# Nespresso RFID Payment System User Guide




## Revision

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|---|---|
| Rev 01 | Draft document –DTU 04.03.08 |
| Rev 02 | Draft-DTU 15.03.08 |
| Rev 03/ DRAFT | Draft-DTU 02.08.08 |
| Rev 04 | Microtronic, A. Berger 30.10.08 |
| Rev 05 | Draft-DTU 20.11.08 |
| Rev 06 | User Guide 03.12.08 |
| Rev 07 | User Guide, certification details, MIC, C. Schulz 08.04.13 |

# Introduction

The complete RFID payment solution for the Nespresso TOWER consists of the following elements:

- RFID reader of capsule dispenser
  integrated reader in front door;

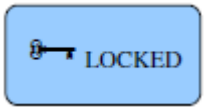
- RFID desktop loading station (TML6)
  separate unit to load electronic purse (e-purse) of user payment card, including power supply for various countries and three different loading cards to recharde 10, 20 and 50;

- RFID media
  User payment media with e-purse and form factors: cards, key fobs, stickers;
  Lock key: activate local security;
  Unlock key: deactivate local security to use system in universal way;
  Backup key: get the actual lock and migrate to Lock key;
  Reset key: reset statistics of loading station and reset e-purse of user media.

This technical user guide describes every process that can be performed with this RFID solution.

## Dispenser Lock Information

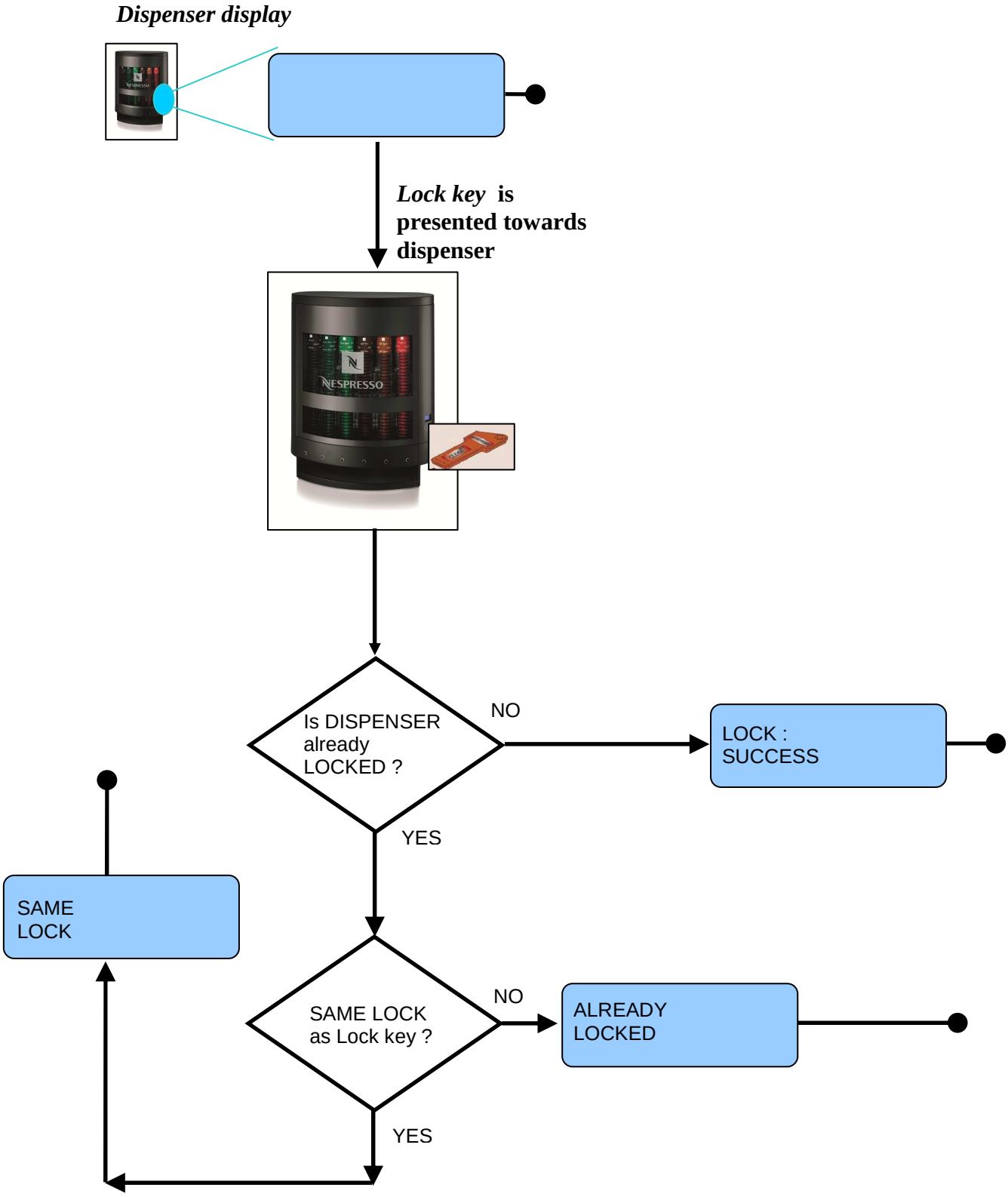
When the dispenser is switched on (main switch) its status should be indicated briefly at the init process.

