

# Quantum 1.7 Release Notes

## New Features in Quantum 1.7:

- Hyperion and override/clear override from keypad and timeclock
- Daylighting-always-enabled and daylighting-to-off options
- Offline changes to timeclock will synchronize on next connect to the system.
- Daylighting of switched loads
- QS Grafik Eye with wireless (and Pico, wireless occupancy sensor, and RF shades) to include device scenes.
- Grafik Eye input-closure sensors and programming
- BACnet change-of-value reporting to alert BMS of a parameter that has been changed.
- Single ballast auto-replacement by DBI (firmware upgrade to bus supply required)
- Advanced toggle programming model
- Sequences (manual and automatic)
- NWK GUI configuration (integration port settings, exposed output configuration)
- Reset after hours from EcoSystem wall controls
- Grafik Eye device scenes

## New Features in Quantum 1.6:

- User-defined shade groups (in 1.5, each area always had four shade groups, and all shades of one type were in the same group)
- Activate/inactivate occupancy from a keypad or timeclock
- BACnet with user-defined BACnet ID's and activity reporting
- QS Grafik Eye with EcoSystem
- International seeTouch keypads
- The same timeclock can control outputs in multiple systems
- Added integration support to control/monitor scenes, zones, ballasts, powerpanel loads, QSG, output closures, and shades.
- Control individual zones from a timeclock
- Added scene and shade templates for QS keypads (non-IR, single-button-group US keypads only)
- Keypad input-closure sensors and programming

## Quantum 1.7.33

Released 09/22/2009 by Samer Adra

### Q-Design

- Fixed transfer failure when DB includes sequence that does not terminate based on # loops (ID 21917).
- Fixed crash when trying to exit ballast addressing while it was waiting for a response from an assign command (ID's 21850, 21106).
- Fixed issue in which deleting a keypad after transferring (without closing Q-Design) would cause subsequent transfers to crash, until GUI is restarted (ID 21588).
- Fixed issue in which database conversion to 1.7.31 would sometimes fail.
- Q-Design now displays detailed error information during DALI ballast addressing--previously we displayed "unknown error" (ID 21107).
- Fixed open/close text in contact closure programming screen when master raise/lower was selected (ID

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21143).

- Fixed an issue in which Q-Design crashed when there wasn't enough space to save a file (ID 21547).
- Fixed conversion issue--in 1.7.31, conversion sometimes crashed if database had timeclock events or CCI programming.

### Q-Admin

- Dramatically improved the speed of exporting reports (ID 18935).

### Q-Graphic

- Fixed a warning message in Q-Graphic when importing an earlier version database (had a typo and was missing version information) (ID 21438).

### GreenGlance

- Fixed minor refresh issues in GreenGlance
- Improved GreenGlance performance; Q-Reporting used to consume almost 100% of a server's CPU if multiple clients used GreenGlance (ID 21734).

### System Operation

- Fixed a few minor diagnostic errors that came up in the processor logs (ID 21739).
- Fixed an issue that caused shades to stall by changing default fade time for shade presets from 8 to the default value defined in the shades--8 was too slow; includes conversion script (ID 21921).

## Quantum 1.7.31

Released 09/15/2009 by Samer Adra

### Q-Design

- Fixed an issue in which Q-Design sometimes crashed after an offline transfer (ID 21441).
- Fixed issue where switching from template to button-by-button corrupted DB's (multiple programming models under a button), and added conversion script to fix corrupt DB's (ID 21623).
- Fixed issue in DALI addressing where user couldn't exit GUI if finalizing while disconnected (ID 21109).
- Fixed issue where CCO maintained lighting and EcoSystem Ballast Module load types couldn't be used if database was converted from pre-1.5 version (ID 21561).
- Added support for converting 1.6.51 databases.
- Fixed Issue where Ballast Addressing screen would crash when trying to re-address a link (ID 21351).
- Fixed issue where After Hours timeout wasn't saved properly in Q-Design (ID 21506).
- Fixed issue where automatic sequences weren't working because GUI was sending wrong default values (ID 21286).
- Enable/disable of timeclock or Hyperion from a system device would cause transfer to fail with a linking error if there were multiple sub-systems (ID 21263).
- Default off level for occupancy toggle button changed to 'Inactive' from 'Unaffected' (ID 21463).
- Now consistently using the word "sheer" instead of "sunscreen" throughout our software (ID 21304).
- Fixed issue where a keypad button could not be programmed in the GUI to toggle an automatic sequence (ID 21215).

