

Condenser/Vessel Control OS Release Notes

(Latest to Earliest)

Version Q6 12.21

Security Updates

- Applied several security updates

AcuAir Factory Card

- Added AcuAir to the available products for the “Add Factory Card” process

Home Page System Operating Values

- Increased the number of items able to be selected and displayed on Condenser home page “System Operating Values” section

Analog Auxiliary Custom Names

- Fixed an issue that caused custom names to not be saved

Common Release Notes Q6 12.20

Security Updates

- Applied several security updates

Release Notes Q5 11.11 / Q6 12.11

Vessel

Vessel Pump Control – Fix

- Fixed an issue that was causing the pumps to cycle when a vessel was in high level state, and the pump control was set to “Off” on high level

Downloaded System Data – Vessel Alarms

- Fixed an issue on the downloaded system data excel file where the alarm names were incorrectly being displayed as Warnings instead of Alarms

Solenoid Level Control – Missing Dropdown

- Fixed an issue where the dropdown to select the Number of Solenoids was not being displayed when the Solenoid Level Control was set to Digital

Modulating Valve B – Calibration Issue

- Fixed an issue that was preventing Modulating Valve B from being calibrated due to showing up as “Not Configured”

Condenser

Condenser VSD Outputs – Naming

- Changed VSD Output selections from A-H to 1-8 to be more consistent with the rest of the application

AB Map File - Update

- Updated the default Map File to the latest version

Condenser Step Management – Naming Schemes

- Changed the label for the Start Order of the Steps from “Step” to “Order” for clarity
- Changed the automatic naming when adding a Pump or Fan to an alpha scheme to better match what Output it is referencing rather than a numerical scheme

Common

Software Upgrade – MD5 File Validation

- Added a validation process to the software upgrade process to ensure a software upgrade package has not been corrupted or altered

Notifications – Mobile Phone

- Implemented a toggle on the Security page to allow a user to optionally receive mobile notifications in addition to the standard email notifications for events and alarms

Notifications – Improved Failure Feedback

- Added Event feedback notifying the user if and why a Notification Email failed to send

Security Improvements

- Removed debug features

Release Notes Q5 11.10

Unity Network – Initialization Error

- Fixed an issue where the product does not load properly when initializing the Unity Network without an internet connection

Common Release Notes Q6 12.10

Condenser/Vessel

Touchscreen Driver

- Added a Q6 processor board (640D0198H02) touchscreen driver

Common Release Notes Q5 11.02 / Q6 12.02

Condenser/Vessel

Vessel Pump Bypass

- Fixed an issue where the Vessel Pump Bypass digital output was not energized when the differential setpoint was met.

Condenser Steps

- Changed the I/O Step name labels to be alphabetical rather than numerical for consistency.
- Fixed an issue where long Condenser Step custom names caused the Control Management section of the Home page to run off the screen.

Digital Aux - Naming

- Fixed an issue that was preventing the keyboard from being displayed when attempting to rename Digital Aux F through J.
- Corrected an issue with the Control Inputs dropdown not displaying correctly on the Vessel Digital Aux Output page.

Digital I/O - Configuration

- Fixed an issue that was causing Digital I/O Board selections to change unrelated Digital I/O selections on the Digital I/O Configuration page.

Setpoint Restoration

- Fixed an issue that was causing the Vessel product to be disabled by default when the setpoints were restored through the Restore Setpoint process.

Condenser/Vessel State Fixes

- Fixed an issue where changing the IP address of a Condenser or Vessel product caused the state of the Condenser and Vessel products to become out of sync.
- Fixed an issue that was causing the Vessel to re-enable itself when a change was made to the Networking settings of the product.

Ethernet IP

- Fixed an issue that was causing the Ethernet IP process to not function correctly.

System Data Download

- Fixed an issue that could cause the panel to crash when downloading System Data.

Unity Network

- Added a Service level option to remove all remote Unity Network Panels from a product.
- Added a feature that preserves the local network settings when performing a Setpoint Restore.
- Changed the logic associated with resetting default setpoints via the dip switch/jumper to correctly restore the Port setpoint to the default.

User Actions – Language Data

- Added several missing phrases to the User Action logging and added support for translation.

Freeze Screen Changes

- Fixed several instances where custom names were not displayed correctly on the Freeze Screen generated by alarms and warnings.
- Improved the way Freeze Screen selection items are ordered so they are consistent with how they are displayed in the Freeze Screen output window.

