

SIMOCO CONNECTED BUILDINGS

**PROVIDING ORGANISATIONS
CONNECTED TECHNOLOGIES TO
CREATE SUSTAINABLE BUILDINGS**



simoco
wireless solutions



The Connected Buildings

Introduction

Buildings are at the heart of our lives; we spend most of our lives living or working in them. Decarbonisation and energy resilience are increasing the demand for sustainable buildings and infrastructures. To achieve this can be somewhat overwhelming and no single organisation is equipped to tackle today's challenges alone. By providing adaptable and human-centric technologies, at Simoco Wireless Solutions we create smart buildings that challenge the everyday expectations and reality of what buildings deliver.

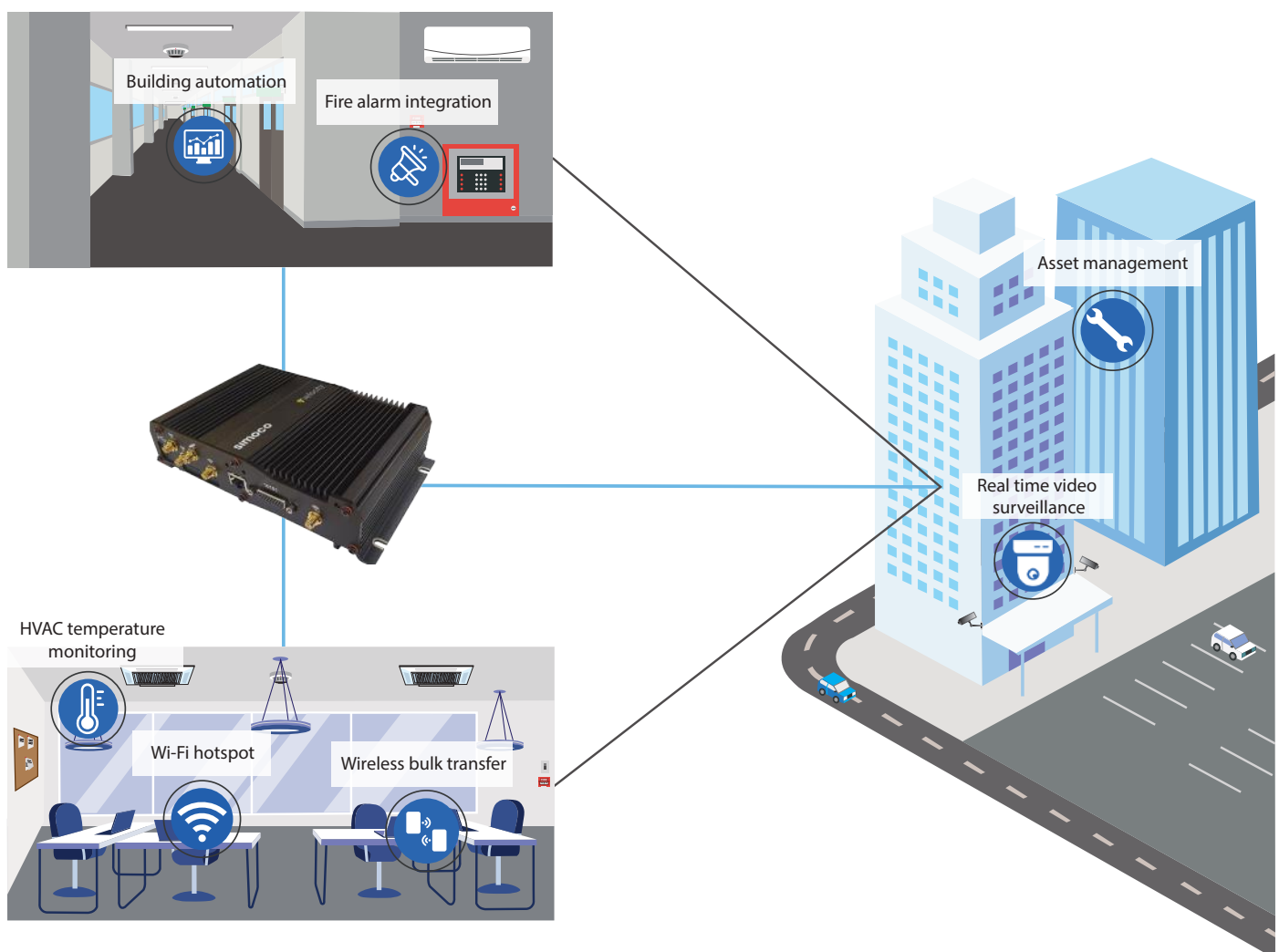
Smart, connected buildings make it possible to engage with building occupants in new ways, while also driving down operational costs of maintaining business infrastructure with the aim of improving the bottom line.

Utilising our ground-breaking Internet of Things (IoT) and edge computing solutions, your organisation can benefit from monitoring heating, lighting, ventilation, building occupancy and much more to make more informed decisions. By intelligently utilising data that is essential within a building, we can help your organisation better manage energy consumption, reduce waste, and increase security.

