Integration Note

Manufacturer:	ELAN Intelligent Video Doorbell
Model Number(s):	**EL-DB**
Comments:	Minimum Core Module 8.3.750+
Document Revision Date:	08/19/19

OVERVIEW AND SUPPORTED FEATURES

The ELAN Intelligent Video Doorbell is a network-based SIP Video Doorbell solution with an integrated video camera for monitoring door activity. The ELAN Intelligent Video Doorbell camera is also IV enabled for enhanced motion detection. ELAN integration with this ELAN Intelligent Video Doorbell supports the following features:

1. **Paging-** When the "Call" button is pressed on the ELAN Intelligent Video Doorbell, it will call all appropriate Intercom Stations based on the configured dial plan of the ELAN System. Refer to the Intercom Training Guide on the ELAN dealer resource page for extensive details on setting up dial plans.

2. **2 Way Calls-** A user at an Intercom Station can communicate with the person who pressed the "Call" button.

3. **Video Monitoring-** The camera in the ELAN Intelligent Video Doorbell may be accessed from any Intercom Station to view the caller.

4. **Relay/Door Strike Actuation through the UI and Event Mapper**- This feature provides the ability to open and close a Door Strike relay. The Door Strike relay can be used as a momentary switch or can be toggled.

5. **Door Sense Input**- Allows for a sensor to be used with ELAN Intelligent Video Doorbell to detect when a door is open or closed.

6. **PIR Detection**- Allows the ELAN Intelligent Video Doorbell to have a passive motion detection that can be used with Event Maps **NOTE**: PIR is set to High by default and can only be adjusted through the ELAN Intelligent Video Doorbell Web GUI.

7. **Customizable LED LightRing™**- Gives the user the ability to customize the color of the LightRing™ depending on the state the ELAN Intelligent Video Doorbell is in. Up to 4 custom states can be set using the event mapper.

8. **Firmware Update**- Provides the ability to directly update Firmware through ELAN Configurator.

9. **Intellivision (IV) Enabled**- Provides the ability for the camera to detect objects to be used with Event Maps or an ELAN NVR.
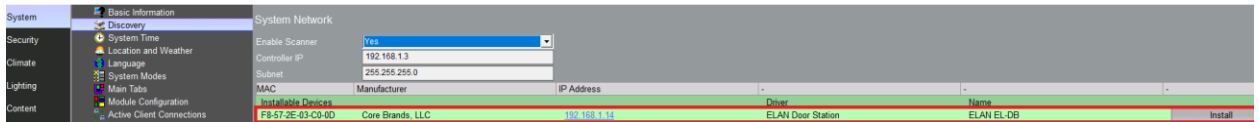
Not Supported Features

1. **Object Classification** – Though the ELAN Intelligent Video Doorbell's camera is IV enabled it does not have the capability to differentiate between motion, person, and vehicle. The ELAN Intelligent Video Doorbell can only detect if motion is present.

All Other Features are Unsupported unless stated above.
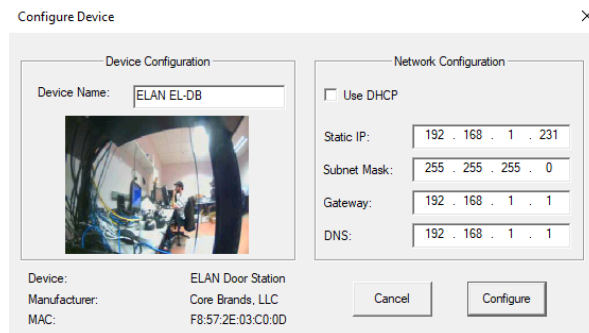
INSTALLATION OVERVIEW FOR DISCOVERY

The ELAN Intelligent Video Doorbell is DHCP by default and can be added through Discovery and can also be added through the traditional SIP method. The following steps will show how to add the ELAN Intelligent Video Doorbell through Discovery.

1. Make sure the ELAN Intelligent Video Doorbell has power. PoE is recommended, the DC input can be used optionally where PoE is not available.

