Basic / Intermediate / Expert

Alexa Voice control

In Wiser for KNX (W4K)

Application note

LSS100100

11/2020

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1 Introduction

This application note describes Alexa voice control setup to be used by end users.

1.1 Preconditions

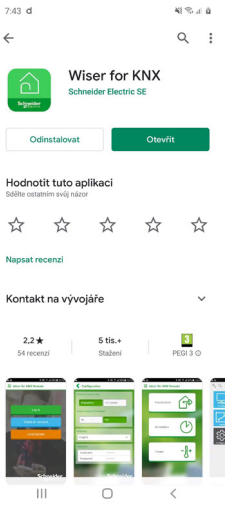
- Wiser for KNX remote app account - If you have not account yet, follow steps in chapter 2.
- Wiser for KNX controller with Touch3 application (Widget based visualization)
- Alexa mobile application or Alexa Echo device, speaker (optional)

2 Voice control configuration

If you already have Wiser for KNX registered with your email address (for Wiser for KNX remote APP) you can skip registration part in chapter 2.1.

2.1 Registration of a new W4K remote app account

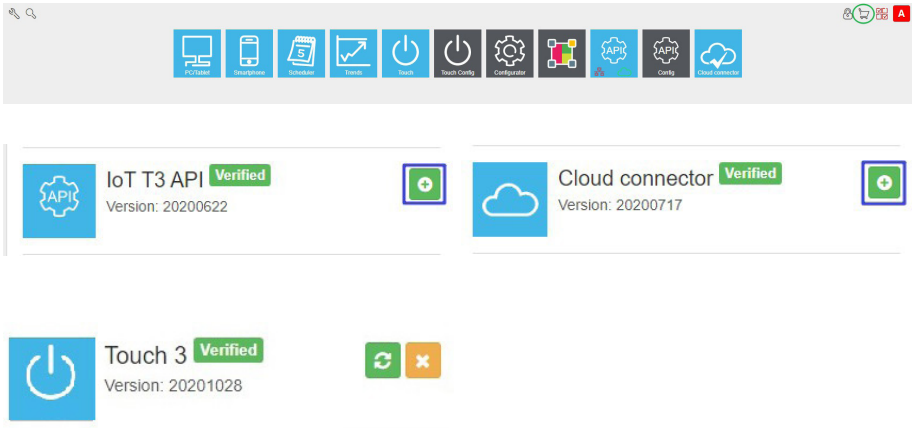
- Download Wiser for KNX remote app from the Google Play or Apple App Store



3 Cloud connector, IoT T3 API and Touch 3 installation

- Access the Marketplace in the Wiser for KNX controller and install the latest versions of the **“Cloud connector app”, “IoT T3 API” app and “Touch 3”**

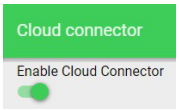
Note: We recommend to back-up your current **Touch 3** project



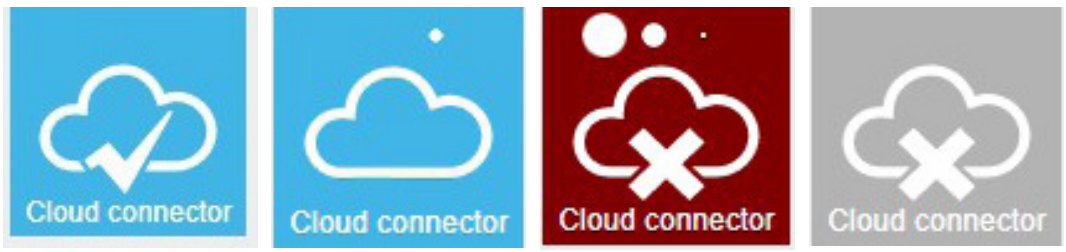
- Downloaded applications are available on start page of the controller

3.1 Check Cloud connector connection and enable IoT T3 API

- Cloud connector
  - » Open Cloud connector application and enable it



- Cloud connector Icon statuses:
  - » Blue icon with checkmark - Cloud connector is connected
  - » Blue icon without checkmark - Cloud connector is in the connection process
  - » Red icon - Cloud connector is not able to connect
  - » Grey icon - Cloud connector is disabled



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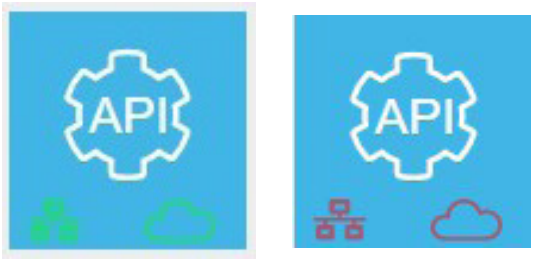
- IoT T3 API
  - » Open IoT T3 API application and enable it for cloud connection

