



Extending home automation and simplifying assisted living

a collaboration between



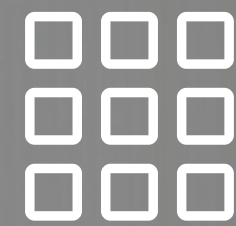
# PRESENTATION AGENDA

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## 1 INTRODUCTION

A brief overview of what are goals are and how we are achieving them by developing Porter.



## 2 FEATURE OVERVIEW

A look at each of the key features of Porter, and how they each solve a problem.



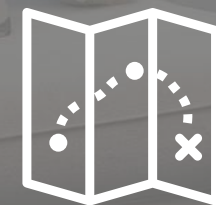
## 3 DEVICE INSTALLATION

We'll take a look at the incredibly simple installation process for the current version.



## 4 DATA SECURITY

A quick look at the security measures put in place to protect data stored on Porter.



## 5 DEVELOPMENT TIMELINE

In this section, we will look over the feature developments and when they're expected to be achieved.



## 6 QUESTIONS & ANSWERS

We can answer any questions you have at the end of the presentation.



A modern kitchen and dining area with white cabinetry, a central island with a sink and faucet, a gas stove, and a dining table with chairs. The background is a blurred image of the same space.

# INTRODUCTION

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1. What is Porter?
2. Objectives



# INTRODUCTION

## WHAT IS PORTER?



Porter is an extension of your current home automation system.



Porter provides a better user experience when controlling the home automation system.



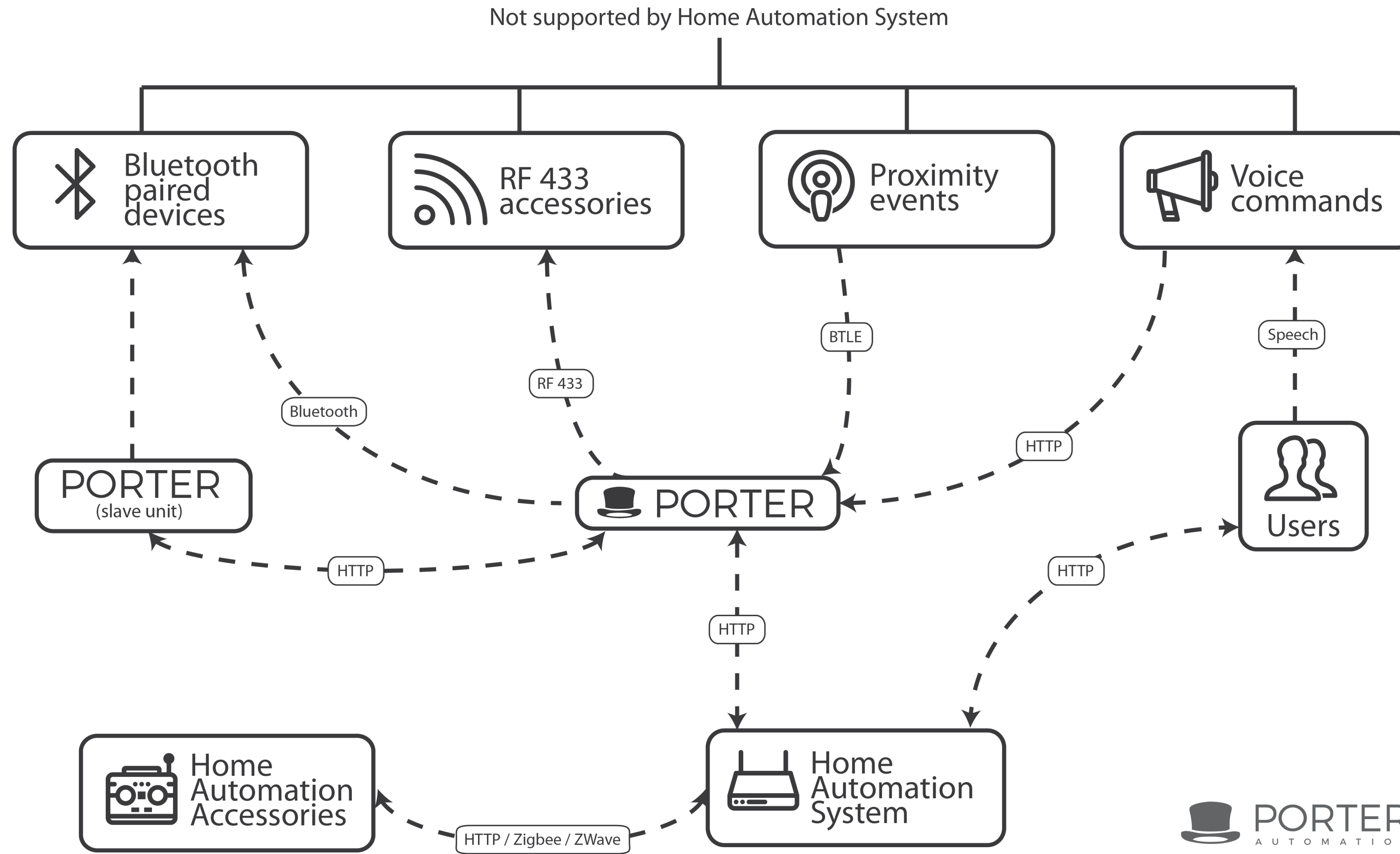
Porter bridges the gap between some existing incompatible solutions around the home.



Currently, Porter is only compatible with the Fibaro Home Centre 2. We plan to support more platforms in the future.

