

SYSTEM REQUIREMENTS

- DoorBird IP Video Door Station D10x/D11x/D21x Series.
- openHAB Software.

ADDITIONAL INFORMATION

The following guide will take you through setting up a DoorBird IP Video Door Station in connection with the openHAB software. Please make sure that your DoorBird is online, using this service: <u>https://www.doorbird.com/checkonline</u>

The local IP address of your DoorBird is available from the same page.

- openHAB will send the event information (e.g. doorbell event image/message/time stamp notification to your phone via Telegram/Mail).
- You can create automation by writing scripts using various scripting languages.

1. SETTING UP THE DOORBIRD IN THE openHAB SOFTWARE

1.1 Please download and install the openHAB software on Windows/Linux/Raspberry Pi/macOS/Docker. In this guide it was installed on windows.



- 1.2 Proceed with basic installation steps and Login into the software.
- 1.3 Enter your Username and Password details of your choice.
- 1.4 During the installation you can download the DoorBird, Telegram, Mail Bindings.You can download any binding according to your requirement even after completing the setup.

	dominoswiss Binding	
v	Doorbird Binding	
	DraytonWiser Binding	
	Dresden Elektronik deCONZ Binding	
	DSCAlarm Binding	
	DCMD Diadias	





Install Add-ons

Most of openHAB's functionality is provided by add-ons. Choose which ones you'd like to install right away.

Browse Add-ons on openhab.org



1.5 After Installating Add-ons the configuration will be completed. Select Documentation or Tutorial to get started.

	Ŧ		/ 🖪
No pages			
Administration	, 1		
Developer Tools	> Overview Page	Not Configured Yet	
Help & About	> the layout page with the ID "ove	erview" to display important controls he	re.
	Document	ation Tutorial	
Vani http://127.0.0.1:8080	Locations	equipment (4 Properties

1.6 Add your DoorBird device as a "Thing" in the Settings.



Administration	
🔅 Settings	>
Q Things	
📜 Model	
C Items	
Pages	
🔆 Rules	
Scripts	
Schedule	
Developer Tools	>

1.7 Click on "+" symbol to add the DoorBird device as Things.

✓ Settings T	hings Select
Q, Search	
3 things	
Alphabetical	By binding
D	
Doorbird doorbird:«gikuhcutkfhol 🖻	ONLINE >
DoorBirdopenHAB_bot telegram:telegramBot:vhlknljfjl ©	ONLINE >
S	
SMTP Server mail:smtp:fc15641	ONLINE >

1.8 If you have not installed DoorBird binding. Select applicable bindings and install the bindings here.

Choose Binding	
doorbird Doorbird Binding This is the binding for Doorbird video doorbells.	
mail Mail Binding This binding is used to access POP3, IMAP and SMTP servers.	
telegram Telegram Binding This is the binding for Telegram. It allows to send and receive messages.	
Install More Bindings	



1.10 Select your DoorBird model.

K Back	Add a new Thing: doorbird	
Q. Search		
Add Manually		
doorbird:a1081 Doorbird A1081 Controller Doorbird model A1081 Controller		>
doorbird:d210x Doorbird D210x Doorbell Doorbird doorbell model D210x		>
doorbird:d101 Doorbird Doorbell D101/D201/D205/D1101V Doorbird doorbell model D101/D201/D205/D1101V		>

1.11 It will generate the Unique ID and Identifier for your DoorBird device. Make a note of it for your future reference.

	New Doorbird Doorbell D101/D201/D205/D1101V
Unique ID	eyog879fuk Note: cannot be changed after the creation
Identifier 🖻	doorbird:d101:'eyog879fuh
Label	Doorbird Doorbell D101/D201/D205/D1101V

- 1.12 Enter the DoorBird device details.
 - Host --> IP Address of the DoorBird device.
 - User ID -->DoorBird User 0001 Id.

Password--> Password of the User Id 0001.