2. Using the Discovery tab in configurator find the ELAN Intelligent Video Doorbell and click the install button next to it.

3. Once the install button is pressed a pop up window will appear that allows you to add the ELAN Intelligent Video Doorbell with a DHCP or static IP address (Static IP is recommended). In this window it will also ask for the username and password of the ELAN Intelligent Video Doorbell. The default Username for the ELAN Intelligent Video Doorbell is **ELAN** and the default password is **3526**.

4. Adding the ELAN Intelligent Video Doorbell through discovery will then add all facets of the ELAN Intelligent Video Doorbell into the system configuration. When added the ELAN Intelligent Video Doorbell will add the video camera to the video tab, the LED LightRing™ to the lighting tab, a sip server communication device and intercom to the messaging tab, and input and outputs on the input/output tab.

ELAN Intelligent Video Doorbell Configurator Settings Overview

Once the ELAN Intelligent Video Doorbell has been added to the controller it can be configured in multiple ways according to the user's wants/needs.

Video Tab Settings

Under the video tab the ELAN Intelligent Video Doorbell's camera will be added. When clicking on the ELAN Intelligent Video Doorbell it will show a list of different settings.
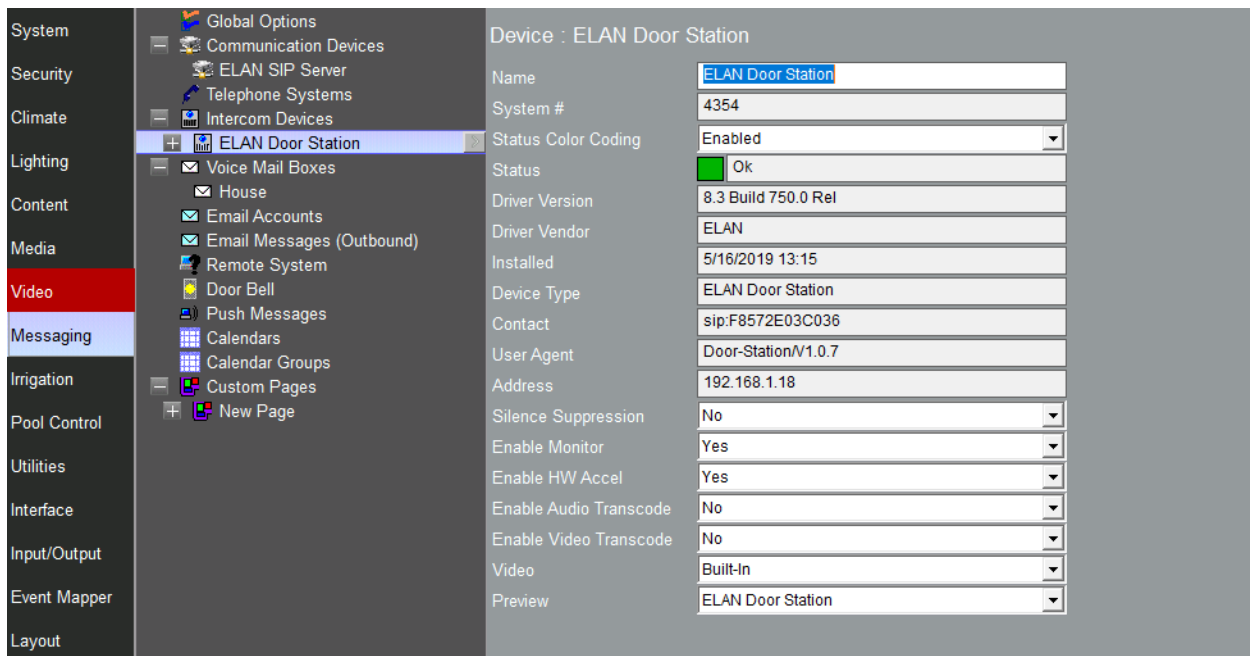

1. The First Option on the list is to change the name of the ELAN Intelligent Video Doorbell. If you change the name on any of the ELAN Intelligent Video Doorbells drivers it will change the name for all instances in configurator.

