



A revolutionary visual security and analytics solution

The future is exciting.

Ready?

**Vodafone
Digital Buildings**

vodafone.com/iot/security



It's time to take visual surveillance to the next level

Increasing security concerns, limited capabilities and the rising demand for operational efficiency — the security sector needs to adapt to survive in the connected world.

Growing concerns with CCTV systems

Today, almost every organisation uses CCTV to protect its people, property and buildings. Too often, the systems are installed to appease insurance providers, or in the hope that they will deter would-be thieves. However, existing systems can be insecure, inaccessible, expensive to maintain and may be unreliable when dealing with an incident. The problems with existing systems include:

Accessibility

One of the major weaknesses of conventional video surveillance lies in the footage it collects. Typically, this has to be stored locally, usually on a digital video recorder (DVR).

When footage of an incident is required, the DVR must be directly accessed on the site. And the relevant information must be identified and copied onto removable media. This can then be passed to the relevant authorities. This is both time-consuming and costly. In the worst cases, agents only discover that there was a problem with the equipment when they arrive onsite and the footage cannot be recovered.

Security and availability

Legacy CCTV systems that are not connected over secure networks to the internet risk being hacked and used in cyber crime. Additionally, remote CCTV systems can and do fail without warning and critical events may not be recorded at all. Again DVRs have limited storage capacity, forcing firms to limit the length of time recordings are kept. That can mean that footage needed in an investigation is insecure as it can be overwritten before it can be reviewed.

Compliance and privacy

There's increasing public concern about the security of personal information held by organisations. It's important that visual data held on CCTV systems complies with current and forthcoming legislation.

Due to the manual nature of altering the timestamp of recorded footage at site, for example for daylight saving time, there are instances where this is not completed on time, causing video to be incorrectly timestamped and therefore not compliant with the standards of evidence in court.

Cost

Currently, CCTV systems can be connected to a central screen where agents can continually monitor movements. However, this is time-consuming and costly. And adding new cameras to legacy systems could lead to further software solutions or a refit of the entire system.

It's also expensive to retrofit existing camera systems with network cable — and in many cases, it may even be impossible.

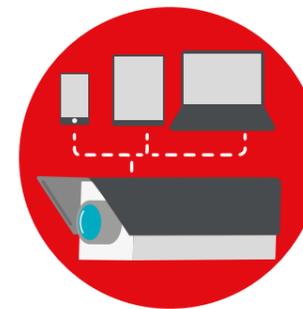
Vodafone Digital Buildings is different

Introducing a secure, efficient managed solution that remotely monitors your site — anytime, anywhere.

Enhancing your existing tools

Vodafone Digital Buildings is designed to work with your existing CCTV system to protect your business assets. Our leading solution connects cameras to a smart, resilient cloud-based service via our secure IoT network. You get alerts based on your definition of what's of interest — or you can access stored or live footage as required.

Benefits:



Anytime, anywhere

- **Easy to deploy.** Operates as a standalone system or plugs into existing systems. The solution is designed to be modular, so you can bring in more legacy cameras or add new ones, as required, without adding more infrastructure.
- **Easy to manage.** Live or historic footage from almost any camera can be checked via a web-capable device — and the solution has in-built access controls, so you can limit which users are able to review footage stored on a Vodafone secure cloud. We provide regular updates to firmware and system features, to ensure your cameras are secure.
- **Scalable.** Storage of footage is not limited by physical disk capacity — so you can keep it as long as your business needs it.



Secure

- **Security.** Through using our secure IoT network, the visual data is encrypted from the camera to the cloud. Data is hosted in our European data centres, so you can access to the footage you need anytime, anywhere.
- **Reliable.** Many businesses have experienced the frustration of needing video footage, only to discover a fault with the recording. Our solution alerts you in the event of hardware or connectivity failure.
- **Verifiable evidence.** Visual data is cryptographically marked, time-stamped and dated, with verification by network time protocol servers — ensuring evidential quality, without the burden of regular manual system checks. System access is password-protected and access to data and functionality can be dynamically tailored to suit your needs — making it easier to comply with data protection legislation and unlock the potential of your visual data.



