

# NEW CORE OS



## Introducing: 8.7 OS Release

The comprehensive new release adds exclusive integration of the award-winning 2GIG EDGE™ security panel; New HHR Direct mode to connect ELAN® Handheld Remotes directly to a controller's Wi-Fi; All new Utilities subsystem with support for power, indoor air quality, water, energy management; Internal/Extender media player update including Bluetooth streaming via connected ITPs (Intelligent Touch Panels) with auto-routing options, and a new user interface; Important platform security updates; New mobile viewers that now utilize iOS/Android native incoming call interface for remote Intercom calls; KNX RGBW support; New themes and user interface updates; Drivers and general feature enhancements and fixes.

## 8.7 CORE OS FEATURES

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### 2GIG EDGE Security Panel Integration

- First-to-market integration of the award-winning 2GIG EDGE security panel

### HHR Direct

- Configure your master controller and extenders as access points for the ELAN® Handheld Remotes (HHR). Perfect for small installations or any installation where reliable Wi-Fi access might be a challenge

### Utilities Subsystem

- New control subsystem to support utility categories such as power, water, indoor air quality and energy management, with more device categories and drivers to come. *See driver section for information on new drivers for utilities.*
- New “Power Link” feature to associate system-configured devices with their power source, for port/outlet naming, event mapping and future cloud control

### Media Update

#### Internal/External Media Player Update

- **Bluetooth** - Cast audio from Bluetooth devices through ELAN Intelligent Touch Panels (ITP) to your controller output
- **NEW visualizer UI** for internal/extender player - Tap on the cover art icon to switch view back to classic layout
- **USB drives** - Support for local music on controller-attached USB drives
  - Internal tuner (Samsung, LG, Sony) can access TV channel favorites
  - LG quick launch support

### Platform Security Changes

- All initial connections to a controller via Configurator or Viewer will require one to set the Admin password
- Viewers: (mobile, desktop & touch panels), connecting to a controller for the first time will require approval before being added as an interface

### Surveillance Update

- Updated NVR (Network Video Recorder) timeline user interface
- Updated NVR events list user interface

### Intercom Update

- Push-To-Talk (PTT) Option
- New mobile viewers now utilize iOS/Android native incoming call user interface for remote intercom/door station calls

### Lighting

- KNX RGBW support
- Updated areas lighting UI on mobile portrait

### General Enhancements

- New live layer themes: Firefly, Aurora, Plasma, Smoke, Water
- Updated security tab user interface
- Updated history timeline: Security tab, Climate tab, Utilities tab, Graph Objects
- Improved mobile viewer portrait layout for lighting areas
- Support for local photos on controller-attached USB drives
  - Map USB photos folder location via storage manager
- Optional global setting to add climate scheduler to main UI

## 8.7 CORE OS FEATURES

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### New Viewers for ELAN® Control Systems

- New mobile and desktop viewers required for 8.7 user interface and features
  - iOS, Android, Mac, and PC Viewer found on their respective stores

### Drivers (See respective Integration Notes for details)

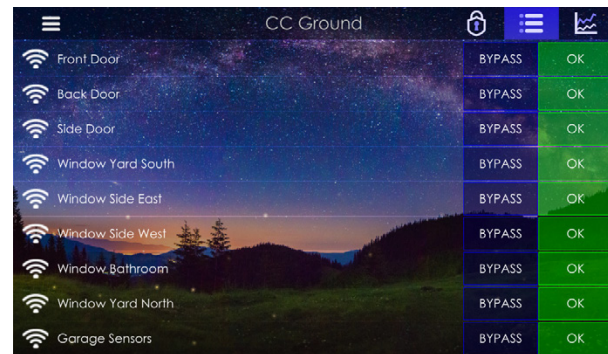
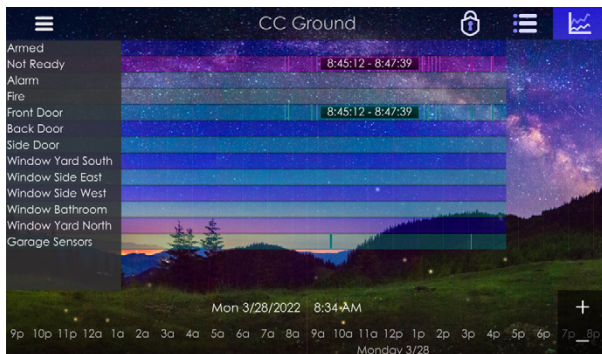
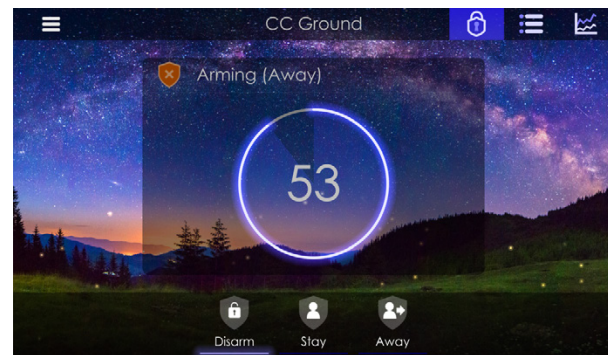
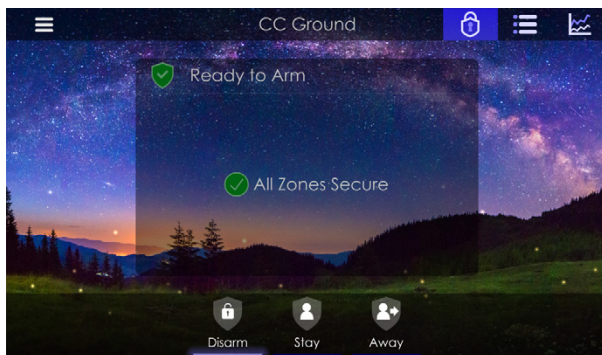
- 2GIG EDGE™ Security Panel
- LG® Projector Driver
- Utilities Subsystem:
  - Power:**
    - All new drivers for Panamax® and Furman® power management devices, including auto-discovery bridge:
      - Panamax M4315-PRO, Panamax M4320-PRO, Panamax MB1500, Furman F1500-UPS, Furman F1500-UPS E, Panamax VT1512-IP, Panamax M4000-PRO, Panamax SM3-PRO, Panamax VT4315-PRO, Panamax C3-IP
    - Luxul® PoE (Power Over Ethernet) control:
      - AMS-1208P, XMS-1208P, AMS-4424P, AMS-2624P, SW-610-24P-R, SW-610-48P-F, XMS-7048P, AMS-1816P, XMS-2624P, SW-510-48P-F
  - Water:**
    - Moen Flo
    - Phyn
  - Indoor Air Quality (IAQ):**
    - Airthings
  - Energy Management:**
    - Ted Pro
- KNX
  - RGBW Support
- AVR Updates:**
  - Denon Models:
    - X4700H, X8500HA, X8500H, X600H, X3700H, X2700H, A110, X1700H, S760H
  - Marantz Models:
    - SR5015, SR8015, SR7015, SR6015 NR1711, NR1200, NR1510