2. This Page will also show important information such as the URL for the camera, Username (Default=ELAN), Password (Default=3526), IP Address for the web GUI, and the current Firmware.

   a. As shown in the video tab, ELAN has the capability to change the password and IP address of the ELAN Intelligent Video Doorbell Directly from configurator.

3. The next settings on this page will affect the layout of the camera page on the video tab.

   a. Show Audio Control – If enabled there will be a audio button when viewing the ELAN Intelligent Video Doorbell Camera. When pressed the user is able to listen to the audio coming from the ELAN Intelligent Video Doorbell.

   b. Rotate Image – This setting will adjust the rotation of the camera so that the ELAN Intelligent Video Doorbell can be mounted vertically or horizontally. This will rotate the image in 90°. NOTE: This is a software roation. The recommeneded orientationis vertical in order to view the largest area.

   c. Hide Full Screen Control – If enabled this will hide the full screen button from the viewer. The user will not be able to see the video stream in full screen.

   d. ELAN Timeline OSD- This will place a timeline at either top or bottom of the screen when playing back video on the NVR. This can be set to off, top, or bottom.

4. Remote Mode – This dictates the quality of the video when on a remote connection. The default is passthrough which will give the same settings as if the connection was not remote; however, if you experience any problems you can lower it for remote viewers.

   a. The three options you can choose between are passthrough, transcoder, and low capability.

   b. Transcoder Res – This will dictate the quality of the video if transcoder is selected for Remote Mode.

Messaging Tab Settings

Under the messaging tab, the ELAN Intelligent Video Doorbell appears in the Intercom Devices node. There will be settings that can be changed to adjust the user experience of the ELAN Intelligent Video Doorbell.

1. As with the video settings, you can also adjust the name and Status color coding for the ELAN Intelligent Video Doorbell

2. This page will also show the user the IP Address of the ELAN Intelligent Video Doorbell.

3. After the IP address there are multiple settings that will affect the intercom portion of the ELAN Intelligent Video Doorbell

   a. Silence Suppression – When enabled this will stop audio from transmitting to or from the ELAN Intelligent Video Doorbell when audio levels are too low.

   b. Enable Monitor – When this setting is enabled it allows for viewer to monitor the ELAN Intelligent Video Doorbell from the intercom tab.

   c. Enable HW Accel- Enables Hardware Acceleration if the device supports it. This option should be enabled by default.

   d. Enable Audio Transcoder- When enabled this will compress audio before sending it to the viewer. It can be used for remote connections having issues.

   e. Enable Video Transcoder – Similar to the audio transcoder this will compress the video before sending it to the viewer which can be used to help remote connections having issues.

4. The options node gives you the ability to enable the Door Strike when on intercom calls

   a. Click the + button next to your door station which will bring up an options tab.

b. Select the Options tab and it will bring up the screen below.

System	Global Options	Options: ELAN EL-DB	
Security	Communication Devices	Output 1	Door Strike
	ELAN SIP Server	Output 1 Name	test
Climate	Telephone Systems	Output 1 Type	Momentary
	Intercom Devices	Output 2	< NONE >
Lighting	ELAN EL-DB	Output 2 Name	
	Options	Output 2 Type	< SELECT >
Content	Voice Mail Boxes		
	House		
Media	Email Accounts		
	Email Messages (Outbound)		
Video	Remote System		
	Door Bell		
Messaging	Push Messages		
	Calendars		
Irrigation	Calendar Groups		
	Custom Pages		
Pool Control	New Page		

c. Under output, select the Door Strike.

d. You can change the name that will show on the button in the intercom call.

e. Select whether you want the door strike to be a toggle or just momentary.

