

## Enhanced cash depositor functionality

versatile, highly ergonomic with minimal staff training needs, using touch screen and simplified menus.

## Embedded communication agent

to CMN System continuously synchronizing data, available to CashPartner™ users.

## Multiple access roles

for Depositors, Shift Supervisors and Armored Courier service are implemented as per administrator set-up in cloud based CMN system.

## Unlimited virtual smart safes

for multiple merchants access, in the same single physical safe, supported by a single bank and armored courier service.

## Multivendor features and security options

for the Cash Smart Safe, applied as per administrator profiling in CMN System, via CashPartner™.

## Secure application and data comm

fulfilling banking industry standards for cash handling systems.



## Role-based users ecosystem

CashCluster is role-based, recognizing different user roles with distinct responsibilities. It is the “**depositor**” with sole functionality the cash deposits. The “**cashier**” who may also execute withdrawals, subject to the established device and merchant safety limits. Prior two roles may only execute financial transaction, provided that Merchant “**Supervisor**” has opened a “**shift**”. Last but not least, is the “**CIT**” role, who may offload cash from the system, replacing the bag or cassette media. Each user, upon Sign-In, is provided with a customized menu of available operations, reflecting his own role profile for device access and functionality. Users may be temporarily disabled or enabled, by the CMN admins.

## Enhanced cash depositor functionality

CashCluster user interface is by design optimized for touch screen, with easy to navigate main menu selection buttons. Deposits or withdrawals (where supported by the smart safe features) produce detailed receipt with unique id# which may be traced by the Cash Management Network (CMN) System administrators.

## Armored courier cash offloading

CashCluster is managing the secure cash offloading process, with tickets printed for armored courier. In case of bags used as cash transfer media, a ticket with full cash inventory details is dropped into the bag, before the sealing process. Bag or cassette media id# is captured via barcode scanning and is embedded in the associated financial transaction data, ensuring end-to-end cash transportation traceability.



## Embedded synchronization agent

CashCluster is using the smart safe device standard internet connection to establish on-line communication with the cloud based CMN System. This enables mutual synchronization between the smart safe and the CMN System.

The central system is acquiring and storing permanently, in the central Database, all smart safe financial transactions (re: deposits, withdrawals, cash offload), as well as all user activities and events (re: sign in/out, report retrieval, bag/cassette replacement, system status, system shutdown and power-up, etc.). They are accessible for retrieval any time by the CMN System users or any authorized RCC contract stakeholders, such as the Merchant, the Bank and the CIT (armored courier service). By side they are used in automated notification processes and reports, as the daily reporting towards the Bank and the CIT notification for cash pick-up.

CashCluster, in the context of synchronization process, downloads automatically from the CMN System, key information such as authorized users data, hosted merchant profiles, as well as device features and security options imposed by stakeholder's administrators.

Synchronization process is fault-tolerant, able to cope with temporary unavailability of internet connection or potential erratic behavior. Data transmission is performed via secure, encrypted and authenticated connection.



**CubelQ Ltd**  
rcc.tcr-cubelq.gr

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Cash Offload  
from "CSSN11"  
by user MAT54  
in bag #013495

Denom	Banknotes	Value
€ 5	1	€5
€ 10	13	€130
€ 20	8	€160
€ 50	13	€650
€ 100	0	€0
€ 200	0	€0
€ 500	0	€0
Total:	35	€945

## Multiple merchants access in virtual cash safes

CashCluster virtual capabilities allow hosting of more than one merchant service contracts in a single Cash Smart Safe device. This is a must have feature in case of shopping malls, where there are RCC contracts with a number of merchant retail outlets. All merchants are fully isolated by each other, in terms of users/supervisors and associated cash transactions. Each merchant retains his own virtual cash inventory in the safe. Apart from the armored courier, there is no user having extended visibility across all merchants, as the overall smart safe cash inventory. Merchant contracts may be temporarily disabled or enabled, by the CMN admins.

## Security options and smart safe features profiling

CashCluster is acknowledging the cash limits and other security framework elements imposed by the bank and/or the armored courier service, as they are reflected in their own insurance contracts. Therefore it is configurable by the CMN System, Bank or CIT administrators, the cash upper limit for the smart safe contents, as well as the maximum accepted cash value contained in the transportation media (re: bags or cassettes). Subject to Cash Smart Safe device type and features, there are also a number of additional configurable options available.

## Multivendor Cash Smart Safe support architecture

In the context of multivendor support for the Cash Smart Safe devices, CashCluster may define in detail the device features and capabilities profile (re: number of bags/cassettes, drums, cash bundling capability, withdrawal and escrow capability and limits, etc.). By the time more devices sourced by different manufacturers are added to the CashCluster platform.

## On-line application updates

The Cash Smart Safe device CashCluster application is automatically enrolled in a web updates subscription, for new version updates and functionality enhancements. It is integral part of the application, the intelligence to detect and download (certified and secure) updates silently.