spica

Data Centre Solutions
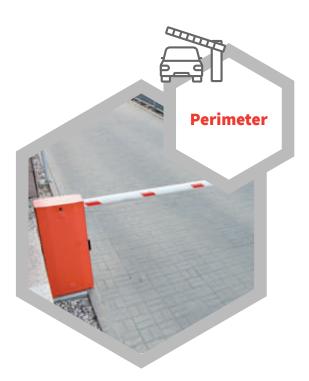
TIME⊗SPACE

Best together

Safe in the cloud

Every vertical or industry has its own special requirements, and data centres are certainly no exception. So what are the mix of requirements that make them unique?

The key factor is their core commodity – DATA. Sometimes it belongs to the data centre's owners, sometimes it belongs to customers. Sometimes it is a company's business advantages, sometimes it's their intellectual property, sometimes it's personal data, sometimes it's money – and sometimes it can be a mix of all these things in one co-located facility.

The security of a data centre needs to provide flexibility – from ease of access without compromising security, to supporting legislative demands… but most importantly it needs to provide trust.

Access control

is not really about **keeping the wrong people out** (that is actually relatively easy). The challenge is actually letting the **right people** access the **right points** at the **right time**.

Perimeter

To ensure only authorised people enter the site at a time when they are permitted to enter, **Time&Space** Access Control has the capability: vehicle access control via ANPR* or long range readers, CCTV integration, visitor management, guard-house support tools and a range of other perimeter access control capabilities.
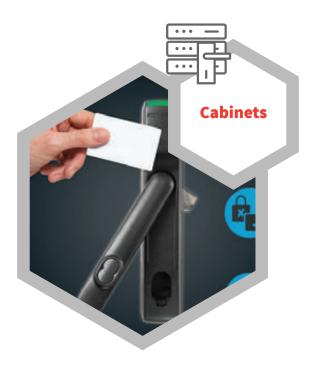
*ANPR – Automatic Number Plate Recognition – various systems exist for CCTV cameras to read car licence plates and instigate actions as a result of these.

Interior

The interior of a data centre operates as a spectrum including free-movement offices and common areas to limited-access high-security areas. It therefore needs controllable layers of access control. **Time&Space** provides this through its flexibility, supporting multiple modes of operation – card-based and multi-factor access control, advanced biometric technologies, advanced rule capabilities, people tracking, wireless and offline locks, key management and CCTV.

Services

For any data centre, the services represent a major part of the floorspace. Vital for the operation, they can also be an Achilles heel – hurt the services, hurt the data. Here **Time&Space** is also able to support strict security procedures to ensure service personnel only go where they must, do what they do and are supervised and monitored in doing it.

Server Rooms

This is the heart of the operation and needs specific security. This is usually a minimum of strong biometric authentication, but can include man-traps/airlocks or other anti-tailgating measures, occupancy monitoring and CCTV-linked access decisions. **Time&Space** offers the capability and options to ensure this last level of security is sufficient. It can also assist in ensuring fire-suppression is only safely operated once all personnel have been evacuated.

Cabinets

These are the heart of the heart of the operation; individual servers, housed in cabinets. Each cabinet is individually secured, front and back. Keys are not ideal – they can be copied, there is no audit trail and management is difficult, especially as the numbers are often beyond large.
Time&Space enables a range of innovative locking solutions based around Assa Abloy's Aperio® cabinet locks. This offers very cost-effective and low-maintenance installation, full monitoring of lock and cabinet door status (including 2-man operation if needed), and all fully-traceable and linked to alarms and CCTV.

As with any operation, you have a mix of personnel who have different roles and have different needs to access each defined area. But, they do this every day, you know them, and the control and assignment of access rights according to the defined security needs is relatively straightforward.

Employees

Customers /Visitors

These are generally the people whose data is at the core of the centre. They need periodic but easy access to their servers. Just as a bank customer appreciates the security they must endure to access their safe-deposit box, these people appreciate the security levels that are applied to them. But, they are not your employees - they may change regularly and the data centre must manage them with efficiency and a customer-facing approach. Customers are also quite (or even very) careful about who they employ for these tasks, but the data centre

Data centre are complex systems - IT hardware, infrastructure and software – managed by the data centre and also customers (see above). But there are also support systems – cooling, power, etc. – which need maintenance and service. The staff for these are sometimes less controlled. The data centre must be most careful about who these people are and how they are monitored. This area needs careful thought, planning and implementation by the data centre.

Service Personnel

So, you ask, this is all available from a single source? Unfortunately no. However, Spica has over 25 years of experience as a manufacturer, developer and a systems integrator. As a result **Time&Space**, backed by the deep consultative experience of our team and our numerous alliances with industry-leading technology suppliers, can provide the basis for a seamlessly-integrated system which delivers what you require - your customer's data, secured.

For data centre security, more than most other application, the devil is in the detail – come speak to us about the detail.