



2N

Access Control 3.0

New standards
of residential access

Your guide to the 7 pillars
of modern building access control

2N.com

Welcome to the future of access control

After hundreds of years of the humble lock and key, followed by 50 years of RFID cards and chips, the way we open doors is on a brink of a new era: one we term [Access Control 3.0](#).

Internet-based technological advances, together with increasing customer requirements for comfort, security, and privacy, mean that the way we access our homes and offices has undergone a fundamental change that will define industry standards and consumer expectations for years to come.

A modern access control system today combines several recent technologies and trends such as IoT, and Bluetooth, and raises the standard of how people access their homes and offices to an unprecedented level. Much like wallets and the credit cards within them, keys are becoming obsolete with mobile phones fast becoming the core of access control.

It's our belief that if you're a developer of residential buildings, you need to adapt to and implement these new technologies to cater to market demands and future-proof your projects. To do this, you should be careful when choosing your Access Control provider – make sure you never compromise on quality and choose a provider that upholds the high standards of Access Control 3.0.

Which standards does **Access Control 3.0** demand?



In other words - what should you be asking for in your next project, and what do residents really want?

There are **7 key pillars every developer, property manager or system integrator should keep in mind** whilst selecting the right access control system (intercom, access reader, answering unit) for a residential building. Be sure to choose a company that can meet all of them.

1. IP Technology

IP technology has transformed access control. It enables the development of smart, flexible, and fully customisable solutions. **As well as being easy to install**, IP technology is **simple to scale and integrate** into complex, comprehensive security systems – and ever-popular **home automation systems**.

Whether **new-build or retrofit**,
IP is the only choice for residential
projects going forward

But which IP devices should you choose? We recommend always focusing on the **quality of design, advanced feature capabilities and open protocols** for easy integration with home automation.

A premium intercom such as the **2N® IP Style** makes full use of all the benefits IP technology gives us by being a highly intelligent device with a range of advanced features such as a **5MPX, WDR capable camera, customisable UI, multi-access technology**, and **Bi-Directional video capability**. The 10" touchscreen also has a self-disinfecting **AntiBac** coating that **kills 99+ % of all viruses & bacteria**, and **seamless usability - even in the rain**.

89%

of respondents cited that IT had influence in the upgrade process – with many indicating it was part of the final recommendation or authority process.

[IFSEC study, 2022]

2. Mobile Access

It seems so natural to us now, but phones have replaced watches, cameras, calculators, calendars, CD players, TVs, books, newspapers... and most recently, your credit card. **Keys will soon be added to this list.** The limitations sometimes associated with early versions of Bluetooth access control technology have been overcome, and industry forecasts now indicate **exponential growth in mobile credentials over the next few years** – a growth driven by a desire for convenience and facilitated by IP Technology.

41%

of responders in the IFSEC study
required the ability to utilize
mobile phones in new PACS

[IFSEC study, 2022]



Technologies such as WaveKey combined with compatible IP Intercoms and/or IP Readers allow end-users to throw away their keys and use their phones to enter their homes quickly, reliably, and safely.

Simply put, mobile access is the future

What's more, mobile gives your residents what they really want – to never miss a delivery again by transforming their **phones into Answering Units** – letting residents grant visitors or delivery people access to their homes from wherever they are in the world as well as remotely monitor and control their front entrance for **extra peace of mind.**

3. Multi-user technology

To offer a complete residential access solution, both IP intercoms and Access Readers must be included to maximise the potential and allow for multi-user access: an intercom for guests & visitors who need to be authorised, and access readers for pre-registered tenants & staff who don't.

Access Control 3.0 standards require flexibility and maximum usability from technology