- IoT T3 API icon statuses:
  - » Green icon of the cloud or network on the IoT T3 API application - remote or local access to the IoT T3 API is enabled
  - » Red icon of the cloud or network on the IoT T3 API application - remote or local access to the IoT T3 API is disabled



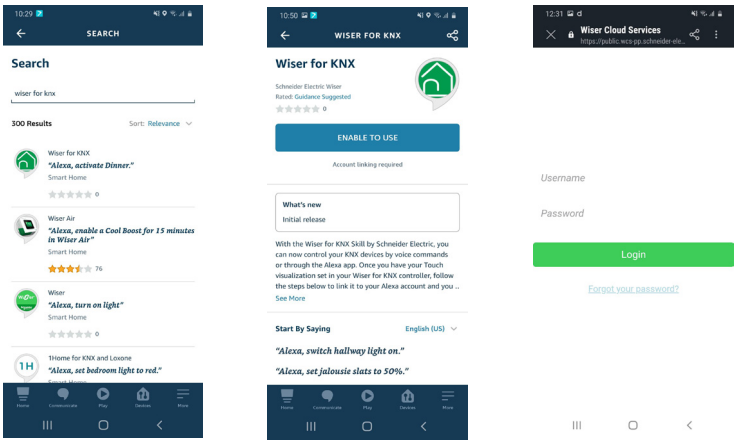
4 Amazon configuration

4.1 Amazon Alexa account registration

- If you already have Amazon account just Log-in.
- If you do not have an Amazon account, create it on www.amazon.com or through the Amazon Alexa mobile application in your iOS or Android device

4.2 Enable Alexa Skill

- **Pre-condition**: To enable alexa Skill you need to have activated W4K Remote app account.
- Log-in to your Alexa account
- Click “Skills“ and search for the “**Wiser for KNX**”
- Click skill and Enable to use
- You will be redirected to the Schneider log-in page Introduce the same credential that you use to login to the Wiser for KNX remote app



5 Touch 3

Precondition: Having installed the latest version available of the Touch visualization and having created the Widgets to control your installation.

Notes:

- More widgets can be added later.
- Existing names of Widgets are used for identification in the voice commands. We recommend you using simple names for your Widgets
- If you change the name of the Widget in the Alexa App only, that will be the name Alexa will recognize for voice control. Keep in mind that if you don't change the name in the Widget in Touch and run the discovery process again, the name you have set in the Alexa app will be overwritten with the name of the Widget

5.1 Widgets compatible with Voice Control

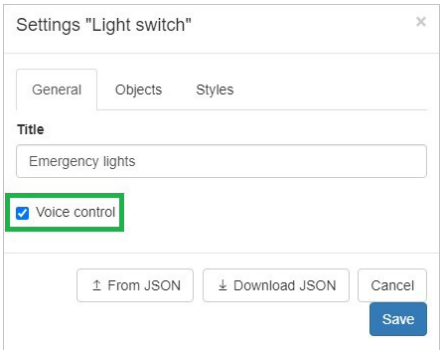
The list of all current Widgets supporting Voice Control is the following:

- Light switch
- General switch
- AC switch
- Fan switch
- Socket switch
- Dimmer Horizontal
- Dimmer Vertical
- Dimmer Rotary
- Shutter Horizontal
- Shutter Vertical
- Shutter Rotary
- Scene

Note: Voice control support of another widgets is going to be extend in next releases of Wiser for KNX skill.

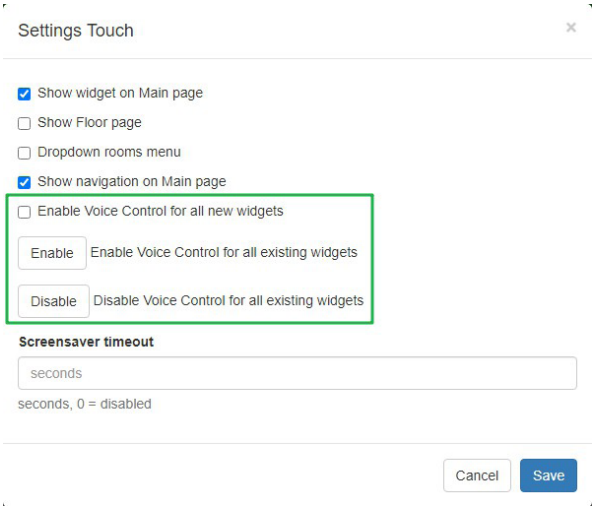
5.2 Enabling Voice control in the Widgets

Voice control is enabled or disabled by Voice control checkbox in general tab under each widget.