Managed service

- **Smart security analytics.** Our video analytics establishes when an event is significant. You aren't overwhelmed by alerts — and can be sure that action is needed when you do get a notification.
- **Business insights.** Our solution can track and analyse assets to determine dwell time, traffic patterns and building occupancies in real time or past events.
- **Responsive.** If required our Secure Operations Centres can monitor some or all of your cameras, alerting you, the police, fire and rescue services if the need arises. We're NSI Gold accredited so doing this doesn't require further verification.
- **Future-ready.** Our solution is a secure, unified, visual data platform designed to make it easier to manage and use the footage generated by your security systems, not just today but in the future. As new technologies and techniques such as body cams and advanced analytics develop we'll be making sure that you can add them to your system should they be needed.



Complete security, from a single provider

Vodafone Digital Buildings is an end-to-end service protecting your business — anytime, anywhere.

Securing your business, the hassle-free way

We make visual data more secure, compliant and far more accessible. That means that not only are your key assets more secure, but you can see how they are put to work to be more effective for you.

Vodafone Digital Buildings is a managed service. We take responsibility for the processing of your visual data, so you have more time to use it. The service is highly adaptable and can be tailored to fit the changing requirements of your business without the need for additional or replacement equipment.

Vodafone Digital Buildings connects to your CCTV systems via Vodafone's leading IoT network. This enables us to scale your solution across multiple sites. It is compatible with legacy infrastructure — regardless of equipment types — so your staff have just one easy-to-use system to reach the data they need. Access is browser-based, so you can use any web-capable device.

Adding IoT connectivity to your CCTV systems enables you to monitor and review footage from any camera, in any location, via a single management console. That means an end to time-consuming and costly site visits to review footage. You can check out anything you need from your office — or via a smartphone or tablet, if you're out and about. Such capabilities usually require each camera to be connected via network cabling, which is expensive, and impractical for cameras in remote or hard-to-reach locations. Our solution uses Vodafone's secure IoT cellular connectivity, reducing installation times and costs.

Vodafone Digital Buildings also includes access controls, so that you can restrict access to visual data to only those employees that need it.

Intelligent analytics

Vodafone Digital Buildings doesn't just make the task of reviewing security footage easier — it can intelligently improve the protection of your critical assets.

Vodafone Digital Buildings uses data analytics to identify specified or suspicious activities and, if required, alerts you or our Secure Operations Centres. If our operators detect an incident in progress, they can request an immediate police response.

Vodafone's Secure Operations Centres are resourced by highly trained operatives — and because they're NSI Gold certified, when our agents alert one of the blue-light services, they will respond without the need for additional verification.

Vodafone Digital Buildings can also track and analyse assets to transform visual data into critical organisational information. We can determine dwell time, traffic patterns and building occupancies in real time or past events 24/7. Providing business insights, we can help you adapt your buildings and your organisation.

A better alternative

A smart and connected security system offers significant advantages when it comes to protecting property, people and places today and in the future.

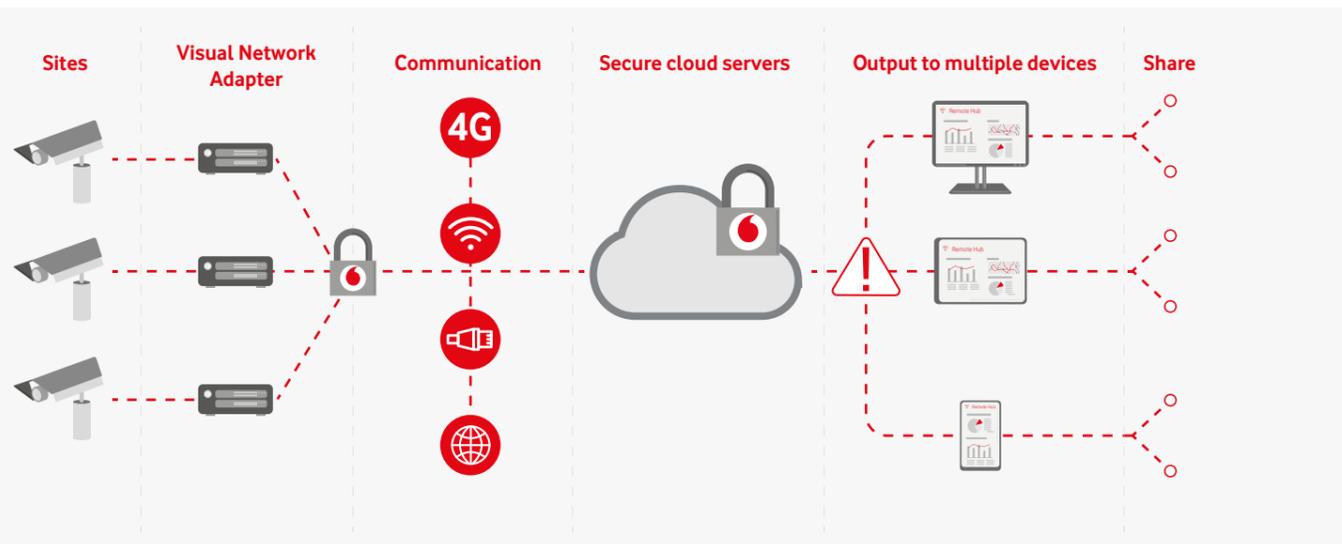
Using IoT connectivity, you can be sure your cameras will be connected wherever they're sited. And you will be alerted if a camera should fail.