Doorbird Doorbell D101/D201/D205/D1101V Doorbird doorbell model D101/D201/D205/D1101V	
Host 10.0.0	
Required Hostname or IP address of Doorbird	
User ID abcdef0001	
Required Doorbird user ID with API permissions enabled	
Password	O
Required Doorbird user password	

1.13 Other Options are general you can select according to your requirements.



1.14 Click on "Create Thing". Your device will display ONLINE in the Things list. If its not displayed please check your entered details again.

Image Refresh Rate 2	¢
Image refresh rate in seconds (blank to disable)	
Doorbell Released Delay 1	¢
Delay in seconds after a doorbell event to send RELEASED event (blank to disable)	
Motion Off Delay	\$
Delay in seconds to set motion channel OFF after motion event (blank to disable)	
Montage Number of Images O	0
Number of images to include in history montage	
Montage Scale Factor 25	\$
Scaling factor percentage to apply to history montage (e.g use 25 for 25%)	
Create Thing	

1.15 Click on the DoorBird to see the information.

D	
Doorbird doorbird:gikuhcutkfhol 🗅	ONLINE >
DoorBirdopenHAB_bot telegram:telegramBot:vhlknljfjl	ONLINE >
S	
SMTP Server mail:smtp:fc 15641	ONLINE >

1.16 It will create the DoorBird device's instances (Doorbell/Trigger/Motion/etc) in the Channels section. Each DoorBird Model will have different instances.

< Back	Doorbird D210x Doorbell	Save (Ctrl-S)
Thing	Channels C	
Status: ONLINE		
Identifier 🗅	doorbird:d210x:16541vuygih	
Label	Doorbird D210x Doorbell	
Location	e.g. Kitchen	
Information		



		Channels		
-				
Qs	earch channels			
	All	Linked	Unlinked	
R	Doorbell doorbell (Trigger) a Trigger for doorbell press			
D	Doorbell Timestamp doorbellTimestamp (DateTime) Time when doorbell was last pressed			
D	Doorbell Pressed Image doorbellImage (Image) (") Image when doorbell was last pressed			
D	Doorbell History Index doorbellHistoryIndex (Number) Index of historical image for doorbell press			
D	Doorbell History Timestamp doorbellHistoryTimestamp (DateTime) Time when doorbell was pressed for history image			
D	Doorbell History Image doorbellHistoryImage (Image) 🗅			

1.17 While creating the Rule we have different Trigger options to add: Item event, Thing event, System event, Time event. Each event has different options, select accordingly.

Note: The Automation in this guide shows the instance from the channels list which receives the command ON.

1.18 The Rule created in the next section will send the notification to your Telegram of the doorbell event. In the condition block, add a Condition according to your requirement (eg., add time in the condition).

Note:

- Select Mail/Telegram bindings according to your requirements to get the DoorBird's Trigger/Motion message or Images from the openHAB.
- In order to send the message via Telegram you need to follow the Bot Father in Telegram App and complete the configuration.
- Create Rules/Automation according to your requirement & as per available instances in the Channels List.



2. CREATING THE AUTOMATION USING JavaScript.

- 2.1 Create an item event which receives command ON/OFF.
- 2.2 Go to Items --> Click on "+" to add the new Item --> Add Item.

Conf	figuration		System Services	
Ô	Things Manage the physical layer	3 >	Regional Settings	>
-	Model	>	Network Settings	>
	The semantic model of your home		Audio	>
G	Items Manage the functional layer	20 >	Ephemeris	>
	Pages	1 >	API Security	>
beign displays for user control of monitoring		Add-on Management	>	
Auto	omation		Persistence	>
*	Rules Automate with triggers and actions	>	Json Storage	>
=	Scripts	>	Community Marketplace	>
	Rules dedicated to running code		Json 3rd Party Add-on Service	>

