Access Control made easy

For the owners and facility managers of a prestigious multinational company office building in Singapore, safety and security is a top priority. Honeywell Building Solutions was tasked with providing an access control system that would provide maximum security across the site. Honeywell provided a flexible and highly secure solution using the IdentIPoint™ Intelligent Smartcard System.
THE CHALLENGE
The customer’s facility already had a conventional access control system by Honeywell and was in the process of being refurbished and restructured. Being a multi-storey building, the customer’s staff was accommodated on some of the floors while the rest of the premises were occupied by other tenants. The restructuring necessitated an upgrade of the existing access control system. A study of the layout and distribution of the new access points revealed that redeploying the legacy access control system across the 35 access points that were identified would be expensive, time-consuming and complicated due to the additional wiring needed for it.

HONEYWELL SOLUTION
Selected for Approach, Local Presence and Experience
Honeywell’s new IdentIPoint™ Intelligent Smartcard System is a paradigm shift in access control solutions and was chosen by the customer because of the Flexibility and Ease of Installation offered by it. IdentIPoint takes technology to the edge of the Ethernet network by making the reader “intelligent,” thus eliminating the need for a traditional access controller. It makes this possible by utilizing the “smarts” in the smart card. The smart card credential in the IdentIPoint system holds information about cardholders, their access rights, digital certificate of authentication and their biometric template, if available.

IdentIPoint takes verification to the next level because it relies on a digital certificate of authenticity to validate users and verify if they are authorized for a door at a particular time. The decision is local to the reader and the card. The transaction is then sent securely over the network to Honeywell’s award-winning access control software, Enterprise Buildings Integrator (EBI).

Other key considerations were:
- Wired/Wireless TCP/IP connectivity over the traditional home run wiring
- Power over Ethernet
- Finger Biometric support
- MIFARE Classic and DESFire support
- DHCP Client support which is easier for the IT team to manage than static IP
- Indoor and Outdoor access control (IP65 rated Basic reader)
- UL/CE/FCC compliant
- Ability to add Standalone Readers (useful for remote doors)
- A large event buffer per reader (helpful in case the network goes down)
- High level of communication security between card and reader, reader and EBI and reader and IOM
- Co-existence with other systems such as life safety and HVAC controls

Safe, Secure and Sustainable Solution
Honeywell provided the customer with the IdentIPoint™ Intelligent Smartcard System that brings new levels of modularity, security, flexibility, and above all, simplicity to access control installations. The result is a more secure, flexible and scalable security system that is cost effective in terms of deployment and maintenance. IdentIPoint hardware installation at the new locations was easy due to the availability of Ethernet ports in their vicinity with Power-over-Ethernet (PoE) capability for the readers. This minimized the labour and material used during installation. Moreover, since IdentIPoint is Ethernet-friendly, the solution also found favour with the customer’s IT department.

BUSINESS BENEFITS
- The Reader and the Controller together comprise a single device, thus precluding the need for separate multi-door controllers controlling multiple readers. The readers sit directly on the Ethernet network and communicate with the host server which results in a flatter architecture and significant savings.
- Since each reader has its own controller built inside it, the failure of one single reader does not affect the performance of any other reader in the system leading to an improved uptime.
- Considerable savings were also achieved as a result of minimal cabling involved; a single CAT5 Ethernet cable connected to the reader is the only cabling required since IdentIPoint readers also support Power-over-Ethernet (PoE) which even does away with the need for separate wiring to supply power to readers.
- IdentIPoint is easy to install, supports PDA tools, and enables auto-discovery of readers in EBI as well as point building thus leading to savings on labour and material.

The customer’s Facilities Manager, pleased with the end-to-end security solution provided by Honeywell, had this to say: “I am particularly impressed with the ease of install and flexibility that the solution brought to our facility.”

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