



# Passy

Products and solutions

## About us



Passy is a young innovative dynamic company with many years of experience and successes into the field of IT, SW development on Cloud Platform and new technologies.



Passy fits into IoT markets with services, products and innovative solutions and with a team of ICT experts from different market sectors and from large multinational companies, his mission is to lead high degree of technological innovation, with focus in performance, scalability, reliability of services and solutions delivered.



With strategic partnerships and solid relationships with Customers and Suppliers, Passy is a reality that also operates internationally.



## Passy Smart Building Offer

Passy provides customizable solutions for Access Control and Office Space Optimization, solutions that can offer up to 30% saving on current operational costs, while at the same time offering a great impact on the wellness of employees.

The modern workplace is evolving and the days of cubicles and private closed-door offices have been replaced by a variety of different office setups. Flexibility is a key concept within office management and modern businesses have to cater to a much more dynamic and connected work environment than earlier.

Today's workplace needs to be agile and smart some of the cornerstones of agile and smart working is hot-desking, smart room booking, indoor navigation, and utilization analysis. The smart office concept requires software tools that make it easy to find, book and navigate to available meeting rooms and desks. The smart office space with the correct software tools will also help enterprises understand utilization rates and free up meeting rooms and desks that are not being used.

Resource scheduling applications allow organizations to support large and mobile workforces with a smaller real-estate footprint without sacrificing employee productivity. Our solutions simplify the process of finding an available space, determining which amenities are provided, booking the space and providing other services.

Furthermore, an intelligent and connected approach to smart building allow employees and visitors to access many services like parking, vending, catering, etc., from a single software solution with great benefits in term of usability and user experience.



# Passy Platform

Our Passy Smart Building Solution is based on the Passy Platform, a middle-ware platform that includes various services, amongst which:

1. Digital Identity – User’s identity virtualization through any Smartphone, Wearable as a Smartwatch, Token or Badge
2. Policies/Permissions – tenant resources description that grants permissions for services usage and command physical actions in buildings, like doors, turnstiles or gates opening, depending on the user’s characteristics and access level.
3. Building model – a Building is composed by different areas at different levels, and any of those areas can have different kind of spaces: Meeting

Rooms, Focus Rooms, Conference Rooms, Events Rooms, Open Spaces, Kitchenettes, etc.

4. An IoT Field Gateway – a specialized, compact and low power consumption device designed to connect any mobile device with the logic on Cloud or On-prem and, at the same time, to execute local actions (opening doors, turning on or off any appliance, connect to vending machines, etc.)
5. Portal Data/Management – to manage data and the platform
6. Mobile SDK/UI – a consistent user interface for easy interaction and control of the system
7. Passy is a Microsoft Azure cloud-based solution. A Hybrid-cloud deployment is also possible.

Passy Platform integrates with:

- mobile device (iOS, Android, Windows) taking full advantage of the capabilities and functionality of the device (i.e. BLE, NFC, iBeacon)
- presence sensors and proximity technology to do check-in/out, maximizes workplace efficiency and to control surrounding environment
- Exchange/Microsoft 365 and Azure IoT components from Microsoft
- Internet of Things (IoT) capabilities

Passy Smart Building Solution works in this way every time a user requests interaction with a resource:

1. First of all, it identifies the user
2. Identify position of resource in the building model
3. Check policies/permissions for the requested interaction (action) for that resource for that user
4. If the user has the permission to perform the requested interaction with the resource an authorization will be granted and the necessary actions are performed – for example the turnstile will open, the door lock will unlock, the meeting room will be checked-in, the parking lot will be checked-out, etc.



## Passy Smart Modules

Passy Smart Building Solution allows organizations to easily and comprehensively manage access to their facilities and utilization of shared resources like desks or meeting rooms. The solution allows customers to use smartphones as virtual badges to access buildings and services. Passy is flexible and offers a high level of granularity for authorization criteria, as well as real-time verification.

Accessing a room or checking in to a desktop can trigger actions like turning on lights or adjusting temperature. Integration with Microsoft 365 and presence sensors or other proximity technology, in combination with the mobile app, enables management of the entire meeting cycle: scheduling, checking in, monitoring room occupancy, and freeing the room when the meeting is finished.

Passy offers a virtual reception desk, providing the ability to easily schedule meetings, manage rooms, and more. The solution is controlled by a secure, cloud-based portal, allowing organizations to remotely maximize workplace efficiency and resource allocation.

