN DELAY SUMMARY
 - UX DIAGNOSTIC REPORTS > USER SESSION EVENT DETAILS (new)
 - UX DIAGNOSTIC REPORTS > USER SESSION EVENT SUMMARY BY LOGIN SESSION (new)
 - UX DIAGNOSTIC REPORTS > USER SESSION EVENT SUMMARY BY USER & MACHINE (new)
 - UX DIAGNOSTIC REPORTS - REMOTE DISPLAY PROTOCOL > TRACE ROUTE DETAILS BY MACHINE CALLBACK WITH HOP DETAILS (new)
 - UX DIAGNOSTIC REPORTS - REMOTE DISPLAY PROTOCOL > TRACE ROUTE HOPS & PING SUMMARY BY MACHINE (new)
 - UX DIAGNOSTIC REPORTS - REMOTE DISPLAY PROTOCOL > TRACE ROUTE HOPS & PING SUMMARY BY MACHINE & USER (new)
 - UX HEALTH CHECK REPORTS > 311. USER EXPERIENCE KEY METRICS TIME CHART
 - UX DIAGNOSTIC REPORTS – STORAGE

Known Issues

- Advanced Inspectors may appear within very small window after an upgrade. Hit the F5 key to restore the regular size.
- While importing Stratusphere OVF's on some ESX versions, the VMware Virtual Infrastructure Client will show a warning. These warnings can be safely ignored.
- While using Internet Explorer 9, the UI may not format & display some pages, such as SAN Diagnostic Summary, as expected due to compatibility issues. Liquidware recommends using the latest version of Internet Explorer, Mozilla Firefox, or Google Chrome as a temporary workaround. Also, while using Mozilla Firefox, some of the ASSESSMENT > SUMMARY tab's graphs and charts may not display call out lines and text as expected until the user clicks in each widget.
- If ENHANCED SECURITY is enabled in the console, it requires using strong passwords including special characters. Using a backslash '\ character in the password causes issues while migrating data from 5.8.5 appliances to 6.0. The password match fails and since the migration asks user to retry, it may result in account lockout if forced to enter multiple times.
- The Windows CID Key on Amazon WorkSpaces depends on the Teradici PCoIP agent to populate the remote client name and remote client IP Address within the registry. If the PCoIP agent does not populate the registry, the CID Key will not be able to collect this information.
- Editing and customizing a machine's CID Key Properties may not save properly in the INVENTORY > MACHINES tab's EDIT MACHINE: > CONNECTOR ID KEY PROPERTIES page.
- The ADVANCED > INSPECTORS > EXTENSIONS tab may display incorrect count and size of file extensions under certain conditions such multiple boots, logins or restarting of the CID Key.
- The DIAGNOSTICS > INSPECTORS > DESKTOP APPLICATION SUMMARY page times out after 15 minutes and may result in an error. This is due to the Chart on the page, waiting for a query to finish. If the user uses the browser's Back button, the table data will be updated but the chart may be empty or displaying existing results.
- The DIAGNOSTIC > INSPECTORS > NETWORK APPLICATION SUMMARY tab's network APPLICATION name may not match the name used to specify the application in the COLLECTOR ADMINISTRATION > NETWORK COLLECTOR POLICIES tab.
- The ADVANCED > INSPECTORS > VHOST tab may not display any virtual hosts if the Stratusphere Hub did not find any hosts when it synced with vCenter. Also, the sync process has been observed to stop syncing.
- The HUB ADMINISTRATION > DATA RETENTION > STATUS tab's LAST AUTO DELETE: time may be off.
- The summarized, roll-up tables for Applications does not roll-up the count of the ANR events observed for the application process but only whether it had an ANR event or not.
- Reports:
 - FIT REPORTS – APPLICATIONS:
 - APPLICATIONS WITH KNOWN POOR VDI FIT INSTALLED BY USER AND MACHINE (CSV) fails if no applications are set as Poor VDI FIT under ASSESSMENT > VDI FIT PROFILE tab.
 - APPLICATION COMPARISON BY MACHINE GROUP Report has performance issues.

Release Available As

- Virtual Appliance Downloads: Please visit www.Liquidware.com/Download/ to download the latest versions of Stratusphere appliances in OVF format. Remaining formats of AMI, XVA and ZIP formats will be added soon.
- Software Update: This release is NOT available as a Software Update as the underlying operating system is updated from CentOS 5 to CentOS 6. However, we do offer a migration option whereby you can download a new Stratusphere 6.0 Hub and Database Appliance and use the migrate option in the consoles of these new appliances to migrate network configuration, certificates, and data from the old 5.8.5 or higher appliances to the newer 6.0 appliances.

NOTE: Please see the Upgrading section below for instructions.

Release Applies to

- Stratusphere Hub Appliance.
- Stratusphere Database Appliance.
- Stratusphere Collector Appliance.
- Stratusphere Connector ID Key.

Upgrading

If your current installed version of Stratusphere is 6.0.0, please use the instructions in [Upgrading from Stratusphere 6.0 \(P1\) to \(P2\)](#) to upgrade to the latest version.

If your current installed version of Stratusphere is at 5.8.5 or higher, please use the instructions in [Migrating from 5.8.5 or Higher to 6.0 Appliances](#), to migrate network settings, certificates, and data from 5.8.5 and higher appliances to the 6.0 appliances. If you are on a version earlier than 5.8.5, please upgrade to 5.8.5 and then perform a migration using the instructions mentioned above.

If your current installed version of Stratusphere is 5.7.x or earlier, please upgrade to 5.8.5 and then migrate to Stratusphere 6.0. Please get in touch with Liquidware Labs Customer Support at Support@Liquidware.com or search for a KB article titled “Migrating to Stratusphere 5.7.0” on our Support Site. Additionally, you can reference [Migrating from 5.6.x to 5.7.0 Stratusphere Appliances](#).

If your current installed version of Stratusphere is 4.8.x, please visit our [Support documentation site](#) and read the [Stratusphere Upgrade Guide for 5.0](#) document created specifically to help customers upgrade from 4.8.x to the 5.0 version of Stratusphere. Alternatively, contact Support@Liquidware.com for further assistance.