Overview of Connected Buildings technology

Tackling emission challenges and decarbonising buildings is being driven not just through legislative forces like the Paris Agreement, but also through our collective understanding of the urgency to make the changes we need in the fight against climate change. By implementing technology, we can help reduce energy usage through greater connectivity, which in turn can result in lower emissions, and thereby reduce costs.

Our connected building ethos for commercial buildings is at the core of a smart building. Using revolutionary IoT technology, we can connect equipment and building infrastructure providing building operators and owners a holistic view of managing a building effectively which increases operational efficiencies and reduces operating costs. At Simoco Wireless Solutions we have the technology to power carbon reduction and provide sustainability buildings for the future. We deploy technology to create significant opportunities to increase the best possible return on investment.



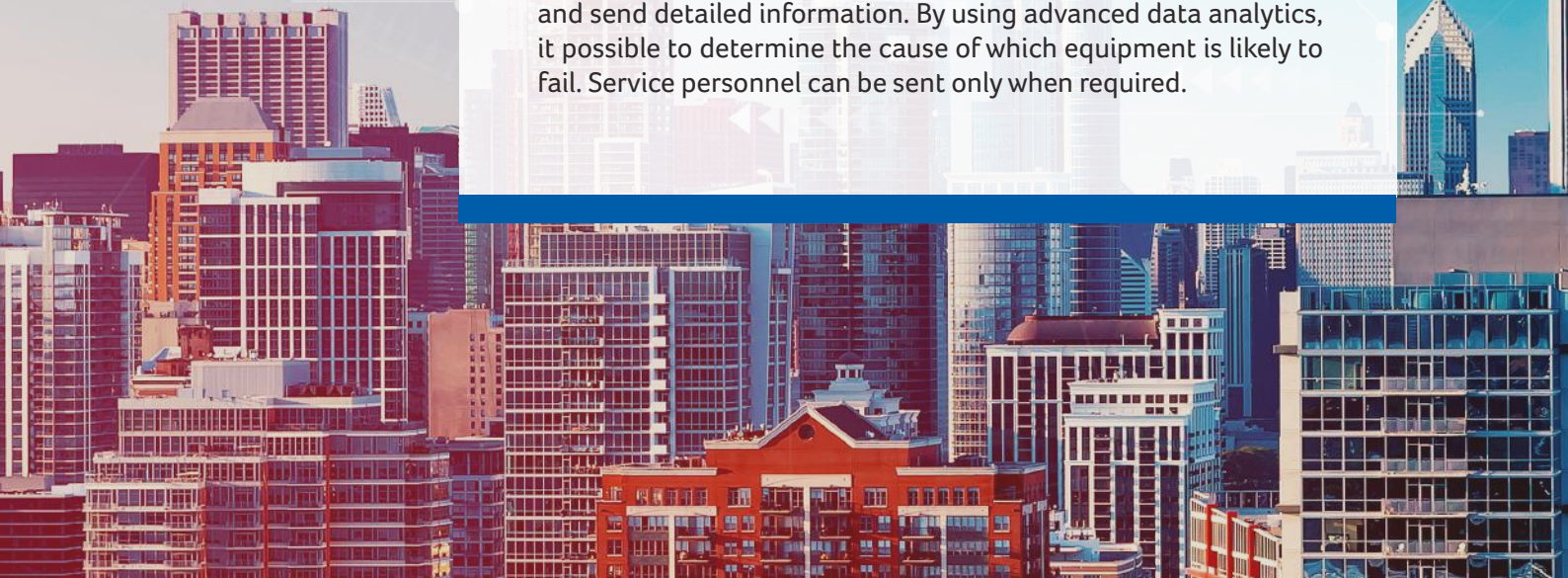


A Unique Solution For Commercial Buildings

IoT is having a major impact on building management. Connected sensors are allowing facilities managers to track a wide range of parameters from resource consumption to space utilisation, to light and temperature usage. By integrating this level of data with advanced dashboards, it is possible to automate a number of key functions, providing greater control of the building. For example, lighting and heating can automatically be turned off in areas that are unoccupied.

Building managers typically have very little visibility into how their equipment is performing. Services visits are scheduled throughout the year, but these are costly and may be unnecessary if equipment is working adequately. Alternatively, a component may fail unexpectedly causing an outage. In severe cases this can lead to parts of the building become unusable which could cause major disruption and loss in productivity.

IoT enables building managers to take a precise approach with the use of advanced sensors that can monitor individual components and send detailed information. By using advanced data analytics, it is possible to determine the cause of which equipment is likely to fail. Service personnel can be sent only when required.