### Q-Admin

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- Fixed an issue in which unoccupied events were repeated in the event log.
- Added upgrade support for new ballast firmware for certain models (firmware 4.12).
- Fixed an issue where the Hyperion Setup wizard didn't display properly if the keyboard was used to navigate the grid (ID 21519).
- Fixed an issue causing publish to fail for very large (~NYT) databases, because partial transfer of pending changes was causing the Runtime Server to hang (ID 21216).
- Made Q-Admin screens consistent in layout, margins, styles, etc. (ID's 21073, 21293).
- Fixed issue in which Entering time zone of GMT-12 or GMT +12 would crash the GUI (ID 21317).
- Fixed issue where Q-Admin would crash if changing from Publish to Processor Update Wizard while Publish was querying (ID 21074).
- Fixed issue in which Diagnostics screen would crash when trying to re-address a link (ID 21351).

### Q-Graphic

- Fixed issue where Q-Graphic would not start if the config file was corrupted (ID 21279).

### Q-Reporting

- Fixed issue where Q-Reporting would sometimes crash on startup when loading when loading a new database (ID 21281).
- Fixed issue in which Q-Reporting would not start if the database contains an ESN (ID 21205).

### System Operation

- Fixed issue where downgrading processors from 1.8 to 1.7 caused processors to enter safe mode and stop working (ID 21183).
- Fixed issue in which automatic sequences did not work (ID 21308).
- Fixed issue in which "Master Hyperion Enabled" could not be written to via BACnet (21384).
- Fixed issue preventing BACnet COV from updating certain values right away (ID 21450).
- Fixed issue where processors would randomly crash/restart after a database transfer (ID 21454).
- Fixed issue in which Hyperion events were all executed at once if there were 255+ events (ID 21448).
- Fixed a timing issue in which 9 seconds and 0.9 seconds and 0.09 seconds were treated the same (ID 20892).
- Fixed a processor crash (watchdog reset and spurious interrupt) in some cases when using Hyperion (ID 21445).
- Fixed an issue non-lighting outputs on a QSE-IO were being toggled whenever an area is sent to a light level (e.g., occupancy events and daylighting) – only in QSE-IO v. 2.02 (ID's 21484, 21392).
- Fixed an occasional processor crash after successful DBI upgrade (ID 20622).
- Fixed an issue where requesting an area ID in BACnet was returning 0 instead of the object ID, which caused Tridium BACnet software to hang (ID 21535).
- Fixed an issue in which Hyperion overrides weren't maintained after a power failure (ID 21196).
- Fixed an issue in which processors randomly crashed during a keypad upgrade (ID 20480).
- Fixed issue where EcoSystem wall controls did nothing when "same area as control" or "all zones in area" was selected (ID 21328).
- Fixed Issue where Hyperion was not calculating the schedule for locations with out DST correctly (ID 21185).

### Quantum 1.7.27

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Released 08/14/2009 by Samer Adra

### Q-Design

- Fixed an issue that caused transfer's compile step to crash if a CCI's programming controlled outputs in multiple systems (ID 21218).
- Fixed an issue that caused transfer to fail with linking errors in databases containing OMX Grafik Eyes (OMX-4608-A) (ID 21141).

### Q-Admin

- Updated Q-Admin screens with a more consistent look and feel (ID 21073).
- Fixed an issue that caused timeclock "special events" to be deleted when restarting Q-Admin after creating them (ID 19065).
- We now ask for user confirmation before deleting timeclock "special events" when the user selects to use normal events (ID 21048).

### Q-Reporting

- Fixed automatic Logging database conversion, which didn't work in 1.7.25 (ID 21239).
- Added "clean Logging DB query timeout" as a user-definable option in the config file.
- Changed the default data-fetch interval from 3 seconds to 1 minute for clients of Q-Reporting, to keep the database from growing too large.

