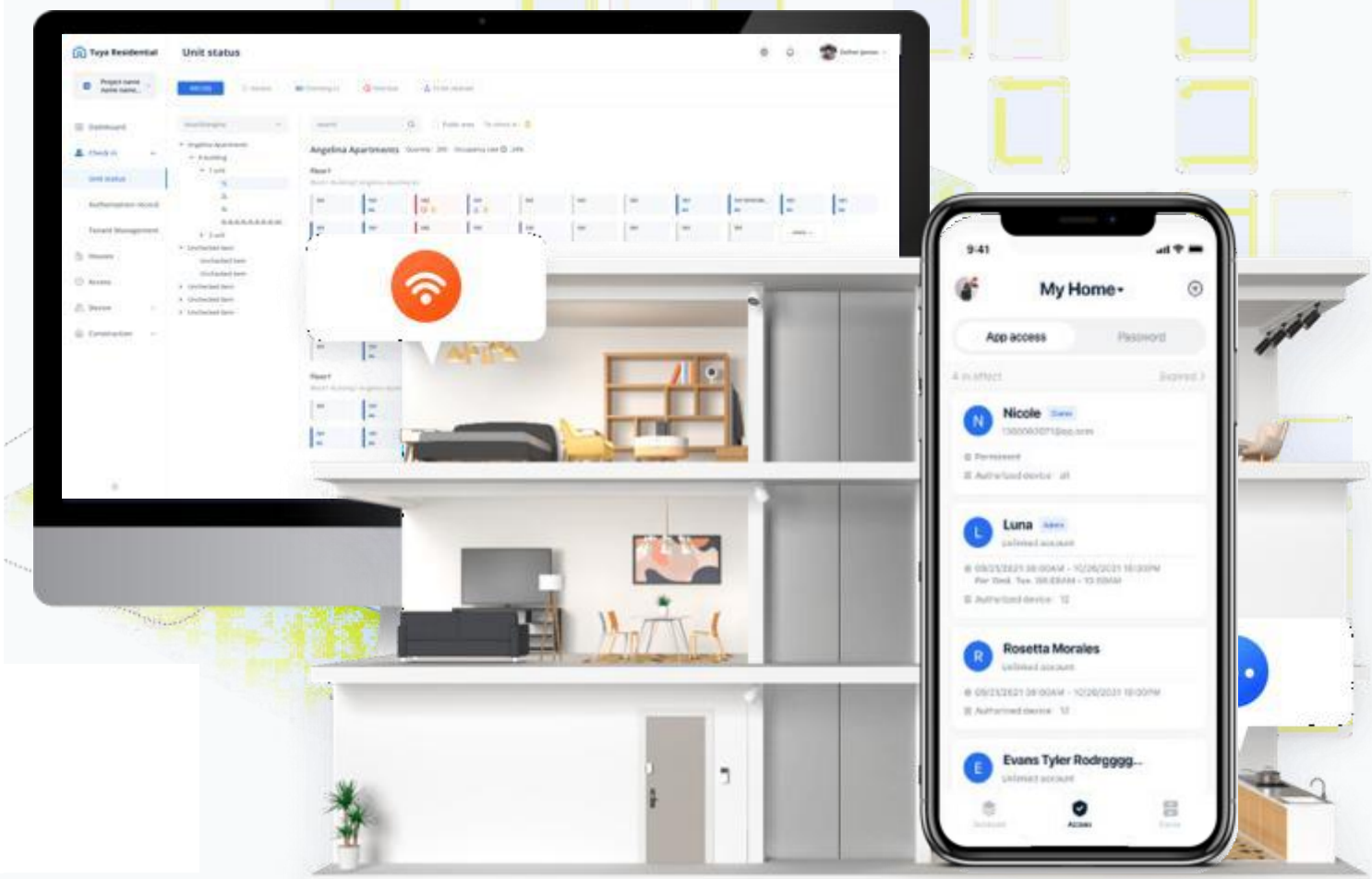


# NW TECS RESIDENTIAL Properties SaaS Solution

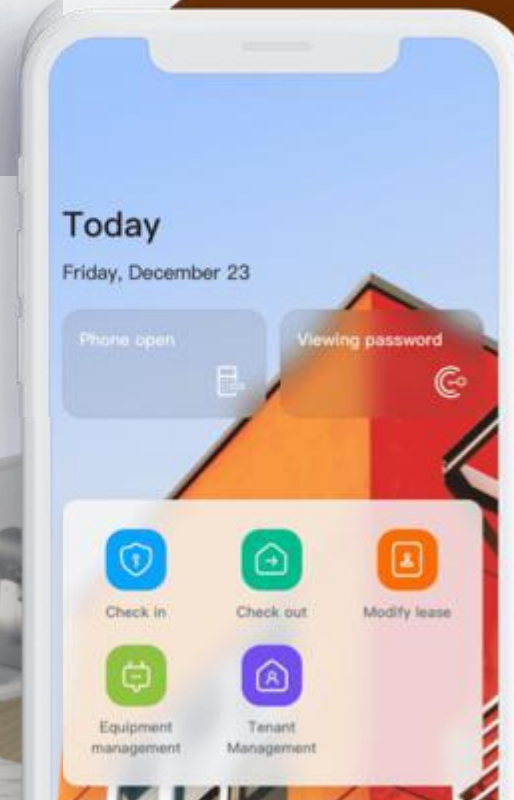


# Smart Home vs Smart Residential

Smart Home entails an **individual** home owner having the ability to install and manage smart devices in **their own home**

Smart Residential describes the ability to centrally manage smart multifamily properties, whilst still giving tenants individual control over their smart apartments

Years of experience in the field



# Why Smart Residential?

## Safety

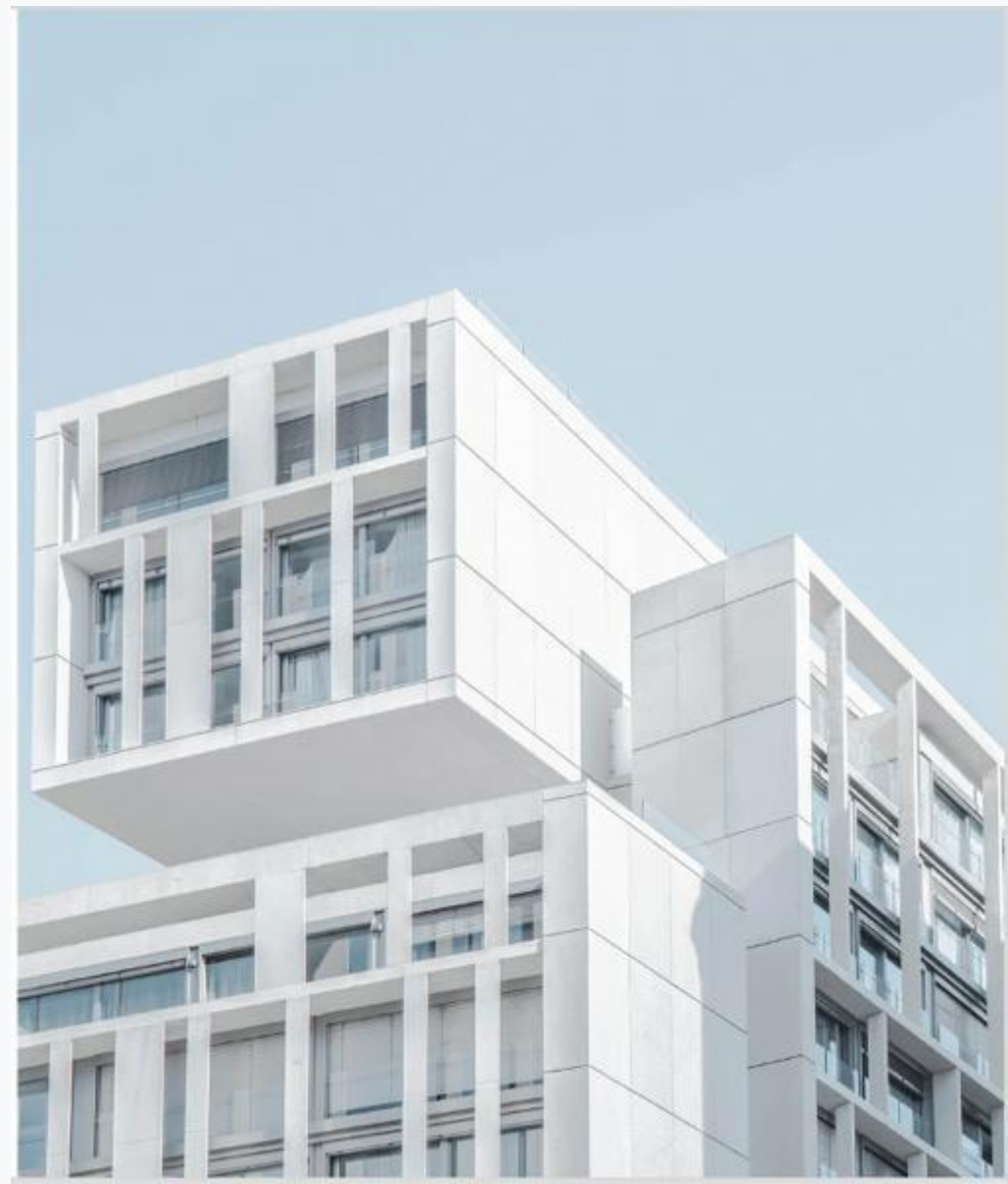
- Comprehensive **smart CCTV system**
- Smart **alarms and sensors** for floods, smoke, gas and more
- Full control of who has access to the property with **smart locks**

