

SYSTEM REQUIREMENTS

- DoorBird IP Video Door Station D10x/D11x/D21x Series.
- RTI XP3 Advance Control Processor (server) and CX7 touch panel (client).
- RTI Integration Designer tool, RTI Dealers account.

ADDITIONAL INFORMATION

The following guide will take you through the steps of setting up a DoorBird IP Video Door Station in connection with the RTI Device. Please make sure that the RTI device receives an IP address and is connected to the same local network as your DoorBird IP Video Door Station. Please also 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.

- You can call from DoorBird to RTI CX7 panel and vice-versa.
- During the call, you can trigger the relay(Open door/IR Lights on).
- You can view the essential details on the panel by programming using the Integration Designer tool.

1. SETTING UP THE RTI XP3 AND CX7

1.1 Download the Integration Designer tool from the RTI website and install it on your PC.

Integration Designer

Advanced system programming software.

Learn More

Download Integration Designer 11

1.2 Open the Integration Designer tool to create a new system or open with the provided sample file.

Note: Please download the Driver zip file and go through all the Files.



Hint: You can locate the sample file in the Driver ZIP folder. Open the sample file in the Integration Designer and edit the DoorBird details by following these steps: 1.10, 1.16, 1.22, 1.23, 1.24, and 1.25



- 1.3 If you are creating new system, open DoorBird RTI Image file.
- 1.4 Add the Processor, Controllers and Drivers under Global Section. Right Click on Global to get the "Add New" option.



1.5 Select XP-3 ,Click on Add Processor.

| Select room to add the device to: | Processors |
|-----------------------------------|----------------------------|
| Global | Library: |
| | Search: Clear |
| | Processor Type |
| | KX4 with Processor |
| | ₩ RP-4 |
| | 🛱 XP-3 |
| | 🛱 XP-6 |
| | ₩ XP-6s |
| | H XP-8s |
| | |
| | Cardologe > |
| | ₩ VXP-82 |
| | |
| | |
| | |
| | |
| | Processor Name: XP-3 |
| | < Back Add Processor Close |

Note: Please download and go through the Integration Designer manual available on the RTI website <u>https://www.rticontrol.com/pub/media/wysiwyg/dealer/technote/Integration_Designer_User_Manual.pdf</u>



1.6 Select a room of your choice and select CX7 Controllers, click on Next.

| Global | | | | | |
|------------------|---------|--------------|------------------------|---------|-------|
| Imported Devices | Library | /: | | | |
| | Search | h: | | | Clear |
| | | Manufacturer | Туре | Model | |
| | | RTI | Handheld Control | T1-8+ | |
| | | RTI | Handheld Control | T2i | |
| | | RTI | Handheld Control | T2x | |
| | | RTI | Handheld Control | T4x | |
| | | RTI | Handheld Control | Pro24.z | |
| | | RTI | In-Wall Control RKM-1+ | | |
| | | RTI | In-Wall Control | WK2 | |
| | | RTI | In-Wall Control | KX1 | |
| | | RTI | In-Wall Control | RK1+ | |
| | | RTI | In-Wall Control | KX2 | |
| | | RTI | In-Wall Control | KX3 | |
| | | RTI | In-Wall Control | KX4 | |
| | | RTI | In-Wall Control | KX7s | |
| | | RTI | In-Wall Control | CX7 | |
| | | RTI | In-Wall Control | KX10s | |
| | 1 | RTT | In-Wall Control | CX10 | |
| | 1.51 | TTQ | In-Wall Control | CY10 | |

1.7 Select a path as shown below or choice of your option, please do make a note of your path. Click on Add a Device.

| Sevice Informatic | n: | Add pages for the following sources: |
|-------------------|-----------------|--------------------------------------|
| Room Name: | Global | All Sources |
| Manufacturer: | RTI | V Global |
| Type: | In-Wall Control | V Weather |
| Model: | CX7 | |
| Page Template: | Obsidian | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | Expand All Collapse All |
| lame of Device: | CX7 | Expand All Collapse All |

Hint: Enter a Name for Device of your choice.



1.8 Select DoorBird in the Drivers Section.

| lobal | Kooms | Controllers | Drivers | ZWave | Infrared | RS-232 | Pageset | ts Bundles | | |
|------------------|----------|--|--|-------|----------|--------|---------|--|---|--|
| Imported Devices | Library: | Library: SYSTEM | | | | | | | | |
| | Search: | doorbird | | | | | | | Clear | |
| | | Add To Existin Add New Driv DoorBird Statio Si Si Si Si Si Si Si Si Si Si Si Si Si | ng Driver er n tation 1 tation 2 tation 3 tation 4 tation 3 tation 4 tation 5 tation 6 tation 7 tation 8 tation 9 tation 10 tation 12 | | | | | Driver Name: DoorBird Author: RTI Last Modified 2018-07-26 Source: Station 1 Manufacture Bird Home Aut Model: DoorBird Version: 1.13 More Informat | I: r: omation attrieteo attrieteo Mattrieteo Mattrieteo Mattrieteo | |

