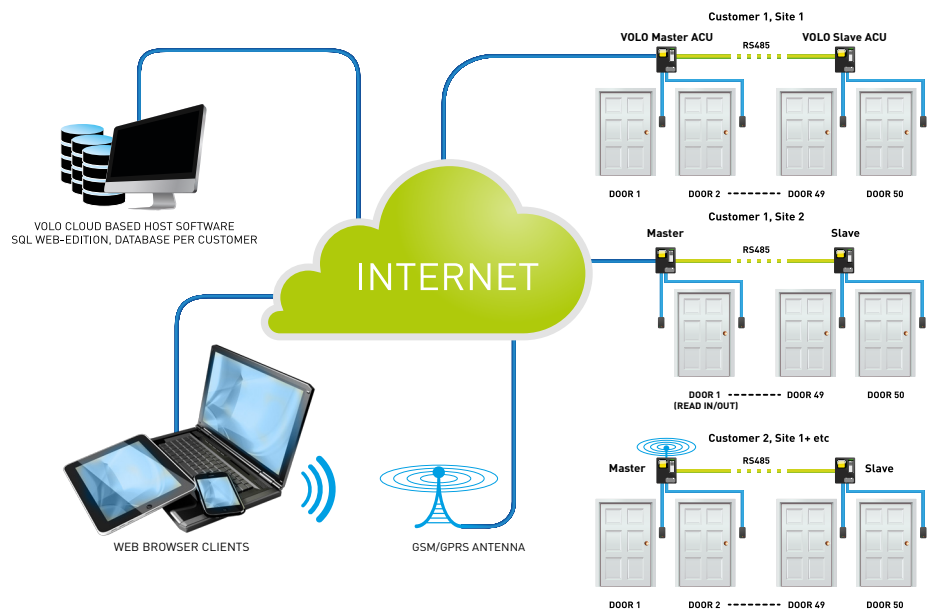# VOLO APPLICATIONS

An introduction to VOLO

VOLO is a flexible and powerful cloud based access control solution. All aspects of VOLO are UK and Ireland based in terms of design, manufacture, support and hosting. This system architecture removes the need for the more traditional on-site IT hardware such as PCs and servers, or any other specialist or dedicated computer equipment. The 'cloud' delivers a number of commercial and practical benefits including reduced hardware investment, less infrastructure, scalable expansion, remote system maintenance, solution management, integration and centralisation.

What makes up a VOLO solution?

VOLO is made up of 3 parts:

- Access Control Units (ACUs) provide the hardware interface for each site/premises

- VOLO cloud allows installers and end-users to log on from any standard web browser (e.g. a Smartphone, tablet or PC) to configure, administer and manage the access control solution

- VOLO Licences enable on-going connectivity and access to the ACUs via either an Ethernet or GSM/GPRS connection

VOLO CLOUD BASED HOST SOFTWARE
SQL WEB-EDITION, DATABASE PER CUSTOMER

INTERNET

WEB BROWSER CLIENTS

GSM/GPRS ANTENNA

Customer 1, Site 1
VOLO Master ACU   RS485   VOLO Slave ACU
DOOR 1   DOOR 2   DOOR 49   DOOR 50

Customer 1, Site 2
Master   RS485   Slave
DOOR 1   DOOR 49   DOOR 50
(READ IN/OUT)

Customer 2, Site 1+ etc
Master   RS485   Slave
DOOR 1   DOOR 2   DOOR 49   DOOR 50

Current VOLO Applications

VOLO is currently deployed across numerous applications and across a multiple of vertical markets. By providing a secure platform for data storage via our Amazon Web Services, cloud provision users are in turn benefiting from reduced costs and enhanced features and functions whilst combating the topical issue of server storage safety.

Current VOLO Applications (Continued)

The applications below are just a few examples of how VOLO can be/has been applied to benefit organisations:

HOUSING MARKETS

PRIVATE MANAGEMENT COMPANY - CLIPPERS QUAY

Clippers Quay's wish was to control 16 blocks located in the Docklands. However, the main office was not near the blocks and they needed control and management from this position. On top of this there was no communal network provision for the blocks. VOLO was deployed utilising the GSM/GPRS connection mode to allow the solution to meet the following requirements:

- Remote control/monitoring of usage for the apartment blocks
- Resident credential management without the need for site visits or engineering input
- Full audit reports of system usage and event management along with alarm/event notification emails for abnormal events
- Offsite visibility of the solution along with full management via a standard web browser from anywhere
- Future proof system on which they could expand to add further sites and users in the future

