



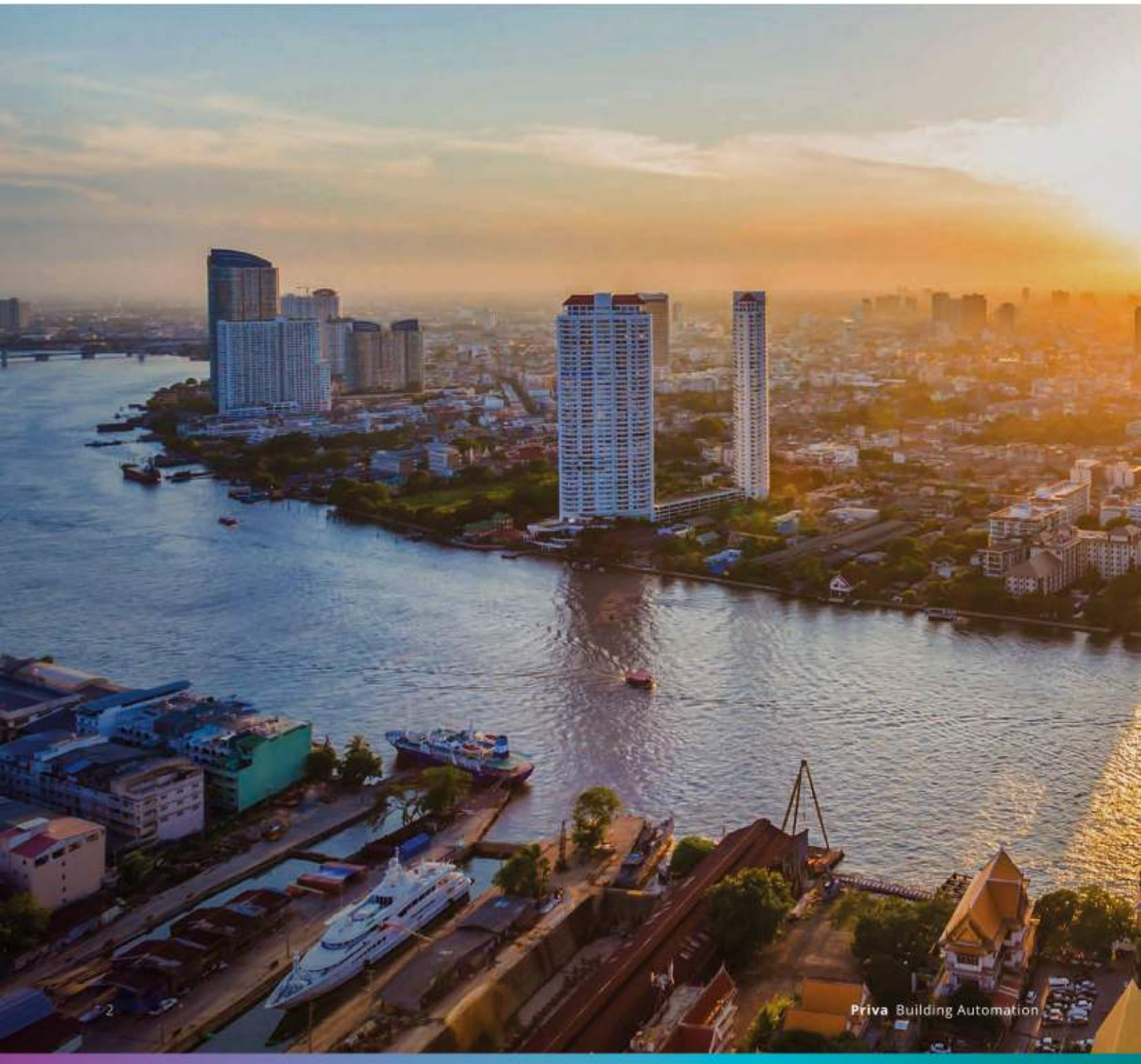
# Priva Building Automation

Creating a climate for growth



## Colofon

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# 01



## Priva Building Automation

### Creating a climate for growth

Dear reader,

We are living through extraordinary times. Every day we hear of more extreme weather, pollution, poverty and shortages of water and food. In just a few generations we have seen exponential growth in population resulting in severe impact on nature, resources, humans and climate. And now with energy prices skyrocketing the case for sustainability has never been more pressing, or more necessary. We need to change our business mindset for the long term, for the sake of our next generation.