# INTRODUCTION

## WHAT IS PORTER?







# INTRODUCTION OBJECTIVES

- ① Our primary objective is to simplify the way assisted living clientele interact with their home automation system.
- ② Extend the functionality of the home automation system to various incompatible products
- ③ Provide more independence to assisted living clients through integration of hands-free voice commands, and location based actions.
- ④ Reduce installation time and costs by way of a simplified install configurator for the home automation system.



# FEATURES

1. Proximity
2. Voice control
3. RF 433
4. Device pairing
5. Notifications





## LOCATION BASED ACTIONS

Direct control of accessories based upon location in the building. For example, secure front door operation based on proximity.



## GRANULAR CONTROL

The ability to adjust distance triggers allows more precise control.



## MAKE MULTIPLE REQUESTS

With the ability to make multiple requests to multiple locations, this allows complete flexibility with retro fit solutions.



## SIMPLE TO SET UP

The proximity features have been designed to allow a non-technical user set the device up.







## SUITED CLIENTS: ELECTRIC WHEELCHAIR USERS

Use cases:

- Operating doors within the home
- Activating garage doors
- Controlling lighting dependent on location in the building
- Controlling windows
- Event notifications

# FEATURES PROXIMITY USE CASES





# FEATURES

## VOICE CONTROL



### “TURN ON THE KITCHEN LIGHTS”

It's as simple as activating the speech recognition and saying a phrase such as “Hey Siri, turn on the office lights”.



### AUTOMATIC IMPORT

Spend less time configuring accessories on the mobile device – Porter imports the accessories automatically.



### MOBILE PLATFORM SUPPORT

Currently Porter only supports Apple's iOS 10 operating system. The Android operating system will be implemented in the future.





## **SUITED USERS: ALL ASSISTED LIVING CLIENTS**

Use cases:

- Control your home automation accessories using your voice.
- If we can display it in the HomeKit app on the iOS device, you can control it with voice commands.

FEATURES  
**VOICE CONTROL**  
USE CASES





## INTEGRATE ISOLATED DEVICES

Compatible RF 433 devices typically require special remote controls to operate. Porter replaces remote controls and integrates RF 433 devices directly with existing home automation systems.



## LONG RANGE SIGNAL

RF 433 excels at penetrating walls and other solid objects with little signal decay.



## MULTI-DEVICE CONTROL

Retire the cluster of remote controls. Porter can handle literally hundreds of RF 433 devices effortlessly.



## SIMPLE TO SET UP

You can train Porter to control RF 433 devices in minutes.



FEATURES  
**RF 433**  
Under development





## SUITED USERS: ALL ASSISTED LIVING CLIENTS

Use cases:

- Remote control internal blinds
- Activate outdoor awnings
- Window operation
- Control A/V systems
- Remote zone control for HVAC systems
- Adjust motorized bed positions
- Operate hygiene devices, such as a bidet

FEATURES  
**RF 433**  
USE CASES  
Under development





# FEATURES

## DEVICE PAIRING

Under research & development



### PAIR DEVICES WITH PORTER VIA BLUETOOTH

Pair your Bluetooth device with Porter and control it from your home automation system.



### REMOTE CONNECTIVITY

Typically Bluetooth has a short range on the signal. We are working on a solution that acts as a “slave” unit that allows the Bluetooth accessory to be controlled even when out of Bluetooth’s short range.





## SUITED USERS: ELECTRIC WHEELCHAIR USERS

Use cases:

- Integrate with environmental controls on specific electric wheelchair models.

FEATURES  
**DEVICE PAIRING**  
USE CASES  
Under research & development





## EVENT DRIVEN NOTIFICATIONS

Create notifications & alerts to be generated on specific events happening, for example; doors opening or temperature readings passing a defined threshold.



## RELIABILITY MEASURES

In the event of internet, local network, power, or even failure of Porter, Porter can still notify a set of designated contacts via SMS and email.



FEATURES  
**NOTIFICATIONS**  
Under development



A modern office interior featuring a reception desk with a white base and a dark wood top. The desk is equipped with a laptop, a telephone, and a small monitor. Behind the desk, there is a glass partition and a chair. The office has a high ceiling with recessed lighting and a large glass door leading outside. The floor is made of light-colored tiles with dark grey stripes. The overall atmosphere is clean and professional.

# INSTALLATION

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A quick look at the installation process of Porter.



# CURRENT INSTALLATION PROCESS

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## INSTALL HOME AUTOMATION

Porter should be installed after the installation of the Home Automation system has been complete.

## SETUP WIRELESS NETWORK

Porter will require you to enter valid wireless network credentials to operate.

## CONNECT HOME AUTOMATION

Connect your home automation system to Porter by entering your home automation credentials into Porter

ⓘ The install process may change over time, as more features are added.



# SECURITY

A quick overview of Porter's security and privacy measures.



# SECURITY

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## LOCAL STORAGE

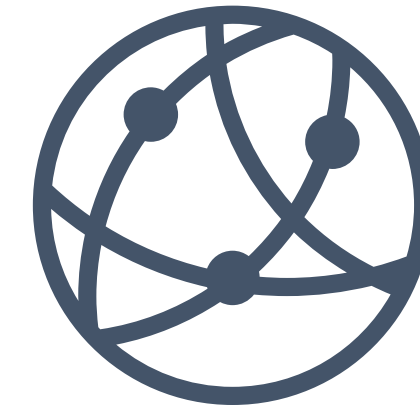
All local information stored on Porter is encrypted by default. The device uses a strict set of permissions that restricts access to data stored on the device.



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## EXTERNAL STORAGE

We use industry standard methods to secure our infrastructure. The servers run strict access control permissions. Personal user information is encrypted and only decrypted when required.



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## COMMUNICATION

All communication between Porter and the external infrastructure will be transmitted over 2048 bit encrypted channels.