1.9 Select a path as shown below or choice of your option, please do make a note of your path. Click on "Add Device" and "Close".

| evice Informat | on: | Add pages to the following controllers: |
|--|---|---|
| Room Name: Manufacturer: Type: Model: Name | Global Bird Home Automation Station 1 DoorBird DoorBird | All Controllers |
| | | |
| | | Expand All Collapse A |



1.10 Click on "Drivers --> DoorBird --> Driver Properties".

Enter the DoorBird IP Address, Username and Password (User0001/User0002/,...) Save the System/Apply Auto save changes.

| kspace | 4 (9) DoorBird × | | |
|------------------|--|--------------------------------|------------------------|
| X 🗄 🖻 | Driver Configuration | System Settings | |
| Global | Driver Utilities | Processor | Default (Master) |
| Processor | Contrast Descention | Station Count | |
| Doorbird | Driver Properties | Number of Stations | 2 |
| Lel Controllers | Driver Events | Notifications Configuration | |
| (A Deceliar | O Driver Info | Port | Port 6524 |
| Ser Doorbird | | Station 1 Configuration | |
| Sources | | Station Name | sStation 1 |
| Home | | Station IP Address | 192.168.170.8 |
| Station 1 | | Number of Users | 6 |
| Station 2 | | Station 1 User 1 Configuration | |
| M XP Diagnostics | | Name of User | Main User Small Statio |
| Attic | | Login - Username | Sabcdef0001 |
| La Controllers | | Login - Password | soweAsDZvc |
| Lei CA | | Doorbell ID | 1 |
| Sources | | Door/Relay Access Count | 1 |
| Home | | Door/Relay 1 Name | Front Gate |
| | | Door/Relay 1 Controller ID | 1 |
| | | Station 1 User 2 Configuration | |
| | | Name of User | Secondary User Small 5 |
| | | Login - Username | |
| | | Loois - Decement | |

1.11 Go to "Sources --> Station 1". An Example is shown in the following next steps will help to create the UI on the CX7 touch panel.



DoorBird Connect RTI



1.12 Click on "Merge pages" so that you can see the same page from imported devices in the Station 1 Section.



1.13 Select the option --> "Another device in the current system" and Click on "OK".

1.14 Select "DoorBird CX7" and Click on "OK".

| Merge Pag | lerge Pages X | | | | t Device | rce device from | the list below: | | | |
|--------------|--|--|--|----------|-----------------------------|----------------------------|--|---------------------|---|--|
| Please selec | t where the pages to Mother device in the Mother system file | be merged are located: current system | | | Name DoorBird CX7 CX7 | Manufacturer RTI RTI | Type In-Wall Control In-Wall Control | Model CX7 CX7 | Description 7° Color (800x480) 7° Color (800x480) | |
| | ОК | Cancel | | <u> </u> | | \langle | ОК |) | ancel | |

1.15 Select the page view you want to import.





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1.16 Right Click on the "Generic MJPEG View" and Enter the link to view the DoorBird live stream. Click on OK. http://user0001:password@DoorBird-IP-Address/bha-api/video.cgi

| eneral Command Tag | |
|---|-------------------------|
| Command: | Edit Properties |
| MJPEG Viewer | Variable |
| | Cut |
| Complete MJPEG Video URL | Сору |
| http://abcdef0001:qweAsDZxc@192.168.170.8/bha-api/vid | Delete |
| unused | Arrange |
| | Move |
| inused | Show Button on All Fram |
| | Move To Layer |
| invited | Auto-program |
| | |
| | |

1.17 Each button can be configured according to its functionality using the Objects lists of VoIP. Drag and drop the Send DTMF to the Relay button "Open door" and "IR Light". Edit the text of the White Button and you can style the button.

| | Objects |
|--|--|
| Frame: $\langle 1/1 \rangle$ | Objects: |
| | VoIP |
| | Commands: |
| Edit Button Text Arial Open Door Open Door | Video: Incoming Video Video: Outgoing Video Call Volume: Down Call Volume: Up Call: Answer Call: Hang Up Call: Reject Dial: Extension Dial: IP Address Dial: RTI Device Mic: Toggle Mute Ring Volume: Down Ring Volume: Up Send DTMF Settings: Toggle Auto Answith |
| OK Cancel | Duration (ms) |
| | 500 |
| | Mode |
| | SIP INFO |

Note: To call DoorBird use the Dial IP address object. Enter IP address of DoorBird e.g.,192.168.170.8 To Hang Up the call use the Call: Hang Up object.

To Answer the call use the Call: Answer object.



