ELATEC
RFID Systems

CASE STUDY

ONE READER, EVERY CREDENTIAL



HOW GROSVENOR TECHNOLOGY BUILT UNIVERSAL CREDENTIAL COMPATIBILITY INTO ITS TIME & ATTENDANCE CLOCKS

Grosvenor Technology manufactures time & attendance clocks for customers using a wide range of existing badge technologies. The ELATEC TWN4 MultiTech 3 reader allows Grosvenor to support virtually any card-based or mobile credential its customers are using today and adapt to emerging technologies in the future.

THE CHALLENGE: SUPPORTING EVERY CUSTOMER'S CREDENTIAL ENVIRONMENT

Every day, millions of employees around the world clock in for work using workforce management systems that track attendance to the minute. In warehouses, factories, hospitals, corporate campuses and retail locations, many workers "tap in" to a time clock using an RFID badge, key fob or smartphone credential. Often, this is the same credential they use for building entry.

> ELATEC HAS BEEN GROSVENOR'S TRUSTED PARTNER FOR OVER TEN YEARS, AND THEIR READER TECHNOLOGY IS EMBEDDED ACROSS OUR PRODUCT PORTFOLIO.

David Hembery
Senior Product Manager, Grosvenor Technology



Grosvenor TECHNOLOGY

For Grosvenor Technology, which manufactures time & attendance hardware, that simple tap hides a complicated technical reality. Headquartered in the UK, Grosvenor serves a global customer base and processes more than 19 million clock transactions monthly.

Their business depends on smooth integration with clients' existing credential systems. With more than 8,000 clients worldwide across many different industries, that means supporting a diverse range of card-based and mobile credentials.

Supporting that diversity the traditional way would mean offering different reader variants for different credential technologies, multiplying product codes, complicating inventory, and making deployments harder for Grosvenor and its customers. If customers changed credential technologies, that might mean an expensive rip-and-replace project.

more than 19M
monthly clock transactions processes Grosvenor

Grosvenor needed a solution that would simplify inventory and enable post-deployment updates as customers migrated to new card technologies, added higher-security credentials or expanded the use of mobile credentials.

REQUIREMENTS

To support their broad customer base, the reader had to work across both common RFID frequency bands: 125 kHz for legacy proximity cards and 13.56 MHz for smart card technologies and NFC-based mobile technologies. It also needed to support the credential types most often encountered in enterprise, industrial and public-sector environments, including MIFARE/DESFire, HID iCLASS, SEOS, AWID, Indala and Kantech as well as higher-security technologies such as HID iCLASS PAC or SEOS.

125 kHz (low frequency)
for legacy proximity cards

+

13.56 MHz (high frequency)
for smart card technologies and NFC-based mobile technologies



> THE INNATE SYNERGY OF ELATEC READERS INSIDE OUR TIMECLOCKS ENSURES OUR CUSTOMERS ACROSS THE GLOBE HAVE AN OPTIMALLY PRODUCTIVE EXPERIENCE.

Simon Poole-Anderson
Technology Director, Grosvenor Technology

Additionally, they needed a way to update time-clocks already installed in the field without replacing hardware or sending technicians to every site. That meant supporting remote configuration and firmware updates, along with the ability to preload configuration files during production for known customer environments.



TWN4 MULTITECH 3 (P AND PI VARIANTS)

A powerful multi-technology reader supporting more than 60 RFID/NFC technologies across both low frequency and high frequency bands. With compatibility for 100+ mobile and physical credential formats, the TWN4 MultiTech 3 provides a flexible foundation for secure user identification and authentication.

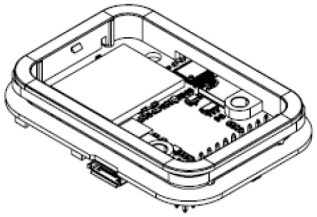


P variant

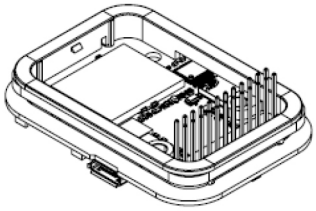
Extends support for additional proximity technologies commonly used in 125 kHz credential environments.

PI variant

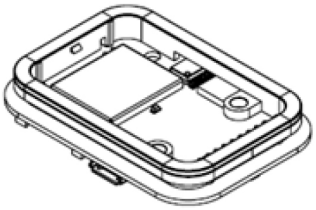
Combines expanded proximity support with additional iCLASS capabilities for applications requiring broader compatibility with advanced credential technologies.