## 2GIG EDGE™ Security Panel Integration

Integration supported by EL-SC-100 and EL-SC-300 controllers only. 2GIG EDGE™ firmware for ELAN® Control System integration (v3.1.0.010 or later) can be found in the dealer portal on 2GIG.com.



- Exclusive integration of the award-winning 2GIG EDGE security panel
- Auto Zone Detection: Once the panel has been configured on an ELAN Control System all zones and zone names will be automatically added
- Arm – Disarm Status and Control: The viewer interface shows current panel security status and provides controls to arm and disarm the 2GIG EDGE system
- Zone Status: The viewer main security page displays all currently faulted zones. The zone page shows status for all zones in the 2GIG EDGE system
- View and Acknowledge 2GIG EDGE system messages and alerts from the ELAN Control System UI
- History View: The viewer history page displays zone fault and system status history
- Auto Arm (Quick Arm): Arming the panel from the viewer without entering a PIN code is supported
- Event Based Arming: Arming as a system command from the ELAN Control System event mapper is supported
- Zone Bypass: The 2GIG EDGE Panel will automatically bypass all faulted zones when arming from ELAN Control System user interface



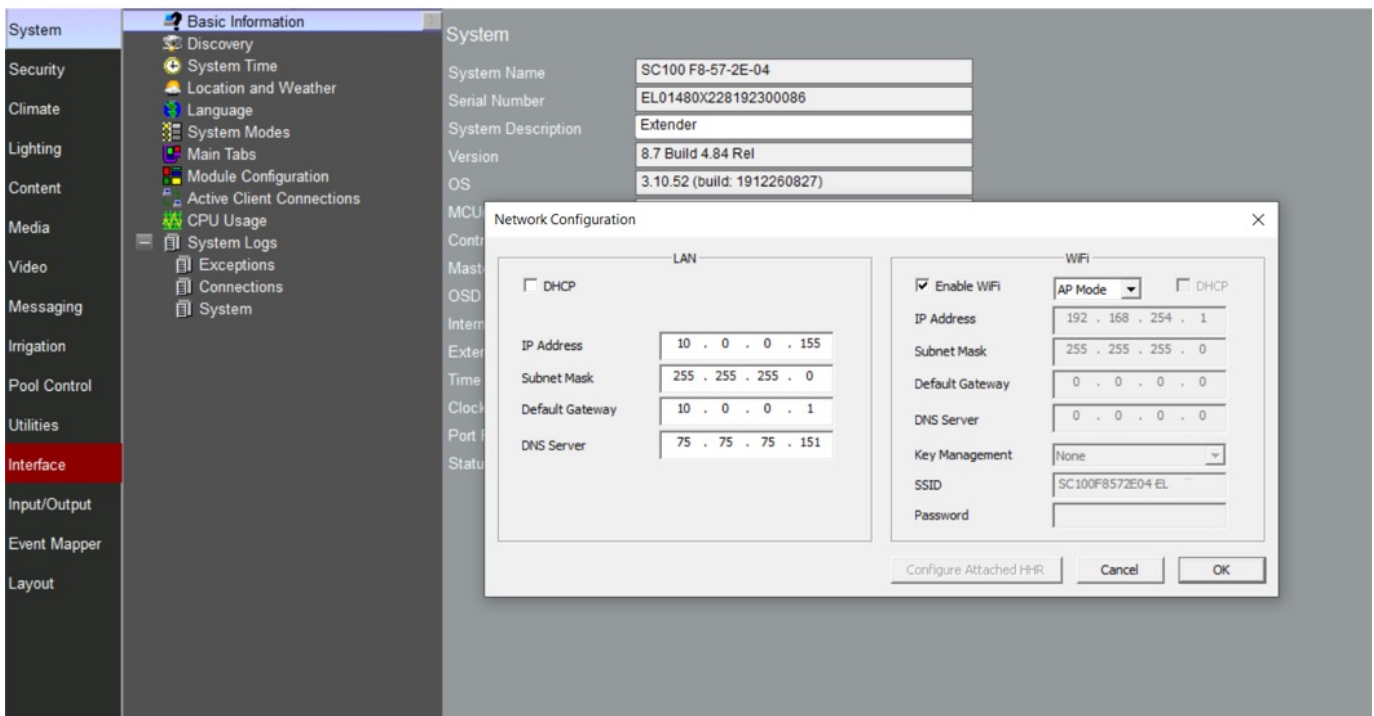
## HHR Direct Mode

Configure your master controller and extenders as Wi-Fi access points for the ELAN® Handheld Remotes (HHR). Perfect for small installations where the installer does not want to be responsible for local network or any installation where Wi-Fi access might be a challenge.