But how do we achieve this? What gets me up in the morning is my belief we can all play a part in making a difference to our world. To achieve our goals, we all need a clear vision of the journey ahead. Working together, through collaboration and by setting priorities at every level in society, and as individuals, communities, cities, industries and governments – we are able to make change happen.

To make a difference we need to find new solutions to major challenges. We must accelerate the development, deployment and acceptance of new and proven technologies that will support a path to a lower carbon future. And, we need to work at a faster pace by encouraging other entrepreneurs, business partners and customers to get excited about the ways in which smarter, more intelligent and more connected technology can deliver on our energy transition goals.

We need to accept that the 'old' ways of generating, storing and distributing energy are exactly that: old-fashioned. Let's embrace the 'new' and implement intelligent energy management so that our grids, buildings and cities can come together to deliver a cleaner, greener and more connected future. In today's business climate, there is no other option: we must all find ways to save energy, cut operational costs and accelerate the creation and adoption of healthy environments for all: for better working and comfortable living. Creating a climate for growth.

In the end, I feel that it is optimism that makes the difference for me. The satisfaction and energy I feel, of being part of a better future, together with my colleagues, our customers and business partners. By planting the seeds of the new, and making positive change happen.

Creating a climate for growth.

Meiny Prins  
CEO Priva





# 02



## Facts & Figures

Our world is our home

**Priva is a high-tech company** that develops hardware, software and data services in the field of sustainable climate control, energy saving, and optimal reuse of water.

The headquarters of Priva Building Automation Group is in De Lier, near the Hague in the Netherlands. The roots of our family company lie in the field of greenhouse automation and control. Over many decades, we have become the global market leader in this field.

**Our innovative solutions** are used in a wide range of sectors such as, offices, public buildings, retail, hotels, health care, museums, greenhouses, vertical farming and indoor growing environments. Worldwide, we have a customer base of 10,000 companies and 450 international installation partners.

### **Priva Building Automation**

Our expertise and portfolio of intelligent technology has also earned us a place in the building automation market. In the Netherlands, we have been a market leader in this sector for many years. However, we are also increasingly active in the world market. The Priva Building Automation Group is active worldwide with more than 600 employees in 100 countries, 18 subsidiaries and training centers on all continents.

We are proud to say that today, Priva's Building Automation solutions are used in various buildings in Europe, North America and the Middle East, from China to Canada and from Mexico to Scandinavia.

More than ever, **Priva Building Automation** has an important role to play. By developing smart digital technologies and integrating them into our products and services, we allow customers to focus on their key activities, manage risks and maximize returns.

With our technical knowledge and expertise, we develop building automation systems that create the perfect climate for a building's users while reducing its carbon footprint. Together with our partners, we create climates for growth.





### **Experience**

More than 40 years of building automation experience for commercial buildings



### **Installations**

Installed base of over > 50 000 buildings in Europe



### **Solutions**

4000 buildings yearly equipped with Priva Building Automation solutions



### **Cloud Connections**

> 3000 buildings connected to the cloud, and growing



### **Partner Network**

> 500 partners, active partner network installing and engineering the Priva solutions

# 03



## Priva Products & Technology

Reliability is our standard

We are a high-tech company with a focus on sustainable climate control in buildings. We share our corporate group's mission "Climate for Growth" which is based on sustainable, holistic, environmentally friendly, and intuitively operable solutions. The result is a product portfolio covering all aspects of building automation - for controlling, monitoring or visualizing processes relating to heating, air conditioning, ventilation, lighting, and energy consumption.



At Priva, we are committed to solutions for Smart Buildings that can be upgraded over time.