## Efficiency

- **Smart meter readings** for closer control over energy expenditure
- **Energy saving automation** to take human error out of the equation
- Smart devices highlighting necessary maintenance **before it's too late**

## Simplicity

- **Say 'bye to 'account fatigue'** control everything under one platform
  - **Residents control their home all from their phone**
  - **Technology enables staff to focus on client service**

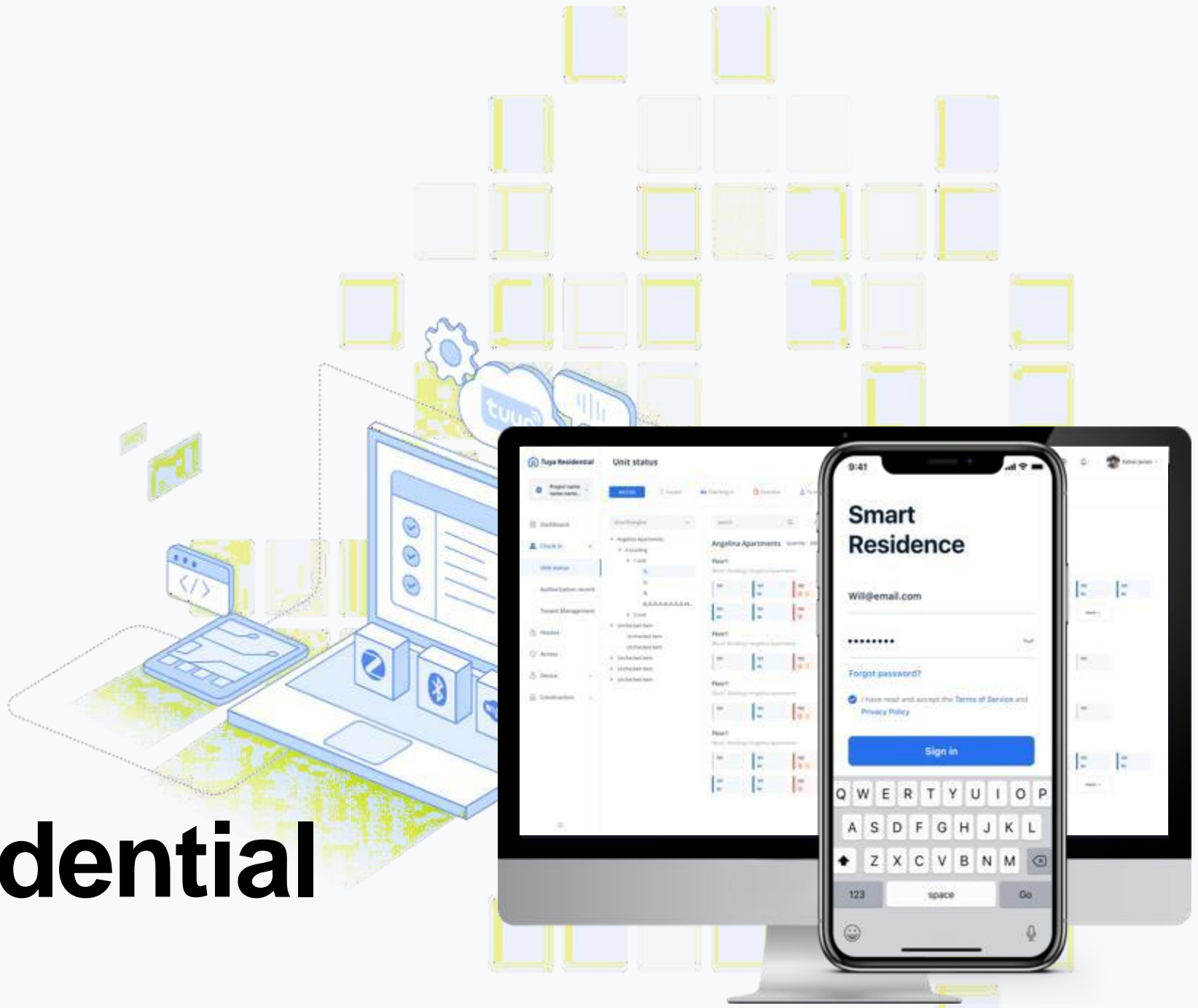


# Smart Background





# Smart Residential



# Smart Residential Intro SaaS

## Web Platform

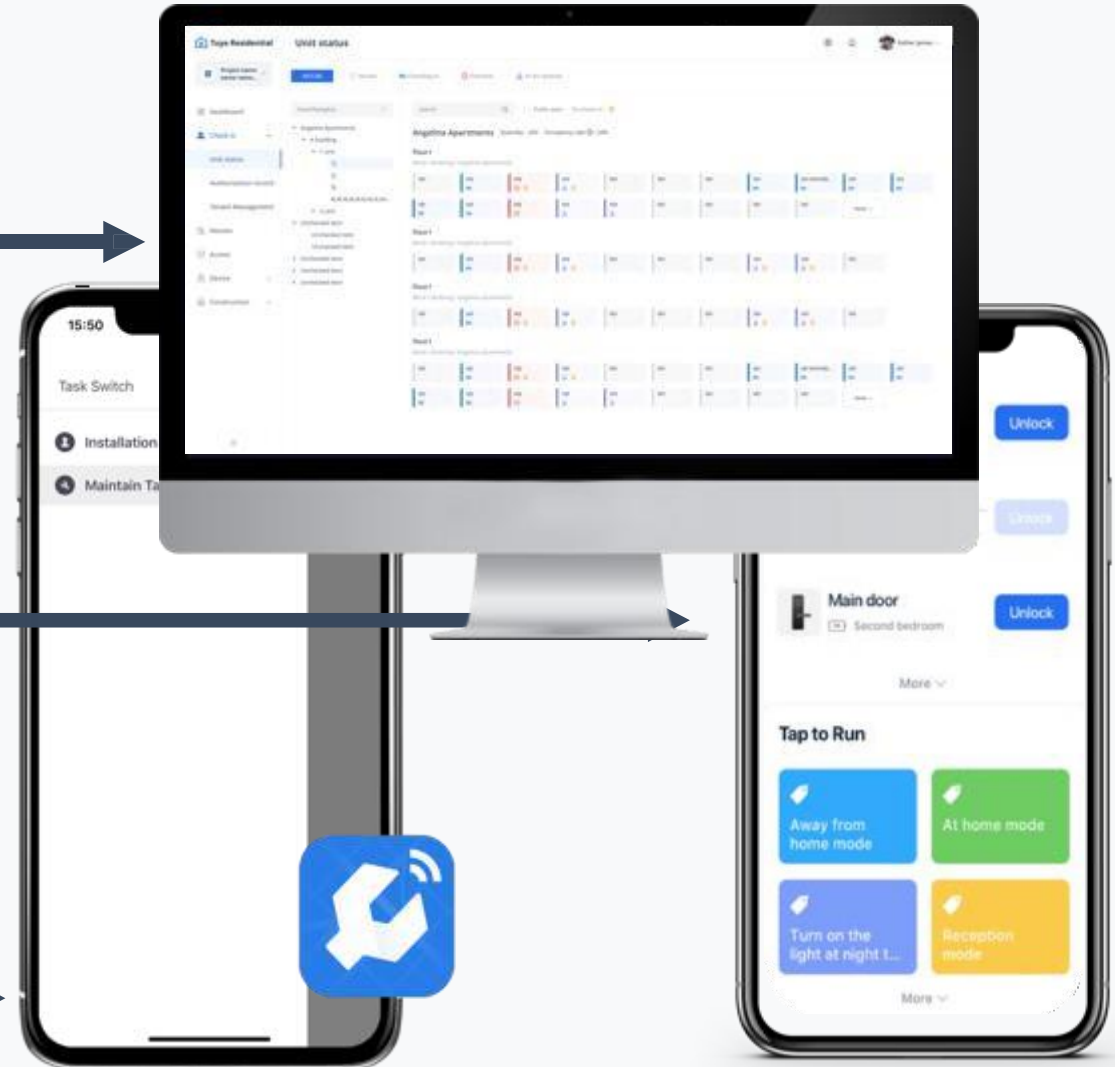
For **property managers** to centrally control all apartments, devices, and staff

