

White Paper: UniFi Protect

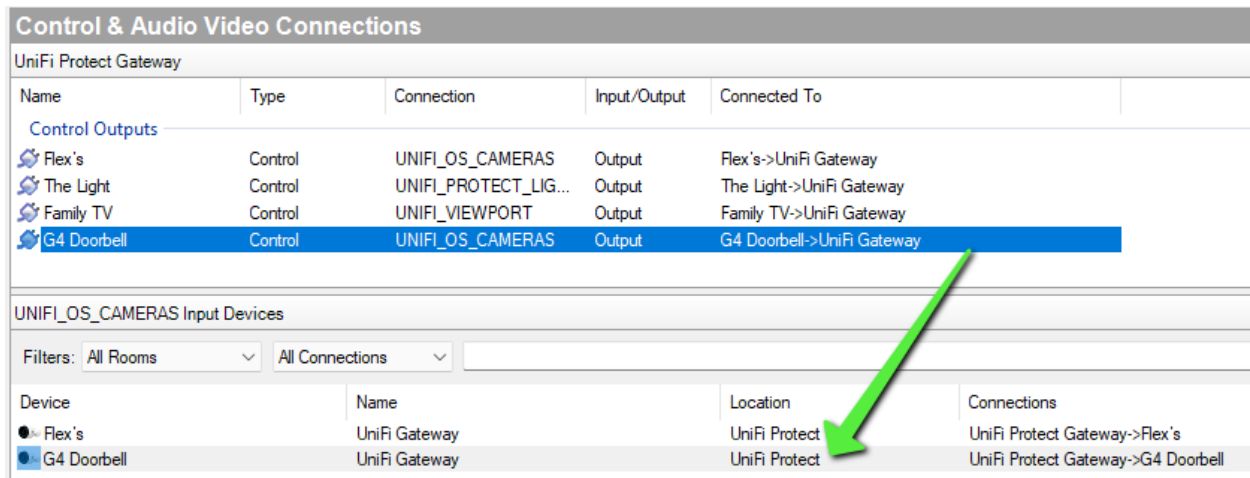
1.24.2022

How to integrate UniFi doorbell (including announcements, push notifications and sonos audio)

In the UniFi Protect family is the Doorbell. This device can send notifications (EVENTS) to Control4 which a dealer can then trigger actions to happen. This document will show examples of the 4 most common integrations.

When the doorbell is pressed....

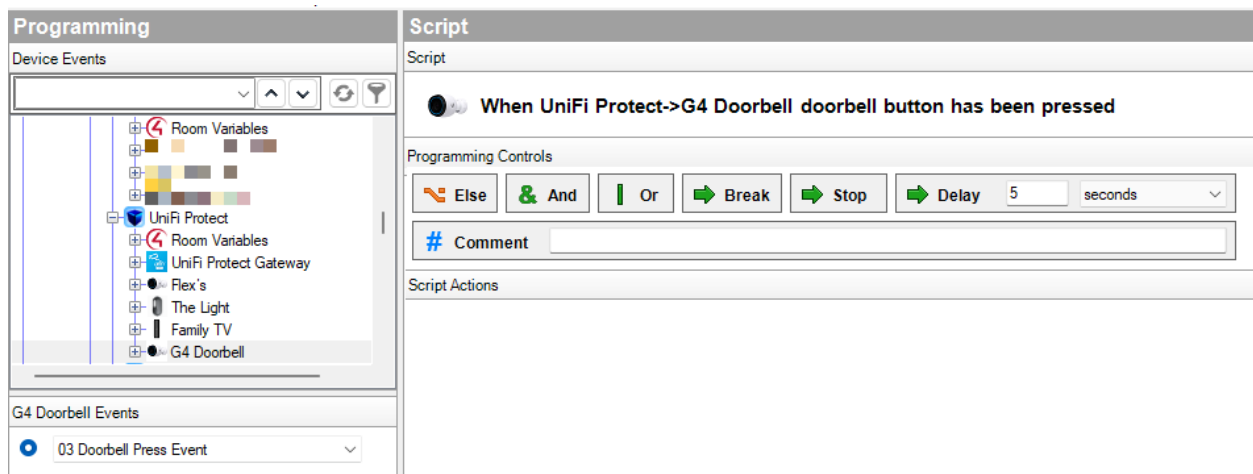
- Add a UniFi NVR Camera and bind it to the doorbell connection