HHR Direct Mode supported by EL-SC-100 and EL-SC-300 controllers only.

HHR Direct Mode can be used on the master controller and extender controllers, however, only one remote can be configured for HHR Direct Mode per controller. You can configure additional HHRs (Handheld Remotes) in the standard Wi-Fi configuration in addition to the one-HHR-per-controller in HHR Direct Mode.

Please see the updated “HHR” Integration Note for details on how to configure HHR direct mode.



## Utilities Subsystem

A new subsystem is now available for ELAN® Control Systems to support utility categories such as power, water, indoor air quality and energy management, with more device categories and drivers to come.



### FEATURES:

**Dashboard & Controls:** Main tab for each utility device contains current health status of device and/or element the device is monitoring, any controls available for device, and configurable health thresholds.

- To adjust health thresholds for each parameter in viewer:
  - *Viewer Settings > Advanced Settings > Utilities*
    - Fair (Low), Fair (High) - Yellow – Warning Threshold(s)
    - Poor (Low), Poor (High) - Red – Error Threshold(s)
- To adjust health thresholds for each parameter in configurator:
  - *Configurator: Input/Output tab > Numeric Inputs > [Device]:[Parameter]*
- To add/remove parameters meters displayed on the viewer dashboard:
  - *Configurator: Input/Output tab > Numeric Inputs > [Device]:[Parameter] > Show in Dashboard*

**Usage Tab:** Configurable usage readings segmented by hour, day, week, month.

- To adjust health threshold for each utility's parameter in viewer:
  - *Viewer Settings > Advanced Settings > Utilities*
- To adjust health threshold for each utility's parameter in configurator:
  - *Configurator: Input/Output tab > Numeric Inputs > [Device]:[Parameter] > [Values]*

**History Tab:** Parameter readings plotted over time using the updated history timeline inspector

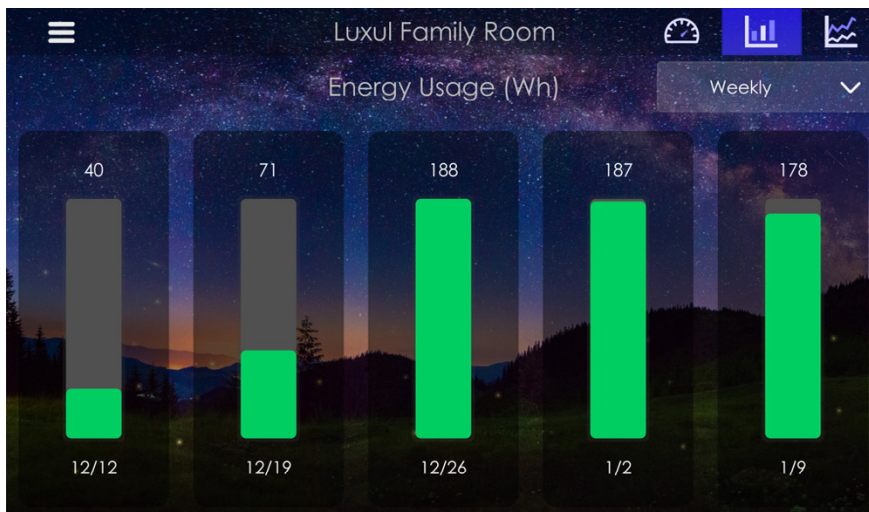
## Utilities Subsystem

### Power Link

As part of the new power utilities subsystem, we introduce the Power Link feature to optionally associate a system-attached device with its power source, for auto-port/outlet naming, event mapping and future cloud control.

In configurator, for applicable devices, there will be a new Power Link pull-down showing the power devices attached to the utilities subsystem, allowing one to select the *power device > outlet/port* to which the system device is attached. The name of the device(s) attached via Power Link will auto-populate the outlet/port in the user interface for the power device in the viewer.

Configurator: *Subsystem > Device [main tab for device] > Power Link: [power device] [outlet/port]*  
 [See the respective utilities integration notes for configuration information]



## Internal/External Media Player Update

### ITP Bluetooth Support

Bluetooth connectivity now enabled on ELAN® Intelligent Touch Panels (ITP) allows you to quickly pair your Bluetooth device and stream to your internal/extender players outputs. Auto-routing options allow you to connect and playback all from your Bluetooth devices without the need to configure the ELAN Control System interface.



A minimum of one ELAN Intelligent Touch panel (ITP) attached to a master controller, EL-SC-100, and EL-SC-300, running Core 8.7 and later. EL-SC-300, EL-SC-100, and ELAN g1 controllers supported as an extender to an EL-SC-100 or EL-SC-300 master for Bluetooth streaming.

Bluetooth 4.0 is leveraged in the ITP running ELAN Core 8.7. The ITP functions as a Bluetooth Audio Stream receiver, much like a Bluetooth-capable auto head unit or Bluetooth Speaker. After pairing, your device will recognize the ITP as a media/audio device, with remote control commands (Play, Pause, Back, Next) and track metadata presented in the media player UI. Line-in (level) volume control is performed by the connected device. Please ensure BT volume on the connected device is at an optimal volume level before playing audio. A herculean effort went into enforcing common UI/UX across the different supported OS platforms and the applications running on them, but some subtle differences may remain. The Bluetooth range on an ITP will vary based on wall-mounted vs. stand and materials used in construction.



## Internal/External Media Player Update

### Connection & Playback Logic

You can have up to 3 concurrent Bluetooth connections to each ITP but only one device can play through each internal/external player and its designated outputs at a time. Add extender controllers for additional concurrent stream outputs.