Our solutions form the basis for a Smart Building:

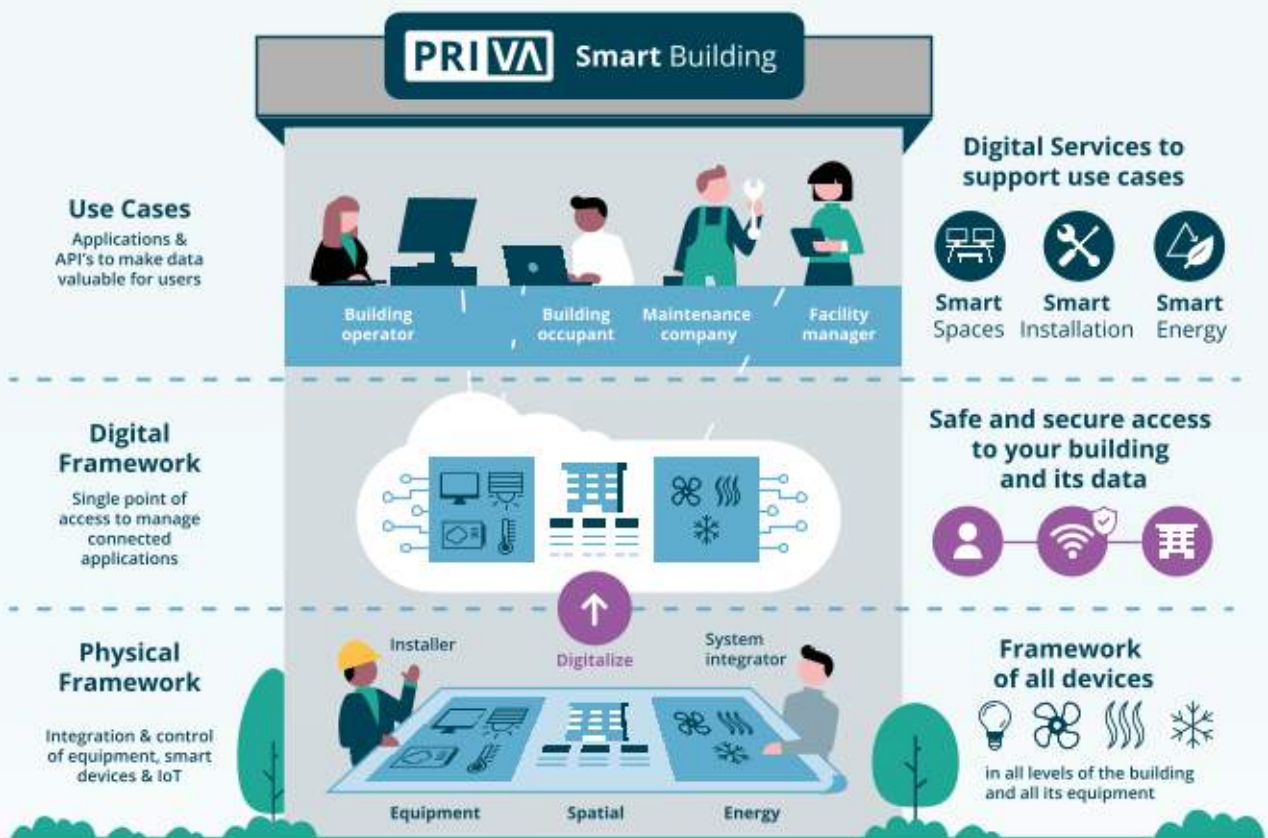
- The integration and control platform for the climate and lighting in your building
- Your building data is stored in the cloud where it's totally secure and accessible through the MyPriva portal
- Our Digital Services support you in the areas of Smart Spaces, Smart Installation and Smart Energy

### **Integration & Control platform**

The integration and control platform, a network of intelligent controllers to manage the production, distribution and post-treatment of heat, cold and ventilation in the building. The main objective is to create a perfect climate with minimal energy consumption.

The integration and control platform is the heart of building automation. Our hardware and tooling are aimed at providing insight into the spatial structure of the building, converting the energy sources into heat, cold and ventilation which, through a combination of Smart Equipment, Smart Devices and IoT devices, create the perfect climate in the building.





### Building Connectivity & cloud platform

The collected building data is securely connected from the Integration & Control platform to the Microsoft Azure cloud. The data is connected to the cloud data platform via one centrally secured Edge Gateway, taking into account the highest form of cyber security. For the building user, the building data is accessible to manage his applications from any device, any place and any time via a secure single point of access, the MyPriva portal.

### Digital Services to support and unburden the user

Based on the building data, the user can use the Priva Digital Services to support and/or unburden his daily activities in the building.