Keyboard Input Characters

- Removed problematic symbols and characters from the software keyboard associated with naming and saving a Setpoint file.
- Added the “&” symbol to the list of illegal characters when naming a custom field.

AcuAir Support

- Added support for the AcuAir HD Unity product to function as part of the Unity Network system.

Remote Software Update

- Fixed an issue with multi-product Unity System panels where updating a remote panel caused the screen to continue displaying a “Panel will reboot in 1 second” message instead of redirecting to the Overview screen.

RELEASE NOTES FOR 11.01

Teikoku Pump Cavitation Protection

- Added a Pump Failure Warning that is generated when a pump reaches a programmable maximum number of Pressure Differential Warnings / restarts per hour. This change updates our cavitation protection based on direction from Teikoku.

Pump Configuration Page

- Updated the Vessel Pump Configuration page to improve navigation and make several options more accessible

Winter Steps

- Fixed an issue where the Winter Steps were not being shown on the home screen

Compressor Running Notification

- Added a new feature to add Compressor Running and High Level Shutdown notifications to the Vessel home screen

Low Pressure Warning

- Added a Low-Pressure Warning that triggers on the Low Condensing Pressure Override. This Warning will alert the user that the panel is in the Override state and all the steps are forced Off.

P/I Control names

- Fixed an issue where the custom Vessel P/I Control names were not being saved

Digital I/O – Defrost Input

- Fixed an issue where the Defrost Input did not appear in the Digital IO Configuration list

Email Notifications

Enhanced the notifications email server to reliably send new events and alarms on a one-minute cycle as new events and alarms occur

- Combined the email notifications and group pages into one page to simplify managing notification configurations

Analog Output – Added 0-10 Vdc option

- Added 0-10 Vdc as an additional sensor type for analog outputs

System/Trending Data Download

- Changed the tabs on a downloaded System Data excel file so that the trending data tab appears first

- Provided the same System Data excel file to the user when Download Trending Data is selected on the Trending screen as when Download System Data is selected on the Service screen
- Included the data units in the column headings in a downloaded trending file
- Saved the trending data in a number format instead of a text format so that calculations can be performed on the data and the numbers can be easily graphed.

Pressure Resolution and Atmospheric Pressure

- Moved the Pressure Resolution and Atmospheric Pressure selections to be part of the System Overview pages allowing the value to be shared between products
- Fixed an issue where the Atmospheric Pressure setpoint was being truncated to a whole number

500 Error Page

- Updated the 500 Error page to allow a user to return to the Menu in the rare case of an internal server error. Previously when this occurred, the user would have to reboot the panel.
- Fixed an issue where navigating to the Home page immediately after changing a setpoint value resulted in a 500 Error being displayed

Auxiliary Analog Input

- Fixed an issue where the panel would sometimes reboot if there is a space embedded in the unit fields of an Auxiliary Analog Input when the unit type is set to "Other"

Adjusted the range of the High Limit and Low Limit setpoints of an Auxiliary Analog Input when the inputs' units are changed

- Fixed an issue where a user could type in custom units that were too long to display on the screen. The Units field is now limited to 8 characters.

Updated Product List

- Enhanced the Product List section under the Networking settings to separate the local panel from other connected panels

Trending

- Enhanced Trending to support up to 10 trending selections at one time
- Fixed an issue where the Reset Zoom button would appear in the middle of the trending graph

Freeze Screen Update

- Updated the Alarms page to now have a “Freeze Data” button that will display a modal with the data values captured when the alarm occurred
- Enhanced the Freeze Screen modal to show more data and corrected instances where the wrong text index was being displayed

Select Data Pages – Trending, User Defined and Control Input

- Updated the select data pages to be sorted and displayed consistently throughout the application

Panel Time

- Removed an automatic service that was causing the panel time to be reverted after rebooting while connected to a network with internet access
- Added a dropdown for the user to select a time zone
- Changing the date format from US to European format will now update the date fields on the screen to be shown in the correct order

Communication Log

Fixed the communication log located in the “Status” section of the application to no longer ignore the most recent item in the log

Touchscreen Calibration

- Added a modal to be displayed after the user performs a touchscreen calibration indicating the result of the calibration. If calibration fails for any reason, the user will be prompted to retry

User Actions – Clearing Alarms

- Changed the description of the user action that is generated when a user clears an alarm to be more informative about the action that took place

Restoring Setpoints Files

- Changed the restore setpoint process to no longer consider zipped setpoint folders in the list of recognized files