If the dispensers is locked 


Compliance with MDB protocol must be ensured.

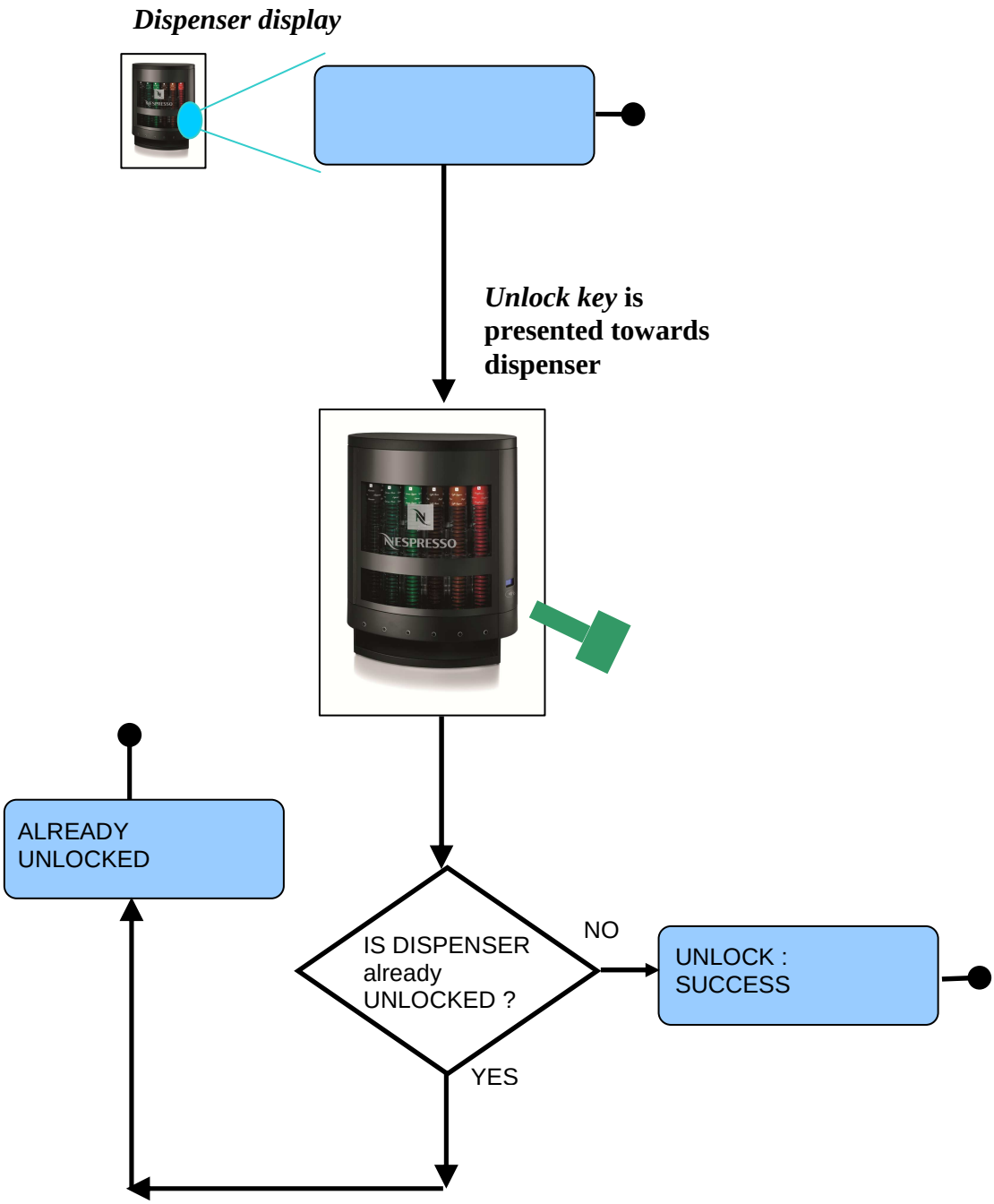
# Dispenser Locking Process

How does the dispenser behave when a *Lock key* is presented to it.
When the dispenser is switched ON, the display shows the status (locked/unlocked).