DateTime · Point	D1010	201D205D1101V_Doorbell_History_Timestamp		
Doorbell History DateTime · Point Doorbird_D210x_Do	y Tim	estamp _Doorbell_History_Timestamp	2023-03-20T09:23:48.000+0100) >
Doorbell Monta mage · Point Doorbird Doorbell	ge Im D1010	age 2201D205D1101V Doorbell Montage Image	NULL	
		Doorbird_Doorbell_D101D201D205D1101V_Doorbell_History_Image		
	D	Doorbell History Index Number - Point Doorbird_Doorbell_D101D201D205D1101V_Doorbell_History_Index	NULL	5
	D	Doorbell History Index Number - Point Doorbird_D210x_Doorbell_Doorbell_History_Index	NULL	5
	D	Doorbell History Timestamp DateTime · Point Doorbird_Doorbell_D101D201D205D1101V_Doorbell_History_Timestamp	Add Items fr	from Textual Definition
	D	Doorbell History Timestamp DateTime - Point Doorbird_D210x_Doorbell_Doorbell_History_Timestamp	2023-03-20T09:23:48.000+0100	Add Item
	D	Doorbell Montage Image Image - Point Doorbell D101D201D205D1101V Doorbell Montage Image	NULL	>

- 2.3 Enter the Name, Label for the item. Type --> Switch, Category --> front door (your choice), Semantic Class --> Office (your choice).
- 2.4 Click on Create.



Name	Keypad_DoorBird_Doorbell	
Label	DoorBell	
Туре		Switch
Category	frontdoor	
Semantic Class		Office
Group Membership		
Parent Group(s)		
Non-Semantic Tags		
Add tag		

2.5 After creating the Item it can be seen in the Item list. Click on Add Link.

Keypad_DoorBird_Doorbell
DoorBell switch
Analyze
Tags
Office
Semantic Classification
dass Location_Indoor_Room_Office
Metadata
Add Metadata
Characteria
Add Link
Remove Item



2.6 Select Thing --> Select your DoorBird --> Doorbell instance.

	Link Channel to Iter	n
	Item	
	DoorBell Switch · Location > Office Keypad_DoorBird_Doorbell	NULL
	Thing	
$\left(\right)$	Thing	>

	Thing	Close
Q s	earch things	
0		
\bigcirc	Doorbird	
6	Doorbird 0210x Doorbell	
0	DoorBirdopenHAB_bot	

÷	Pick from Model
Q Search	h
	DoorBell Office Doorbird Doorbell D101/D201/D205/D1101V FrontDoor Doorbird Doorbell D101/D201/D205/D1101V

2.7 It will add in the Item event. You can see this event in the Items list.

Semantic Classification	
class	Location_Indoor_Room_Office
Metadata Add Metadata	
Channel Links	
Open Door 1 doorbird:d210x:ab628209ff:openDoor1	ONLINE >
Add Link	



2.8 Go to Rules --> Click on "+" to add the rule .

Configuration	Settings	Rules	Select
Things Manage the physical layer	3 >		
Hodel The semantic model of your home	> C Search		
Manage the functional layer	20 > 1 rules		
Pages Design displays for user control & mo	1 > nitoring		
Automation	example		IDLE >
Rules Automate with triggers and actions	165465465874		
Scripts Rules dedicated to running code	> Office		
Schedule View upcoming time-based rules	>		(+)

2.9 It will create a new unique ID for the new rule. Enter a Name and Description to the rule. When the trigger is executed, you can perform some action based on certain condition.

