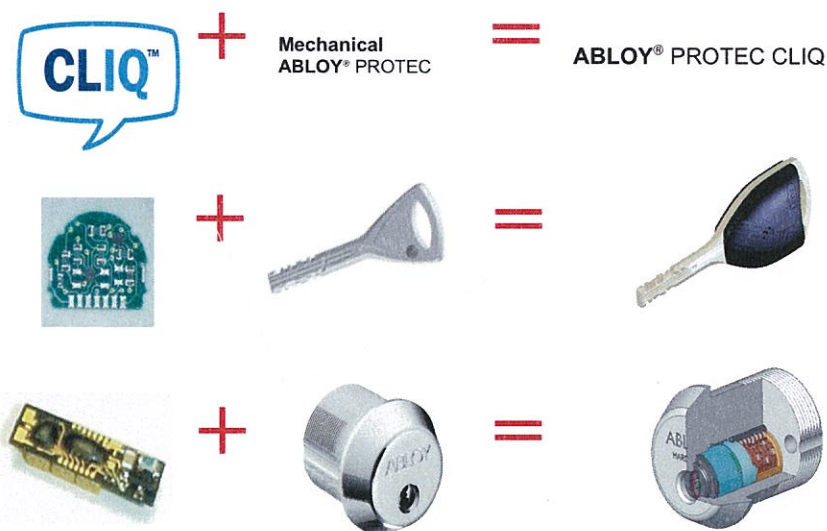


MERLION AWARDS

- ENTRY SUBMISSION FOR ACCESS CONTROL CATEGORY

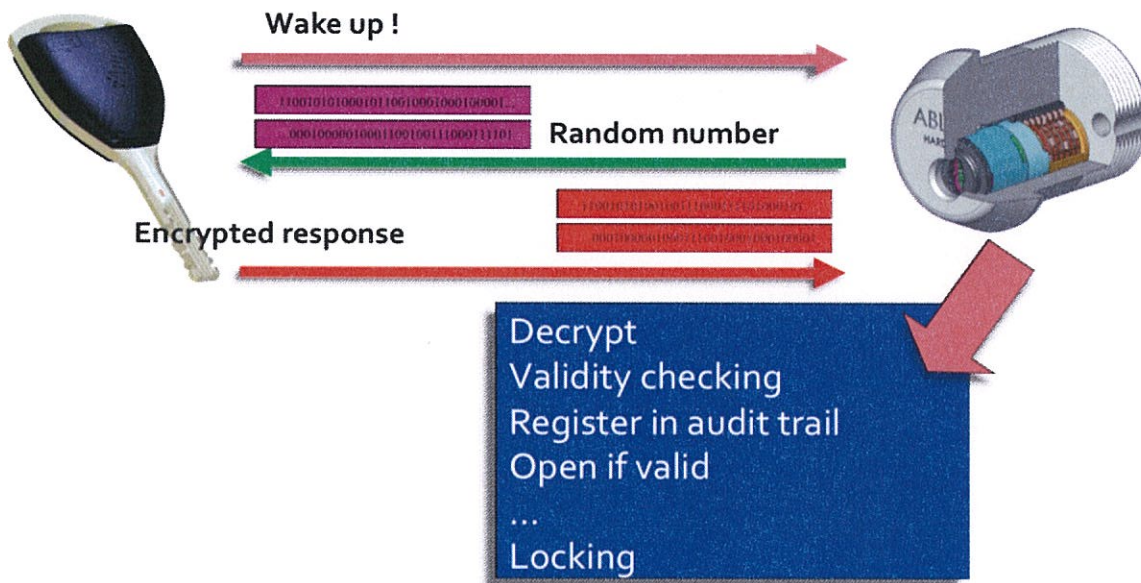
1. **PRODUCT NAME :**
ABLOY PROTEC CLIQ REMOTE
2. **COMPANY NAME :**
ASSA ABLOY Singapore Pte Ltd
- Abloy South East Asia Business Unit
3. **BOOTH NUMBER : E11**
4. **PRODUCT POTENTIAL USE AND PRINCIPLES OF OPERATIONS**

ABLOY PROTEC CLIQ REMOTE is a time saving and cost effective solution for demanding applications in the field of high security. It is a hybrid system in which electronics are integrated with the unique, high security ABLOY PROTEC mechanical disc locking cylinders and keys. These locking cylinders do not require batteries to be installed, hence reducing maintenance issues. With CLIQ technology and its strong encryption, we are able to attain mechanical security combined with electronic security for patent protected keys.