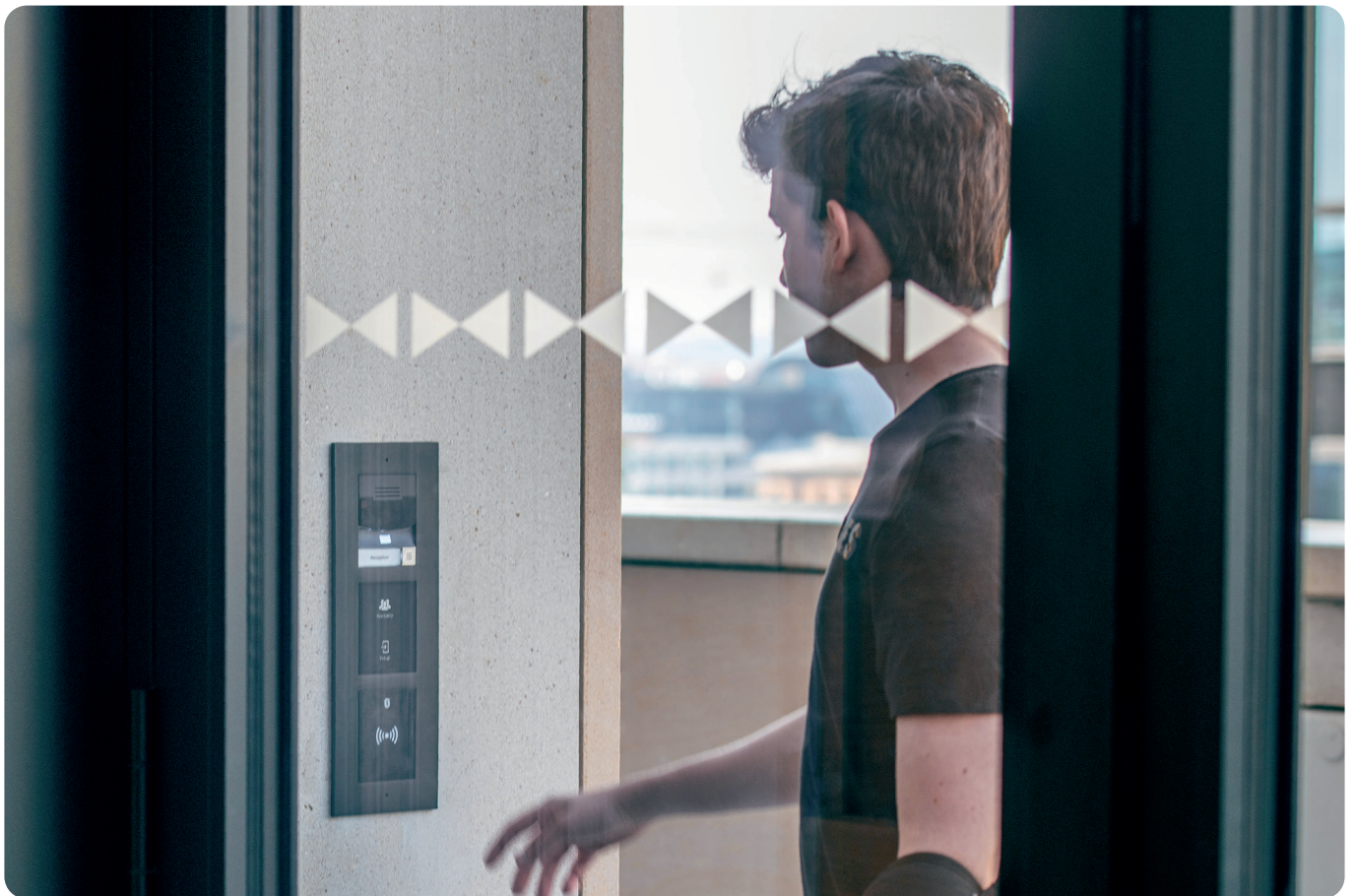
Often, installers make the mistake of cluttering entrances with multiple devices, but **you should choose a company that makes intercoms that combine both in a single device.** Smartly designed IP Intercoms by companies such as 2N function as both intercoms and access readers, meaning you save on costs, the installation is easier, and management of the site's devices is streamlined.

Furthermore, **flexibility should also be considered when thinking about access options.** Different projects have different needs, whether it's a legal requirement or simply your resident's preference - elderly tenants, for example, might struggle only using phones to enter their building and grant access to visitors. It can also allow for **two-factor authentication** in projects that require more security.



Give your customers options and **convenience**, and yourself easier installation and site management.

A high-quality, modular IP intercom such as the **can support 4 types of access technology in one device**: whether that's via mobile phone, fingerprint scans, an RFID card, and/or a PIN code. It can also support license plate reading, meaning it's perfect for entrances to garages, too.