Name	Type	Connection	Input/Output	Connected To
Flex's	Control	UNIFI_OS_CAMERAS	Output	Flex's->UniFi Gateway
The Light	Control	UNIFI_PROTECT_LIG...	Output	The Light->UniFi Gateway
Family TV	Control	UNIFI_VIEWPORT	Output	Family TV->UniFi Gateway
G4 Doorbell	Control	UNIFI_OS_CAMERAS	Output	G4 Doorbell->UniFi Gateway

Device	Name	Location	Connections
Flex's	UniFi Gateway	UniFi Protect	UniFi Protect Gateway->Flex's
G4 Doorbell	UniFi Gateway	UniFi Protect	UniFi Protect Gateway->G4 Doorbell

- Go to Composer Programming, Select the camera then Doorbell Pressed



Script

Script

When UniFi Protect->G4 Doorbell doorbell button has been pressed

Programming Controls

Else And Or Break Stop Delay 5 seconds

Comment

Script Actions

Device Events

UniFi Protect

G4 Doorbell Events

03 Doorbell Press Event

- Add doorbell actions

Action 1: Send a Push Notification with an image of who is there.

- On the right side (Composer Programming) - Device Actions, Select the Doorbell camera driver
- Under Device Specific Command select **Send Push Alert**
- Set Alert_Level (Alarm, Alert, Info)
- Set Msg (example. Someone is at the front door)
- Add to Event (When Doorbell is pressed)

The screenshot displays the UniFi Protect programming interface, divided into two main panels: **Programming** and **Script**.

Programming Panel:

- Device Events:** A tree view on the left shows the hierarchy of devices. Under **UniFi Protect**, the **G4 Doorbell** is selected.
- G4 Doorbell Events:** A dropdown menu at the bottom shows the selected event: **03 Doorbell Press Event**.

Script Panel:

- Script:** The main event trigger is **When UniFi Protect->G4 Doorbell doorbell button has been pressed**.
- Programming Controls:** A row of buttons for logic control: **Else**, **And**, **Or**, **Break**, **Stop**, and **Delay** (set to 5 seconds).
- Comment:** A text input field for adding a comment, currently empty.
- Script Actions:** A list of actions to be performed. The first action is **Tell UniFi Protect->G4 Doorbell to push Alarm Someone is at the front door with image**.

Action 2: Play a 'doorbell' sound on speakers in the home.

- Create an announcement via Announcements Agent and setup rooms correctly
- Use the Execute button at the top to make sure your announcement is working correctly

The screenshot shows the 'Announcement' configuration window for the 'Front Doorbell' agent. The left sidebar shows the 'Agents' list with 'Front Doorbell' selected. The main panel is divided into 'Popup Announcement' and 'Audio Announcement' sections.

Popup Announcement:

- ☐ Display Navigator Text / Image Popup
- Text / Image Message: Edit Text / Image... (Shows a placeholder 'No Image')
- Delay: 0 Milliseconds
- ☒ Show OK Button
- Close after: 5 seconds

Audio Announcement:

- ☒ Play Audio File: doorbell1.wav (Buttons: Add..., Delete...)
- Start Delay: 500 Milliseconds (1/1000 second)
- Stop Delay: 0 Milliseconds (1/1000 second)
- Enabled Rooms: Add/Remove... (Shows a list with 'Living Room' selected)

Living Room Configuration:

- ☒ Set Volume
- Volume slider: 76
- Remove button

NOTE: Volume for the announcement can only be set on devices with discrete volume control.

- Add the programming to trigger this announcement when the doorbell is pressed

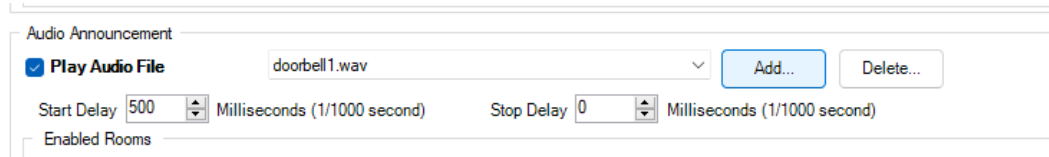
The screenshot shows the 'Programming' and 'Script' configuration windows. The 'Programming' window on the left shows a tree view of device events, with 'G4 Doorbell' selected. The 'Script' window on the right shows the configuration for the '03 Doorbell Press Event'.