## Smart Residence App

For **residents** to manage and interact with their smart apartment

## Construction App

Enables creation and completion of smart work orders for **construction and maintenance staff**



# Smart Residential Intro OEM

We go beyond the 'cost saving' value proposition — Tuya wants you deliver you the tools to make money with IoT technology

Have your own branded SaaS, App and Hardware solutions that can then be used to sell to your clients

**Build a complete smart business, with alternate revenue streams such as: hardware sale, software sale, installation, support etc.**



# Smart Residential Intro

## PaaS

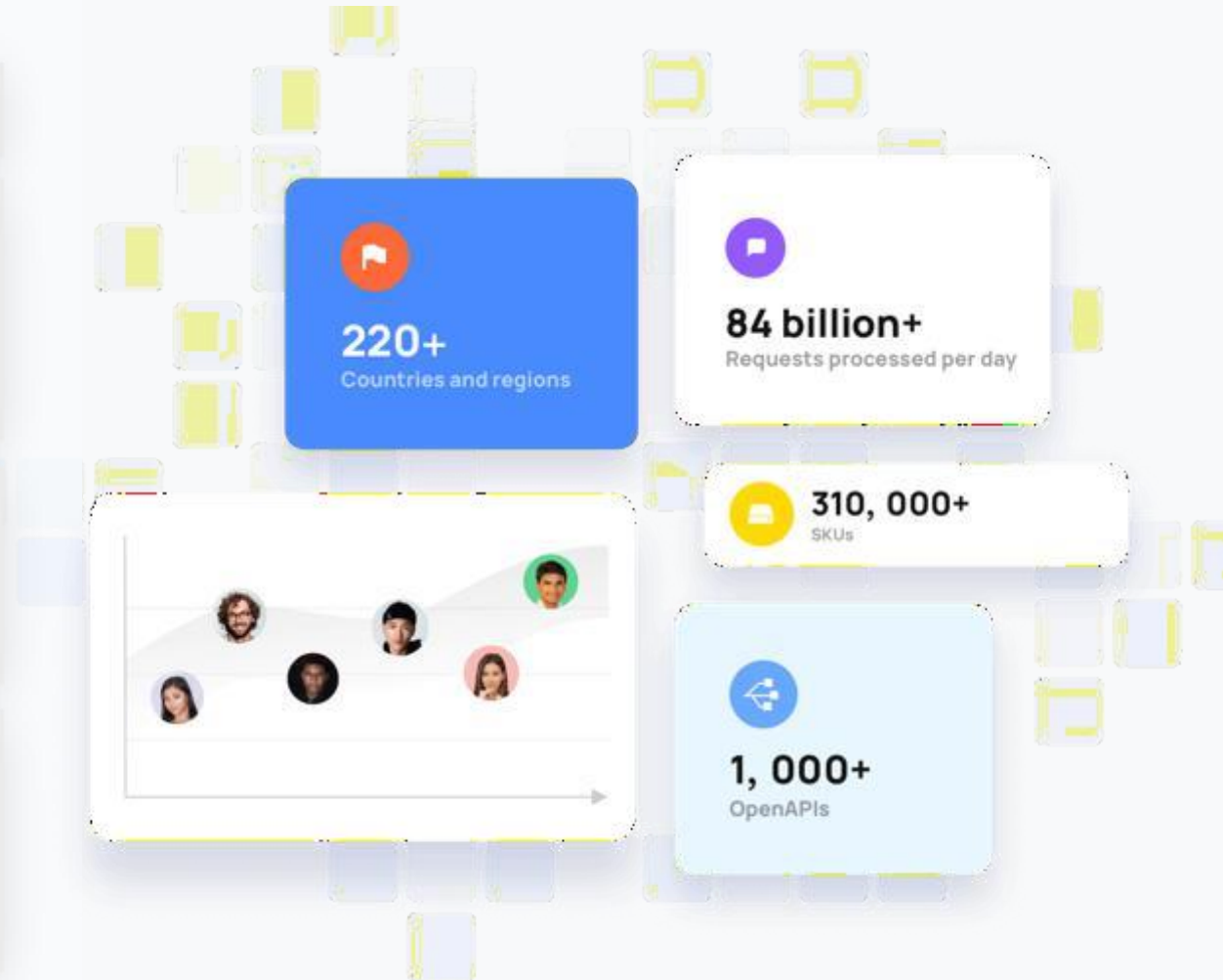
Want to build IoT into your existing software platform?

Our team of developers will *work with you* to incorporate IoT into your business, without having to open a separate software platform

*Extensive API list* to combine with hardware management and build your IoT platform

**Possibilities go beyond residential properties, PaaS can be applied in scenarios such as:**

**Schools, Offices & Retail Stores**





# Smart Residential Hardware

## Suggested Devices:

- Smart Lock
- Smart Gateway
- Smart Plug
- Smart Switch
- Smart Motion Detector
- Smart Thermostat
- Smart Meter Reader



# Smart Residential Features

## Authorization Management

Includes move-in and construction staff authorization

## Access Control

Centrally manage property access using a range of methods

## Energy Management

Collect statistics on electricity consumption and supports query for specific areas.

## Work Order Management

One-click management of construction and maintenance tasks

## Account Management

Add, modify, or delete accounts and create different account permissions

## Device Management

Displays the online/offline status of all devices.

## Units Management

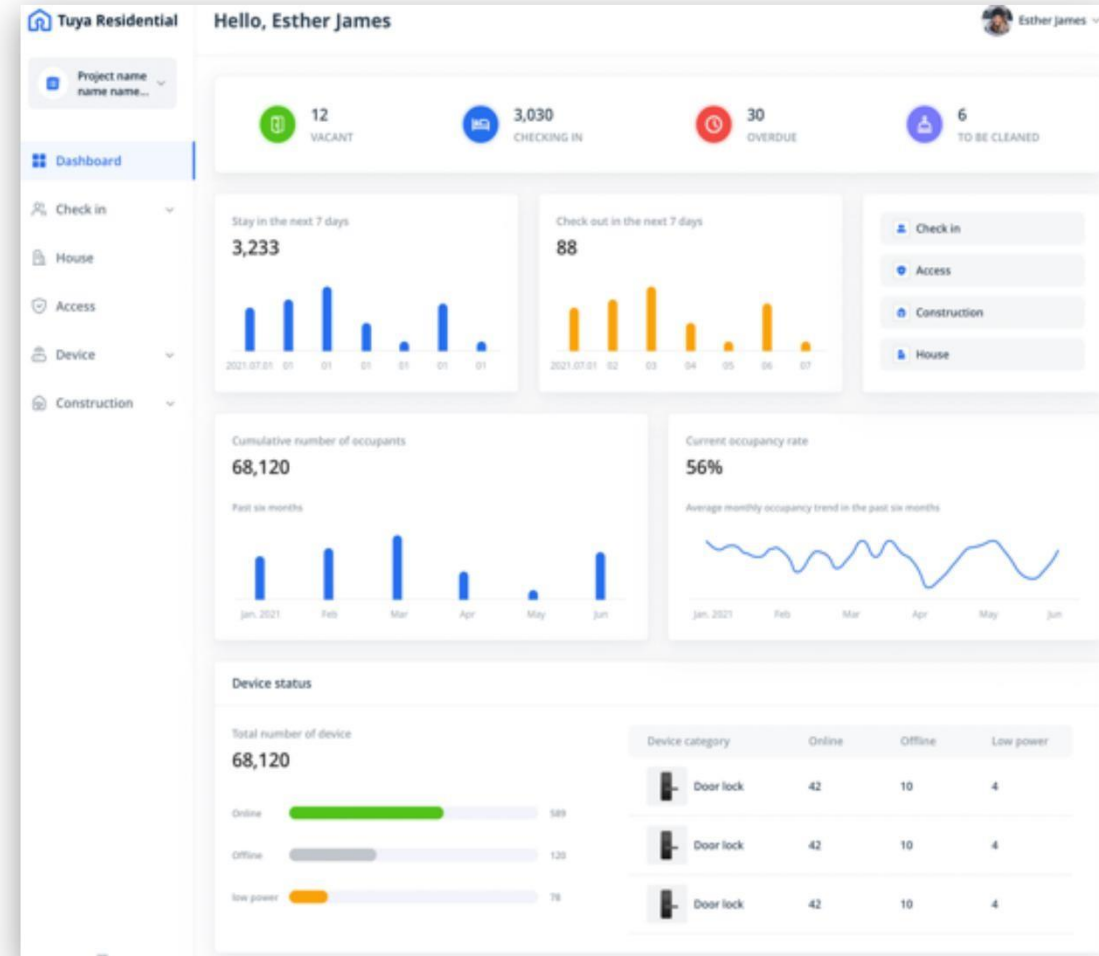
Supports management of apartments, houses and communities