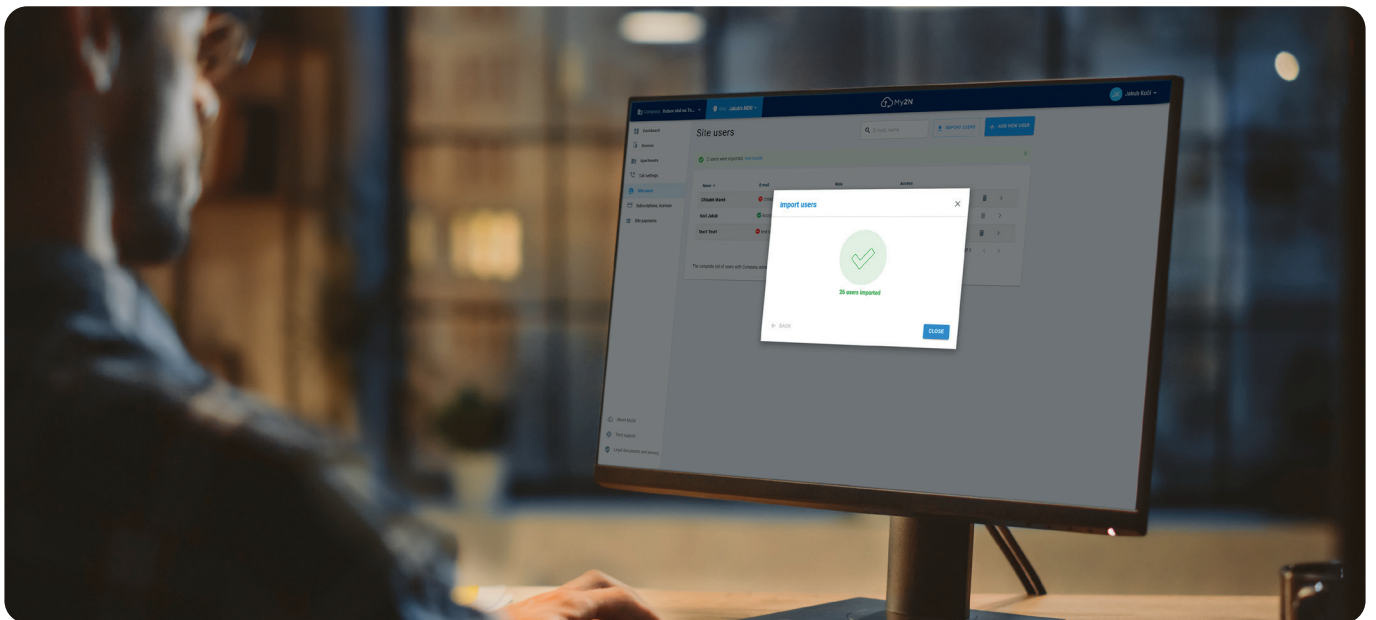
The 2N® IP Verso allows for multiple access technologies and great flexibility

For a complete solution, add intelligent Access Readers (like the **2N Access Unit 2.0**) that are easy to install and offer multiple access options to **secure common areas where an intercom isn't needed** such as stairways, gyms, pools, and elevators.

4. Remote management

IP technology has also enabled access control systems to be managed remotely, in real-time. This has made a huge difference in residential buildings, where building managers are able to monitor many devices from one place.

Save time and money by using a reliable **Cloud Management Platform** such as **My2N**



Not only does using a **remote service save you time and money by allowing you to do the day-to-day site management** (such as assigning/revoking users and devices & updating the firmware) **from anywhere**, but it also enables problems to be identified earlier and addressed immediately.

5. Cybersecurity

While the connectivity of technology enables greater efficiency, it also exposes **new entry paths for cyber-attacks**. Even one compromised device can create a hole in an otherwise secure system – so you need to make cybersecurity a top priority. Careful testing of products before their official release should be standard from your access control provider, and devices should be continually monitored and improved.



40%

of respondents cited protecting against the threat of security vulnerabilities as a top challenge

[IFSEC study, 2022]

2N's entire process is designed to deliver products, services and solutions that fulfil the highest cybersecurity standards and are **officially ISO27001 certified**.

As a manufacturer of smart network devices, 2N design and develop products according to:

- International security standards (ISO 27001, SOC 2)
- Selected principles of the 'Secure by Design' specification
- The security model of our parent company Axis

Consider leveraging a manufacturer that has an entire process that is designed to analyse all known security threats & vulnerabilities and design the product to reduce the potential risk. A company like 2N also goes to the extent of designing its own protocol to maintain permanent and secure connections between cloud platforms and products. This modern and secure non-VPN solution offers both high security and immediate synchronisation.

6. Environmental, social, and corporate governance (ESG)

This is not a technological development as such, but the access control industry is as impacted by consumer (and employee) expectations around ESG as every other sector. It's no longer just a competitive advantage to prioritise sustainability, supply chain integrity, diversity & inclusion, employee welfare and local community relations – it's an essential part of doing business. It is also necessary to be able to prove your track record in all these areas through ISO certificates and other forms of objective evaluation.