# Dispenser Unlocking Process

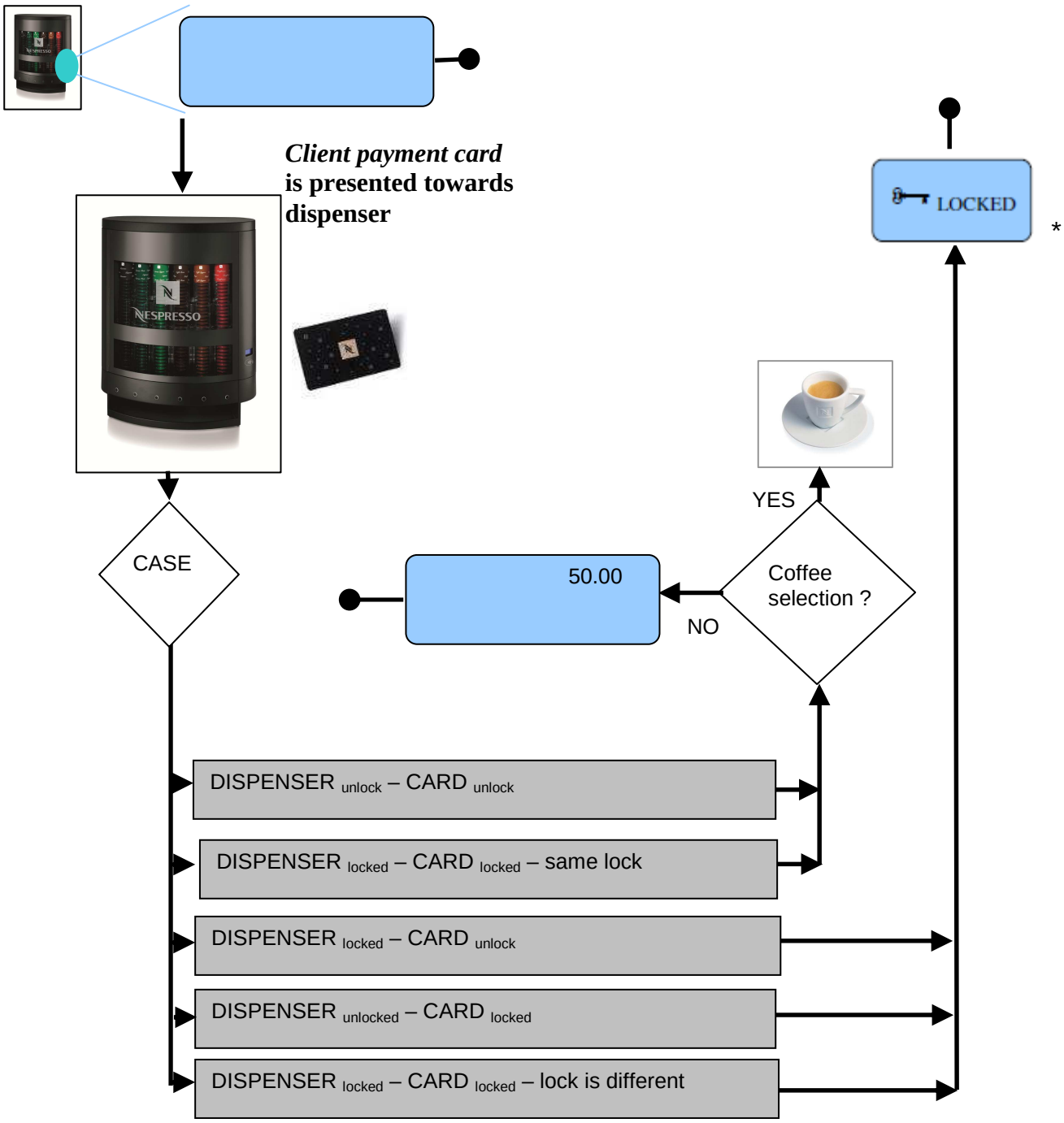
How does the dispenser behave when an *Unlock Key* is presented to it.
When the dispenser is switched ON, the display shows the status (locked/unlocked).