In order to create the perfect Smart Building Solution for our customers at Passy we have developed the following modules that we can offer as needed:

**Smart Access:** bridge virtual identity to physical actions in your buildings and in any service

**Smart Lobby:** Registration and Welcome Management

**Smart Booking:** parking, rooms, desks and resources booking

**Smart Spaces:** rooms, desks, occupancy control and optimization

**Smart Wellness:** security/safety procedures

In addition an horizontal module called Resources Management & Optimization provides Dashboards, Reporting and Resources Management and Policy definition.





## Smart Access

Smart Access is the Passy solution used to virtualize user identity, grant permissions for services usage, and execute physical actions in your buildings.

Typical actions include access to parking, access to facility, room booking/check-in/check-out by proximity, shared desk check-in/check-out, get authorized to control meeting room ambient, and in general any authenticated and controlled access to any service inside the building.

The goal is to simplify identity management, access management, badge management, policy management and provide innovative user experience to employees and visitors.

This solution also provides **Dynamic Context Driven Access**: the possibility to implement additional policies that allow access only if other conditions are satisfied. For example, allow visitor to access the building only if the person who invited them has already arrived.

Advanced Access Control: Virtual/Temporary Barriers: allows the creation of Virtual/Temporary Barriers, areas that are not closed by any kind of gates but that may temporarily be restricted

Advanced Access Control: Predictive Positioning: using a number of different sources of information our solution is able to predict where a certain person will be at a certain moment

### **This module provides:**

1. End-to-end resource and visitor access management.
2. Automated registration and check in for employees.
3. Grant access to buildings, restricted areas, or any space.
4. Simplify access and virtualize badges management.
5. Integrate with any existing security solution and policy.
6. Dashboard for alarm, alerting, and diagnostic functions.

## Smart Lobby

Smart Lobby is the Passy solution that allows, through totems and kiosks to welcome and register guests and visitors and virtualize services generally provided by receptionists.

Visitors and guests are informed in real time about the services of the facility and will know events, consult programs, etc. The goal is to fill or integrate the reception activities, giving the ability to search information of interest, perform typical actions such as registration, check-in, call people, etc.

This module also provides the possibility to implement stronger security policies that might require anyone entering to go to a kiosk to be recognized through face recognition before they are allowed to enter.

Passy Smart Lobby Services have a key role in the user experience in the building.

### **This module provides:**

1. Automated registration and check in for visitors.
2. Print badge if required, or allow use of personal smartphone as a digital identity.
3. Grant access to buildings, restricted areas, or any space.
4. Simplify access and virtualize badges management.
5. Integrate with any existing security solution and policy.
6. Automate removal of visitors from entrance queues.
7. Dashboard for alarm, alerting, and diagnostic functions.





## Smart Booking

Smart Booking solution allows to select the best space for your work activities and allocate them to simplify and accelerate kick-off time when used

Find the best space based on usage attributes, user preferences, user requirements, and maps with static and real time information (i.e. temperature).

Different kinds of “spaces” can be defined: parking lots, meeting rooms, shared desks, focus rooms, etc. each one with its own security, safety and occupancy parameters and rules.

The Passy solution assumes a Building is composed by different areas at different levels, and any of those areas can have different kind of spaces: Meeting Rooms, Focus Rooms, Conference Rooms, Events Rooms, Open Spaces, Kitchenettes, etc.

Booking can be done from the App, from the management website or directly from Outlook.

### **This module provides:**

1. Simplifying the booking process for any resource.
2. Allowing to select preferred desk, check-in and check-out at desk.
3. Booking and checking in and out of meeting rooms with a wave of your badge or smartphone.
4. Opening the meeting room and configuring the room temperature, lights and AV equipment to the user preferred settings.
5. Integrating with presence sensor and proximity technology.
6. Managing in-room presence information with existing security presence sensors.
7. Delivering cost savings – integrate with existing wireless systems to automate lights and temperature controls to help eliminate energy waste.
8. Managing the room by monitoring it from anywhere.

## Smart Spaces

The Smart Spaces solution allows to maximize workplace efficiency and resources productivity, using real time information to choose the place to work based on employee's needs.

Big Data analytics on occupancy allows enterprise to gain insights on spaces usage by employees and visitors to model their own modern workplace strategies.

Combining Smart Booking, Check-in/Check-out (room, desk, etc.) and people counting and presence, automatically optimizes spaces usage preserving user preferences and maximizing productivity at the same time.

### **This module provides:**

1. IoT remote control of doors, turnstiles, gates, lights, and more.
2. Remote control data is collected on Azure with IoT protocols so it can be analyzed later.
3. Presence and occupancy information is tracked for optimal use of rooms and other spaces. Gain insights on usage – understand when rooms or other services are most in demand and for how long.
4. IoT gateway handles communication with Azure Cloud services and other devices.