88%

of consumers will be more loyal to a company that supports social or environmental issues

[Cone communications]



Whilst this side of the industry is still evolving, many access companies still take the environment & sustainability seriously. 2N, for example, has outlined goals for the future such as aiming to be PVC and Halogen free by 2023, increasing our environmental visibility and implementing new 'green' standards for suppliers.

From your side, simply choosing EU-made, quality products that last means you reduce waste caused by devices with short service life – whilst pleasing your customers with great design at the same time!

7. Privacy and the protection of personal data

The use of modern technologies carries with it an increased risk of personal data being misused. This is now a primary concern for access control companies, particularly those in Europe who must comply with the **General Data Protection Regulation (GDPR)**.

In the residential sector, we're dealing with devices that are in people's homes: so **always make privacy a top concern.**

Once again, choosing EU-made (and therefore EU-regulated) devices means you are less likely to run into potential privacy risks and misuse of personal data.

Choose a company like 2N that develop products and solutions with GDPR privacy by design. Our IP intercoms never record video or audio unless instructed to do so, and our Answering Units never monitor audio or images in the background. **Personal data in all devices is never shared with third parties** or for marketing purposes. In our IP Intercoms, **personal data is saved directly within the device and hashed** - thus protected against unauthorised access. In our Cloud and Software Services, **sensitive personal data is saved and encrypted** in secure, backed-up data repositories.



Residential project difficulties & differences

How to integrate an easy **IP solution**

Developments come in all shapes and sizes and can have complex demands when it comes to installing access control. Choosing **IP technology crafted by industry experts means you get a solution that can fit every project imaginable, without compromising on security, technology, and user accessibility.**

Newbuilds

Put simply - modern projects need modern access control. Installing a luxury, full touchscreen intercom such as the **2N® IP Style** or a smart modular intercom like the **2N® IP Verso** will complete the look of your newbuild project, as well as offer future residents advanced, varied access options and complete security.



Installation:

Installing IP into a new building is a natural, logical choice. An IP network is usually already installed in the building for other purposes – so installing IP intercoms, answering units and access control readers saves on extra cabling costs.

Retrofit projects

Retrofit projects make up **75% of the residential market** – and can also be the most challenging. The buildings can be historically valuable or development in some way restricted, there are obstacles with changing existing cabling, and drilling into walls - not to mention the hassle of bothering existing residents with the time-consuming task of changing answering units and access systems.

There are 2 options to bring **Access Control 3.0** standards to retrofit projects:

Use cloud calling

Shared networking can sometimes cause problems. The solution? **Use a cloud calling service via a remote management platform such as My2N cloud.** This ensures that each product you're installing only needs to be connected to the internet (no matter the provider) to communicate with each other - and they don't need to be connected to each other via a cable.

Use existing 2-wire cabling

Got old 2-wire cables? No problem. By using an IP Converter, you can fit **modern IP devices into old 2-wire cabling.** This will allow you to get **IP solutions with analogue cabling**, thus saving on costs and allowing you to bring Access Control 3.0 standards to any building.

Other retrofit demands

Historically valuable buildings require extra-special care. They're particularly tricky as they're often restricted and protected – but IP can offer a solution to even this.

In cases where you don't want to (or rather, can't) drill into the wall and therefore can't change cabling - you need a product that can be **installed on the wall directly rather than flush mounted.** Installing products on the wall is less inconvenient for residents, and the installer spends less time in residents' apartments, making it easier to set up appointments and it saving on costs for installation. A win-win!

All **2N IP Intercoms** can be mounted in this way – some (such as the **2N® IP Verso**) even on glass. For inside apartments, the **2N Indoor Surface Box** allows the Answering Units **2N® Indoor Compact** and the **2N® Indoor View** to be installed on the wall quickly and easily whilst maintaining their sleek appearance.

In the process of selecting Access Control for **your next project?**

Be sure the company you choose reaches the high standard of **Access Control 3.0**

To be a forward-thinking integrator, to get ahead of the competition, to future-proof your projects, and (perhaps most importantly) to please your customers, **you need to use an access control provider that develops devices and solutions that meet the standards of the 7 pillars laid out by Access Control 3.0.**

Don't be left behind as the world of access control moves forward: **demand the future** for you and your customers and succeed long term!