ELAN Intelligent Video Doorbell Viewer Settings

The ELAN Intelligent Video Doorbell also has viewer settings the user can adjust at any time.
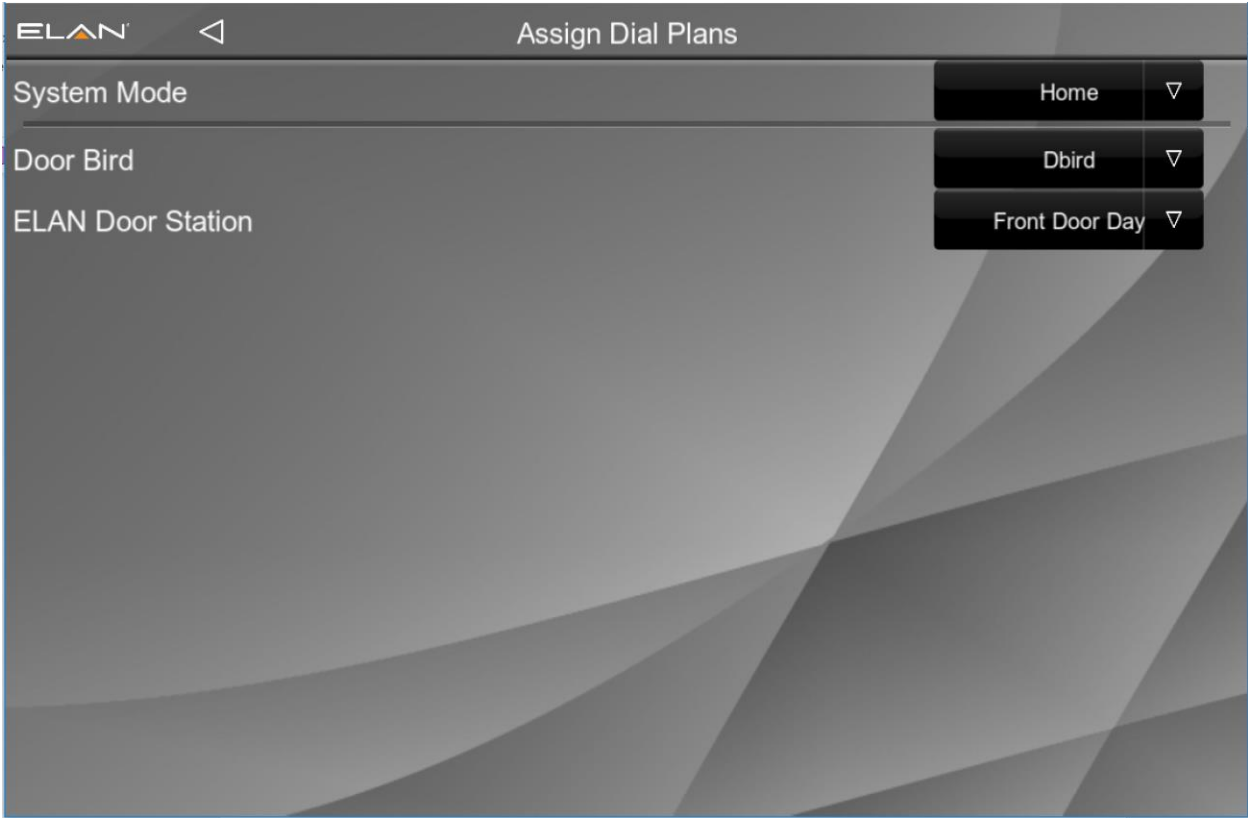
Creating and Assigning Dial plans