- When one connected Bluetooth device is playing, other connected devices are put in pause mode.
- If a second Bluetooth device playback is initiated from the device while the first plays, the second device is heard through the output and the first device is paused.
- Selecting a paused Bluetooth source in the interface will initiate playback from that device, pausing any other Bluetooth device playing (if any).

### BLUETOOTH ADVANCED SETTINGS:

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#### Settings > Advanced Settings > Bluetooth

Set up routing rules for each Bluetooth enabled ITP so users need only connect to the ITP as a standard Bluetooth device from their Bluetooth enabled device of choice to auto-configure internal/extender player and zones for immediate playback, all without need for user to touch the ELAN Control System interface.

#### Device Connect Action

- **No Action** – (Default) Connecting a Bluetooth device to this panel will not auto-enable/route
- **Route if Zone inactive** – Connecting a Bluetooth device to this panel will auto-enable/route signal to all inactive zones specified in the Zone Inclusion field
- **Route Always** – Connecting a Bluetooth device to this panel will auto-enable/route signal to all zones specified in the Zone Inclusion field, whether currently inactive or active

#### Output Device

- **Auto** – (Default) If more than one player is installed, Auto setting will select a player currently not in use that can reach the zones in Zone Inclusion list
- **[Player]** - Select specific Internal or Extender player's output for Bluetooth devices connected to this ITP.

#### Zone Inclusion

- Zones that will be turned on and Output Device player enabled when Bluetooth device connects to the panel
  - *Note: Your Internal/Extender Player must be configured as a source in your zone controller and visible (Show) for this dialog to populate correctly*

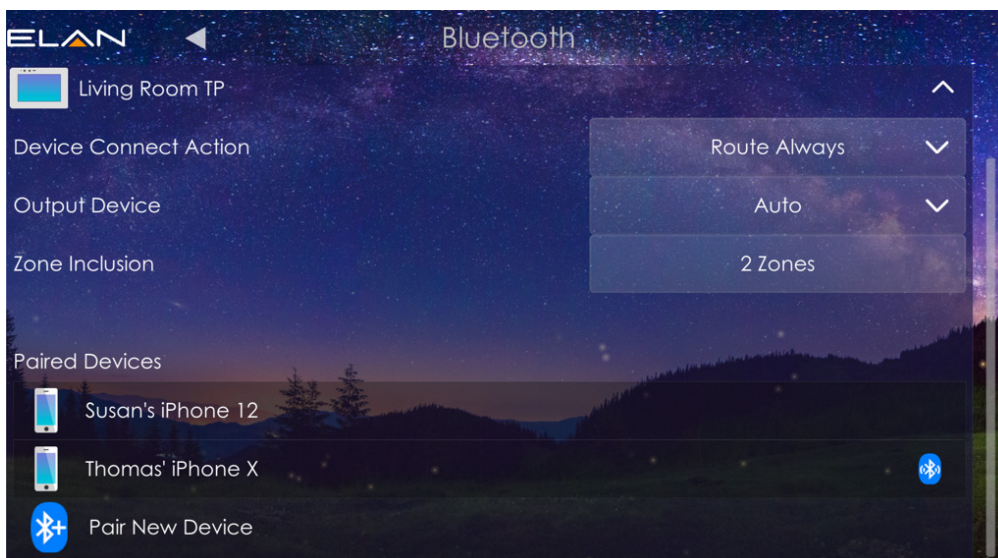
Note: Zones enabled via this function, will turn off after 30 minutes, if Bluetooth device is no longer connected to the ITP

## Internal/External Media Player Update

### Bluetooth Pairing

Pairing of a Bluetooth device can be done in a few areas of the ELAN® Control System interface:

- Internal/Extender Player UI when displayed on a Bluetooth-enabled ITP panel
  - Pairing added to the player UI, top right corner, to promote quick access to the function
- *Settings > Advanced Settings > Bluetooth*: There is a “Pair New Device” under each Bluetooth-enabled ITP panel in the list. Note: Proximity to the panel one is trying to pair with will help ensure success



### Disconnect, Forget a Bluetooth Device

*Settings > Advanced Settings > Bluetooth*: Devices which have at one time connected and/or are currently connected will appear under each Bluetooth-enabled ITP panel in the list.

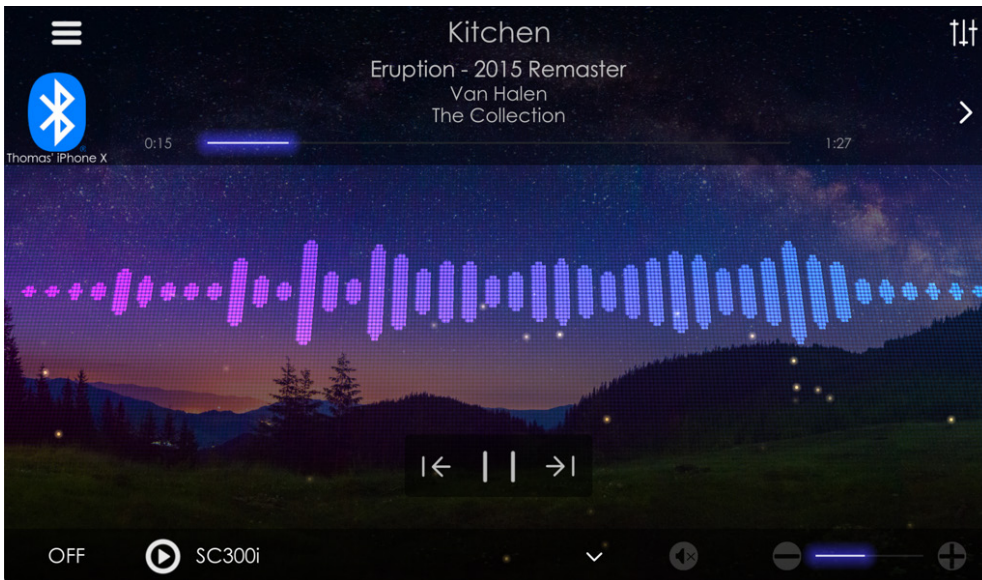
Select the device to access the Disconnect and Forget functions