# Dispenser and Client Payment Card Interaction

How does the dispenser behave when a *Client Payment Card* is presented to it.
When the dispenser is switched ON, the display shows the status (locked/unlocked).

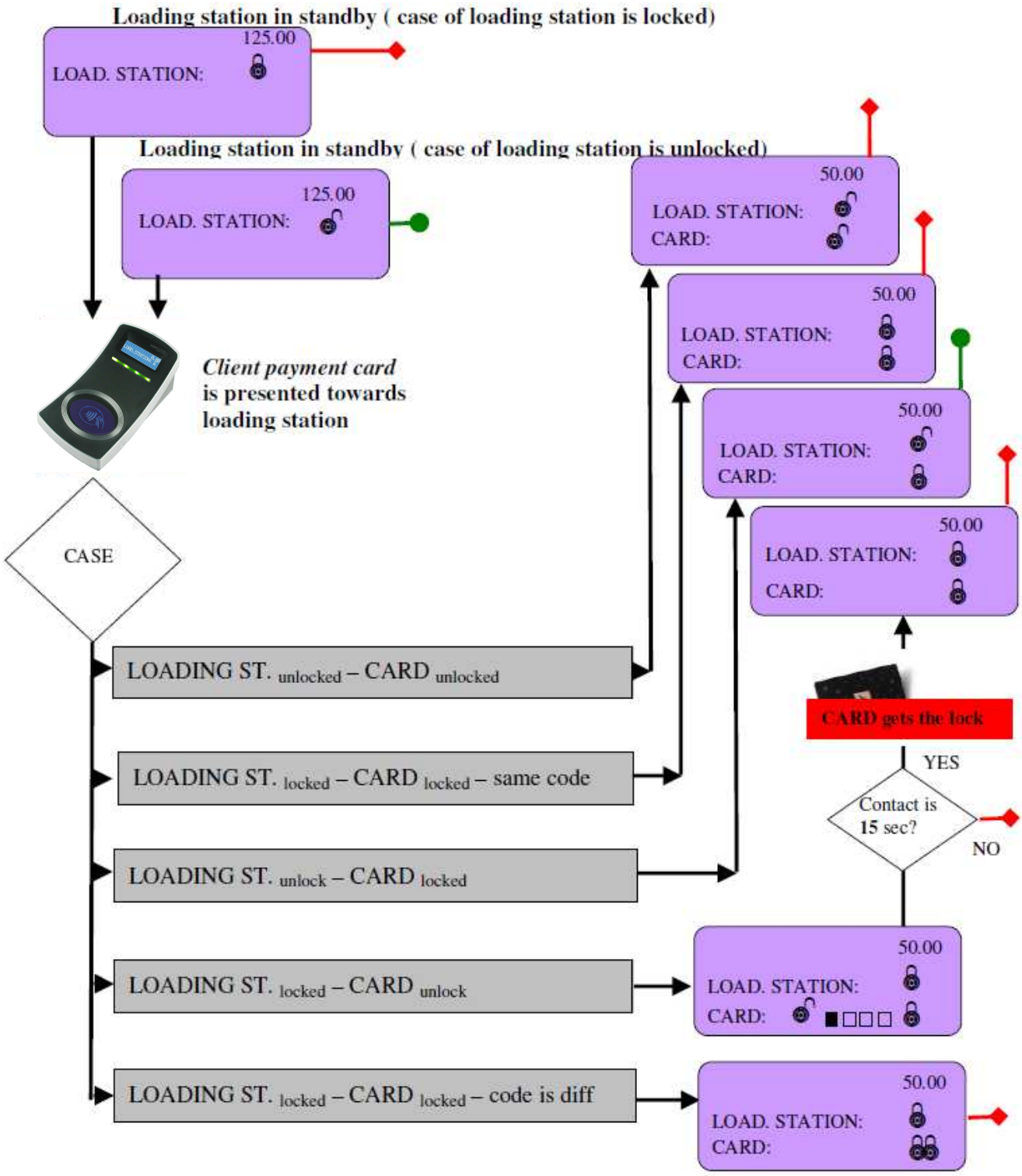
***Dispenser display***




* if user inserts a coin in base cabinet coiner and