## Scene Management

Supports device and smart scene configuration to allow for 'tap to run' device interactions

## Property Management

Manage multiple larger communities and their included properties





# Access Control

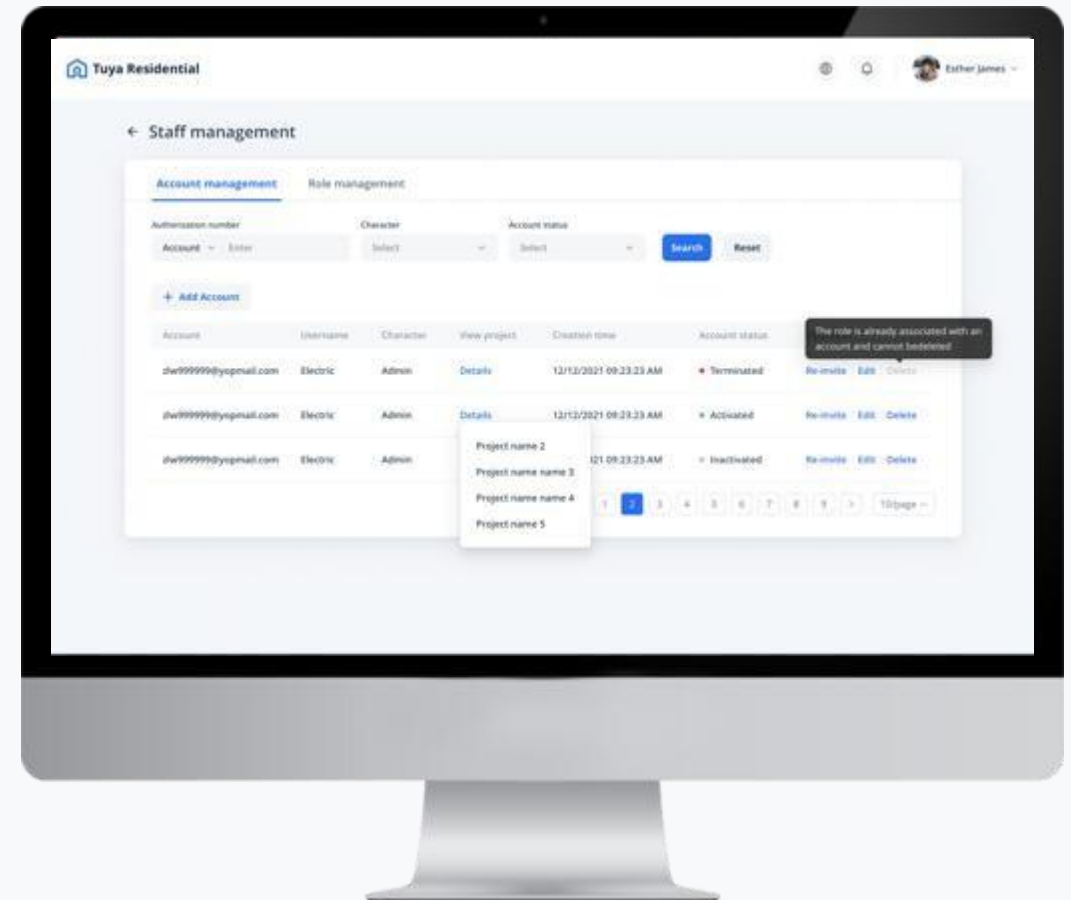
## Property Managers

Allocate different access for different staff members, giving only certain staff access to **specific areas**

Create **work orders** for maintenance staff and use temporary access codes to limit time permitted on the property

Allocate different abilities to different managers — e.g. **‘Front desk staff can grant property access codes to maintenance staff’**

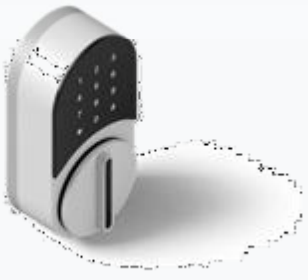
**Manage who is on the property at all times and and **swiftly change codes** in case of emergency**





# Access Control Residents

- Create accounts for trusted family members
- Temporary codes for guests and maintenance staff
- Smart locks can be opened via App, Code, Fingerprint or Face
- Notification of any opening or closing of the door



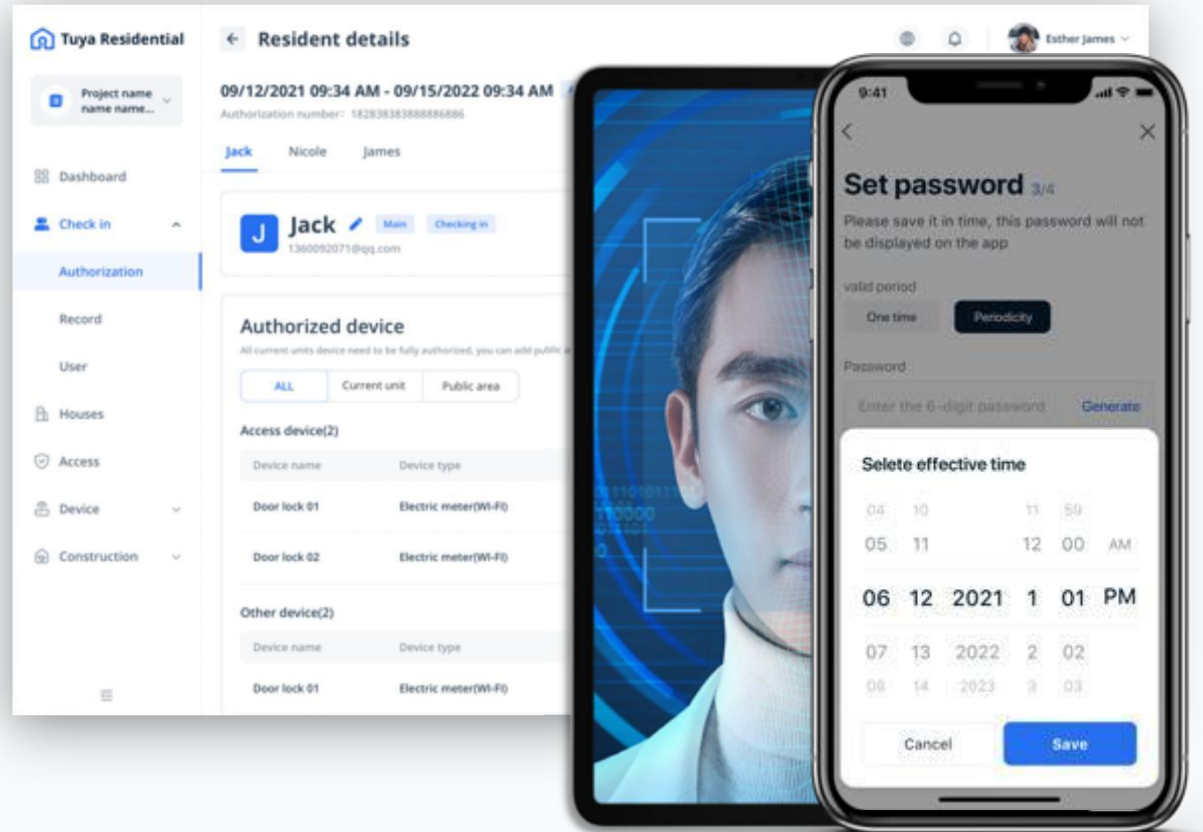
Smart  
Lock



IPC  
Camera



Smart  
Lockbox



# Access Control

## Self Guided Tours

- **Allow prospect tenants to access and view the property *without an agent present***
- **Codes can be *automatically sent via text or app***
  - **Codes set for *limited time period***
- **Sensors and security devices can be used to *ensure safety of property***