IO Conflicts

- Fixed an issue where generating an IO conflict would cause the new channel information to revert to the previous value

Temperature Units - Spelling

- Corrected the spelling of the word “Celsius” in the Temperature Units selection on the Panel page

Deleted Saved Setpoints

- Enhanced the “Delete Setpoints” operation to no longer require the server to be restarted

Software Upgrade - Reboot

- Changed the software update process to require a reboot due to significant system level changes

Remote Trending - Time

- Changed the date and time displayed on the trending graph when viewed remotely to now align with the system time on the panel

Analog Output Modal

Fixed an issue where the modal for Analog Outputs was not consistent with other modals throughout the application

User Email Validation

- Added standard email validation when a user enters an email address which will detect invalid entries

Contacts Page

- Changed the Contacts Page to be distributed between all connected products

Panel Disconnect Indication

- Added a message to be displayed to the user after losing connection with a panel that is being viewed remotely. This process will alert the user if the connection is lost to a remote panel, but in this version, it is not able to detect if the remote panel is powered down.

Remote Users Page

- Fixed an issue on the Remote Users page where expired sessions were not being removed from the Sessions List

RELEASE NOTES FOR 11.00

Home Screen

- Fixed a text alignment issue that occurred when the Active Mode Control dropdown was set to Manual on the Condenser "Home" page

Remote Tabbing

- Fixed an issue that caused the screen to lock up when accessing the system remotely through a browser and pressing "tab" to cycle through setpoint inputs.

Step ID Numbers

- Fixed an issue that was incorrectly linking Condenser Steps that shared the same Step ID. This caused both Steps to change when toggling one to "manual" or "auto"

Low Override Condition

Fixed an issue where the “Home” page was not reflecting that a condenser step set to manual was automatically set to “auto” upon entering a Low Override condition.

Email - SMTP Factory Settings #2

- Fixed an authorization mismatch that caused emails and notifications using the Factory Settings #2 option to fail to send

Add Factory Card Page

- Fixed an issue preventing a user from opening the System Overview menu modal while accessing the Add Factory Card page

Panel Temperature Selection

- Fixed an issue where changing the temperature units from F to C or C to F was not distributed to all products within the Quantum HD Unity Network

Panel Pressure Units

- Added kpaG as an option to the pressure units dropdown on the panel page

Setpoint Maintenance

- Established the length of a Saved Setpoints filename, preventing the Submit button on the Restore Setpoint page from being pushed off the page
- Added a check to prevent the entering of invalid characters while saving a setpoints file that caused the save function to fail

Clean Screen Timeout

- Changed the default timer for the Clean Screen feature from 1 minute to 30 seconds
- Changed the units for the Clean Screen timer to be seconds rather than minutes

URL Field

- The URL field has been removed from the Edit page in the product list

About Screen

- Added additional fields to the “About” page that shows the board type, distinguishing between Q5 and Q6 processors
Added range checking to the Sales Order Number and Item Number fields on the “About” page to ensure the numbers entered are valid
- Changed the card field to now display the storage architecture being used in the system

Network Restore

- Fixed an issue where the network settings were not changed to default values after performing a network restore via the DIP switch

Security - Restore Default Users

- Added a feature that automatically Logs Out a User if they choose to restore default users while not logged in as one of those groups

Security Users

- Fixed an issue where a default user level (Basic, Operator or Service) could be deleted if it was first moved to another user level
- Added code that requires a new Security User to have a PIN code before they can be added to the list of users
- Added code preventing the loss of the PIN code when editing a Security User

Remote Users Page

- Added a “Session List” to the Security page that allows a user (local or remote) to see other users who are or have been remotely logged in to the panel

Number Entry

- Added code to make the displayed keypad consistent when clicking on a setpoint field in an unexpected way

On Screen Keyboard

- Corrected the Shift and Caps Lock functions on the on-screen keyboard

Network Configuration

- Added a check that prevents the entering of invalid network configurations which cause the controller to malfunction.

IP Address Range

Added a check that prevents the entering an invalid IP address and port number which causes the controller to lose connectivity with other Quantum HD Unity products

Compressor Overview

- Fixed an issue on the System Overview page where a Unity product in “Shutdown” was incorrectly shown as being in a “Warning” state

Remote Auto Login

- Fixed an issue where Auto Login failed when the Quantum HD Unity network contained more than one compressor controller

Networked Product O.S. Version Message

- Changed the Network List page updating the message requiring all Unity products to be O.S. version 10.40 or later

RELEASE NOTES FOR 10.51

System Operating Values - Vessel

- Fixed an issue that occurred when attempting to add a channel to either the System Operating Values (Vessel Home page) or to the Vessel User Defined page where the screen would turn white and the panel would become unresponsive.