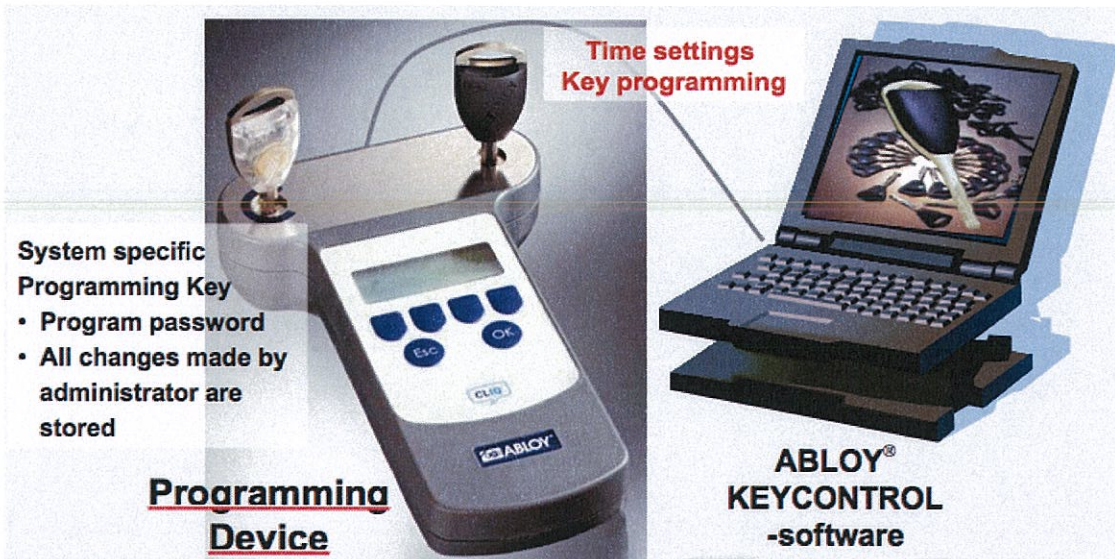
To further enhance the effective control of the electronic CLIQ keys, access rights and time settings of these keys can be managed over the web to geographically spread areas. These rights and settings can be transmitted via REMOTE programming devices, known as PDs, which are available as a wall-mounted unit or as a mobile unit.

The basic principle of operation is as follows. When the CLIQ key is inserted into a CLIQ cylinder, it transfers energy from the battery in the CLIQ key to activate communication between key and cylinder. This authenticates if the CLIQ key is authorized to operate the CLIQ cylinder via 112 DES encryption techniques. Meanwhile, the quartz clock in CLIQ key stamps its user ID, time and date onto the memory chip of CLIQ cylinder and vice versa the CLIQ cylinder stamps its ID onto the CLIQ key. This provides a full proof audit trail information on both CLIQ key (to know where the key has been to) and CLIQ cylinder (to know which key(s) has been inserted into this cylinder).



CLIQ keys are programmed using the ABLOY CLIQ Web Manager (CWM) software via the computer connected to a programming device, with a wired PD or remotely through REMOTE PDs.

ABLOY CWM is a web application software that allows administrators/users to program, schedule, manage key distribution to users and view audit trails. Access to the application software is controlled with password authentication from a system specific administrator key via a wired PD. Both ABLOY CWM and ABLOY Remote Server are hosted servers, providing a secure platform on which the Web Management Client resides, therefore access from anywhere in the world is possible utilizing secure encryption via the internet, hence, enabling administrators to remotely provide access rights and retrieve audit trails. There is also a module that allows for tracking of keys assigned which replaces the manual tracking of keys using a logbook.



System specific Programming Key

- Program password
- All changes made by administrator are stored

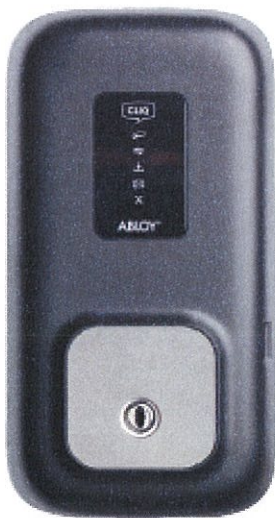
Programming Device

Time settings
Key programming

ABLOY® KEYCONTROL -software

Changes to access rights for CLIQ keys in remote locations can be updated to CWM SQL database as well as CLIQ Remote Server using mutual authentication to create a https:// session, via REMOTE PDs. These updates are stored onto ABLOY Remote Server SQL database that communicates with ABLOY CWM to display on-screen information.

Email alerts can be set for new schedules notifying users to update their CLIQ keys at the nearest Wall PD or Mobile PD.



ABLOY® NQ421 WallPD

- A wall mounted key programming unit.
- Ethernet connection.
- Power through 12 - 24 V adapter or PoE (Power over Ethernet).
- Relating to a particular locking system.

ABLOY® NQ422 MobilePD

- A personal programming unit connected to mobile phone with Bluetooth.
- Standard 4 x AAA battery power.





With the ability of granting of access rights and control by an administrator remotely to an user anywhere in the world, the possibilities and flexibility of this product are multifaceted; with benefits for management, operational staff, contractors, administrators, end-users, security managers. Refer to attached product brochure for more details.

5. JUDGING CRITERIA

The ABLOY PROTEC CLIQ REMOTE is the very latest in user-friendly, web-based security management. Once a system is created for a customer, basically any door, box, enclosure or equipment which requires a lock can have its access control to its usage greatly enhanced with a simple installation of an ABLOY PROTEC CLIQ locking cylinder, with access rights programmed onto a CLIQ key via programming devices, either locally or remotely.

CLIQ REMOTE is designed for large master key suites and / or remote sites, enabling the commissioning, programming and full administration of security management centrally via web-based software, often eliminating the need to service locks on site. The software, which automates key security, allows for additional data, such as valid times and authorisations, to be written to CLIQ keys remotely and automatically updates and records audit trails.

Some of the key benefits to users are:

- Ability to hand out keys to distant employees, especially in emergency situations, by administrators from the comfort of their desktop
- Less administrative work and work stations
- Employers can check daily from audit trail archives whether their subcontractors have been to agreed sites
- Reduction in the number of keys issued and managed, with increased responsibility of key holders since key is tagged to their names
- The technology is built to pre-empt future changes in operations and gives flexibility to change access rights to key holders
- Lost or stolen keys can be easily removed from the system

In conclusion, this IFSEC 2011 Award Winning Product has been used in security solutions and varied applications for hospitals, schools & universities, telecommunications, water & electricity industries, transportation and military.