## Smart Wellness

Smart Wellness helps enable a safe and healthy workplace, guaranteeing the implementation of workforce protection procedures

This module allow the implementation of safety procedures to protect the workforce (as for example those related to COVID-19) and conform to current safety prescriptions. Typical actions supported include guaranteeing Distancing, Counting people present in each area, Interfacing safety/security sensors, Managing Wellness Related Actions

The entire process can be fully customized to the customer's needs.

Our solution will use its advanced features to help enforce control over the simultaneous presence of people in a limited area, like those required to fight COVID-19:

- Temporary/Logical Barriers.
- Certain areas can be closed off to general public once a certain amount of people are present or for special reasons.
- Predictive positioning.
- Predictive positioning can help in guaranteeing maintaining social distancing and preventing too many people from being in the same location.

## Resources Management & Optimization

Resources Management & Optimization allows you to be always aware of your resources utilization, implement policies and change them if needed, control issues.

This module provides a Dashboard, a Remote Control, as well as Policy and Data Management, along with a number of reports and maps. It is possible to show a Real-time or historical Space Usage on a Report or on a Map and show evidences about normal and alert situations.

The module answers queries like:

- how your resources are being used
- report and control possible policy violations
- define and modify policies for use of all resources

### **This module provides:**

1. Remote control data collected on Azure with IoT protocols so it can be analyzed later.
2. Dashboards that provide real time data.
3. Presence and occupancy information is tracked.
4. IoT gateway status is monitored.



## Passy Softwares

At Passy we have developed softwares that allows the user to interact with the building and its resources. The software has been developed in different versions depending on where it will run and its intended use:

- The Passy Website is a web based portal where users, depending of their roles, can manage reservations, user profiles and building configuration.
- The Smart Key App is a personal tool that allows the user to access to the smart building through speed gates or doors, to book rooms, hot desks, car parkings and any other building resource. The app can substitute a badge and supports both WiFi, Bluetooth and NFC technologies. It runs on IOS as well as on Android and can be downloaded for free from the respective stores.
- The Smart Lobby Kiosk is designed for use by guests or registered personnel and offers a welcome service complete with an appointment agenda, building plan, notifications to organizers, and other functions that make the guest visit more pleasant.

We have developed our own versions of these applications but have also developed specific versions for some of our clients. We have also had some clients that have used our APIs to easily build their own version of the APP.

We are continuously updating our software to make it even easier to use, to add new reports or enable access to new resources, or to support the new functionalities that we are constantly adding to our platform.

We are developing versions of our software for wearable devices to make the interaction with the smart building even more natural.





## Passy Website

The Passy Website is the portal where users, depending of their roles, can manage reservations, user profiles and building configuration. It is organized into different visual areas where similar features are grouped together.

### Home

The home page is the main portal of the Passy Website, showing the status of all the accesses and devices the user is allowed to and displaying notifications about new access.

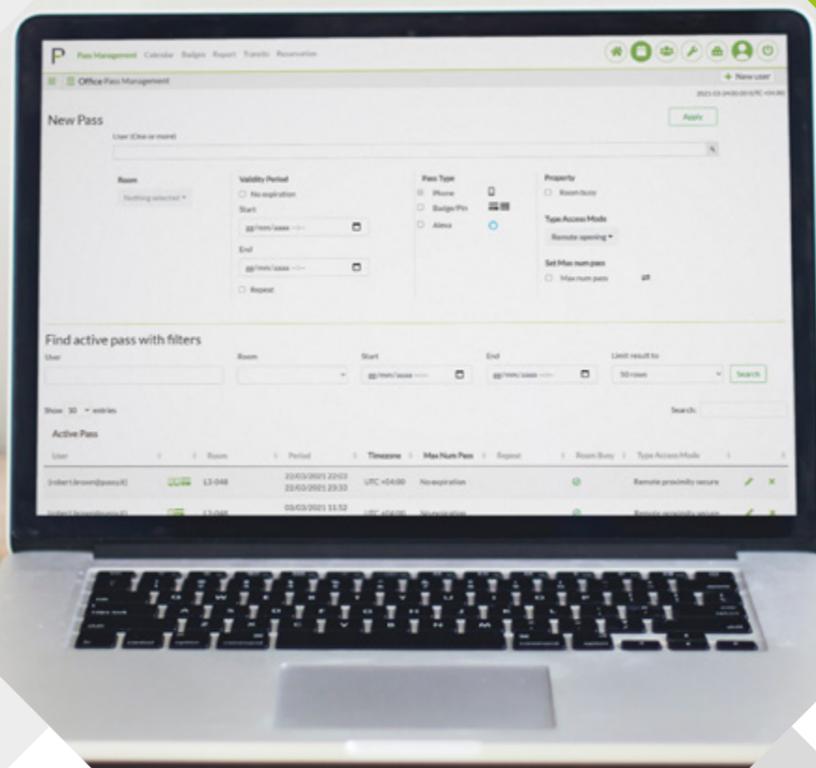
### Pass management

In the pass management users can manage permissions, book a resource and use different report tools. It allows also to assign badges or pin codes or list the transits in the building.