credit is available, the card can be recharged only if the card belongs to the current network.

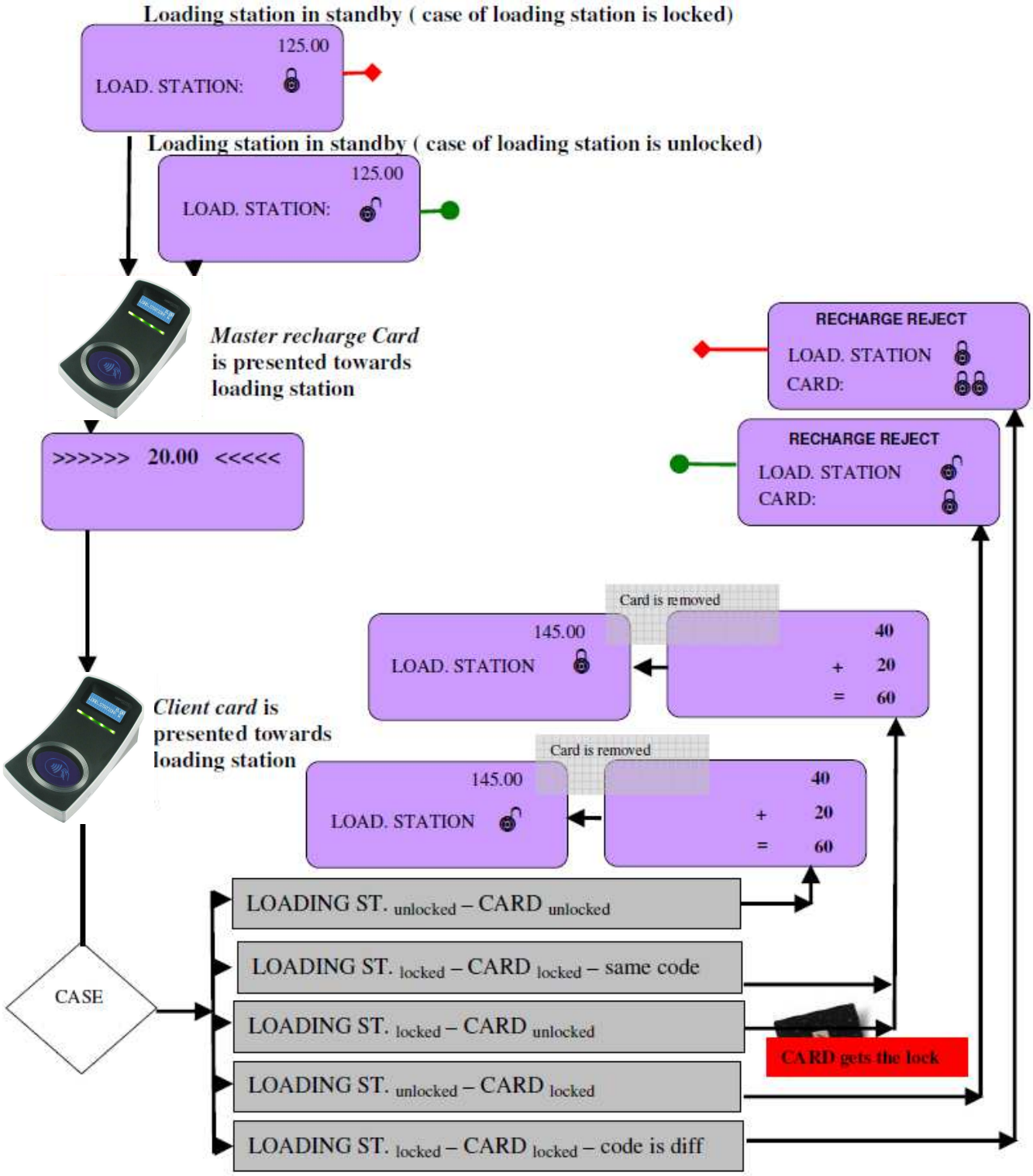
# Loading Station and Client Payment Card Interaction

The loading station is used as a tool which informs the user of the current set up of the loading station, client card and backup key.



