

Code Agent

Part of Cindev's Agent Bundle



Compatible Control4 Systems:

Designed to work with OS 3.x+

Dashboard 3.2.1+ (iOS, Android, Control4 T3, Control4 T4)

Driver Download, Change Log & Documentation:

<https://drivercentral.io/platforms/control4-drivers/security-systems/code-agent>

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Overview/Features

Code Agent is a multi-layered tool utilizing codes for access, control and so much more. In simplest terms the Agent equips the user with code or codes that will either trigger events/actions or prevent them from occurring. To encompass many different scenarios where a code may be needed the driver provides the dealer with the ability to customize the behavior with three unique code types that include:

- Toggle
- Timer
- Code Match

see supporting documentation for additional information

As this is a security centered driver it adds on the following features for added protection:

- Code stored encrypted in the driver, meaning the code can not be retrieved once set (it can be reset in Composer if the code is forgotten)
- Ability to change the code at any time without dealer intervention via dashboard
- Ability to lock out the user after a specified amount of incorrect codes

Other non-security features that further the customization of the driver include:

- Ability to show/hide code when entered
- Ability to show/hide length of code
- Ability to verify automatically or using button clicking
- Ability to adjust verification time

In addition to the multitude of previously mentioned features it contains the following aspects found in many other Cindev Agents:

- Part of the Cindev Notification Suite
- Supports Cindev Trial and Showroom license
- Contains a clean User Interface for iPhones, iPads, Android devices and Control4 T3/T4 Touchscreens

Dealer Notes

- Set code must be between 3 - 8 numbers in length. Dashboard will not allow setting a code outside of this length.
- Code can be changed at any time by using the agent dashboard. Find the 'change' icon and follow the directions to set a new code. Alternatively the code can be updated in the driver property 'Code'.
- If setting to a code type that utilizes a timer try not to set *Message Time* longer than *Verify Time* for a better dashboard experience.
- Lockout can be reset prior to lockout time expiration using Composer in case the user accidentally locks themselves out and needs immediate access.
- Driver sends changes to the webview UI without the need to reload. This instant feedback allows you to easily adjust settings for the perfect customer experience.
- Certain code types will be limited in regards to the types of settings that can be adjusted
- When using *Code Match* code type make sure to add *End Match Device Specific Command* to accurately track and display correct/incorrect entered codes (*see programming examples found in supporting documentation*)

Agent Setup

1. Select appropriate Code Type
2. Customize settings as needed (*see dealer notes and supporting documentation for tips*)

documentation for tips)

4. Set code using dashboard or composer

Agent Properties

- *Cloud Status*: Displays driver license state
 - *Driver Status*: Displays driver related information
 - *Driver Version*: Displays driver version
 - *Driver Actions*:
 - *Clear Code*: Clear saved code from the driver
 - *Reset Lockout*: Reset the LOCKOUT state returning driver to UNVERIFIED
 - *Reset Verification*: Reset the VERIFIED state returning driver to UNVERIFIED
 - *Force Verify*: Force driver into VERIFIED state (not applicable with *Code Match* code type)
 - *Show Icon In All Rooms Under Security*: Show icon under the *Security* section
 - *Download Latest App*: Downloads the latest webview app if a newer version is found
 - *Disable Notifications*: Turn off all notifications on all events
 - *Default Notifications*: Default all notifications of all events to their default settings
 - *Automatic Updates*: Allows the *Cloud Driver* to automatically update the driver when a new version is available
 - *Debug Mode*: Displays additional information on the lua tab for debugging purposes
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Code Settings

- *Code Type*: Select code type base on desired behavior (*see supporting documentation for additional information*)
- *Message Time*: Set how long the message will be displayed

- *Verification*: Select how the verification should occur
 - *Auto*: Driver will attempt verification once the length of code is reached
 - *Button*: Driver will attempt verification once button is clicked
 - *Show Length*: Show or hide length of code on the user interface. Showing length will display boxes based on length of code.
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Code Types

The Agent's three unique code types include:

- *Toggle*: Toggles between *Verified*™ and *Unverified*™ states each time the correct code is entered.
 - *Timer*: Verifies code for a specified amount of time when the correct code is entered.
 - *Code Match*: Attempts to verify every time the code is entered so long as the code is between 3-8 characters.
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Default Event Actions

Cindev has developed a powerful automated notification tool for Agents. Below are the Events (When this happens) available on this driver including the default notifications and actions associated with each.

Driver Action *Disable Notifications* can be used to disable or turn off all notifications on all Events in this driver.

Driver Action *Default Notifications* can be used to to default all notifications of all events to their default settings listed below.

Event Action Reference

- **Message** This is the default message that will be used with all notifications. This value supports the Variable Injection for dynamic alert messages.
- **History** Creates a Control4 History Agent event at the level specified.
- **Push** Sends a notification to the customer using the Control4 Push Notification Agent (4Sight required) at the level specified.
- **Navigator Popup** Creates a Popup notice on the Control4 UIs listed.