- **Disconnect** – Will disconnect the device but retain it in the device list, allowing device to connect again later without having to re-pair
- **Forget** - Will disconnect the device, if connected, and will also purge device from the list of Bluetooth devices, preventing connection until device is paired again

## Internal/External Media Player User Interface

### NEW Visualizer

New visualizer layout and user interface design is set as the default view for the internal/extender player. Tap on the cover art icon will switch view back to classic layout.



### USB Drive Support

The 8.6.500 OS update introduced the Storage Manager feature to EL-SC-100 or EL-SC-300 controllers. Developed to manage USB drives attached for use with the Onboard NVR, as well as for mapping network drives for local music and pictures. In 8.7, Storage Manager will allow one to specify folder(s) on the attached USB driver for local music, accessible by the internal/extender player, and photos, used for screensaver/slideshow.

**Files:** 5000 maximum files recommended

**Formats:** .mp3, .m4a, .wav

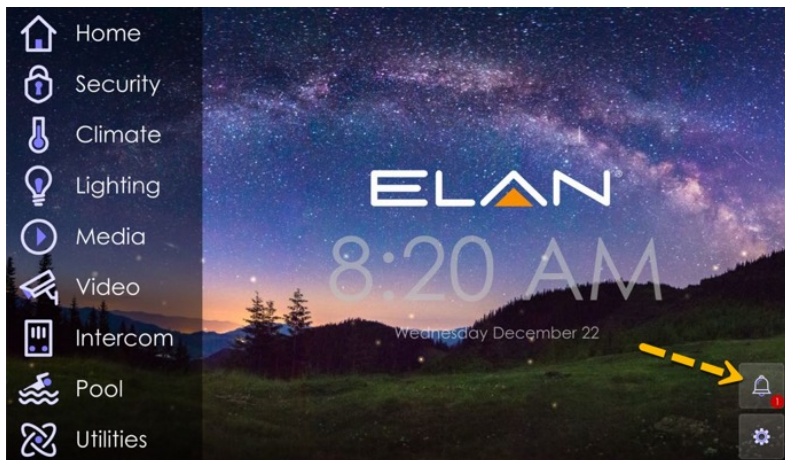
**Settings > Advanced Settings > Storage Manager**

*Note: As mentioned when Storage Manager was introduced, please be sure to "Unmount" the drive in Storage Manager before physically removing the drive from a running SC100/SC300 controller to avoid data corruption and/or synchronization issues.*

## IMPORTANT Platform Security Changes

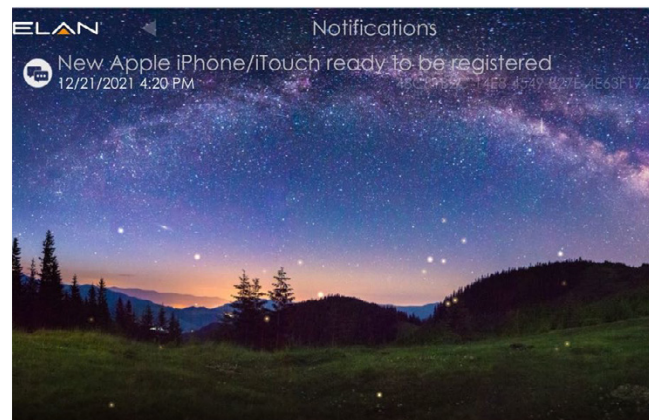
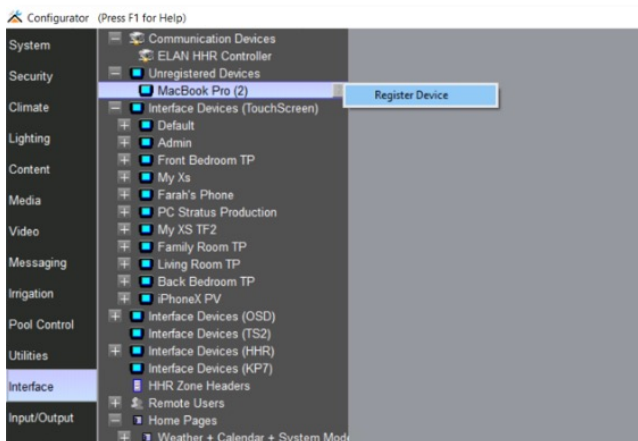
**Admin Password:** All initial connections to a new controller via configurator or viewer will now require one to set the admin password.

**Viewer Inclusion:** Viewers: (mobile, desktop & touch-panels), added to a controller will require approval prior to being registered to the controller. In viewer, requests appear in notification's page, accessible via a bell icon on home page. In *Configurator*, unregistered devices will appear at the top of the interface tab and can be approved with a right-click. Notifications in both locations are stateful, meaning they will only appear when a device is connected and in the unregistered state.