Create a new dial plan. You can create more than 1 for a s doorstation. For instance, you may want the door station to ring differently at night vs durring the day. Below, the first section is for the audio chime from a g1 and to which zones. Tier 1 is to set which targets you want to for the first 30 seconds. Tier is for the following 30 seconds. After 1 minute the ringing will cease if not answered.
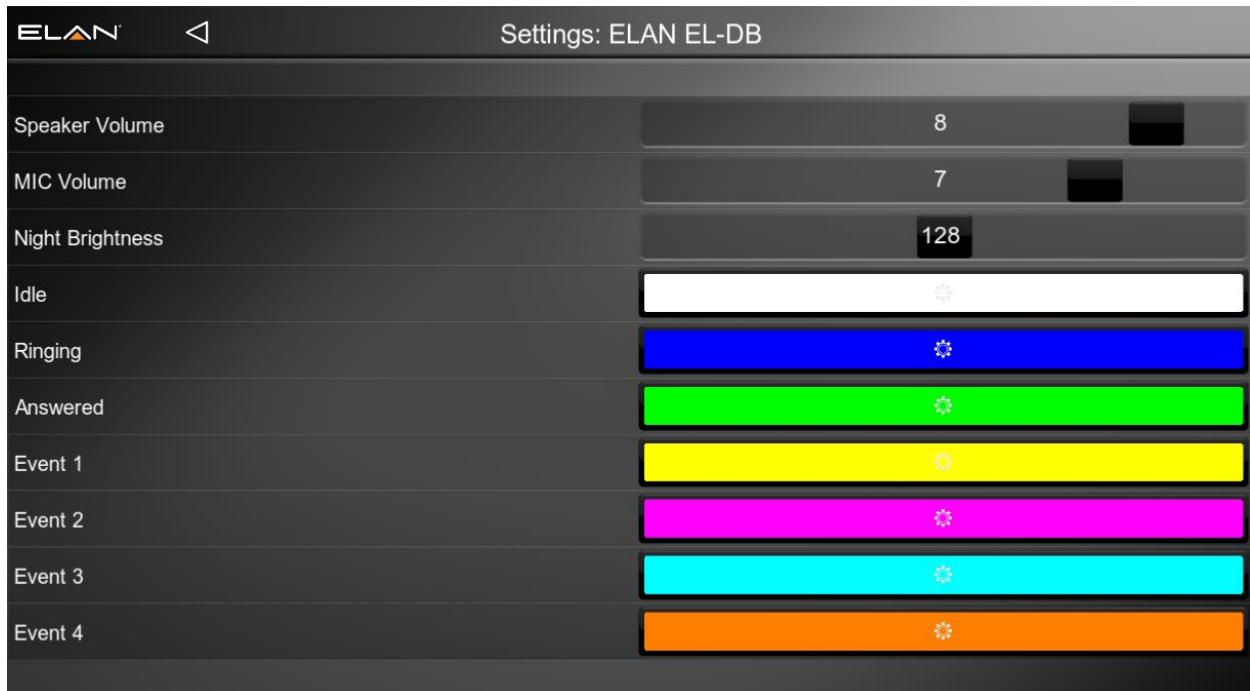
If you do not assign the dial plan, it will not take affect.   You will need to assign the different dial plans for each system mode (home away, etc).
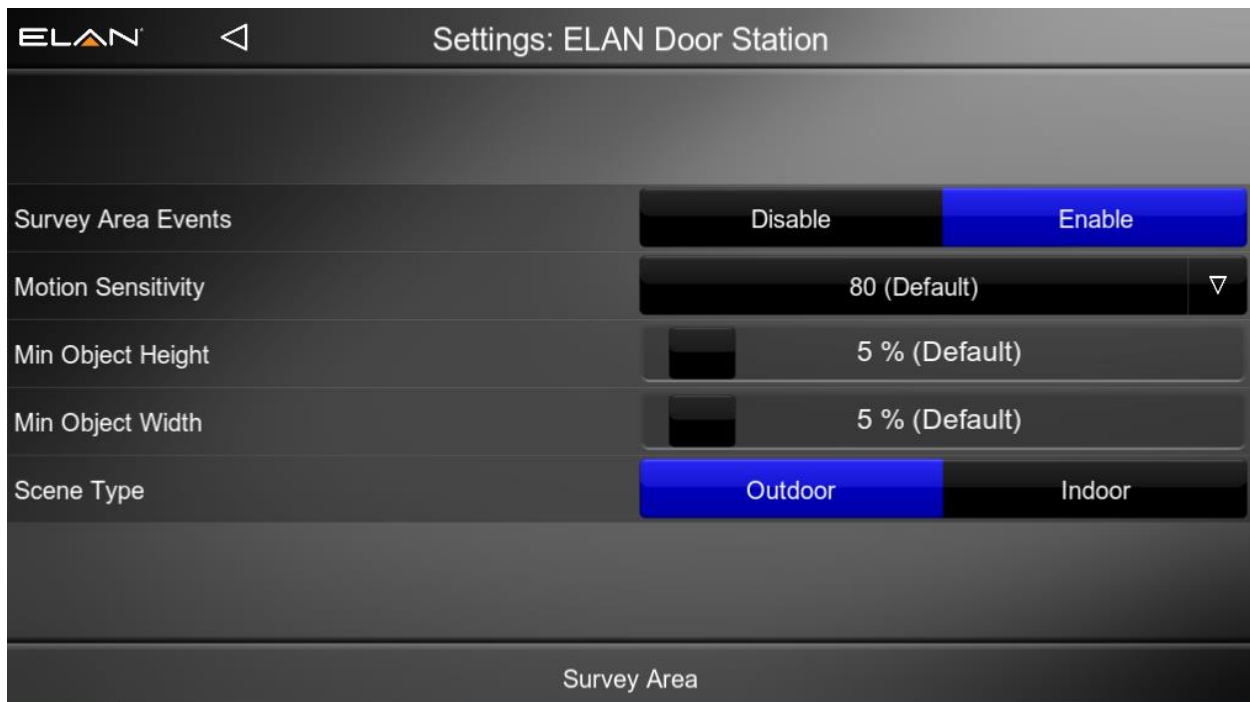
Viewer Intercom Settings