Unique ID	5e790vhhdfug Note: cannot be changed after the creation	۵
Name	Keypad_doorbell	8
Description	send text notification via Telegram of the doorbell event	۲
When		⊟ Reorder
Add Trigger		
Then		
Add Action		
But only if		
Add Condition		
Tags		
Semantic Class		None >

2.10 Click on "Add trigger" --> Item Event. Enter the Title and Description for your reference.





2.11 Select Doorbell event item --> Click on "Pick".

		Note: Cannot be changed after the creation	
Nam	←	Pick from Model	Pick
Desc	Q Sear	h	8
Wh	(0	DoorBell Office	order
0	•	Doorbird Doorbell D101/D201/D205/D1101V FrontDoor	
The	• 6	Doorbird Doorbell D101/D201/D205/D1101V Equipment	

2.12 Select --> received a command and Command ON. Click on "Done".

← Add Trigge	er Done
When Keypad_DoorBird_Doorbell received command ON	
When	
📜 ltem	DoorBell (Keypad_DoorBird_Doorbell) >
• received a command	
🔿 was updated	
C changed	
Command ON	
O 0N	
O OFF	

2.12 Click on "Add Action".

Unique ID	5e790vhhdfug Note: cannot be changed after the creation	۵
Name	Keypad_doorbell	8
Description	send text notification via Telegram of the doorbell event	8
When		⊟ Reorder
When Keypad_DoorBird_Door This triggers the rule if an item receiption	bell received command ON ves a command.	>
Add Trigger		
Then		
Add Action		
But only if		
4dd Condition		



2.13 Select --> Run Script --> Rule DSL.

Hint: You can also write the script using the UI based Blockly.

Then		← Add Action
Ĉ	Ē	execute a given script Allows the execution of a user-defined script.
Item Action	Run Script	Then Run a script
*	≡ŗ	Design with Blockly A beginner-friendly way to build scripts visually by assembling blocks
Other Rules	Audio & Voice	or choose the scripting language: ECMAScript application/jarascript;version=ECMAScript-2021 ECMAScript
Sho	w All	R Rule DSL application/vnd.openhab.dsl.rule

2.14 Write the code to receive message from the openHAB. Enter the chat ID of your Telegram. Click on Save.

< Back	Edit Script application/vnd.openhab.dsl.rule Save (Ctrl-S)
1 2	<pre>val telegramAction = getActions("telegram", "telegram:telegramBo(:302uokm56") telegramAction.sendTelegram("Some one is at the Door")</pre>
	> Run Now (Ctrl-R)

2.15 Click on "Save" and run the rule.

After completing Section 3 & 4 you will receive message for Doorbell event.

K Back	Keypad_doorbell	Save (Ctrl-S)	→ III vodafone.de 🗢 12:09 PM 🛷 43 % 🗉
Design		Code	Back bot bot 9:39 AM
			hallo bot 9:48 AM
Status: IDLE			hallo bot 10:56 AM
			hallo bot 11:26 AM
			hallo bot 11:30 AM
Unique ID	e56a5e0a02		hallo bot 11:55 AM
			hallo bot 2:37 PM
Name	Keypad_doorbell	۲	Some one is at the Door 3:37 PM
Description	send text notification via Tel	egram of the doorbell event 🛛 🛞	Some one is at the Door 3:37 PM
		= Peorder	Some one is at the Door 4:16 PM
When		- S REOLDET	Today
When Keypad DoorB	ird Doorbell received command (ON >	Some one is at the Door 9:59 AM
This triggers the rule if an	item receives a command.		Some one is at the Door 9:59 AM
🕒 Add Trigger			Some one is at the Door 9:59 AM
			Some one is at the Door 9:59 AM
Then			Some one is at the Door 10:00 AM
			Some one is at the Door 11:59 AM
execute a given scrip Allows the execution of a	t user-defined script.		Message



3. SETTING UP THE DOORBIRD IP VIDEO DOOR STATION

3.1 Open the DoorBird App and log into the administration area under "Settings -->Administration" using the administrator username and password credentials from the "DIGITAL PASSPORT" document that was shipped with your DoorBird IP Video Door Station.

4:21		a	₽ ₽
	Administ	ration	
LOGIN			Q
Admin name			
Admin passwore	d		0
Save login			•

3.2 Go to User -->Settings. In the User Management --> User0001. Tick all the Permissions and Relays. Click on Save.

	Administration	Save
SERNAME		
hjbuw0001		
ASSWORD		
		0
(CHANGE PASSWOR	D
IAME (COMME	NT)	
hjbuw0001		
ERMISSIONS		
ermissions		Select >
(••)	()	ŝ
	0	\triangleleft

Hint: You can create new User (User000X) and use it for openHAB or you can use User0001.