Script Configuration:

- Script:** When UniFi Protect->G4 Doorbell doorbell button has been pressed
- Programming Controls:** Else, And, Or, Break, Stop, Delay (5 seconds)
- Script Actions:**
 - # This sends the Push Notification (with Image)
 - ➡ Tell UniFi Protect->G4 Doorbell to push Alarm Someone is at the front door with image
 - # This triggers the doorbell in the Living Room speakers (using Digital Media)
 - ➡ Execute Announcement 'Front Doorbell'

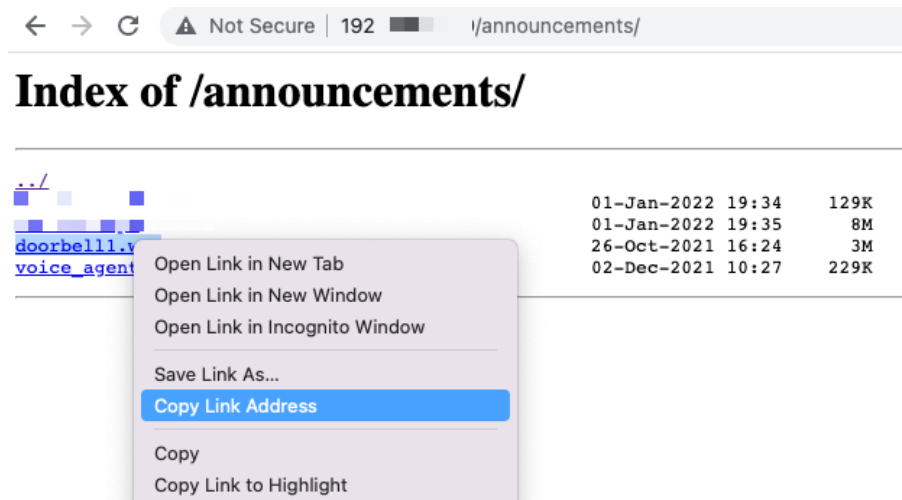
Action 3: Play a 'doorbell' sound on Sonos speakers (no wiring from Control4 -> sonos required)

- Add the doorbell wav file to the announcement



The screenshot shows the 'Audio Announcement' configuration window. It has a section for 'Play Audio File' with a dropdown menu currently set to 'doorbell1.wav'. There are 'Add...' and 'Delete...' buttons. Below this, there are 'Start Delay' and 'Stop Delay' fields, both set to 500 and 0 respectively, with a unit of 'Milliseconds (1/1000 second)'. At the bottom, there is a section for 'Enabled Rooms'.

- Go to a web browser and enter the ip address of the Control4 controller running director /announcements (example: if your controllers ip was 192.168.1.50 then you'd enter into Chrome: 192.168.1.50/announcements)
- Right click on the announcement you just added and copy the url link. The link should look something like this: <http://192.168.32.10/announcements/doorbell1.wav>



- Go back to Composer Programming, on the actions side, click on the Sonos Network driver, scroll down to the bottom and select Play Audio Clip
 - Choose the Sonos Room you want to play the audio clip in (One room per action. You can add to multiple rooms but they will not be in sync with each other)
 - Set the Name to Doorbell (or whatever you want)
 - Set the streamUrl to the url link you copied earlier
 - Set the volume to level you want the speaker to play the audio at

Action 4: Have Control4 Touchpanels go to the live video of the doorbell

- If not already added... Add the Control4 Agent: Navigation
- Under Composer Programming Device Actions select the Navigation Agent
- Select the Doorbell as the camera
- Select the touchscreens needed
- Add this to When the doorbell is pressed

The screenshot displays the Control4 programming interface, divided into two main sections: **Programming** and **Script**.

Programming Section:

- Device Events:** A tree view on the left shows the hierarchy of devices. Under 'UniFi Protect', 'G4 Doorbell' is selected.
- G4 Doorbell Events:** A dropdown menu at the bottom shows '03 Doorbell Press Event' as the selected event.

Script Section:

- Script:** The title is 'When UniFi Protect->G4 Doorbell doorbell button has been pressed'.
- Programming Controls:** Includes buttons for 'Else', 'And', 'Or', 'Break', 'Stop', and 'Delay' (set to 5 seconds).
- Script Actions:** A list of actions to be executed when the event occurs:
 - # This sends the Push Notification (with Image)
 - ➔ Tell UniFi Protect->G4 Doorbell to push Alarm Someone is at the front door with image
 - # This triggers the doorbell in the Living Room speakers (using Digital Media)
 - ➔ Execute Announcement 'Front Doorbell'
 - # Plays the doorbell1.wav file in the Sonos room
 - ➔ Play Audio Clip named Front Doorbell on at 75 from http://192.168.32.10/announcements/doorbell1.wav
 - # Have touchscreens go to Doorbell Live View
 - ➔ Jump to camera UniFi Protect->G4 Doorbell in Living Room->AJ's TP for 30 seconds

Refer to documentation for more information

[Developer Information](#)

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