Call

1.18 Click on the button to edit --> In the Button Properties section. Each Button can be deleted or edited for Name/Command/Properties.

Right click on the Icon to add a Macro as shown below.



Frame: < 1/1 >



1.19 Select Macro type --> Command.





1.20 Select device --> DoorBird --> Control command and the function you want to add that particular button.





1.21 Right click on Outside the frame and Click on Device properties.



1.22 Enable VoIP and the settings as shown below.

| Device Proper | ties | | | | | | | > | |
|---------------|----------|---------------------------|----------|---------|---------|--------|--------|---|--|
| Network (Wir | eless) | 802 | 2.11 | Web | Brows | er | Clock | | |
| General | Backlig | ht Sounds Network (| | | | | | | |
| Output | VoIP | VoIP-SIP Flag Names Notes | | | | | | | |
| Enable V | oIP Supp | ort - | | | | | | | |
| Caller ID: | DoorBir | rd_CX | 7 | | | | | | |
| Incoming Ca | ll Page: | S | tation 1 | MJPE | G UI Va | lume | \sim | | |
| Incoming Cal | Sound: | (0 | lefault | rington | e) | | \sim | | |
| Default Se | ttings | | | | | | | | |
| Volume: | High | \sim | Mic | Level: | Med | ium | \sim | | |
| Speaker | AGC | M | lic AGC | | Do | Not Di | isturb | | |
| Push To | Talk | | uto An | swer | Rin | g Ono | e | | |
| Echo M | ode: | Fi | xed - M | edium | | | \sim | | |
| 🕗 Half Dup | lex | | | | | | | | |
| Silence | Mode: | No | ne | | | | \sim | | |
| Auto Ser | nd Video | Tx V | /ideo | 17 | 6x144 | (QCIF |) ~ | | |
| | | | Tx F | rame R | ate: | 10 fp | s v | | |
| | | | [| OK | : | | Cancel | | |



1.23 Save the file.

| D Integration Designer® [DB] | - Station 1 * | | | | | | | |
|------------------------------|----------------------------|-----------------------------------|------------------------|------------------|------------|-------------|---------|----------|
| File Device Edit Page | Options Communications | Library Window H | | | | | | |
| 00 D 🖻 📢 | 🔒 🔊 🍽 🐰 🖻 🛍 🗉 | , 🐿 🛤 🔮 🛤 🛗 | Devices found of | on Local Network | | | | |
| Workspace | Save System (Ctrl+S) | Station 1 X | Devices found on the l | local network: | | | | |
| | Save System (Cur+S) | | Manufacturer / | Model | IP Address | MAC Address | Name | Firmware |
| 🥶 🗙 🖽 🖃 | Saves any modifications to | Source Configuratio | RTI | XP-3 | | | Doorbi_ | 24.3.29 |
| ✓ ⊕ Global Brocessor | the current system file | 📜 Macro List | RTI | CX7 | | | CX7 | 22.3.31 |
| > 🔚 Controllers | | Variable List | | | | | | |
| V 🔯 Drivers | | 🗧 Usage Events | | | | | | |
| DoorBird | | | | | | | | |

1.24 Connect USB cables from the PC USB port to the RTI-CX7 device USB port and RTI-XP3 device USB port. Go to "Communications --> Send to Device".

| egration Designer® [DB] - Station 1 * | | | | | | | Devices found | on Local Network | | | | | | | | |
|--|-----|--|-------------------|------------------------------|-------|-------------------------|-------------------------------------|------------------|----------------------|------------------|----------------|--------------------|--|--|--|--|
| Device Edit Page Options | Com | nmunications Library Window Help | | | | | Devices found on the local network: | | | | | | | | | |
|) 🖸 📄 📄 📂 🕞 🕌 🖶 🔊 pace | | Get USB Device Update Firmwa | e Firmw are | are Version | | | Manufacturer / | Model XP-3 | IP Address | MAC Address | Name Doorbi | Eirmwar 24.3.29 | | | | |
| € E Global Brocessor | | Show Devices | on Loca 24 Wir | al Network eless Repeater | | | RTI | CX7 | | | CX7 | 22.3.31 | | | | |
| Controllers | | Set Expansion | Device | TCP/IP Configurati | on | | Hint Loca | Click on S | how Dev to see th | vices on e IP | | | | | | |
| DoorBird Sources Home Station 1 | | Send To Device Ctrl+T Export to Virtual Panel File Get SURFiR Configuration Code | | | | address of RTI devices. | | | | | | | | | | |
| C Station 1 × | | | | | | | | | | | | | | | | |
| Send to Device | | | | | - 4- | | | | × | | | | | | | |
| Device | | Room | | Status Needs Updating | Curre | ent Tar | get | Download Send | | | | | | | | |
| 4 cx7 | | Global | | Needs Updating | USB | | | Send | | | | | | | | |

1.25 Click on Send after successfully sending the updates, the status will change to --> Up To Date

| Send to Device | | | | × |
|----------------|--------|------------|----------------|----------|
| Device | Room | Status | Current Target | Download |
| XP-3 | Global | Up To Date | <u>USB</u> | Send |
| CX7 | Global | Up To Date | USB | Send |

Note: Please update after any changes in the file.

