



## GENERAL FEATURES

▶ **Central system component**

The System Control Unit serves as the nucleus of every Hanscan system

▶ **System software**

Hanscan's MABAS management software resides on the SCU

▶ **Secure, central data repository**

All core data is managed and stored in a completely secure environment where all data is encrypted

▶ **No stored biometric data**

There is never any biometric data stored on the SCU that could ever be recreated to capture a user's identity.

## DESCRIPTION

Hanscan's solutions are delivered standard with a secure System Control Unit (SCU) that serves as the central brain of every Biocryptology® System. The SCU is a server containing dedicated hardware and all of the required MABAS management software for the entire system. It contains the data repository, storing all registered user data as well as all of the events that have occurred at any of the terminals connected to the network.

Any transaction generated by a Hanscan terminal is authenticated through a System Control Unit, excluding occasions where access controls and time and attendance terminals are in the offline mode, where the authentication then takes place in the terminal itself.

The encryption process within the SCU is not executed by software, therefore preventing access to the file encryption keys. Instead, the System Control Unit encrypts information via an electronic encryption system, avoiding the storage of a security key and making the data unreadable to anyone, including Hanscan. Every bit of encrypted data is completely different from all other data in the system each time it is encrypted.

## ADDITIONAL FACTS

- ▶ The Hanscan systems installed in different locations can be easily connected through the Internet.
- ▶ Using a standard category 5 or 6 cable, the server can be connected with a virtually unlimited number of access control terminals and without the need to install a new network (where one already exists).
- ▶ Also, wireless connections can be used to connect terminals to the System Control Unit.
- ▶ This flexibility allows the System Control Unit to be used as the pivot of a global system:
  - ▶ Using a hotel chain as an example, this system allows a guest to register through the System Control Unit at any of the hotel's properties, with a travel agency or any other affiliated third-party. Once a guest has been correctly identified, they may make the entire booking process automatically, so when the guest arrives to the hotel, they are able to go directly to a designated guest room.
  - ▶ If an employee requires privileges to access restricted areas in other properties of any multi-location enterprise, the administrator is able to remotely configure all employee, visitor, supplier, etc. privileges in order to provide all time (temporary, between certain hours or days of week, etc.) and/or security level based access for any/all other enterprise properties.

## SAFETY FEATURES

- ▶ All data stored on the System Control Unit and all network traffic is encrypted at all times, including all biometric data and any other personal details of enrolled users.
- ▶ In the event of an attack and depending on the type, the SCU can be programmed to respond with a number of predetermined functions, such as system shut down, alarm notifications, etc.
- ▶ All Hanscan biometric terminals and the System Control Unit employ digital signature mechanisms that prevent the replacement of any device of the system (mutual device recognition and authentication).
- ▶ The encryption performed in the System Control Unit is hardware-based in order to prevent access to the encryption keys by software attacks. The System Control Unit encrypts information via this hardware-based encryption system, avoiding the storage of the security keys set in any software device such as hard disks.
- ▶ If needed, two SCU's are able to be installed in parallel for redundancy, they can also use a RAID system and if necessary, a complex backup system allows completely secure recovery of data.
- ▶ The SCU, through the encryption board, always ciphers the data.

## INTEGRATION FEATURES

- ▶ The client server is able to request data from the Hanscan server. So, if integration by other software is desired with our MABAS software, it can be done simply by using the Hanscan API.
- ▶ Any previously installed client server can be connected to the System Control Unit. The Hanscan Access Control System and the Time and Attendance System can be integrated with third parties through Web Services or any other traditional means of integration. For this purpose, Hanscan System Control Unit supports most of the common procedures, such as AES, RSA and X.509 certificates in terms of standard

The following are the standard System Control Unit servers and their technical specifications offered by Hanscan:



## 19" RACK VERSION

- Processor: Intel Xeon QUAD E5504
- Memory: 4 GB
- Hard disk: 160 GB
- Backup System: Mirror mechanism and/or RAID
- Linux: UBUNTU
- Software Environment: Java JEE v6
- Database Management System: POSTGRE SQL v8.4.1



## TOWER VERSION

- Processor: Intel Atom D25
- Memory: 2 GB DDR2
- Hard Disk: 250 GB
- Backup System: Mirror mechanism and/or RAID
- Linux: UBUNTU
- Software Environment: Java JEE v6
- Database Management System: POSTGRE SQL v8.4.1



## MINI VERSION

- Processor: Intel Atom D525
- Memory: 2 GB DDR2
- Hard Disk: 320 GB
- Backup System: Mirror mechanism and/or RAID
- Linux: UBUNTU
- Software Environment: Java JEE v6
- Database Management System: POSTGRE SQL v8.4.1

## VIRTUAL VERSION

- Processor: Depends on the client
- Memory: Depends on the client
- Hard Disk: Depends on the client
- Backup system: Depends on the client
- Linux: UBUNTU
- Virtual engine: VMWare Workstation
- Software Environment: Java JEE v6
- Database Management System: POSTGRE SQL v8.4.1