### System Operation

- Fixed shade raise/lower, which had stopped working in 1.7.25.

### Quantum 1.7.25

Released 08/13/2009 by Samer Adra

#### INITIAL BETA RELEASE CANDIDATE

### Quantum 1.6.49

Release 08/13/2009

#### System Operation

- Enhanced Logging database clean up to reduce the size of the database but still keep the critical data.

### Quantum 1.6.45

Release 08/09/2009

#### System Operation

- Fixed Issue: Zones that are set to unaffected in area scenes were turning off from EcoSystem wall controls.

### Quantum 1.6.43

Released 07/29/2009

# Quantum 1.7 Release Notes

## Q-Design

- Fixed Issue: Changing programming model from button-by-button to manual does not work for more than one device unless you toggle between Design screen and Set Up Areas screen each time.
- Fixed Issue: Q-Design crashes when updating processor OS on a large system.

## Q-Admin

- Fixed Issue: Scene status not updating correctly. The lights still go to the commanded scene but Q-Admin may display a different scene.
- Fixed Issue: Q-Admin crashes when user clicks "Expand All" in the diagnostics screen.
- Fixed Issue: If you delete a zone in the scene configuration scene then change to another scene, when you change back to the original scene Q-Admin will crash.
- Fixed Issue: Q-Admin crashes if you disconnect the processor NIC during processor upgrade.
- Fixed Issue: If you publish a bad floorplan file it crashes Q-Admin and there is no way to republish a good floorplan file.
- Fixed Issue: Q-Admin would freeze when attempting to upgrade more than one set of DBI's at a time
- Fixed Issue: Q-Admin would crash when attempting to upgrade a DBI AND all of its ballasts at the same time.
- Fixed Issue: Runtime server crashed in the background while performing nonloadshedding power calculations.

## System Operation

- Fixed Issue: After a transfer "After hours" is disabled and will not work until it is re-enabled.
- Fixed Issue: The processor debug commands OMXLD, OMXCA and OMXCA2 no longer worked in telnet.

## Update Device Firmware:

- 512 Grafik Eye version 3.40 - Fixed issue: Occupancy state is reversed for QSG-Eco

## Quantum 1.6.41

Released 6/26/2009 by Karen Oertner and Samer Adra

### Q-Update

- Fixed issue: Q-Update now reports database conversion progress correctly.

### Q-Admin

- Fixed issue: Timeclock events were not getting transferred in some cases (such as when they controlled an area scene that had no zones).

### System Operation

- Critical update to resolve processor resetting.
- Added protection to prevent possible processor resets after transfer.
- Added additional error logging to make troubleshooting easier.
- System now gracefully recovers from resets caused by "DMA error."

## Quantum 1.6.39

Released 6/25/2009 by Karen Oertner

### Q-Design

- Changed build to work on 64bit machines so we no longer need to convert in the field
- Fixed Issue: IR remotes were reversed in Q-Design (MIR-ITFS and C-FLRC).
- Fixed Issue: EcoSystem wall controls that were moved between areas would still control ballasts in the old area.
- Enabled cancel button on transfer pop-up during processor querying.

# Quantum 1.7 Release Notes

- Fixed Issue: Crash when cut/paste areas on the Floorplan Screen
- Fixed Issue: Setting Daylighting Target Level in Nighttime Commissioning doesn't work
- Fixed Issue: Crash when attempting to move switch legs with Eco wall controls

## Q-Admin

- Changed build to work on 64bit machines so we no longer need to convert in the field
- Fixed Issue: Fatal crash while editing after hours time outs

## System Operation

- Fixed Issue: Processor can now recover from failed cleanmem operations when transferring.
- Fixed Issue: Area scene monitoring was not updating in Q-Admin.
- Fixed Issue: Shade levels not updating in Q-Admin.
- Fixed Issue: Shades in a shade group getting out of synch after raise/lowers
- Fixed Issue: Added logging to troubleshoot memory-related errors.
- Fixed Issue: Daylighting was not getting initialized properly after a database transfer
- Fixed Issue: During a transfer of a large database, the omx link could reset and cause the entire processor to reset.
- Fixed Issue: Area Scene 1 sending XPJ to off and Eco ballasts to low end.