## Core Installer Update w/ Extenders

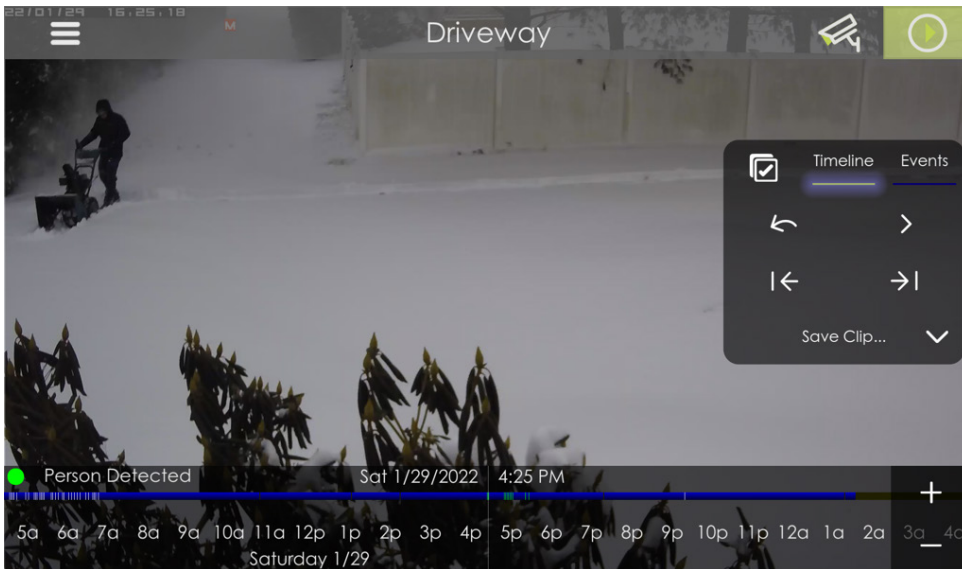
Due to admin new password requirement for all new controllers mentioned above, new ELAN Core Installers will require only the master controller credentials entered to update attached extender controllers with passwords, allowing for easier local and remote updates. When extender(s) are detected, the Core installer will present a checkbox for extenders to be included in the core update process; checking the box will update the firmware of extenders w/o need to enter password for extender(s).



## Surveillance Update

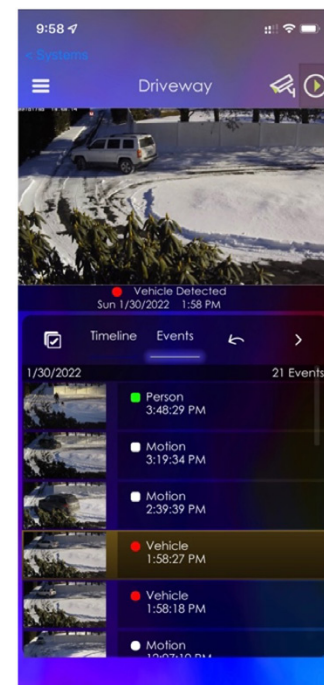
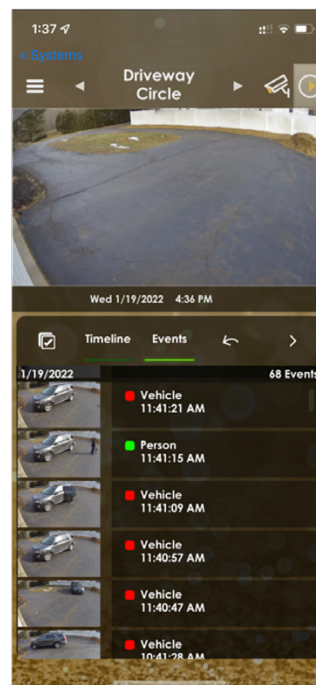
### Updated timeline (NVR)

Timeline interface, used in NVR playback and history inspectors in security and climate tabs, has been refactored for better performance and easier maintenance. The center of the screen shows the play head/inspector bar and the timeline slides under it. To adjust its location, tap into the timeline and slide left or right. The plus and minus buttons adjust the scale/duration shown in the timeline while the play head/inspector remains fixed in the center of the screen.



### Updated NVR Events List, Portrait Mode

New portrait mode layout provides all the event details in a scrollable, tap-to-jump listing.



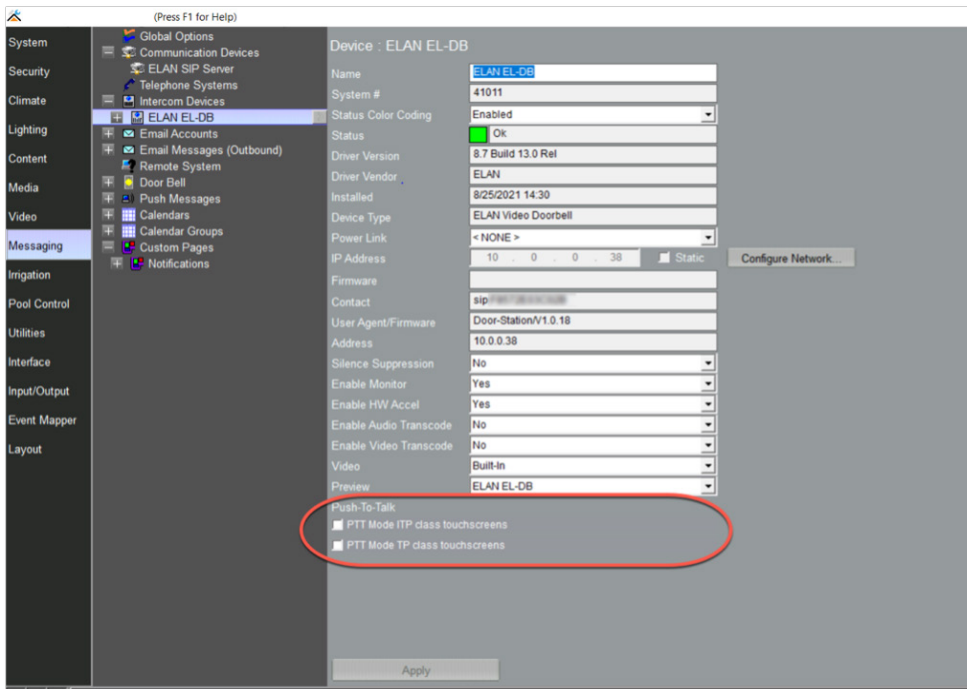
## Intercom Update

### Push-To-Talk (PTT)

Push-To-Talk (PTT) Option has been added Intercom Devices tab in Configurator for installations that may have a lot of ambient noise affecting audibility during a typical intercom session. This option can also provide a desired level of privacy on the ELAN® Control System viewer answering side.