The Priva Digital Services focus on three different levels:

#### • Smart Spaces :

Digital services that respond to user needs, based on user-friendliness, with a focus on personal comfort and information transfer for the user

#### • Smart Installation :

Digital services that support the daily operation and maintenance of the installation, with a focus on optimising the installation for better comfort and reduced energy consumption, providing insight into the building installation data in support of the building's sustainability targets

#### • Smart Energy :

Digital services that predict the building's energy consumption and facilitate the integration of the building with flexible energy grids, where the building is also used to store energy

# 04



## **Priva Hardware Solutions** for the Integration & Control platform

For an optimized and comfortable climate, you need to be able to rely on your Building Management System (BMS). What sets our technology apart from other systems on the market is a powerful combination of characteristics: robustness, the high-quality of materials used and the elevated level of detail. This ensures years of trouble-free reliable service and maximum efficacy.



## Priva controllers

### Robust controllers that form the basis of your building automation

With our controllers, you can improve climate control and save energy at the same time. Regardless of the size of your building, we can help. We offer controllers for both small and large buildings as well as complex estates across multiple locations.



## Priva Sensors

### Reliable and accurate data for the best possible indoor climate

The outdoor and indoor conditions of a building affect the indoor climate. To maintain the indoor climate at the desired comfort level, you need sensors that provide accurate and reliable data. Your **building management system** uses this data to predict and respond to climate influences. With Priva's sensors, you are assured of accurate data and therefore an optimal indoor climate.



## Priva Touchpoints

### The elegant and user-friendly control device for personal comfort

Control the indoor climate individually with Priva Touchpoints. These elegant control devices are attractively designed and have been developed especially for offices, hotels, and schools.



# 05



## Priva Digital Services

Greater accessibility, scalability and resilience than ever before

There has never been a greater demand for sustainable, healthy, flexible and future-proof buildings. Today's buildings can be likened to living organisms: they gather information in order to continuously improve. Their data processing optimally steers technology to help you save energy and create a healthy environment for people to work and live in. With our roots in data measurement and control technology, we offer the optimum mix of knowledge and innovative solutions to create such buildings for you.

Our digital services connect your building to the cloud, unlocking unlimited possibilities for you to control your building's behavior, occupancy, energy consumption and many other aspects. Be in control of your building anywhere, anytime.

### Future-proof

Our cloud-based Digital Services are built around the challenges you face:

- Future-proof and flexible
- Accessible
- Easy to use
- Easy to implement in any building
- Compatible with our existing solutions

### Lower costs, higher value

With our building management solutions, you are investing today in the world of tomorrow. And that's not just good for the environment.

Sustainable building management:

- Reduces energy, operating and maintenance costs
- Makes your building more efficient and flexible
- Makes real estate more future-proof and stable in value

### Flexible and secure

The performance and flexibility of the cloud allow you to:

- Make considerable cost savings
- Work faster and more securely

We take the security of our cloud services extremely seriously. You can feel confident because:

- Our Priva Digital Services are based on the leading platform Microsoft Azure
- All updates (including security updates) are performed automatically
- Our network security is tested continuously
- With Priva Access Control you are always in control of the users and rights in your online environment

This means you will always use the latest technologies effortlessly and securely.