### User profiling

All users can customize their profile, like uploading a picture for the Smart Lobby Kiosk identity verification and other options, organizers can manage meetings and reservations and administrators can configure users permissions and building setup.

The user profile picture is required to log into the Smart Lobby Kiosks.



## Passy Smart Key App

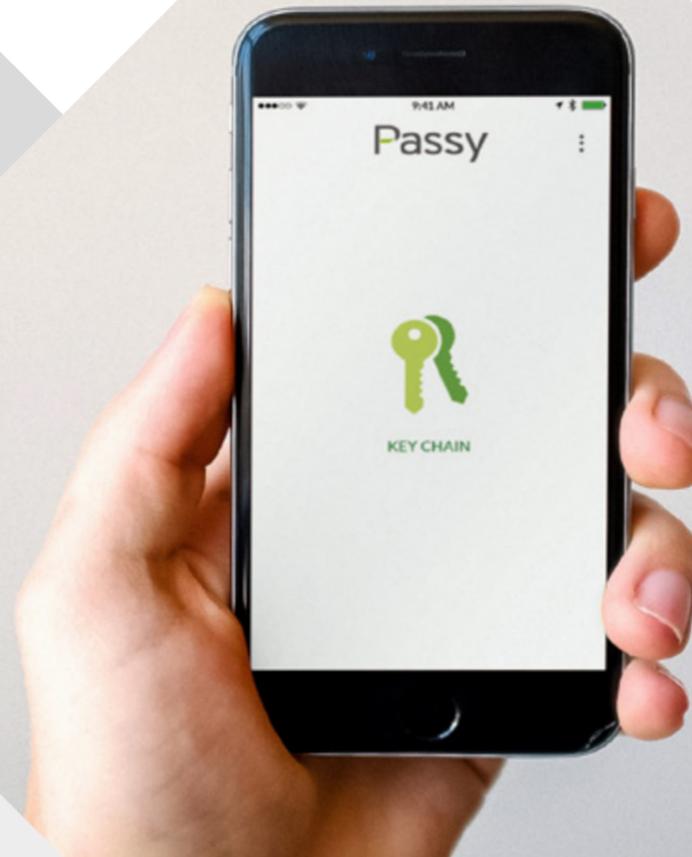
The Smart Key App is the personal tool to have access to the smart building through speed gates, allowing to book rooms, hot desks or car parking. The app can substitute a badge and works remotely, through an Internet connection, or locally with Bluetooth and NFC technology.

With the app it is possible to:

- access a building with your phone, using it like a badge or remotely
- book a room or an hot desk
- show the map or the building
- manage the reservations

All building locations can be navigated inside the App and, for the user convenience, they can be pinned in the home page for future uses.

In remote use, users with permission can simple book or access just using the respective command on the desired location. If proximity is required, the user must be nearby the location, so a Bluetooth connection is established, and, if available, an NFC tag can be tapped to ease the procedure.



## Passy Smart Lobby Kiosk

The Smart Lobby Kiosk is designed for use by guests or registered personnel and offers a welcome service complete with an appointment agenda, building plan, notifications to organizers, chat with them and other options. When idle, it displays a sequence of images which could be backgrounds, advertisements or any kind of pictures.

### Identity verification

The kiosk is capable of identify the user using a face recognition. An identified user can access to more specific features, such as reservations or chat with the organiser.

### Reservations

If the user is a registered one, the first thing the users are presented to is their list of current reservations, where he can read their details or show their location on a building map.

### Chat

Following a notification about a user log in and verification, the organizer can begin a conversation between his Smart Key App and the kiosk.

### Building map

The map screen displays the floor plan of the building, centered and zoomed on the requested destination, offering an option to filter the areas and to show a suggested path. The same map can show also the current position of the kiosk from with the user is interacting.



For more info about our products, please visit  
[www.passy.it](http://www.passy.it)



or feel free to contact us at  
[info@passy.it](mailto:info@passy.it)



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Passy and Passy Enterprise phone apps are available on App Store and Google Play.

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