Access

All To be effective(12) In effect(5) Expires

Authorization number: User name/mailbox

Select User name Enter Starting time End Time Search

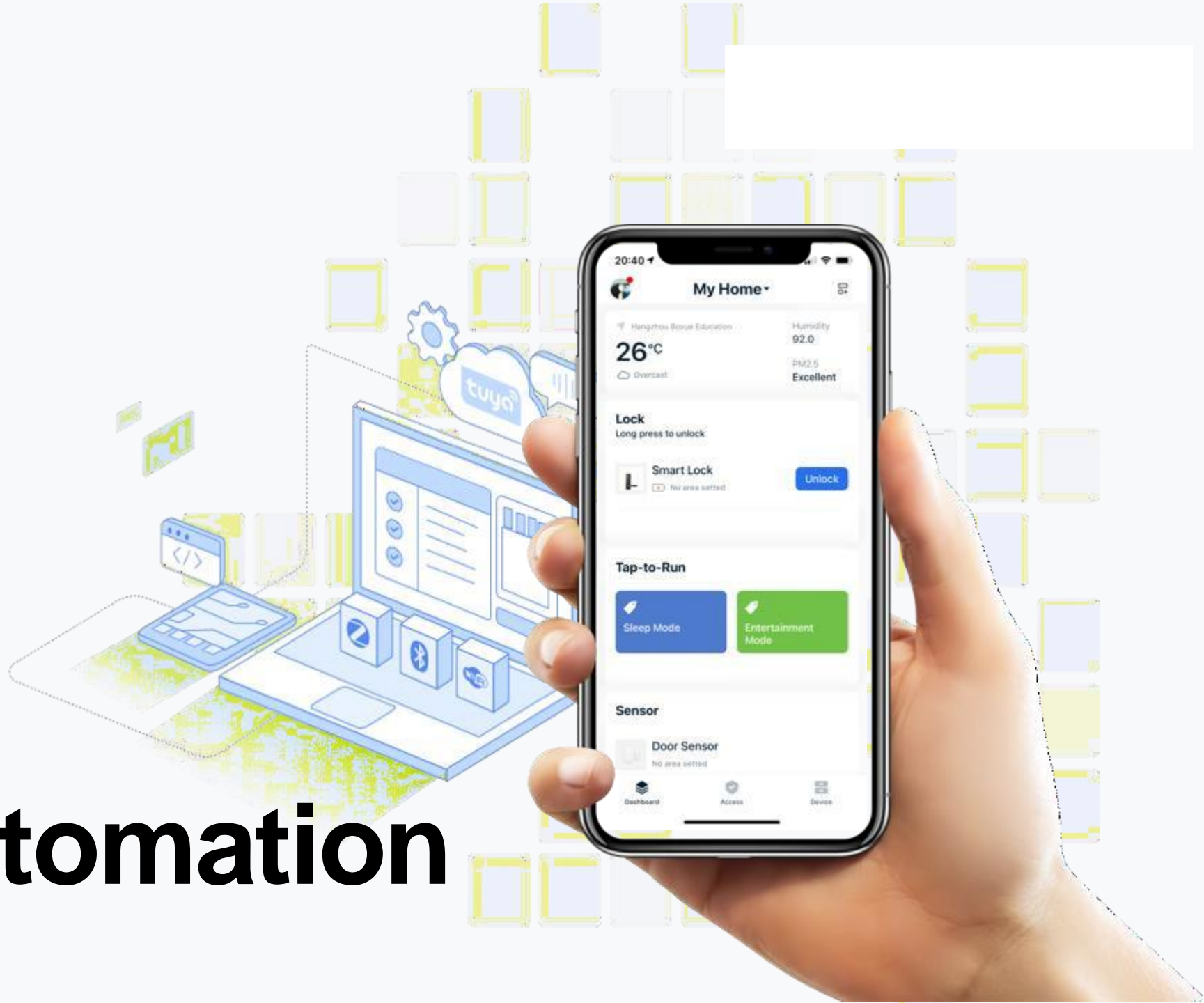
+ Add Access

Authorization number	User	Password Type	Operation
1234567890123456789	Jack 1360092071@qq.com	One time	133 Details Delete
1234567890123456789	Jack 1360092071@qq.com	One time	133 Details Delete
1234567890123456789	Jack 1360092071@qq.com	One time	
1234567890123456789	Jack 1360092071@qq.com	One time	
1234567890123456789	Jack 1360092071@qq.com	One time	
1234567890123456789	Jack 1360092071@qq.com	One time	
1234567890123456789	Jack 1360092071@qq.com	One time	
1234567890123456789	Jack 1360092071@qq.com	One time	
1234567890123456789	Jack 1360092071@qq.com	One time	
1234567890123456789	Jack 1360092071@qq.com	One time	
1234567890123456789	Jack 1360092071@qq.com	One time	

Hi John! You viewing at 86 Bayview Terrace is scheduled for this Friday 23rd July between 15:00-16:30. Your access code is 162736 and will expire at 16:30.

**Key Features**

# Home Automation



# Home Automation Scene Setting

Create smart **'scenes'** via App or SaaS which allow multiple devices to work in tune with each other, with 1 or even **0 clicks**

## Visitor Mode

Devices timed to turn on as visitors enter the home, property management staff notified on arrival

## Sleep Mode

Curtains close, lights and TV turn off, AC turns to comfortable temperature

## Welcome Home Mode

PIR + Door sensor triggers lights to turn on + curtains to open





# Home Automation

## Energy Saving

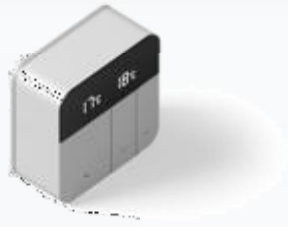
- Set **eco scenes** to turn off devices when not needed
- Room temperature can be set to **automatically adjust** according to outside temperature
- **Meter readings** can be monitored via SaaS or App
  - All devices can be turned on/off **remotely**



Smart  
Energy Meter



Smart  
Lightbulb



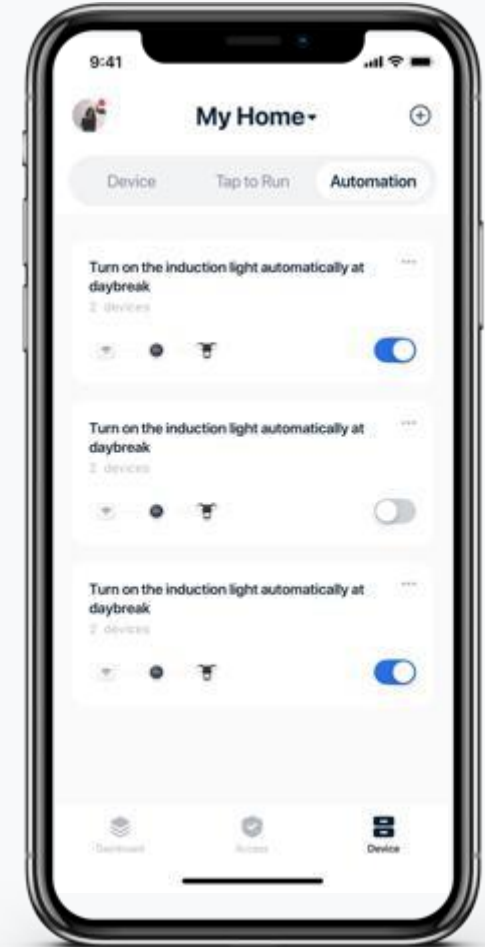
Smart  
Thermostat



Door +  
Window Sensor



PIR/Motion  
Detection Sensor



# Home Automation Security

- Devices set to **notify** tenants and staff of any potential problems
- **IP Cameras** can be monitored from both App and SaaS
- Staff and tenants can adjust their own individual **notification settings**
- If residents are 'away from home' and motion sensors are detected, **central management will be notified**



Smart  
Smoke Detector



IPC  
Camera



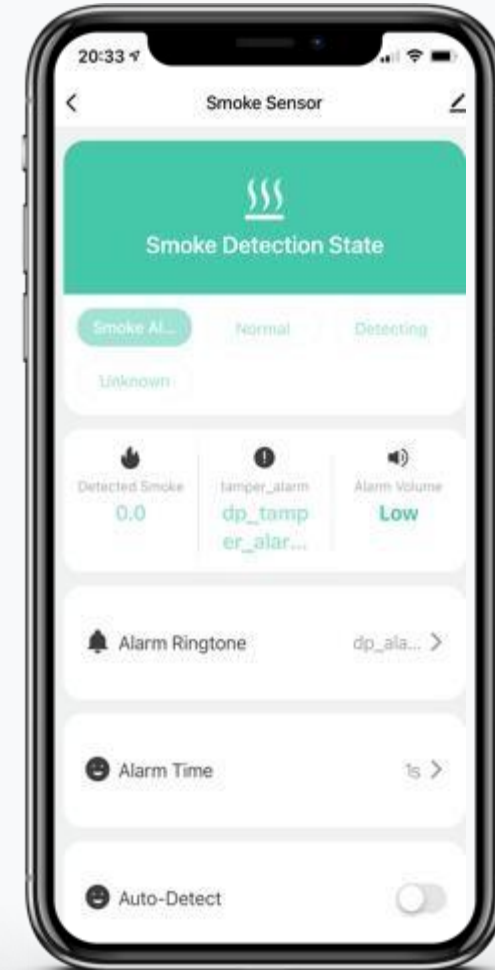
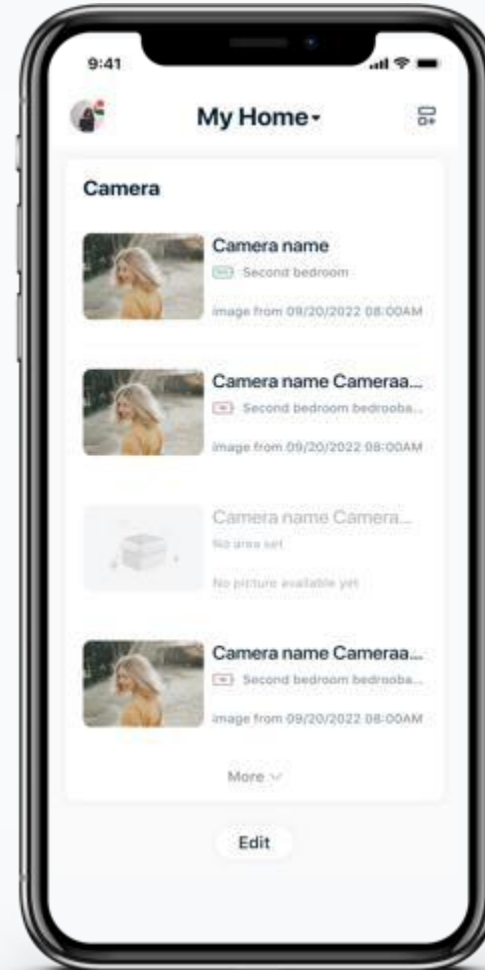
Smart  
Siren