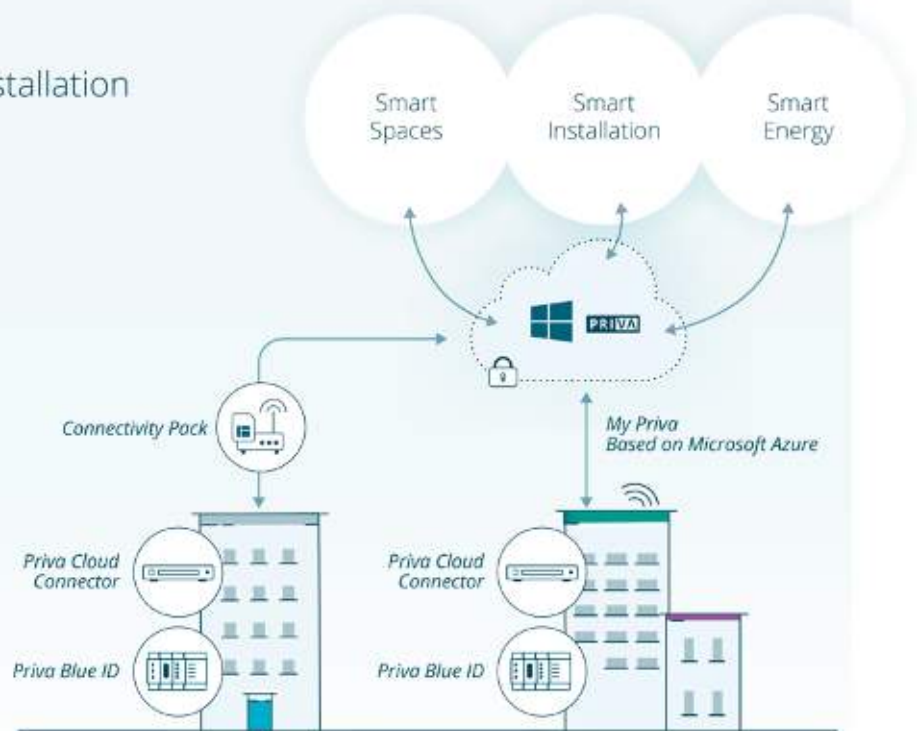




## Priva Digital Services

for Smart Spaces, Smart Installation and Smart Energy

- Secure cloud operation
- Building Operator
- Historical Data Storage
- Notification Center
- Remote Commissioning
- Customizable Dashboards
- Analytics
- Energy Insight
- Comfort management
- API's
- 4G connectivity



## The advantages

of Priva Digital Services

- 1 Easy**  
 Your building is quick and easy to commission, manage and maintain
- 2 Accessible**  
 Available at any time and from any place, up-to-date and securely connected
- 3 Flexible**  
 Choose which services best serve your needs, now and in the future
- 4 Control**  
 You are always in control of an optimal climate in your building and minimum energy costs



# 06



## Cloud security Your data always safe and secure

Managing your building with cloud-based technology offers many benefits like being always connected to your building and the possibility to maintain your systems from anywhere on any device. Still, all this convenience is irrelevant if your data is not safe. Fortunately, we understand the value of data. Managing data securely has been one of the drivers of our company for many years. Safe data is one of your biggest assets and when it comes to building cloud software, one of our primary concerns. So how do we make sure your data is secured and how do we build the safest applications possible? It starts with choosing the right cloud platform to build our software on.

### Microsoft Azure platform

We have chosen Microsoft Azure as our main platform for building cloud applications. Microsoft Azure is a cloud platform that offers the highest levels of security in the industry. The safe reputation of Azure has been confirmed by over 90 compliance certifications granted to the platform worldwide. By using Azure as the foundation of our software, we can completely focus on safe software design, which is the second step of building highly secure cloud applications.



### Safety from the start

At Priva we like to use the term 'we build it safe, or we don't build it'. It sounds like a simple phrase but for us, it's a 'creed' that we adhere to right from the start when building software.

It means that our team of inhouse developers apply well-known security principles, such as 'security by design' and 'defense in depth'.

