DoorBird Doorstation Driver

DoorBird Hardware Tips:
- Install the DoorBird according to the installation manual.
- The DoorBird can use Wifi or PoE (Preferred).
- The DoorBird must be on the same subnet as Control4 director.
- The DoorBird app should work BEFORE Control4 setup. Make sure you can view the DoorBird camera and communicate to the unit via the DoorBird app prior to Control4 setup.

Overview

The Control4 Home Automation system can control nearly all aspects of a customer's smart home, including security. Security is extremely important for any homeowner, and smart doorbells offer several features to maintain a safe and secure home. DoorBird is the industry standard for smart doorbells, with top-of-the-line cameras, real-time notifications, and video playback. Installing a DoorBird system in your customers' home gives homeowners peace of mind knowing that their property is protected. With the DoorBird driver, customers can easily and conveniently see who is at the door, grant or deny access to their home by triggering a smart lock, and play back surveillance video all in the Control4 interface.

In addition to the main features customers can receive alerts when motion is detected at the door, when someone rings the doorbell, when a code is entered on the keypad (specific models), and more. Icons show the states of the DoorBird, visually communicating that motion has been detected, when the doorbell rings, if the doorbell has been silenced, and more.

DoorBird App Setup

1. Log into the DoorBird App
2. Go to Settings -> Administration and sign into the DoorBird as admin user (0000)
3. Create user 0002 (example: gxyddsa0002)
4. Enable all permissions for this user
5. Press Save
6. Enable SDDP from DoorBird app

Driver Setup

1. Add Control4 Agents to project:
   History Agent (required)
   Communication Agent (required for Intercom)
   Push Notification Agent (if using Push Notifications)
   Announcement Agent (if setting announcements)
2. Connect DoorBird to Control4 via:
   SDDP: If the SDDP setting in DoorBird is enabled, the DoorBird should be discoverable in your project under the Items -> Discovered. Double click the DoorBird to add to the project.
   Other: Add driver to project, go to the Connections tab, select the Network tab in the Connections section, and either drag the SDDP under Available Devices to the DoorBird driver or enter the IP address after selecting the driver.
3. Once connected, enter username and password for user 0002 into the driver
4. Refresh navigators and test
5. If intercom with touchscreens is needed, dealers may need to press the doorbell button once to sync the Control4 sip server with the DoorBird.   Monitor driver logs by setting property Debug Mode to 'On' and view them on the lua tab

Your driver setup is now complete! You may now continue to customizing all of the features of the driver.

Dealer Notes

- If using the DoorBird I/O controller, triggering relays on this device from the DoorBird app WILL NOT notify in Control4.   DoorBird API does not support event listeners on the DoorBird I/O controller
- Intercom calls including video preview and Intercom anywhere are not handled in the driver.   Please refer to Intercom proxy for more information.

Control4 Proxies

The DoorBird Doorstation is a great intercom and door entry system.   Camera, Intercom, and UI are available for Control4 projects:

Camera Proxy:

The driver will automatically setup the camera settings during setup.   Local and Remote viewing supported via Control4 T3 touchscreens, Control4 GUI, and MyHome App.

Intercom Proxy:

DoorBird units integrate with the intercom proxy via SIP.   Upon successful connection with DoorBird unit, the driver will register the DoorBird with the Control4 sip server, set the username and password, and then test for proper communication back from the sip server. Once the sip settings are sent to the DoorBird, the driver's work is finished.   Communication between DoorBird and Control4 sip server are handled outside of the driver's sandbox and control. Proper functionality between Touchscreens and Intercom Anywhere should be tested and verified before changing settings in the driver.

Advanced Settings   Some projects require greater control of the sip server or are not using

Control4 as the sip server.   For these projects, the dealer will need to program the sip Domain, Username, and Password for their particular setup.   This is done via the Intercom - Sip Driver Property.   Set this property to Manual and set the corresponding values (Domain, Username and Password).   *This is not needed for most installations.*

UI Proxy:

The DoorBird driver comes with an icon for customers to trigger the gate/lock connected to the DoorBird or other custom actions the dealer wishes (Example: use the Control4 Navigator Agent to show the DoorBird camera directly via Control4 touch screens). The actions associated with single/double tapping the icon are set via the property *UIButton: Single/Double Tap*. Options are *Trigger Relay 1* (default), *Trigger Relay 2*, *Silence Alerts*, *Display Status*, and *Nothing*.   Note: Composer Events for single and double tap will still occur regardless of this setting.   Display Status and Silence Alerts are special actions that do the following:

> *Display Status:* This feature will send a general information message about the current status and driver event history to Control4 touchscreens.   The information is the same as Display Status under the Driver Actions drop down.

> *Silence Alerts:* This feature will turn off (silence) alerts notifications programmed in the driver.

	Normal: Driver is working
	Motion Detected
	Doorbell has been pressed
	Relay has been triggered
	Silenced. When this state is active, Doorbell and Motion announcements in home are silenced. Notification on DoorBird App will still be enabled
	Offline. When the Control4 system cannot communicate with the DoorBird
	Keypad (if available). When a user code is successfully entered on the keypad
	RFID (if available). When a rfid fob event is received

Notifications, Relays, Events:

The driver comes standard with many automatic notifications. These are configured under the Driver Property DoorBird Events. These events have actions that can be triggered when the event occurs. Below are the actions available. *Note:* not all events have access to all actions.