## Updated Device Firmware:

### Ballast code 4.9

- Fixed Issue: Fixed a bug that caused intermittent flashing due to how the PWM output duty cycle was set up in the interrupt.
- Fixed Issue: Fixed a bug that caused the driver to flash when powering on with 3-wire on a 277V link.
- Note: this release supports hardware revisions 0x02 and later

### QS Keypad 2.31

- Fixed Issue: Button LED's were turning off a few seconds after being pressed.

## Quantum 1.6.31

Released 5/6/2009 by Samer Adra

### Q-Design

- Fixed Issue: Control Station Device are not updated in case if user move the control station between areas
- Fixed Issue: Shade preset screen not scrolling properly and Shade preset grid width

### Q-Admin

- Fixed Issue: Clicking Report tab sometimes throws fatal exception
- Fixed Issue: Area column in select area popup of reports is not resizable
- Fixed Issue: Define Special Events screen displays wrong selection
- Fixed Issue: Running lamp maintenance report, area column is cut off
- Fixed Issue: Daylight commissioning sometimes hides sensors or shows as not responding in the Set Sensor Feedback screen.
- Fixed Issue: A server set to allow clients does not allow Q-Runtime to start if the "corporate/client" network is disconnected...

### System Operation

- Fixed issue: When editing time clock events processor would sometimes reset.
- Fixed issue: Dependent occupancy doesn't work properly when dependent on after-hours area.
- Fixed issue: Afterhours time out can not be enabled unless there is a transfer
- Fixed issue: Occupancy current status toggles sporadically between occupied, disabled and unknown

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- Fixed issue: Non-visible levels in presets or goto level commands were causing a problem with QSG daylighting.
- Fixed issue: Processors keep resetting
- Added ability to update QS devices from telnet.
- We are now saving a stack trace when we have a processor exception.

## Updated Device Firmware:

### Shade 0.46

- Fixes problems in calculating travel time from percent where shades would report 1 sec of motion when stopped.

### Grafik Eye 2.70

- Added multi holidays
- Fixed issue: Time clock and date don't default after an OOB
- Fixed issue: Changing from Unaffected to Min level does not flash lights anymore
- Fixed issue: Changes to make the QSG capable of successfully operating in a saturated (throughput) link.
- Fixed issue: Removed entry (Reset All) from EcoSystem menu
- Fixed issue: Triac loads now flash and update real time during eco sensor setup
- Fixed issue: Fixed and improved daylighting setup in EcoSystem
- Fixed issue: Loads connected to Triac will be off if zone set as EcoSystem
- Fixed issue: Daughter board boot code reported on code rev screen (even if only boot on DB)
- Added support for EcoSystem zones and PC mode presets
- Energy savings more accurate
- Removed HE and LE trim settings for Eco zone
- Unaffected zones can be set from normal mode (previously it was only through programming mode)
- Fixed issue with HE and LE trims not resetting to old values when backing out of the screen and not saving
- Reports target levels when requesting zone controller component

## Quantum 1.6.29

Released 5/6/2009 by Samer Adra

## New tool (Q-Update) to convert databases.

### Q-Design

- Change time to live for network to 32
- Fixed Issue:Setting Daylighting Target Level in Nighttime Commissioning Doesn't Work
- Fixed Issue:Deleting areas in Q-Design not reflected in timeclock
- Fixed Issue:A few systems are ignored during processor update process.

### Q-Admin

- Change time to live for network to 32
- Added Grafik Eye to Timeclock outputs combobox
- Fixed Issue:Q-Admin freezes during partial transfer if not all processors present
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- Fixed Issue:Running the power usage report in Q-Admin for more than 11 areas crashed Q-Admin
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### System Operation

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- Added ability for EcoKeypads to be updated by scene changes
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- Fix issue where ballast emergency level gets set to unaffected after transfer.

### Updated Device Firmware:

DBI 7.9  
Ballasts unchanged (highest rev 4.6)  
256k QS Grafik Eye 2.68  
QSE-IO 2.00  
QS Keypad 2.30  
QSE-NWK 6.31  
QS Shade 0.45 (unchanged)  
QS Shade Power Panel 0.2B (unchanged)

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Release 08/13/2009

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