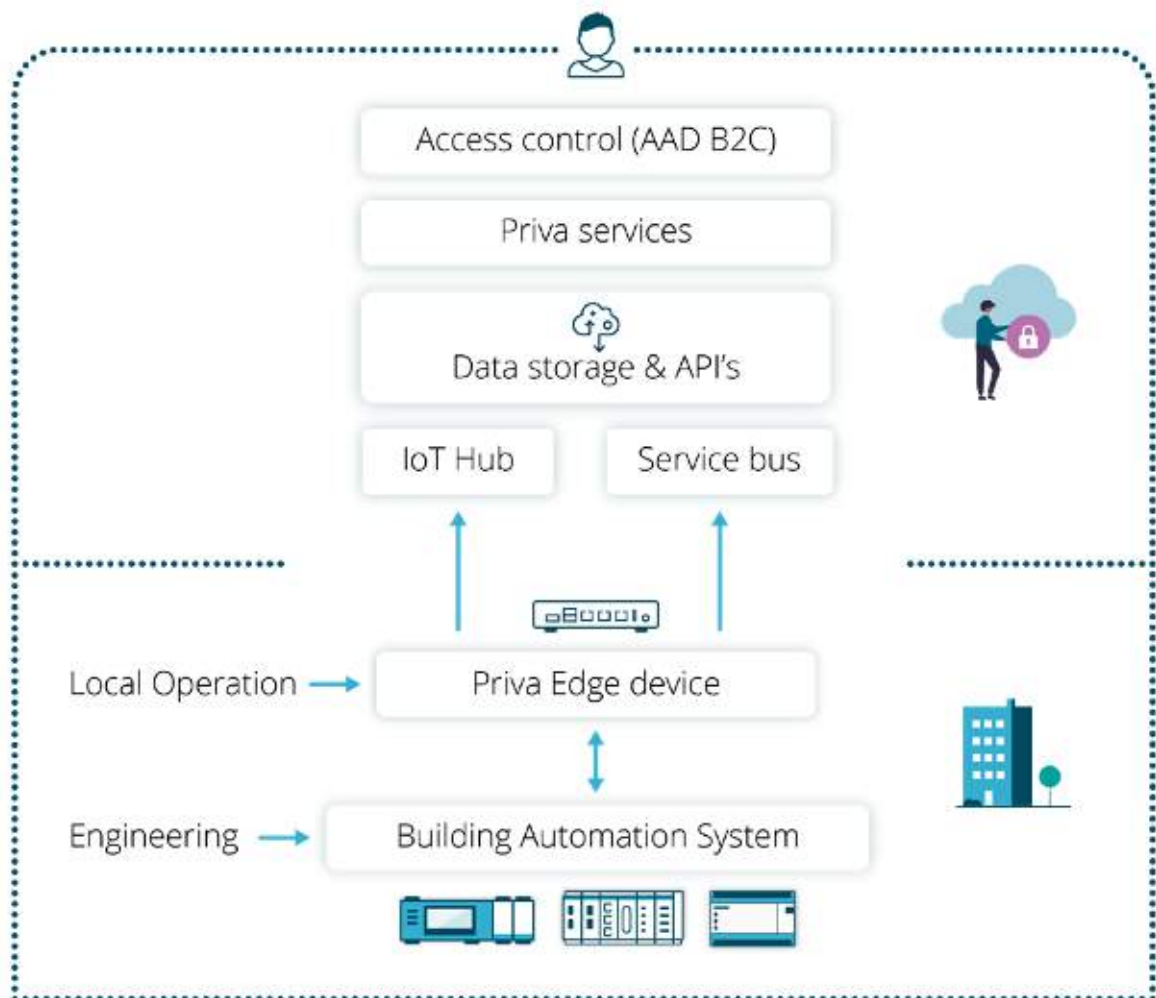
In this development phase, the prototypes of our software undergo rigid security tests (e.g., risk assessments, manual code reviews and automated tests) to make sure they meet our high security standards. In case there are any doubts regarding security, the development sprint is halted, and we go back to the drawing board.

### Ethical hacking and ISO/IEC 27001 certification

Once an application has been developed and tested, we hire independent ethical hackers to perform periodic penetration tests. These tests allow us to see if and where possible vulnerabilities are present. Consequently, we investigate and resolve these findings, so that the security of our software is continuously optimized.

Once a service or hardware device is adequately protected, the ethical hackers provide a TPM (Third Party Memorandum) to formally confirm their findings about the security level.

Finally, Priva is also ISO27001 certified. ISO/IEC 27001 is the world's best-known standard for information security management systems (ISMS) and their requirements.



# 07



## Smart Buildings

Digitally connected structures that control, connect, collaborate and conserve

Intelligent space management, climate control, collaboration and energy management are the cornerstones of smart buildings. To achieve these benefits, smart buildings use data collection and interconnectivity as the basis for integrating Priva's digital services and hardware like sensors, controllers, and touchpoints. By doing so, smart buildings are highly efficient and easy to run. They also act as catalysts in the energy transition towards decarbonization of our communities.

### How do Smart Buildings work?

A Smart Building integrates technical equipment, smart devices, sensors and actuators based on computer-controlled technology that gather and process the data into a digital connected structure, that combine optimized building and operational automation with intelligent space and energy management to enhance the user experience, increase productivity, reduce energy consumption and mitigate physical and cybersecurity risks.