Message:

This is the message that will be sent to the customer when this event happens.
Note: custom variables are available for insertion into the message. See Custom Message Variables for implementation

Intercom Group:

This intercom group will be executed (sip call) when the event is triggered (ex. DOORBELL pressed event is triggered, make call to sip group All). Selecting None will cause the driver to refresh the intercom group list.

Push:

This informs the driver to send a Control4 Push Notification (with doorbird image snapshot) when the event is triggered. Options for alert levels are: Alarm, Alert, Info, or No (don't send an alert). The subject line of the message is set under the property *Email: Subject* in the driver (default: My Control4 Smart Home).

Announcement:

Trigger an announcement when the event is triggered. Selecting None will also cause the driver to refresh the dropdown list..

Navigators:

Triggers a popup to be displayed on all touchscreens selected under driver property *Control4 Navigators*.   An image and messages are displayed.

Email (if available):

Triggers an email to the addresses listed (use a comma between email addresses). Note: does not require 4Sight.

Voice (if available):

Touchscreens and/or announcement areas will say the message over the speakers.

DoorBird Events:

These are the events the driver responds to when they happen on the DoorBird.

Doorbell:

Doorbell press event. *Note:* Some DoorBird units (MDU) have the ability to assign multiple doorbells. All Doorbell events trigger this event. Custom events per doorbell can be achieved via Composer Event programming using Conditional programming (ex. When the Doorbell event is received and the last doorbell id is 103 do...).

Motion:

Event will trigger when motion is detected on DoorBird.   Minimum wait time between motion events is 30 seconds. Setup of motion sensitivity and zones is done via the DoorBird App.

Relay:

Event when a relay is triggered on the DoorBird. *Note:* The DoorBird App has a Lock icon for customers to open the gate or door. Dealers can use Control4 Event programming to trigger a lock not tied directly to the DoorBird to open when the icon is pressed. If the lock is wired directly to the DoorBird, no programming is required as the DoorBird controls the lock.

Note on relay wiring: The DoorBird driver works with trigger (hold open for x seconds) and toggle type relays.   However, no feedback of relay state is available from API.   Therefore, care must be taken if toggle relay is desired.

Note on IO Controller (Doorbird IO Controller): No notification will happen if the relays are triggered outside of Control4.   This means if you trigger the relay from the DoorBird app the Control4 system will not receive a notification.   The main two relays on the unit do notify the driver when they are trigger.   They DO NOT show the state of the relay though.

RFID:

Some DoorBird units support RFID tags to be triggers for opening Doors and Gates.   Control4 dealers can program off of these events in programming. By default, Push notifications are sent whenever a RFID tag is used. Conditional programing for specific users is available. The driver records the last user name for this purpose.

Keypad:

Similar to RFID, the keypad event occurs when a user enters their user code on the DoorBird (keypad models). The username can be used for custom event programming if needed.

Silenced:

The driver has the ability to mute or silence alerts from the DoorBird for a specific amount of time. After this event is triggered, the driver will not trigger any event notification if it occurs until the timer expires. *Note:* Control4 Event programming will still trigger.

Custom Message Variables:

Variables can be inserted into the notification using special hook characters. See the examples below.   Dealers can modify the Message property of an event and insert variables using the following format.

Driver Variables:

{Device_Variable_Name} => This will use the value of this driver variable.   Names must be spelled the same way as the variable on the driver.

Ex. [LAST_USER_NAME] has opened the door. Would become: Chad Kroeger has opened the door.

{deviceId:Variable_Name} => This will use the value of the Variable attached to the device Id and Variable Name. Note: Variable_Name must be spelled the same way as the variable on the driver.

Ex. The lights in the family room are at {123:LIGHT_LEVEL}%. Would become: The lights in the family room are at 23%.

Composer Variables:
{composer_variable} => This will look at the Variables agent and retrieve the variable that is named.
Ex. vacation mode is now set to {vacation_mode} mode. Would become: vacation mode is now set to away mode.

DoorBird Variables:
These are variables about the specific driver:

- [Driver_Message] => Displays main Current Status (ex. Someone is at the Door)
- [NAME] => The Name of the driver in the project (example: DoorBird)
- [STATE] => The current state of the driver (example: RELAY)
- [OLDSTATE] => The state prior to the new state notification
- [SILENCE] => Amount of hours of the current silence timer
- [USER] => Displays the last username from either keypad or RFID event
- [RELAY] => The name of the relay in the DoorBird
- [DOORBELL] => The name of the doorbell in the DoorBird

Driver Actions:
These options are accessible to the dealer to simplify setup, testing, and troubleshooting.
Actions include:

- View Status: views status and history of the DoorBird, lua tab
- Simulate Doorbell: simulates doorbell event
- Show Icon in All Rooms: makes DoorBird icon visible in all rooms
- Hide Icon in All Rooms: hides DoorBird icon in all rooms
- Print User and Relay Info: shows user and relays found in the DoorBird app so that dealer can program without logging into the DoorBird app
- Reset DoorBird: start setup from scratch

Control4 Push Notification Setup and Configuration:

The driver supports automatic push notification using the Control4 app. This will send notifications to registered MyHome devices.   For notifications to work, homeowners must have the Control4 app on the phone and notifications enabled:

- Configure Control4 Account: https://customer.control4.com.
- Once logged in, go to "My Notifications" under "My Devices".
- Select a mobile device you want to receive notifications on.
- Configure specific areas, category, and severity of notifications.
- "Save" configuration before continuing.

Support:
For Hardware Related Support: hello@doorbird.com
For Driver and Setup related support: https://help.drivercentral.io

Developer Information:
Cinegration Development, LLC
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