How it works

Secure, flexible and all-in-one access to your CCTV footage.

Vodafone Digital Buildings is an integrated solution from a single supplier that provides comprehensive, flexible and cost-effective monitoring for your business — one service, one contact. We use our IoT connectivity, analytics and cloud computing to ensure your visual data is always available, and always secure.



Vodafone Digital Buildings can update your visual security systems in a matter of hours

1

We help you choose a security system that meets your needs

We know choosing a system to guard your assets is difficult. That's why our advisors are on hand to give you clear and simple information on use cases. And we provide easy-to-understand price plans, so you know what you're paying for.

2

We help you tailor your solution to your business

Our experts will conduct on-site surveys to establish your requirements, determining where Vodafone Digital Buildings can overcome current limitations and frustrations. Surveys can be completed in a matter of hours, meaning you avoid the time and expense involved in a major replacement project.

3

Our trials can demonstrate the power of our solutions

Because we don't need to connect to your corporate network, a Vodafone Digital Buildings trial can be installed quickly. You can choose to run a trial for 30, 60 or 90 days with a partial or complete solution — demonstrating the flexibility of our 4G connectivity and cloud services.

4

Get Vodafone Digital Buildings without waiting

Vodafone Digital Buildings has been designed to get you up and running as quickly as possible. So once we've established your exact requirements, we can rapidly deploy our solution — often in less than half a day. And because we work with existing CCTV systems, you don't have to worry about expensive hardware upgrades or connectivity issues.

Why Vodafone?

Vodafone knows what it takes to protect you and we've got the capabilities to deliver.

Unrivalled IoT experience

Vodafone has more than 1,300 dedicated IoT experts that you can rely on. We've been delivering IoT solutions to our customers for more than 20 years and have over 50 million IoT connections.

Vodafone has consistently been recognised for our IoT expertise, by clients and industry peers. We've been highly rated by leading industry analysts such as Analysys Mason and Current Analysis and we have been positioned as a leader in the Gartner Magic Quadrant for Managed Machine-to-Machine Services Worldwide for four years running.

Secure global networks you can rely on

As one of the world's largest network operators, we have deep experience in dealing with the challenges of security and protecting our operations. We operate in 26 countries across the world and much of our high-value infrastructure is sited in remote locations.

Our scale doesn't just give you the confidence that we operate wherever you do business — it means we can offer the exceptional levels of service you need. And our customers can be confident that their IoT data is secure, monitored, protected and encrypted, achieving regulatory and compliance standards. We understand how to control access to key sites and monitor comings and goings. And because we need the very best security service available, we use Vodafone Digital Buildings ourselves.

End-to-end solutions you can depend on

We partner with the world's leading connected device suppliers to offer a wide range of connected, innovative IoT solutions that take the complexity out of IoT deployment.

But even when you need a customised solution, our team of experts will ensure your business takes advantage of best practices and methodologies for IoT implementation to ensure you achieve maximum ROI.

We provide connectivity, hosting and solutions to a variety of sectors and as one of the UK's leading companies, we have the financial strength and commitment to give you the reassurance that we're here to stay.

Next steps

To find out more about how we can help you to take advantage of IoT to transform your business, visit vodafone.com/iot/security or email iot@vodafone.com

Vodafone has been named by Gartner as a **worldwide Leader** in the Magic Quadrant for Managed Machine-to-Machine (M2M) Services, Worldwide for the fourth consecutive year.¹

91% of businesses say that it is important for them to work with an end-to-end IoT provider.²



1. www.vodafone.com/business/press-release/vodafone-positioned-as-a-leader-by-gartner-in-the-magic-quadrant-for-managed-m2m-services-worldwide - 26.10.2017
2. www.vodafone.com/business/iot/the-iot-barometer-2016

vodafone.com/iot/security

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