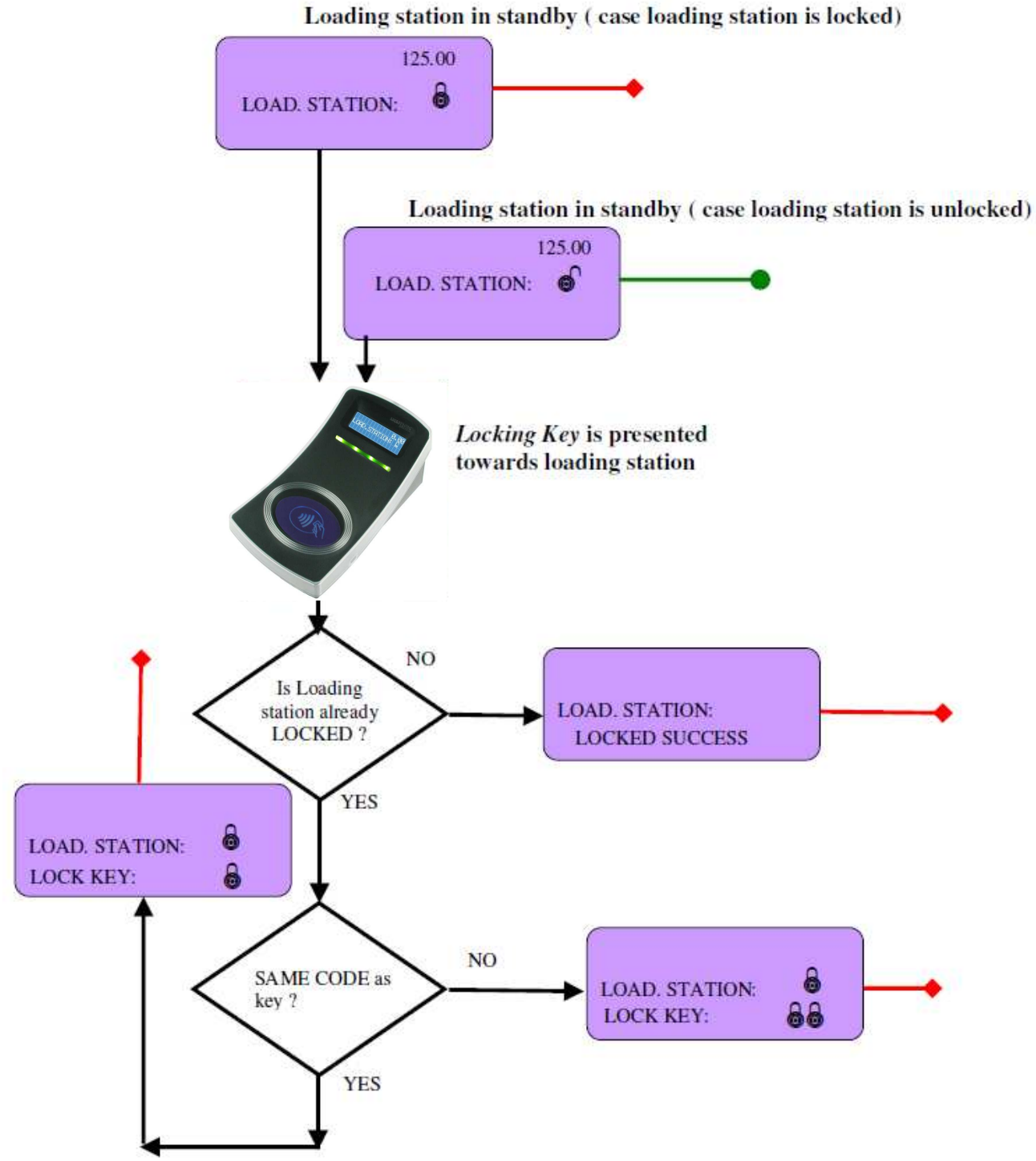
# Loading Station and Client Payment Card Recharge Process

*Master Recharge Card* cannot be locked, this card remains always universal.