C0 hardware configuration



C1 hardware configuration



C2 hardware configuration

> THAT COMBINATION OF FLEXIBILITY AND FUTURE-PROOFING IS CENTRAL TO THE VALUE WE OFFER, AND ELATEC'S RELIABILITY IS A MAJOR ENABLER.

David Hembery
Senior Product Manager, Grosvenor Technology



SOLUTION

To find the right solution, Grosvenor turned to ELATEC. The result is a simpler, more future-ready approach to time & attendance: one trusted reader platform, broad credential compatibility and the ability to keep pace as badge technologies evolve.

Grosvenor Technology's relationship with ELATEC began in 2017, when the two companies worked together to replace a wide range of reader SKUs with a single multi-technology reader. This simplified ordering and inventory management for Grosvenor and its customers. Over the years, ELATEC has become a trusted partner and provider, thanks to its powerful and flexible reader technology, expertise in user authentication and commitment to long-term customer support.

> IT HAS BEEN A PLEASURE TO WORK WITH THE GROSVENOR TECHNOLOGY TEAM OVER THE YEARS. WE HAVE BUILT A STRONG PARTNERSHIP AND CONTINUE TO COLLABORATE CLOSELY ON READER SOLUTIONS FOR FUTURE TIME & ATTENDANCE PROJECTS.

Mike Shephard
Sales Consultant, ELATEC

BENEFITS

+ **Broad credential compatibility** across 125 kHz and 13.56 MHz technologies, including RFID badges, key fobs and NFC-enabled mobile credentials
+ **Seamless integration** into Grosvenor's time & attendance hardware
+ **Future-ready support** for new credential technologies through remote configuration and firmware updates
+ **Simplified deployment and maintenance** with fewer reader configurations, fewer product codes and minimal disruption for customers
+ **Powerful software development kit** for flexible customization, configuration and integration

The TWN4 MultiTech 3 reader provided the right fit for Grosvenor's time & attendance hardware. Embedded into the company's flagship GT4, GT8 and GT10 time-clocks, the reader supports both 125 kHz and 13.56 MHz card-based and mobile credential technologies, including widely used formats such as MIFARE/DES-Fire, HID iCLASS, SEOS, AWID, Indala, Kantech, NFC and others. Grosvenor standardized on the TWN4 MultiTech 3 with P and PI variants, giving the company one common reader platform that can be configured for different customer environments.



nearly 10.000
timeclocks equipped with ELATEC reader technology were supplied by Grosvenor since the partnership began

The solution also gives Grosvenor flexibility long after installation. Reader configuration files can be pre-loaded during production for known customer environments or updated later in the field as requirements change. Firmware and configuration updates can be delivered remotely, allowing deployed timeclocks to support new badge technologies without hardware replacement, technician visits or disruptive re-badging projects. Since the partnership began, Grosvenor has supplied nearly 10,000 timeclocks equipped with ELATEC reader technology.

ELATEC enables user authentication and identification solutions worldwide. Together with its global partners, the company develops innovative and future-proof access systems. Combining pioneering universal readers, advanced authentication software, and world-class service and support, ELATEC boosts secure, flexible access management—from physical access control to digital access management, machine authentication, secure printing, EV charging, and more. ELATEC's comprehensive portfolio of multi-technology readers supports more than 60 transponder technologies (including LF and HF RFID, NFC, and BLE) and over 100 physical and mobile credentials.

The readers are remotely configurable and updatable, ensuring seamless interoperability and adaptability to evolving market needs. ELATEC collaborates with OEMs, integrators, and organizations to design customized access solutions that enhance security, improve user convenience, and simplify management. Founded in 1988 and headquartered in Munich, Germany, ELATEC is represented at 22 locations worldwide.
ELATEC is a part of Allegion.

→ **For more information, visit elatec.com.**

HOW YOU BENEFIT FROM ELATEC READERS

100+

Versatile

Support of 100+ physical and mobile credentials

60+

Flexible

Compatible with over 60 transponder technologies

110+

International

Certified in up to 110 countries

GET IN TOUCH

HQ / Europe
Puchheim, Germany
+ 49 89 552 9961 0
info.rfid.elatec@allegion.com

Americas
Palm City, Florida, USA
+ 1 772 210 2263
info.elatecus@allegion.com

Middle East
Dubai, United Arab Emirates
+ 971 50 932 2691
info.elatec.ue@allegion.com

Asia Pacific
Shaw Centre, Singapore
+ 65 9670 43 48
apac.info.elatec@allegion.com

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