Under the Viewer settings there is a tab marked Intercom Global Settings. A new menu will now be showing and at the bottom there is a Doorbell Settings tab. Next a list of all ELAN Intelligent Video Doorbells will show and select the ELAN Intelligent Video Doorbell you want to adjust.

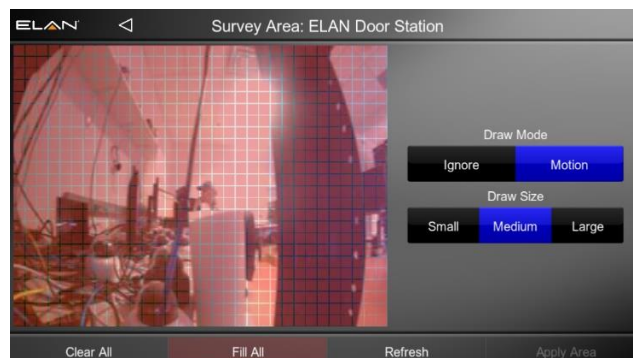|	
ELAN ◁	Settings: ELAN EL-DB
Speaker Volume	8
MIC Volume	7
Night Brightness	128
Idle	
Ringing	⚙
Answered	⚙
Event 1	⚙
Event 2	⚙
Event 3	⚙
Event 4	⚙

1. Speaker Volume – This will adjust the volume of audio coming from the ELAN Intelligent Video Doorbell's speaker. (Default = 8)

2. MIC Volume – This will ajdust the sensitivity of the Microphone on the ELAN Intelligent Video Doorbell. (Default = 7)

3. Night Brightness – This will adjust the brightness of the LED LightRing™ between sunset and sunrise.

4. The next couple settings control the colors of the LightRing™ on the ELAN Intelligent Video Doorbell.

    a. Idle – This is the color the LightRing™ will be when the ELAN Intelligent Video Doorbell is not ringing, or in a call.

    b. Ringing – This is the colo the LightRing™ will be when the ELAN Intelligent Video Doorbell is currently ringing.

    c. Answered – This is the color the LightRing™ will be when the ELAN Intelligent Video Doorbell is in a call.

    d. Event 1, 2, 3, and 4 – These states are to be used with event mapper to create certain colors for specific situations.