Note: By default, all compatible Voice Control compatible widgets have the checkbox disabled.

- To enable voice control for all compatible Widgets, access the Settings in the Touch Config. and click on the “Enable Voice Control for all Widgets” button.



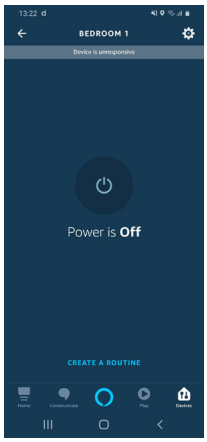
Note: All new Widgets created after this date, will need to be manually enabled for Voice Control, either individually or by pressing the “Enable Voice Control for all Widgets” button Apply to all button mentioned above (depending on your needs).

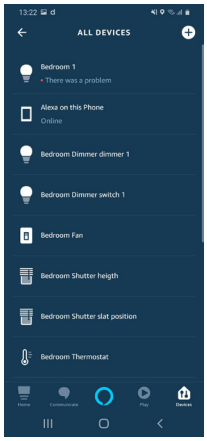
If you want to enable or disable voice control on specific widget, open it and uncheck Voice control checkbox

If you would like to disable all at once, from settings you can press the “Disable Voice Control for all Widgets” button.

Note: Keep in mind that when voice control is disabled:

- A widget/s are not anymore discoverable as a device in Alexa App
- Device is not possible to control by voice neither manually by Alexa App
- When widget is enabled for voice control it can be rediscovered and used in Alexa app or voice control again.





Important. Make sure that the Widget has their feedback objects set. If those fields are not set, the Widget won’t be discoverable)

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6 Alexa Voice Control application

6.1 Wiser for KNX Skill

The first release of the Wiser for KNX Skill supports English, German and Spanish. During the validation process, when having the Alexa Echo device set in a different language from the ones supported, it was identified that Alexa recognized the commands for Voice Control in both English and that other language even they're not officially supported yet.

In future releases of the Wiser for KNX skill, support for other languages will be added.

6.2 Devices discovery process

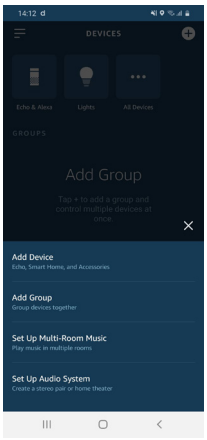
Preconditions:

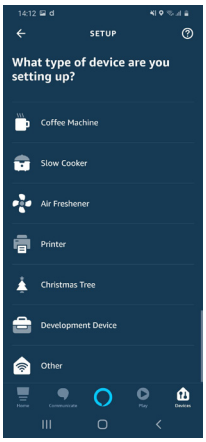
- Created visualization with voice control ready widgets.
- Having enabled the "Voice control" checkbox of all supported Widgets you would like to control through Alexa

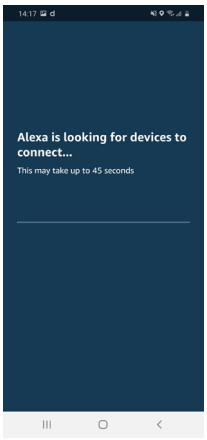
Notes:

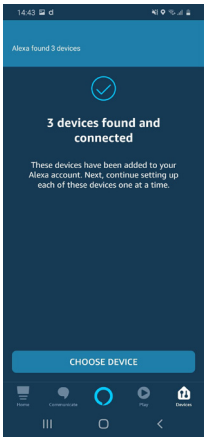
A structure of Touch visualization (floors, rooms) is not supported by Alexa. Create groups in Alexa App to mirror Touch structure.

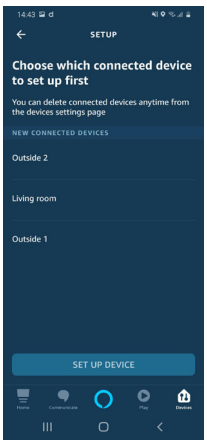
Once the desired Widgets have been enabled for Voice Control, start discovery procedure by saying: "Alexa, discover my devices ", or in the Alexa app by "adding devices"