Smart  
SOS Button

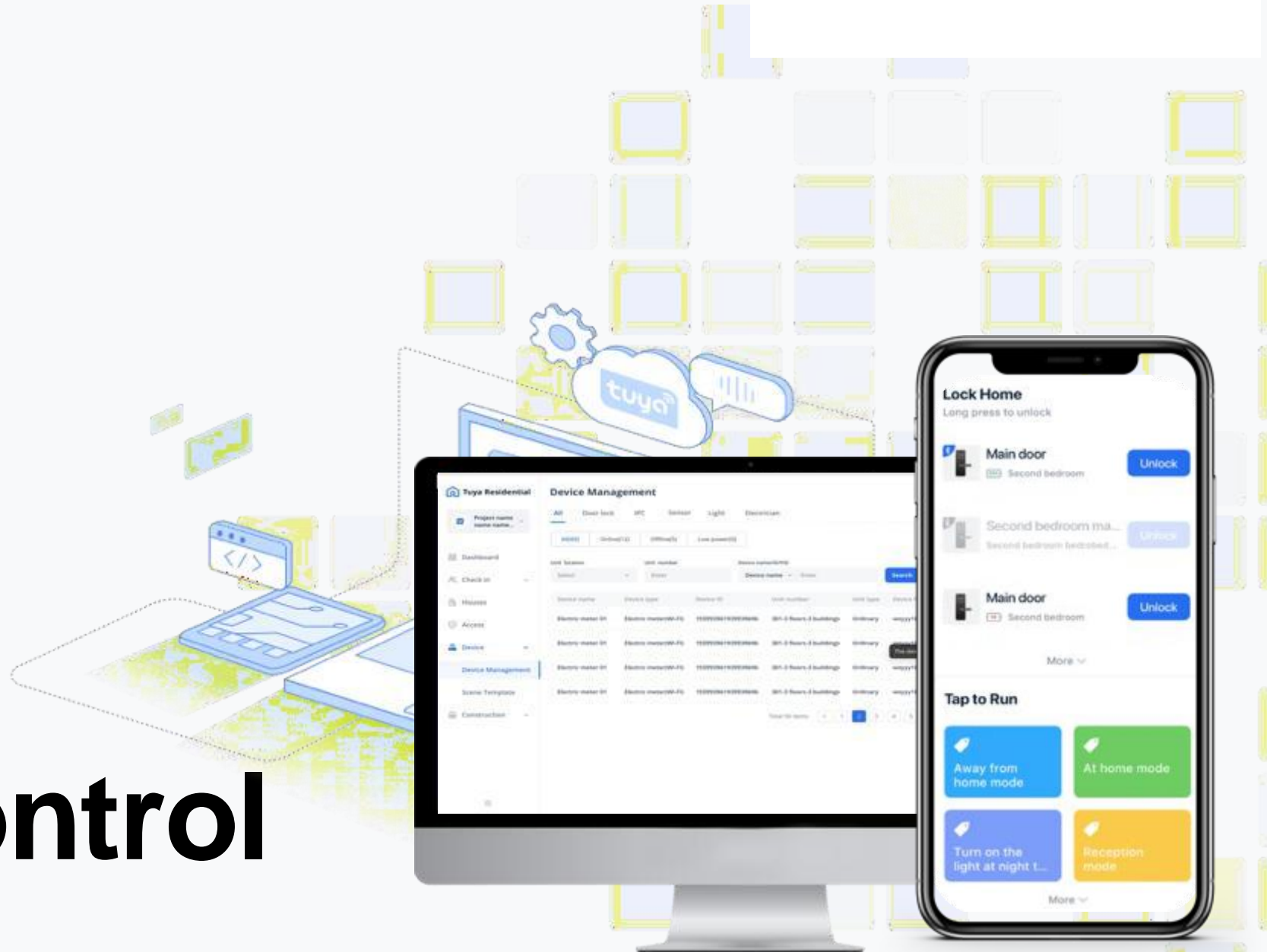


Smart  
Lockbox



**Key Features**

**Device Control**



# Device Control

## Central Management

- Using the **SaaS**, property management staff can monitor the status of all the devices in the property
- Selected devices can be controlled from the **central management SaaS**
- Can create template 'scenes' for the whole property so that residents can move into a fully automated home

The screenshot displays the Tuya Residential Device Management interface. The sidebar on the left contains navigation options: Dashboard, Check in, Houses, Access, Device, Scene Template, and Construction. The main content area is titled 'Device Management' and features a search bar with filters for 'All (60)', 'Optional label', and 'Low power(0)'. Below the search bar, there are input fields for 'Unit location', 'Unit number', and 'Device name/ID/PID'. The main content area displays a table of devices with columns for Device name, Device type, Device ID, Unit number, Unit type, and Device P. A modal dialog box is open over the table, asking 'Sure to unlock?' with 'Cancel' and 'OK' buttons. The table shows several rows of 'Electric meter 01' devices.

Device name	Device type	Device ID	Unit number	Unit type	Device P	Status	Actions
Electric meter 01	Electric meter(Wi-Fi)	193993961939939696	301-3 floors-3 buildings	Ordinary	weyyy18		
Electric meter 01	Electric meter(Wi-Fi)	193993961939939696	301-3 floors-3 buildings	Ordinary	weyyy1882	Online	Unlock Details
Electric meter 01	Electric meter(Wi-Fi)	193993961939939696	301-3 floors-3 buildings	Ordinary	weyyy1882	Online	Unlock Details
Electric meter 01	Electric meter(Wi-Fi)	193993961939939696	301-3 floors-3 buildings	Ordinary	weyyy1882	Online	Unlock Details



# Device Control

# Residents Control

Using the [App](#), residents can monitor and control all devices in their apartment

DIY enthusiasts can choose from Tuya's 310,000+ devices to [build their own](#) smart home