Viewer Video Settings

There are also more settings that can be changed to adjust the video options of the ELAN Intelligent Video Doorbell. First go to the viewer settings page. Select the Video Settings tab at the bottom of the list.

1. This first settings page shows all the options for the ELAN Intelligent Video Doorbell's camera separate from the NVR

    a. Survery Area Events – This determines whether or not the ELAN Intelligent Video Doorbell's camera will detect objects.

    b. Motion Sensitivity – This determines the sensitivity at which the camera detects objects.

    c. Min Object Height – This determines the minimum height that and object must be to trigger an event.

    d. Min Object Width – This determines the minimum width that an object must be to trigger an event.

    e. Scene Type – This setting affects how the camera detects objects. Options available are indoor or outdoor.

2. You will also notice a Survey area button at the bottom of the page. When you click this it will bring up a view of the camera with a grid pattern on top. This grid allows the user to determine where the camera can detect objects. All the squares marked red will be where the objects can be detected. The non-red squares are where the camera will not detect objects.

EVENT MAP

As with most ELAN Drivers there are multiple different Events, Conditions, and Commands that can be used to create Event Maps for the ELAN Intelligent Video Doorbell. Since the ELAN Intelligent Video Doorbell has multiple drivers, it will appear in many families within the event mapper.

EVENTS

1. Input Family
    a. ELAN Intelligent Video Doorbell
        i. Door Sense state change Off → On
        ii. Door Sense stat change On → Off

2. Intercom Family
    a. ELAN Intelligent Video Doorbell
        i. Incoming Call
        ii. PIR Sensor Motion
            1. NOTE: User must turn on PIR using the ELAN Intelligent Video Doorbell web GUI for this to work.

3. Lighting System Family
    a. Switch/Dimmer:
        i. LightRing™ On
        ii. LightRing™ Off

4. Outputs Family
    a. ELAN Intelligent Video Doorbell Door Strike
        i. Output Turned Off
        ii. Output Turned On

5. Video System Family
    a. ELAN Intelligent Video Doorbell
        i. Begin Streaming
        ii. End Streaming
        iii. Motion Detected

Conditions

1. Inputs Family
    a. ELAN Intelligent Video Doorbell
        i. Door Sense input is on = True
        ii. Door Sense input is on = False

2. Lighting System Family
    a. Switch/Dimmer
        i. LightRing™ is on = True
        ii. LightRing™ is on = False

3. Outputs Family
    a. ELAN Intelligent Video Doorbell
        i. Door Strike Output is on = True

ii. Door Strike Output is on = False

Commands

1. Intercom Family
    a. ELAN Intelligent Video Doorbell
        i. Cancel Outbound Call
        ii. Initiate Outbound Call
    b. ELAN Intelligent Video Doorbell Set Light Ring Color
        i. Event 1 Color
        ii. Event 2 Color
        iii. Event 3 Color
        iv. Event 4 Color
2. Lighting System Family
    a. Switch/Dimmer
        i. LightRing™ Off
        ii. LightRing™ On
        iii. LightRing™ Set Level
        iv. LightRing™ Toggle Switch State
3. Outputs Family
    a. ELAN Intelligent Video Doorbell
        i. Door Strike Turn Output Off
        ii. Door Strike Turn Output On
4. Video System Family
    a. ELAN Intelligent Video Doorbell
        i. All Clients jump to tab

COMMON MISTAKES

1. **ELAN Intelligent Video Doorbell Not Enrolling** – Check to make sure that under messaging that the ELAN SIP Server is set to Enrollment Open/Enrollment Waiting so the ELAN Intelligent Video Doorbell Intercom Device can be added.

2. **Changing the ELAN Video Doorbell's IP Via web GUI-** If the ELAN Video Doorbell has been added statically to the configuration and you modify the IP address using the Web GUI the communication will be interrupted. You must delete the ELAN Video Doorbell and re-add it to re-gain communication.