Default behavior when answering a door station call is a full duplex session, audio, or audio/video session where both parties can communicate with each other simultaneously. Push-To-Talk (PTT) option will create a half-duplex session, both parties can communicate with each other, but not simultaneously; the communication is one direction at a time.

This optional setting within configurator is by viewer class, meaning the function will apply to each viewer type selected: ITP, TP, iOS, Android.



## Intercom Update

### Mobile Viewers

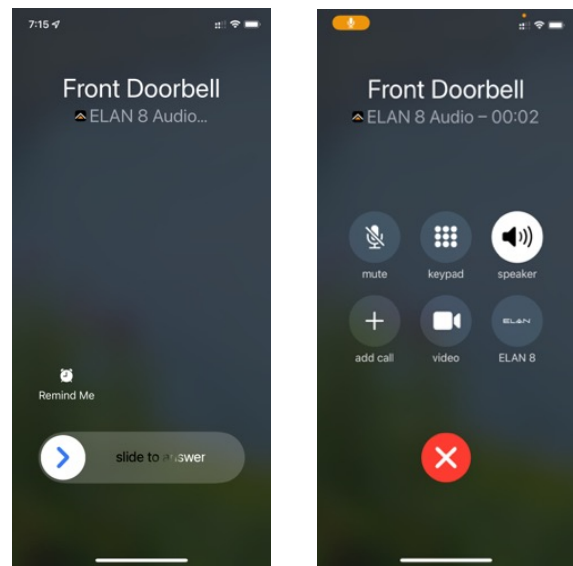
#### Leverage Native OS Incoming Call Interface

New mobile viewers now utilize platform-native (Apple's CallKit, Android's telephony manager) VoIP (Voice Over Internet Protocol) phone user interface and prioritization for remote intercom calls. Intercom calls ring to your remote mobile device like a phone call, allowing a user to answer as audio-only or flip into the ELAN® Control System app for full duplex audio-video call or audio-only call.

#### iOS Devices

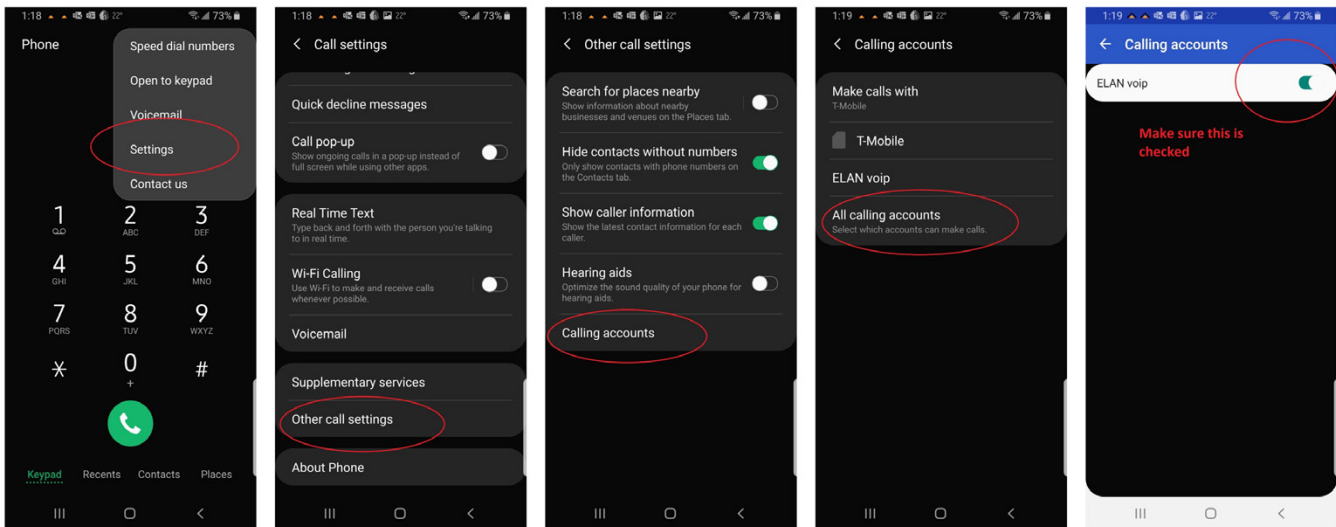
When an iOS device is locked, the phone screen will be shown when receiving an incoming call from an ELAN system. The call, while in this mode, will be audio-only. Note the "ELAN" button to optionally switch into ELAN application for Intercom Video/Audio call.

When iOS device is unlocked when an intercom call comes in, the typical push notification will be shown, and one can enter ELAN Intercom interface with tap on that notification.



#### Android Devices

Android will require a settings update to take advantage of incoming call user interface. Please make sure that the latest ELAN Viewer for Android is downloaded from the Google Play store.