Auxiliary Analog Channel Names

- Fixed an issue on the Vessel Analog Auxiliaries page where the title bar showed the value from the Condenser Analog Auxiliaries page.

Digital IO Fields

- Fixed an issue where attempting to change an IO Board value on the Digital I/O – Page 3 Configuration page was causing the wrong field to update.

Pump Pressure Differential Shutdown

- Changed the safety for Pump Low Pressure Differential from a Shutdown to a Warning.

Vessel Alarm Emails

- Correct an issue in the Vessel Alarm Notification emails where the Alarm message was not displayed for some Alarms.

Ping Command

- Changed the Ping Command function on the Diagnostics Page to now display the entered IP address and to execute the ping when the corresponding button is pressed.

RELEASE NOTES FOR 10.50

VFD Fan Ramp Control

- Considers only steps that are in auto mode as viable steps in the condenser step sequence. EG: 4 step VFD Fan sequence. Step 4 is in Manual mode, steps 1-3 are in Auto mode. After step 3 is started, steps 1-3 will ramp together, not requiring step 4 to be started.

Test Emails

- Fixed issue where test emails would be sent in an inconsistent manner when using the “Send Test Notifications” button.

Watchdog Jumper Update

- When the watchdog jumper process is initiated to clear setpoints, all settings are returned to factory defaults.

No Comms Message

- Fixed issue where if a loss of comms occurs, the wrong error message would display on Compressor Overview page.

Product Scroll (System Networking)

- Allow page to scroll if there are more products than can be displayed on the screen.

Software Upgrade Limitation

- Only allow upgrades to a newer version. Changing the program to a previous version is no longer allowed.

Enhance Saved Setpoints

- When setpoints are saved, folder now includes product and software version name in name.

Security/Users Scroll

- Added ability to scroll through users when there are more users than can be displayed on the page.

Product Selection Banner

- Updated look and feel of product selection banner. Lowered product selection dropdown, updated dropdown text to “Product Selection” and made product name text display.

Portuguese (Brazilian) & Spanish Language

- Added Portuguese & Spanish languages.

Language change on all products

- Fixed issue where language would not update on all connected products when changed.

Range limit for Ammonia Sensor Inputs

- Increased the High Range on the Analog I/O configuration for Ammonia inputs to 20,000 PPM to align with the Engine Room control range.

RELEASE NOTES FOR 10.40

Pumps - Auto / Manual control

- Fixed issue where the Manual (No Safeties) option was not listed for each available pump.
- Manual (No Safeties) option is now only available locally at the panel and when the user is logged in as Level 3."

Cross Product Communication

Pressure Calibration – Pressure Resolution and Atmospheric Pressure

- Added Atmospheric Pressure setting to all products
- The Pressure Display Resolution was added to handle special compressor applications. This was removed from other applications.

Sub-Navigation (Tabs)

- Sub-Navigation options are now a tab rather than just text.

Alarms – Clear Safety History

- Added confirmation of “Are you sure you want to clear the Safety History?” when clicking the Clear Safety History button.

Networking

- Added a “Add Factory Card” feature that allows you to commission a card on the Unity System where the Unity System’s Gateway has been altered from the original settings.
- You can now successfully restore Setpoints on a panel where the Unity System’s Gateway has been altered from the original settings.
- You can now successfully perform a system upgrade on a panel where the Unity System’s Gateway has been altered from the original settings.

RELEASE NOTES FOR 10.30

Condenser/Vessel

- Corrected an issue dealing with the conversion of Hg (negative) pressures when the Atmospheric Pressure was set to something other than 14.7 PSI
- Corrected an issue where upon power up the IP address would reset to 192.168.0.171 and the processor would reboot if a jumper is detected on JP1 pins 7 & 8 of the Communications Interface board.
- Corrected an issue where the IO integrity Check logic did not catch certain conflicts in I/O configuration
 - Corrected an issue where the condenser/vessel controller would boot directly to the Home screen rather than the System Overview screen when only either Condenser or Vessel was selected for control.
- Enabled text entry with physical keyboard
- Vessel freeze screen organizes the values per vessel
- Added ability to select alarm freeze screen data on a per vessel basis.