**Residents can [personalize](#) their home, creating their own scenes, depending on their lifestyle**

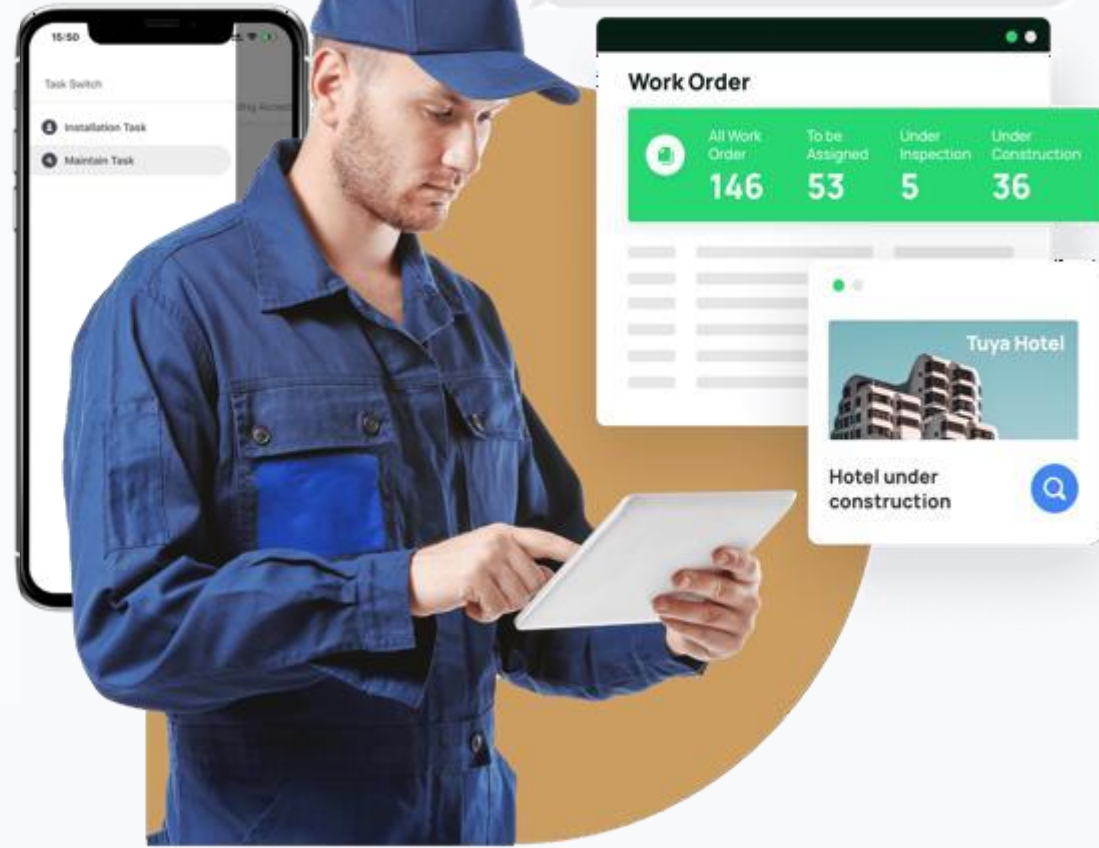


# Device Control

## Construction + Installation

- **Smart Work Orders** inform staff what needs to be installed, when and where
  - **Temporary codes** for guests and maintenance staff
- **Smart Locks** can be opened via App, Code, Fingerprint or Face
  - **Notification** of any completed tasks
- **Tenants can request maintenance** via App

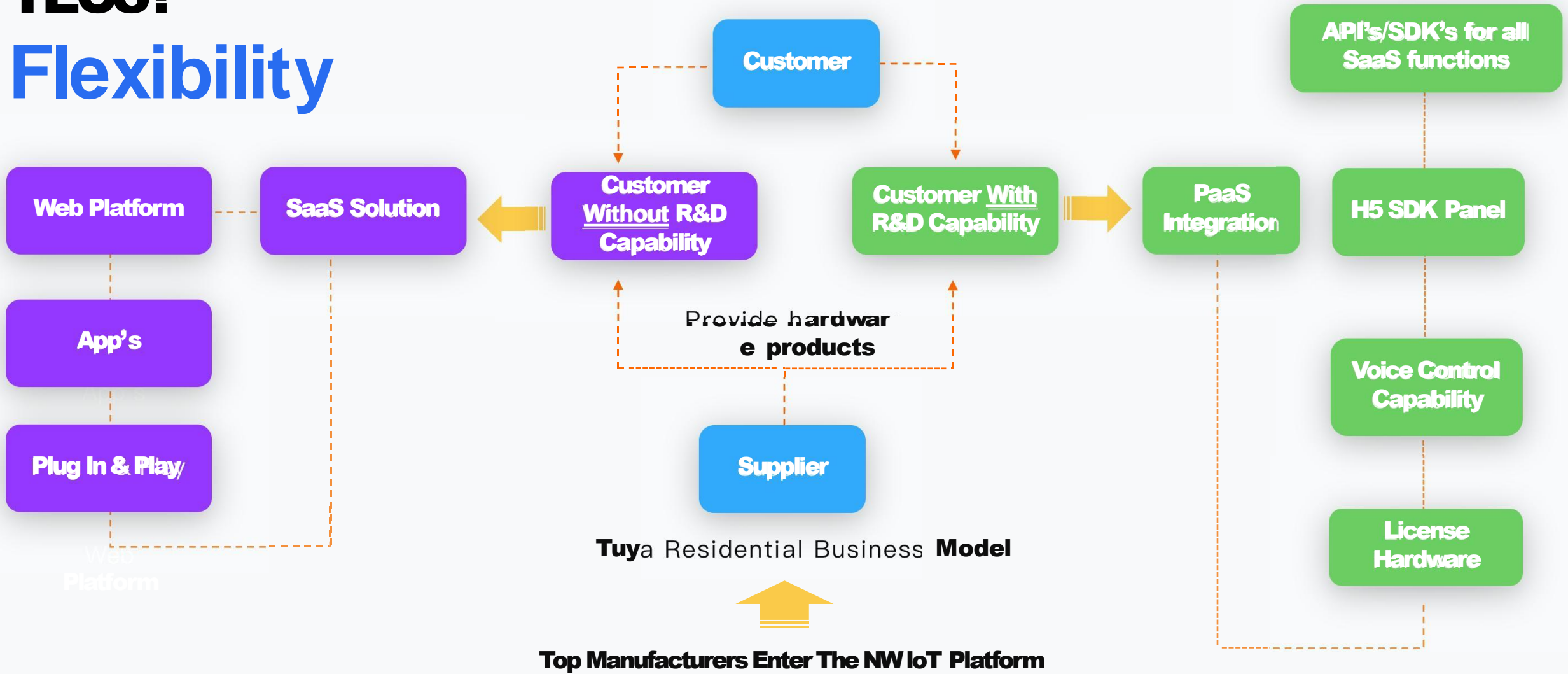
(Smart Apartment) Dear Dylan, you've been requested to come and install some devices at Smart Apartment, you have access between 07/07/2021 10:00am - 10/07/2021 10:00am. Your smart lock access code is: 134642.



**Why NW TECS?**

**Our Difference**

# Why NW TECS? Flexibility



# Why NW?

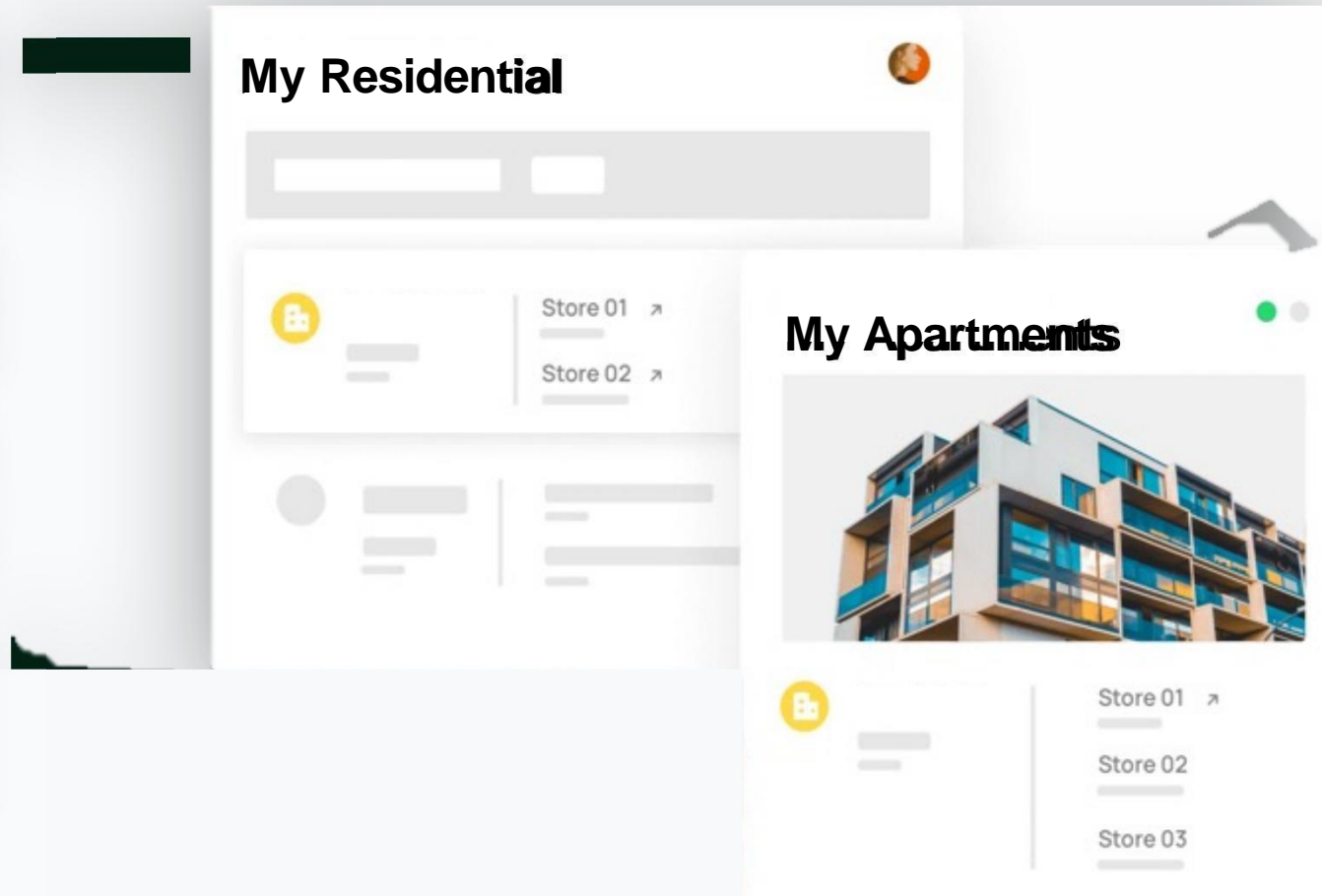
## Tailored SaaS Solution

SaaS + Residential App can be **branded to match**  
**your company**

Build your own smart residential **brand**

Sell your 'smart solution' as a new business line

**Hardware** can also be **OEM manufactured upon**  
**request**





# Why NW?

## VAS

Tuya [Value Added Services](#) gives you total flexibility to effortlessly expand your smart residential platform