You can Program over Ethernet/USB/IP Address.



2. SETTING UP THE DOORBIRD IP VIDEO DOOR STATION

For the DoorBird IP Video Door Station to be properly able to communicate with the RTI device, the DoorBird device's SIP settings must be adjusted accordingly.

2.1 Open the DoorBird App and log into the administration area under "Settings \rightarrow 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 | | 'n | ? ∎ |
|----------------|---------|---------|------------|
| | Adminis | tration | |
| LOGIN | | | Q |
| Admin name | | | |
| Admin password | ł | | 0 |
| Save login | | | |
| | | | |

2.2 After login, go to USER --> Settings --> In user management enable the "Permissions" (In order see the video in the RTI Touch panel screen). Save the Changes.

| 4:21 | ņ. | ♀ î |
|----------------|-----------------|---------------|
| | Administration | Save |
| PASSWORD | | |
| | | 0 |
| c | CHANGE PASSWORD | |
| NAME (COMME | NT) | |
| | | |
| PERMISSIONS | | |
| Permissions | \langle | Select > |
| ASSIGN CALL BU | JTTON | |
| Call button | Doo | rbell No. 1 🕽 |
| | | |

| Administration | |
|-------------------------|--------------|
| PERMISSIONS | |
| Watch always | \checkmark |
| History | \checkmark |
| Motion | \checkmark |
| Geofencing | \checkmark |
| API-Operator | \checkmark |
| ACCESS RELAYS | |
| Relay 1 | \checkmark |
| I O controller: Relay 1 | \checkmark |
| | |

2.3 Go to SIP Settings, Enable the SIP.





- 2.4 Enable "DTMF". Enter the Relay PIN of your choice (Refer Section: 1.17 Enter the same PIN in the Send DTMF code object to Open Door/Trigger Relay).
- 2.5 Enable "Allow Incoming calls", Add --> DoorBird_CX7

| 4:21 | jp. | | | | Allowed SIP User |
|-------------------|--------------|-----------|---|--------------|------------------|
| | SIP Settings | Save | | DoorBird_CX7 | DoorBird_CX7 |
| ADVANCED SET | TINGS | | | | |
| DTMF | | - | | | |
| Light PIN | | 1234 | ì | | |
| Relay 1 PIN | | 5555 | | | |
| Allow incoming | calls | - | ľ | | |
| Allowed SIP Us | ers | 1 > | b | \mathbf{b} | 6 |
| Button action d | uring call | No action | | | ſ |
| Ring time limit | (max. 180s) | 180 | | | |
| Call time limit (| max. 300s) | | | | ADD |
| Noise cancella | tion | -0- | | (0) | (•) (~) |

2.6 In "Favorites --> SIP numbers --> Add SIP number" e.g.,DoorBird_CX7@192.168.170.6 (IP address of CX7 controller).Save the SIP Number.

| | 4:21 | 9 | ♥ 🕯 |
|---|---------------|----------------|------|
| I | | Administration | Save |
| l | FINGERPRINT R | READER | |
| ľ | Settings | | > |
| | History | | > |
| | BLUETOOTH KE | EYFOB | |
| | Settings | | > |
| | History | | > |
| I | FAVORITES | | |
| | HTTP(S) Calls | | > |
| | SIP Numbers | (| , |

2.7 Go back to the main administration area and schedule for actions.



3. SCHEDULE CONFIGURATION

To forward calls from the DoorBird IP Video Door Station to the RTI CX7 touch Panel, a schedule for ring events needs to be set up.

Depending on the model of the DoorBird IP Video Door Station, choose one of the following options:

A) 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 "SIP call" and fill out the schedule as per your requirements for this event.

B) For all devices with a 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 "SIP call" and fill out the schedule per your requirements for this event.

C) For all devices outfitted with a digital display (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 "SIP call" and fill out the schedule per your requirements for this event.





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

Return to the main administration area and save the settings.

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Note: If you have any questions or problems with the products "RTI" , please contact the manufacturer directly online: <u>https://www.rticontrol.com/</u>

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:

1. RTI Model: CX7 Advanced Tabletop Controller (Client) Firmware Version: 22.3.31

Model: XP3 Advanced Control Processor(Server) Firmware Version: 24.3.29

2. Integration Designer Tool Version: 11.10.2

3. Door Bird IP Video Door Station: Hardware device series: D21DKH-V2A Software Version: 000146

Hardware device series: D1102FV Software Version: 000148

Hardware device series: D101S Software Version: 000146