### Future-proof and cost efficient

It is easy to expand the capabilities of a smart building system through software updates – at any point in the future. Useful functions can be added easily and the system extended. This is what makes smart buildings flexible and attractive from a cost perspective. Finally, smart building automation also lowers the carbon dioxide emissions of your building. These are just some of the reasons we are actively promoting the use of smart building automation in properties worldwide.





### Health benefits

Many global studies now prove that human health and productivity can be positively influenced by the buildings we live, work and learn in. Which is why our intelligent automation solutions are increasingly relied upon to support well-being. With our technology, you're able to take control of a wide range of building functions such as the treatment of air; thermal comfort; the use of daylight and quality of artificial light; the acoustics of the space; and the "green experience" that a building offers. Our own headquarters in De Lier is a perfect example of a smart building in which these elements are incorporated.

### How can a Smart Building contribute to the energy transition?

Next to energy savings in the building itself, the energy flexibility of buildings will become crucial to support grid infrastructure in absorbing large amount of decentralised energy production.

Buildings are in a transition phase, moving from being unresponsive and highly-energy-demanding elements to becoming highly-efficient micro energy-hubs consuming, producing, storing and supplying energy, making the system more flexible and efficient.



"In a market where the focus is shifting from products to services, software is becoming increasingly important to meet new demands. We believe that data-driven and connected buildings can yield a solution. We allow them to become the cornerstone for the energy transition in combination with smart grids and smart cities."

Peter Vandendriessche  
Vice President Building Automation Group

# 08



## Leveraging partnerships Celebrating success together

Over the last forty years, we have worked in close partnership with our system integrators and installer partners. Each of our partners is a proven expert in their field. We know that we need to work seamlessly and in collaboration with all our partners if we are to deliver the sustainable solutions that the future demands.

To get there, we have created an ecosystem of like-minded companies with shared values and goals: installers, system integrators, owners, consultants and building operators. We believe that great partnerships are the key enabler for this ecosystem. They are the glue that ties all systems and applications together. The connections and strengths of the ecosystem deliver the results our customers can build on – with increased speed, reliability, and scalability.

Together with our technology, commercial and knowledge partners, we create environments where people thrive. Healthy, efficient, flexible, and smart buildings that are connected to the individual user and their environment. For better working, comfortable living, and smarter energy management.



Coming together is a beginning, staying together is progress, and working together is success.

Henry Ford



## Installers

As an installer, you benefit from our intelligent tools, technical expertise, and the insights you need to plan and realize optimal building installations. Our data-driven solutions offer real-time process insights, so you know what is happening at any time.



## System Integrators

As a System Integrator, you benefit from our systems' flexibility and ease of use—seamless hardware and software integration, easy to connect and configure, and direct support when needed.



## Building Operators

As a building operator, you benefit from integrated and connected systems and our intuitive digital services. Move faster, operate securely, and take complete control of your buildings.



# 09



## Social Responsibility

Caring for the planet of tomorrow

It is our mission to contribute to a sustainable world in which a growing world population can live a healthy and comfortable life. With our unique combination of hardware, software, and services, we are perfectly positioned to provide solutions for the challenges faced by the urbanizing world. Whatever we do, our focus is on local and efficient food production, green and clean buildings and neighborhoods, and minimal use of fossil fuels and scarce natural resources such as fresh water.

For us, sustainability is not a label or a fashion trend, but the *raison d'être* of our technology company. Therefore, we work on the sustainability of our own company and our customers' business processes every day.

### Priva and the Sustainable Development Goals

Our mission is far-reaching. We understand we cannot do it alone and that we cannot offer a solution to all of the world's problems. But we do want to contribute to a better world with our vision of how to deal with food

production and the increasing world population. In the coming years, we want to further shape our CSR policy based on the Sustainable Development Goals of the United Nations.







## Get in touch

We love to hear from you!

If you would like to talk to us about a specific challenge, or you would like a deeper understanding of what we do, then let's talk. We are more than happy to meet face-to-face, online or talk by phone. You can reach us via the information below.

Would you like to speak to a Priva Account Manager in your own country?  
Then go to [priva.com/contact](https://priva.com/contact) or scan the QR code for the address details.

We look forward to hearing from you!

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