- 3.3 Go back to Administration. Go to Favorites --> HTTP(S) Calls.
- 3.4 Enter the name --> openHAB & URL -->

http://IP_address:8080/basicui/CMD?Doorbird_Doorbell_D101D201D205D1101V_Open_Door_1=ON



3.5 Enter the IP address of the openHAB link.

Replace basicui with classicui in case you are using it.

For each instance of the DoorBird in the openHAB there will be a description mentioned, use the same name along with the command you want to send.

3.6 Click on "Save".

10:57	· 3	₽ ∎
	Administration	Save
FAVORITES		
HTTP(S) Calls	>	>
SIP Numbers		>
PERIPHERALS		
Settings		>
DOORBIRD CONN	ECT	
External video se	ervice (NVR)	
SDDP (Control4)		

3.7 Schedule for the event (doorbell) to get a message from the openHAB to your Telegram messenger app.

4. SCHEDULE CONFIGURATION

Schedule for doorbell needs to be properly set up. Depending on the model of the DoorBird IP Video Door Station, choose one of the following options:

4.1 For all devices with a Single Call Button (e.g. D1101V, D2101V, D2101KV, etc.), find the corresponding settings in the DoorBird App administration menu EXPERT SETTINGS when selecting "Schedule for doorbell".

In this screen, tap the bell symbol in the upper-left corner, select "HTTP(S) calls" and fill out the schedule as per your requirements for this event.

4.2 For all devices with multiple call buttons (e.g. D2102V, D2103V, D2112V, etc.), find the corresponding settings in the DoorBird App administration menu BUTTON CONFIGURATION when selecting "Settings".

Select the call button the event needs to get assigned to and go to "Schedule for actions".

In this screen, tap the bell symbol in the upper-left corner, select "HTTP(S) call" and fill out the schedule per your requirements for this event.

4.3 For all devices outfitted with a digital display module (e.g. D21DKV), find the corresponding settings in the DoorBird App administration menu KEYPAD when selecting "Settings".

Select the keypad combination the event needs to get assigned and go to "Schedule for actions".

In this screen, tap the bell symbol in the upper-left corner, select "HTTP(S) call" and fill out the schedule per your requirements for this event.





•	~]	< openhab			*				
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00:00)								
00:30)								
01:00)								
01:30)								
02:00) —								
02:30) -								
03:00)								
03:30) —								
04:00)								
04:30)								

4.4 Return to the main administration area and save the settings.

Hint: By tapping the button in the upper right corner it is possible to fill or empty the entire schedule.

- Note: If you have any questions or problems with the openHAB configuration, please write your question in the openHAB Community: https://community.openhab.org/
- Note: For questions and problems regarding our devices (DoorBird IP Video Door Station or DoorBird IP Upgrade), please contact our technical support via the contact form online : <u>https://www.doorbird.com/de/contact</u>

FIRMWARE INFORMATION

This manual was tested using the following versions:	openHAB 3.4.2 Release Build Website		\bigcirc
1. openHAB	Documentation		\cup
Version: 3.4.2 Release Build Operating System: Windows	Community Forum		
	Technical Information		^
	Configuration folder		C:\openHAB\conf
	User data folder		C:\openHAB\userdata
	Logs folder		C:\openHAB\userdata\logs
	Operating system		Windows 11/10.0 (amd64)
2. DoorBird IP Video Door Station:	Java Runtime Azul Systems, Inc.		17.0.6 (Zulu17.40+19-CA)
		8 available processors - 32/164MB available memory	
Hardware device series: D21DKH-V2A Software Version: 000138		View Details	
Hardware device series: D1102FV Software Version: 000139			

Hardware device series: D101S Software Version: 000138