Use 'App Mall' to build your own [product range](#), allowing you to [sell](#) additional smart products to your tenants via your app

**Use 'App Mall' to build your own product range, allowing you to sell additional smart products to your tenants via your app**

The screenshot displays the Tuya VAS interface with a navigation bar at the top containing the following categories: App Service (highlighted in orange), Smart Voice, Certification, Smart Operation, Functional Expansion, IP Camera Service, Marketing, and Customization. Below the navigation bar are nine service cards:

- App Mall (International)**: The App Mall service integrates powerful mall functions into your app and allows you to customize...[More](#)
- Door Lock SMS Notification**: Tuya provides temporary password setting and short messaging service (SMS) for smart door locks...[More](#)
- Cloud Recipe**: Provide recipe management for you and provide consumers with cooking services by recipe...[More](#)
- Tuya Smart Selection Workbench**: Provide you with a pre-sales service platform for design, display, and construction scenarios to...[More](#)
- Smart Home VR Experience Software**: The Smart Home VR Experience software is an advanced, flexible, and cost-effective marketing too...[More](#)
- Amazon Alexa Access**: Tuya provides to connect your product with Amazon Alexa which enables to control products by Goo...[More](#)

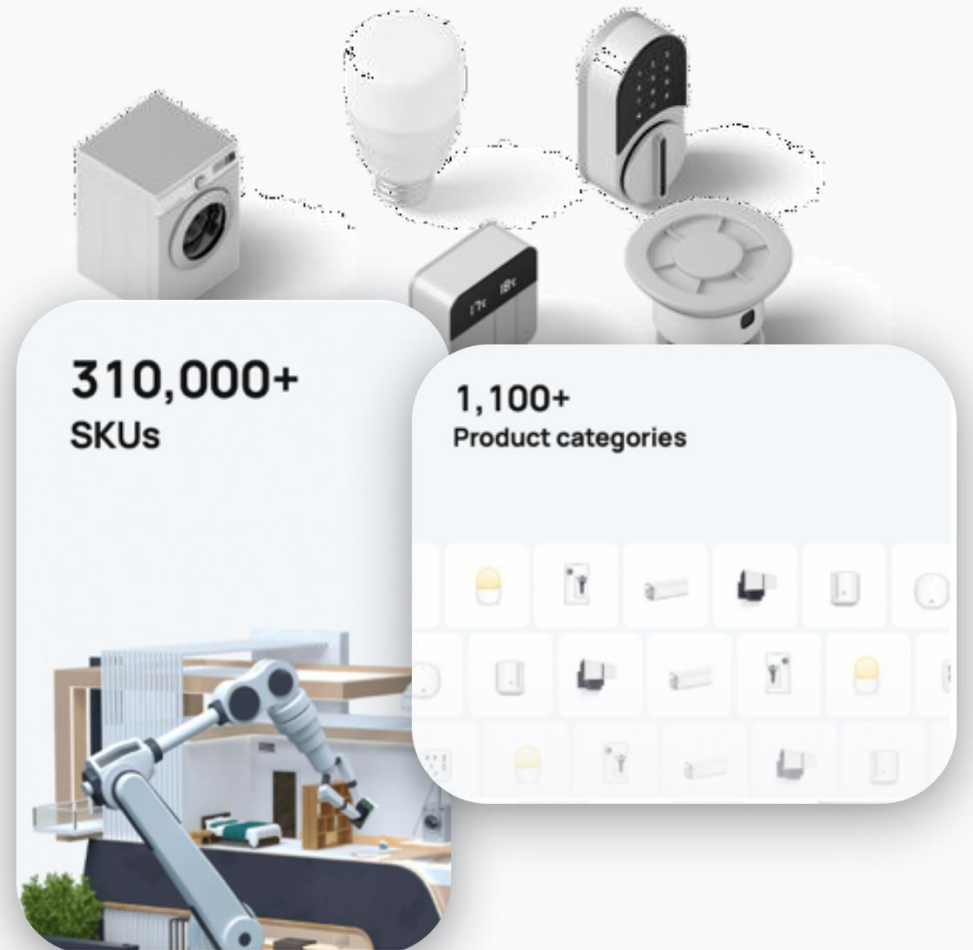
# Why NW?

## Product Choice

Pre configure Scenes.

After moving in, residents can select from NW's range of supported hardware to **personalize** their own smart home

Build your smart residential property based on standard hardware that supports **core functionalities**



# Why NW?

## NW Cloud

As of January 2021, NW uses infrastructure base on six data centers in USA, Europe, India, China and a node in Russia.

NW Cloud secures infrastructure management and operations as well as physical devices by selecting and working closely with the world's leading cloud hosting providers such as [Amazon Web Services](#), [Microsoft Azure](#), and [Alibaba Cloud](#).



# Why NW? Security



  
California  
Consumer  
Protection Act

  
General Data  
Protection  
Regulation



# Why NW?

## Growing Functionality

We're constantly expanding our platform's ability to better encompass the full management of smarter residential spaces.

### Upcoming Features Include

Smart Parking systems

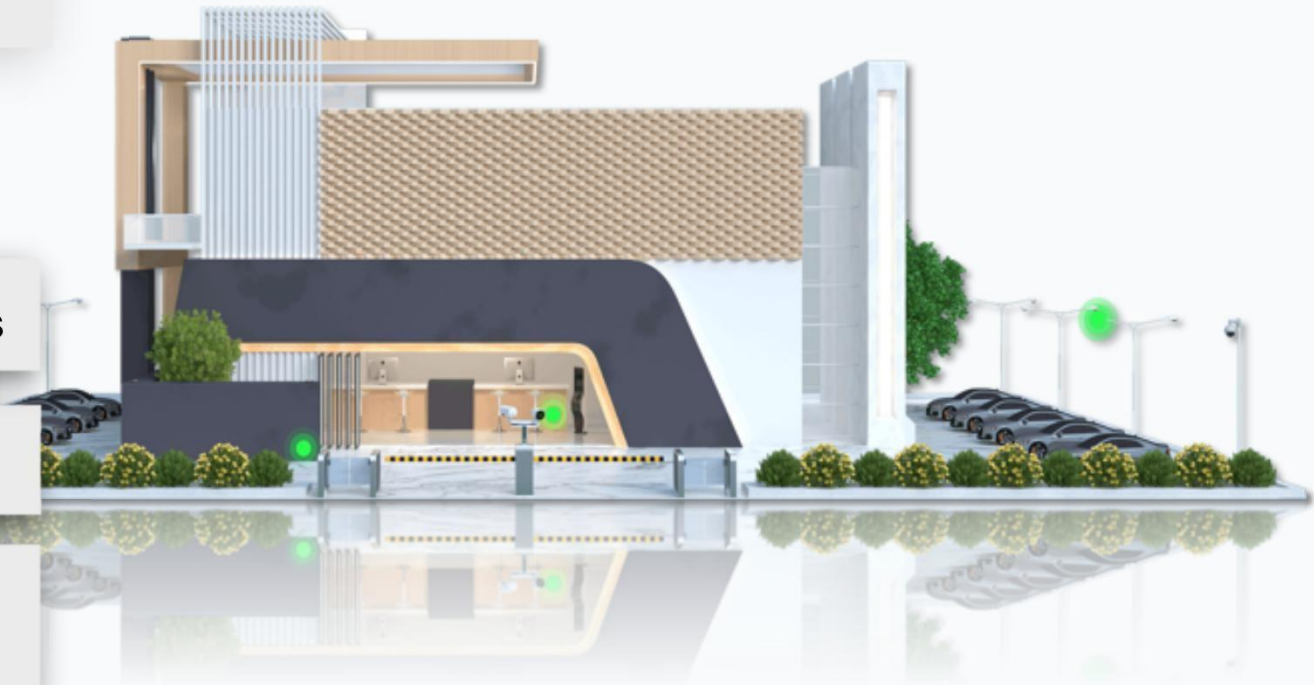
Facial Recognition Access

Voice Control Integrations

Smart Elevator Control

Continuous PMS  
Integrations

Utilities Monitoring +  
Payment





**Thank You!**