LOCAL AUTHORITY ORGANISATION - WIGAN & LEIGH HOMES

Wigan & Leigh Homes wished for a uniformed system which allowed them to have additional features and benefits, as well as centralised control. They needed this within a cost that was manageable. By using VOLO they can:

- Retain existing access control readers and credentials to help manage and minimise cost
- Have full confidence in the security levels offered to protect their user and site data (Amazon Web Services Cloud Provision)
- Utilise additional features such as GSM/GPRS Monitoring and Reporting to allow them to know how well the control units are performing in different areas around the borough and to offer peace of mind of optimum uptime and stability of the solution
- Proactively plan interventions and turn their services from a reactive to a proactive service in terms of events. This is achieved by making use of our full reporting suite

LOGISTICS

DISTRIBUTION OUTLETS – YODEL

Yodel value the relationship they have with VOLO and enjoy working with them as a manufacturer. They also have a great relationship with Gunnebo as our approved installation partner. They had a list of requirements which they shared with VOLO and Gunnebo, who, in the meantime listened to the challenges they were facing and offered a bespoke solution. They have since met on a regular basis to discuss the solutions' progress and the new challenges facing Yodel in their business. VOLO's technology allows the flexibility Yodel are after and allows for movement in terms of product development. As they did not want to work around a set system with closed protocols and network restrictions VOLO is perfectly suited to their needs. Yodel currently have a total of 18 sites with more to go. The use of VOLO means:

- A future proof system that can grow with Yodel and adapt to their ever changing needs
- Centralised control of depots from a main security office at all times
- Live time reporting on what is happening with depots across the UK and also event/alarm notification
- Depot Managers can issue access credentials immediately (as there are lots of temporary drivers who need new credentials in a timely manner)
- Alarm notification of events e.g. if a driver tries to access whereby they do not have access rights
- A notification at both depot and head office level if secure areas are left open (dual recording, which the cloud is ideal for)
- The ability to retain existing access control credentials and readers to keep cost of refurbishment down

Current VOLO Applications (Continued)

The applications below are just a few examples of how VOLO can be/has been applied to benefit organisations:

LOCAL AUTHORITY

CYCLE STORES – NOTTINGHAM CITY COUNCIL

Nottingham City Council has introduced an initiative focusing on getting residents to switch to cycling as opposed to driving. This in turn means that they require cyclists to be able to secure their cycles with peace of mind. So, in conjunction with VOLO's partner Oracle Surveillance, a secure storage area has been created which requires a swipe card to gain access. VOLO ensured that the system could work in conjunction with the city's ITSO card scheme that was already in operation for other aspects of the city, providing a one card solution and assisting with the management of costs. VOLO has been installed with the below benefits:

- Worked with ITSO card scheme to offer a one card solution for residents, allowing the city to effectively manage costs

- Ensures that when a card is swiped the time in and out of the area is logged

- Ensures that the correct user fee is charged for the time the bike stored

- Provided solutions to environmental issues – although there is no network, VOLO connects via the GSM/GPRS connection. In addition to this Oracle Surveillance have adapted VOLO to work via Solar Power to offer the city a further move forward in their environmental drive

CHARITABLE ORGANISATIONS

ST JOHN'S AMBULANCE

St John's Ambulance required centralised control of their 20 remote community centres in the North West Region. They needed to enforce a better control of usage of their remote centres to ensure the relevant personnel were gaining access on the allocated days and times per week.

VOLO enabled them to have:

- Remote issuance of access codes for each site

- Remote control of the flow of users to ensure they were only using the centres at relevant times (reduce subletting, stopping abuse of overusing times)

- Full audit trail of users of when they accessed the relevant centres

- Event/Alarm notifications of users trying to gain access when they were not allocated to do so

INNOVATIVE PROJECTS

POD WORKS - ART SECURITY

Pod Works operates a growing network of work stations which are expanding across Central London and other major UK cities. They are working on the refurbishment of 2000 London telephone boxes, turning them into micro offices. Each contains a desk, printer, scanner, Wi-Fi, ability to undertake Voice over IP (VoIP) calls, Skype calls and even the chance to enjoy a coffee. The idea is you can walk in, plug in your laptop and work. VOLO has been chosen for the project as it can link all of the sites together and offer the necessary centralised control and monitoring:

- An offsite operator can manage each members' portfolio to allow them access to the pods

- The pods are fitted with CCTV for visual verification of the users and this is linked with VOLO to only become active when a valid user code is entered

- VOLO integrates with the online member package to allow a 24hour and automated enrolment process for the issuing of valid access pin numbers. This is achieved via the VOLO open API

- Memberships are issued on a time allocation basis so VOLO enables Pod Works to log how long people stay in the pods and they can be notified if they are using over their allocated time slot

- VOLO also offers full user reports in terms of amount of visits, which sites have been used and how long a user is in the pods for. This allows Pod Works to build a very clear understanding of how their members are using the micro offices

Current VOLO Applications (Continued)

The applications below are just a few examples of how VOLO can be/has been applied to benefit organisations:

COMMERCIAL

OFFICES AND CAR FACTORIES

Remote and satellite sites don't always have network infrastructure available for an access control solution or there could be a need for their head office to control and monitor the access to the remote offices/locations. VOLO can be used in this instance to:

- Remotely control outlying buildings by means of remote door access/unlock facility
- Remotely issue a credential
- Monitor the system status, performance and usage
- Integrate with other facilities such as Intruder alarm, CCTV and Boiler and Flood monitoring systems

HEALTH & EDUCATION

A big focus in this sector is the desire to achieve a uniform system and gain centralised control without the need to replace all existing hardware and credentials, whilst managing cost.

Application of VOLO enables organisations to:

- Retain existing hardware and credentials by opening a full open protocol for readers and credentials
- Gain 24 hour control of community centres, pharmacies etc. which rely on constant management. This in turn helps to manage the manpower costs required for this facility
- Allow doors to run on free access from 9a.m. - 5 p.m. but after that they are controlled for the safety of staff. This allows simple access for all users of the system
- Monitor who has accessed the properties and have this in both an on screen display and an Excel format report

SCHOOLS

VOLO have assisted schools where there is no existing network infrastructure and the cost of providing this is prohibitive. Therefore, they have faced challenges when it comes to securing perimeter gates. VOLO is now utilised to:

- Improve the security of the premises by sending an email notification if gate/door is left open or unlocked. This means that staff can be made aware of the perimeter of the school at the desired times
- By utilising VOLO's GSM/GPRS connection mode, the benefits of a networked solution are achieved without the need or cost of a network
- Remote and automated control of which contractors are on site during permitted times. This removes the need to go to site to allow access or to programme credentials. The expiry date profile is also activated to only allow contractors access for the allocated timescale
- Staff access made simpler and cheaper as no longer a need for new keys to be cut for padlocks/manual locks
- Full reporting capabilities to offer the schools a clear understanding of who is using what parts of the school
- Future capabilities to integrate cashless functions such as reprographic suites, library and vending opportunities

Current VOLO Applications (Continued)

The applications below are just a few examples of how VOLO can be/has been applied to benefit organisations:

KEY HOLDING SERVICE

As our need to reach more customers grows it isn't always possible to recruit the relevant personnel due to budgets and available resource. So customers are now utilising technology types such as VOLO to access greater opportunities such as key holding services. By undertaking this VOLO can:

- Offer remote door open from a central call centre to offer both a first unlock and last lock service
- The lock and unlock service is also being integrated with other facilities such as deactivation and activation of intruder alarms
- Full audit trail of lock and unlock event being undertaken
- Reduced labour costs as any number of buildings can be controlled from one central position
- Automated door lock and unlock schedule have, in certain scenarios, been implemented
- Email notification of lock/unlock activation plus conformation of first and last user of the solution

MAINTENANCE

MAINTENANCE BENEFITS OF VOLO

- Response times are reduced as vast majority of issues can be fixed remotely from anywhere at anytime
- Issues can be diagnosed offsite using the system, allowing engineers to go to site with the correct parts for hardware issues. This reduces the need for return visits when parts have been identified
- Real time event reporting
- Email notification of system status and abnormal events
- Installer dashboard to allow overview of solution performance and site status
- GSM/GPRS signal reporting and performance evaluation
- Communication logs to offer information on how the units are/have been connected in the past
- Standard web access to all data 24/7 365 days a year via any web browser
- And much more......

If you have any questions then please don't hesitate to get in touch with Dean Kernot at **info@kernotmanagement.co.uk** or on **07920 725269**.

VOLO

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