Wireless solutions built to drive efficiency

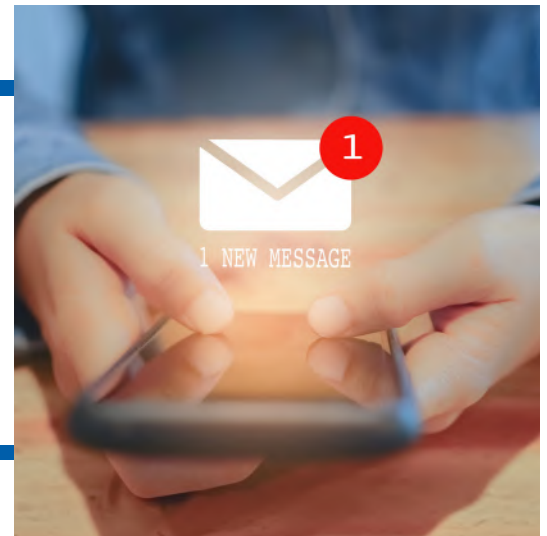


All in one intelligent communication solution

Our solutions provide an affordable and best-in-class intelligent communications solution that consolidates all your devices and peripherals, providing your organisation with the reliability and resilience it needs from a mission critical communication network.

Fire alarm integration

Fire alarms play an important role in keeping occupants in buildings safe. Velocity can integrate into your existing fire alarm systems providing a mechanism to send messages to staff in the event of a fire. Additionally, if the building has its own Land Mobile Radio (LMR) network, the intelligence of NodeRED workflows in the Velocity solution can allow messages to be sent direct from the fire alarm system to radios that enhance the performance and response of safety teams on site.



Building automation

Whatever the size of your building, its purpose or application, our comprehensive building automation solutions allows us to perfectly tailor an automated building solution to each organisation's needs. Flexibility is at the heart of the Velocity solution enabling easy integration with numerous systems and option to modernise at a later stage if need be.



Remote monitoring HVAC

Velocity provides organisations a way to manage your equipment such as Heating, Ventilation, Air Conditioning (HVAC) systems providing a way to monitor and report on equipment remotely and in real time without the need for sending service personnel. If the equipment is working well, this can save organisations unnecessary expense of having to send an engineer to physically assess a site. If a problem arises, the intelligence in Velocity using NodeRED can alert personnel that an engineer is required to fix the equipment. HVAC systems are notoriously power hungry as they are almost in constant use. Even small efficiencies can have a major impact on overall building costs. Linking sensors with Velocity can closely track the temperature of different rooms in a building adjusting the heating or air conditioning accordingly.

Video surveillance

Increasing security breaches and the intensity of threats, combined with stringent regulations and an ever-increasing amount of video data to be managed, are just some of the challenges that today's video management systems need to provide an answer to. Our solutions rely on constant mobile connectivity which makes possible to monitor security from a remote location and alert authorities immediately when problems arise.

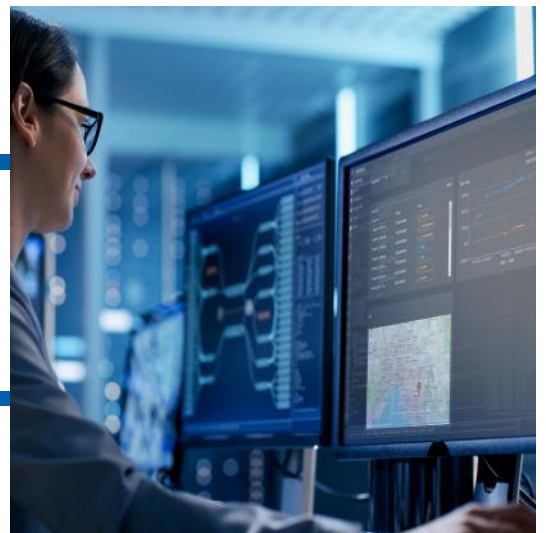


Wireless bulk transfer

Need to offload large downloads without consuming lots of Long Term Evolution (LTE) data? You can with Velocity by configuring a number of access points within Velocity for offloading large files to central building sites or depots with fixed gateways.

Real time monitoring, maintenance, and updates

Using Velocity Remote Manager allows firmware updates, configurations, and maintenance to your wireless on board device from a remote location while ensuring that sensitive data stays safe.





Asset management

Using radio-frequency identification (RFID) tags to automatically track movement of high value goods in buildings is possible with Velocity providing complete visibility of the entire asset base, help drive automated decision making and efficiency.

Wi-Fi hotspot

In built Wi-Fi comes standard in Velocity. Gain the flexibility and nonstop reliability in your buildings by deploying Velocity using LTE as a primary or failover connectivity through centrally managed wireless edge solutions.



Converged Multi bearer platform

Velocity's multi bearer platform allows your building to stay connected with a range of common communication networks such as LMR, LTE or even satellite communications transforming operations and constituent experiences. The beauty of Velocity is the aggregation of data managed on business rules, resulting in bandwidth efficiency.

Network Security

Velocity is designed with security in mind and includes the use of advanced security protocols such as Virtual Private Networks (VPN). Other security features include setting up Demilitarized Zones (DMZ), MAC filtering, IP filtering, port filtering and port forwarding provide a standards-based security solution for connecting and managing remote assets, enabling customers to guard against malicious access to sensitive data.



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