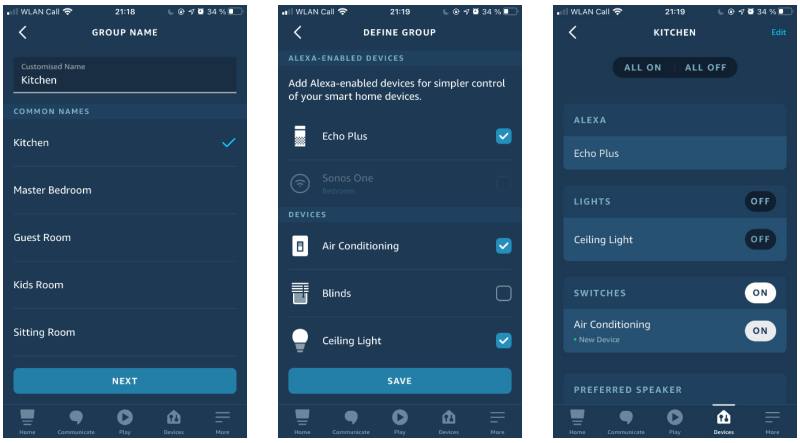








Amazon Alexa Groups: Discovered devices can be sorted out to groups. The groups can be used also for control all devices assigned in the specific group. You can find more detailed information here.



When the discovery process is done you can control your devices by Alexa app or voice command.

Important:

- Some special multi-widget as Light switch, socket switch are displayed as separate widgets in Alexa with same name and suffix number.

  Example: A socket widget named “Socket garage” controls 3 different sockets are displayed in Alexa app as: Garage socket 1, Garage socket 2 and Garage socket 3 so they can be controlled independently.

- A shutter vertical and horizontal widgets are discovered by Alexa and displayed as two separate widgets. First for control a position of the blind (up/down) and the second for slats angle..

  Example: A shutter vertical widget named “Jalousie Kitchen” is displayed in Alexa app as Jalousie Kitchen (controlling the position of the blinds) and Jalousie Kitchen slats (controlling the angle). The name of the second widget can be customized in Alexa app.

Alexa Routines: Define your routines in the Alexa app and trigger different actions in sequence by calling a voice command that you define. Example: “Alexa good morning” (It could tell you the weather, followed by switching all lights in the bedroom, followed by playing music). More information here.

6.3 Widgets control through Voice commands

6.3.1 Switches (Light switch, General switch, AC switch, Fan switch, Socket switch)

Accepted commands:

- switch On/Off, turn On/Off, activate/deactivate, enable/disable

Example:

“Alexa, switch ceiling light On”

“Alexa, turn the fan Off”

“Alexa, activate the kitchen light”

“Alexa, disable the main switch)

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6.3.2 Dimmers (Horizontal dimmer, Vertical dimmer, Rotary dimmer)

Accepted commands:

- Same commands as in switch (switch On/Off, turn On/Off, activate/deactivate, enable/disable)
- Set, increase by, decrease by

Example:

“Alexa, switch ceiling light On”

“Alexa, set the kitchen light to 60%”

“Alexa, decrease the kitchen light by 25%”

6.3.3 Shutter (Horizontal shutter, Vertical shutter, Rotary shutter)

Accepted commands:

- Move up/down, Set,

Example:

“Alexa, move the kitchen blinds Up”

“Alexa, set the kitchen jalousie slats to 50%”

“Alexa, increase the kitchen light by 25%”

6.3.4 Scene

Accepted commands:

- Activate/deactivate, switch On/Off, enable/disable,

Example:

“Alexa, enable scene 1”

“Alexa, activate “Party””

“Alexa, Switch On “Away””:

6.4 Troubleshooting:

Problem:

1. I have done the Discovery process and some (or all) of the Widgets have not been discovered by Alexa.

Try:

- The Widgets have the Voice Control checkbox enabled
- Check your Widgets and make sure the feedback objects are set (If they are not selected, the Widget won’t be discoverable)
- The Cloud Connector and the IoT T3 AP are enabled and are connected (as explained in section 3)
- The Wiser for KNX Skill is enabled
- Run the Discovery process again

Problem:

2. I have changed a name of the device in Alexa app. After discovery, devices are not available anymore.

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Try:

Widget names are during discovery procedure send to Alexa.
Recommended procedure is to change widget names in Touch application and run
discovery procedure again.

Problem:

3. I want to delete devices from the Alexa app.I have disabled voice control in the Touch application but the devices are still available in Alexa app.

Try:

If you would like to delete devices in Alexa, on top of disabling the Widgets in the Touch Visu, devices have to be deleted from Alexa app manually.

Problem:

4. Alexa app discovered more devices. Some of them have number postfix.

Try:

Touch has some special multi-widget as Light switch, socket switch. They are displayed as separate widgets in Alexa with same name and suffix number. More information in section 6.

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