Snapshot if this driver includes this.

- Each Event Action can have a unique set of Navigators for the popup.
- **Voice Agent** Selects which Cindev Voice Agent to play the message as voice alert.
 - See Voice Agent Driver to customize how the voice alert will happen.
 - Each Event Action can use a different Voice Agent driver.
- **Announcement** Triggers a specific Announcement setup in the Control4 Announcement Agent
 - Use (Refresh) to scan for new Announcements
- **Email** Sends an email to the email role
 - Driver supports up to 50 emails per day
 - Does NOT require 4Sight to function
 - If project has the Email+ Agent, the Email Action will use the Email+ for sending the email including email address for the specific role.

Defaults

- **CHANGE** When code is updated
 - *History*: Info
 - *Push*: No
 - *Navigator Popup*: No
 - *Voice Agent*: No
 - *Announcement*: No
 - *Email Owner*: No
 - *Email Integrator*: No
 - *Email Manager*: No
 - *Email Other*: No
- **INCORRECT** When code is incorrectly entered
 - *History*: Info
 - *Push*: No
 - *Navigator Popup*: No

- *Announcement: No*
- *Email Owner: No*
- *Email Integrator: No*
- *Email Manager: No*
- *Email Other: No*

- **LOCKOUT** When driver has been locked out

- *History: Warning*
- *Push: No*
- *Navigator Popup: No*
- *Voice Agent: No*
- *Announcement: No*
- *Email Owner: No*
- *Email Integrator: No*
- *Email Manager: No*
- *Email Other: No*

- **UNVERIFIED** When code is no longer verified

- *History: No*
- *Push: No*
- *Navigator Popup: No*
- *Voice Agent: No*
- *Announcement: No*
- *Email Owner: No*
- *Email Integrator: No*
- *Email Manager: No*
- *Email Other: No*

- **VERIFIED** When code has been verified

- *History: Info*
- *Push: No*
- *Navigator Popup: No*

- *Announcement*: No
- *Email Owner*: No
- *Email Integrator*: No
- *Email Manager*: No
- *Email Other*: No

Message Variable Injection

This driver supports the ability to insert data from other areas of the Control4 system into the message. This allows for highly dynamic messages.

All injected variables use the format of **{variableParams}**. Example: *{PROJECT}* would be replaced with the name of the project. Below are the different options available for injection:

- **{DeviceId:VariableName}** returns the value of the variable stored in the DeviceId requested
 - *DeviceId* The DeviceId of the driver you want to get the variable data from. This can be found by hovering over the driver in Composer
 - *VariableName* (case-sensitive) is the name of the variable
 - Example: If you wanted to return the last user that unlocked a door and the lock deviceId was 304 then the proper format for variable injection would be:
 - {304:LAST_UNLOCKED_BY}
- **{AGENT AgentName:VariableName}** returns the value of the variable stored in the AgentName
 - *AgentName* The name (case-sensitive)
 - *VariableName* (case-sensitive) is the name of the variable
 - Example: If you wanted the last message from the Backup Agent then the format would be
 - {AGENT Backup:LAST_MESSAGE}
- **{PROJECT}** returns the name of the project
- **{NOW}** returns the current time in a standard viewable format. Example: *Jun 20 14:56:48*

parameters.

- Example: `{DATE %A, %B %d, %Y %l:%M %p}` would return something like: Thursday, June 20, 2024 03:38 PM
- See <https://www.lua.org/pil/22.1.html> for more information.
- **{VERSION}** returns the current Control4 OS version. Example: 3.3.3.660628-res
- **{NAME}** Returns the name of this driver in the project
 - `{NAME DeviceId}` Will return the name of the driver connected to `DeviceId`

UI Button Actions

This driver uses the UI button proxy from Control4. This proxy displays a custom icon on Control4 Navigators. When the icon is pressed, the driver will trigger the quick actions listed below.

- **Single Tap Action** Launch Webview

Composer Commands

- **Force Verify** Forces driver into a VERIFIED state
- **Reset Verification** Forces driver into an UNVERIFIED state
- **Clear Lockout** Returns driver to a VERIFIED state after lockout occurs
- **End Match** When using 'Code Match' code type include this is required at the end of the event to correctly handle event end.

Support

If you require additional driver assistance or are having some issues please visit our help desk: <https://help.drivercentral.io>

Showroom and Free Trial

All Cindev drivers for Control4 come with a 7-day trial. Simply add the DriverCentral licensing driver, *Cloud Driver*, along with this driver and you can fully test the driver before purchasing. Including Cindev drivers in your drivercentral showroom project will give you unlimited use without purchase.

Developer Information

brought to you by:
Cinegration Development, LLC



www.cindev.com
www.drivercentral.io/cindev/

We are always looking to improve our drivers.
Please send your suggestions to: info@cindev.com