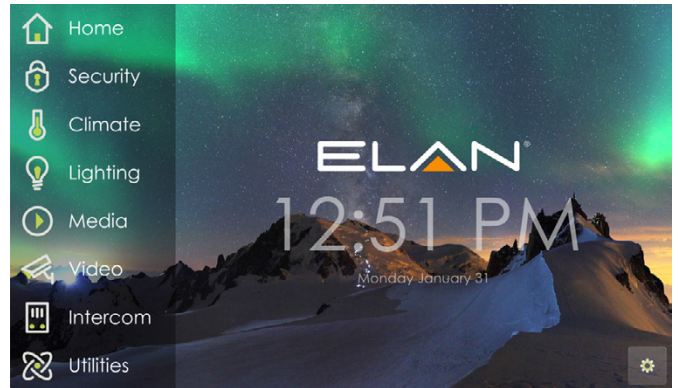
## General User Interface / User Experience Updates

### New Themes

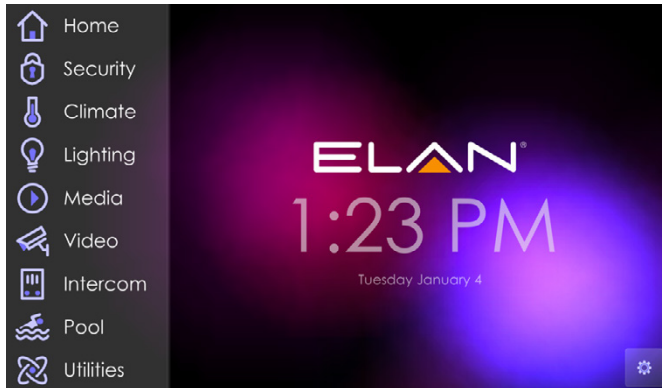
New Live Layer (animated) Themes in 8.7 OS release include: Firefly, Aurora, Plasma, Smoke, Water



**FIREFLY**



**AURORA**



**PLASMA**



**SMOKE**

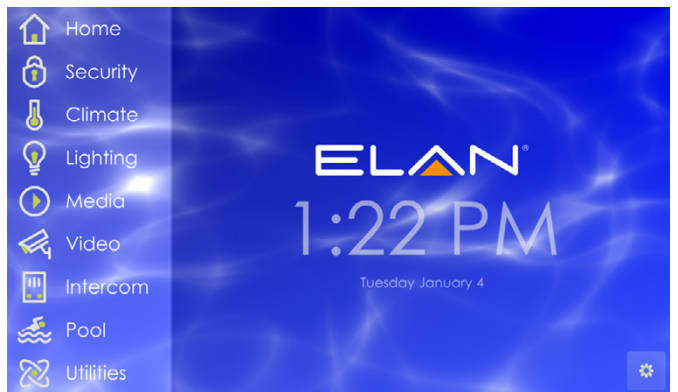
To change the theme on your current interface, (or all interfaces), go to:

*Settings > Select Theme*

- Applies theme to current device

*Settings > Advanced Settings > Configure This Station > Themes*

- Select theme for current or all interfaces
- Access the Theme Editor

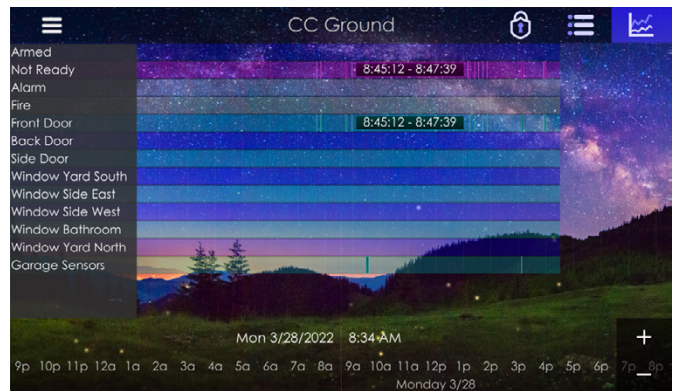
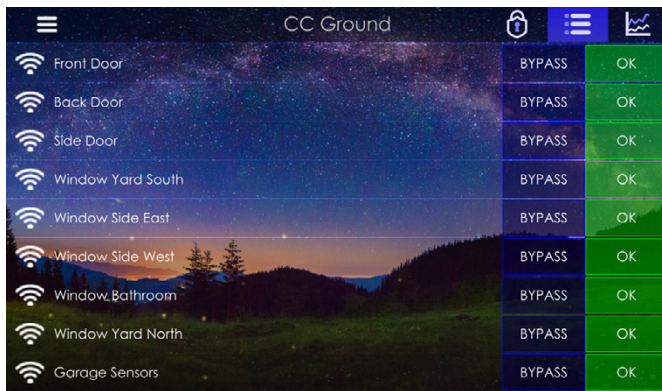


**WATER**



## General User Interface / User Experience Updates

### Updated Security Tab Interface



## Management Cloud Documentation

### Relevant Updates for 8.7 Release:

- ELAN® 8.7 What's New Guide (*this document*)
- ELAN® 8.7 Release Notes
- **Integration Notes:**
  - 2GIG EDGE™ Integration Note [*New*]
  - HHR Direct Mode Integration Note [*New*]
  - ELAN Player Integration Note [*Update*]
  - ELAN Utilities Integration Note [*New*]
  - Moen Flo Integration Note [*New*]
  - Airthings Integration Note [*New*]
  - Phyn Smart Water Assistant Integration Note [*New*]
  - Panamax®-Furman® Integration Note [*New*]
  - Luxul® PoE Integration Note [*New*]
  - Samsung® IP 2020 Integration Note [*Update*]
  - KNX Lighting Integration Note [*Update*]
  - KNX IO Integration Note [*Update*]
  - Sony® XBR Integration Note [*Update*]
  - LG® IP TV Integration Note [*Update*]

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### New ELAN Viewers

Updated mobile and desktop viewers required to take advantage of the new 8.7 OS user interface and features. iOS, Android, Mac and PC viewers found in their respective stores.

### Driver Updates

Please refer to the 8.7 Core OS release notes for fixes, integration notes for feature and configuration updates located in Management Cloud.