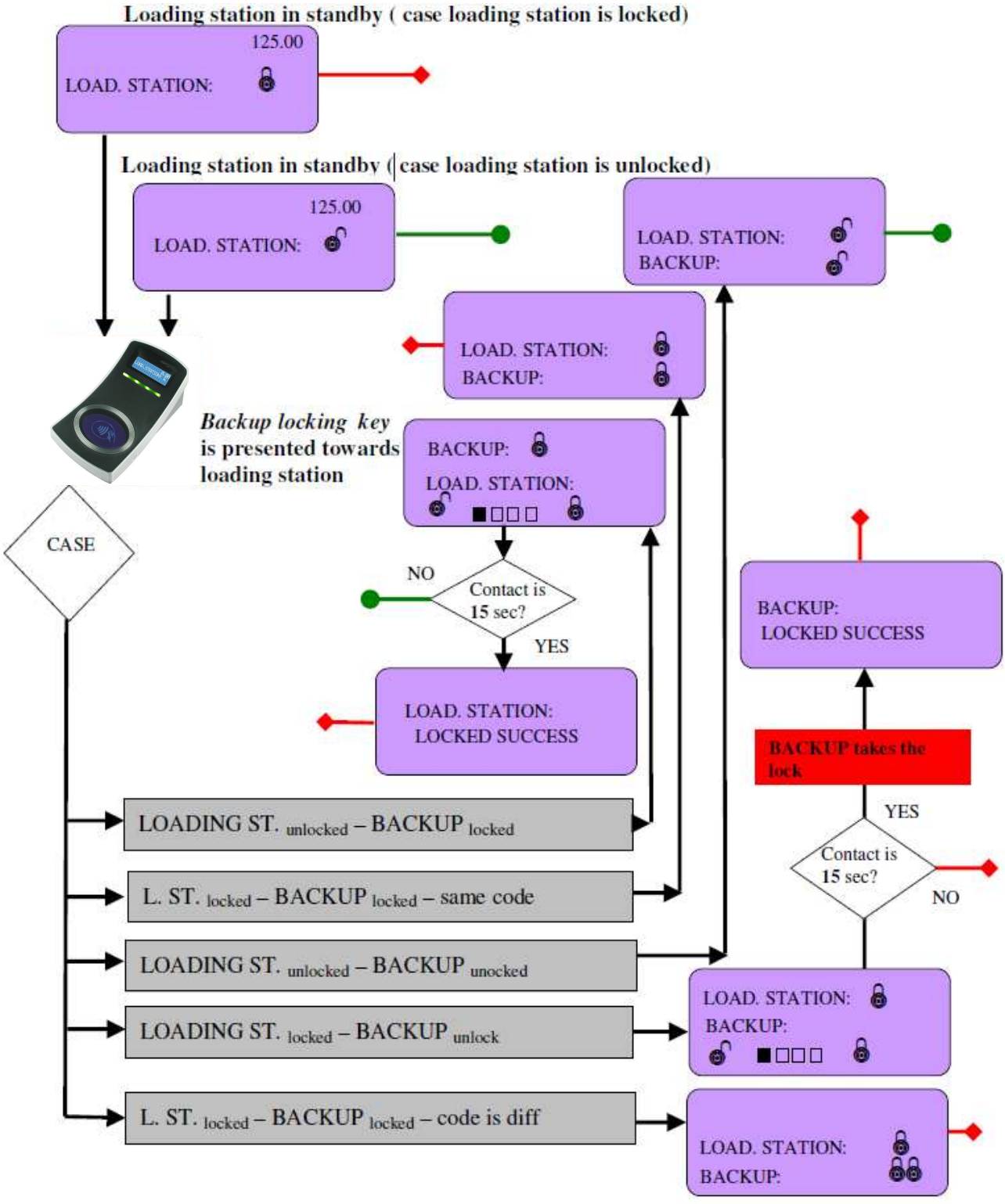
# Loading Station Locking Process

How does the loading station behave when a *Locking key* is presented to it.



# Loading Station Backup Lock Process

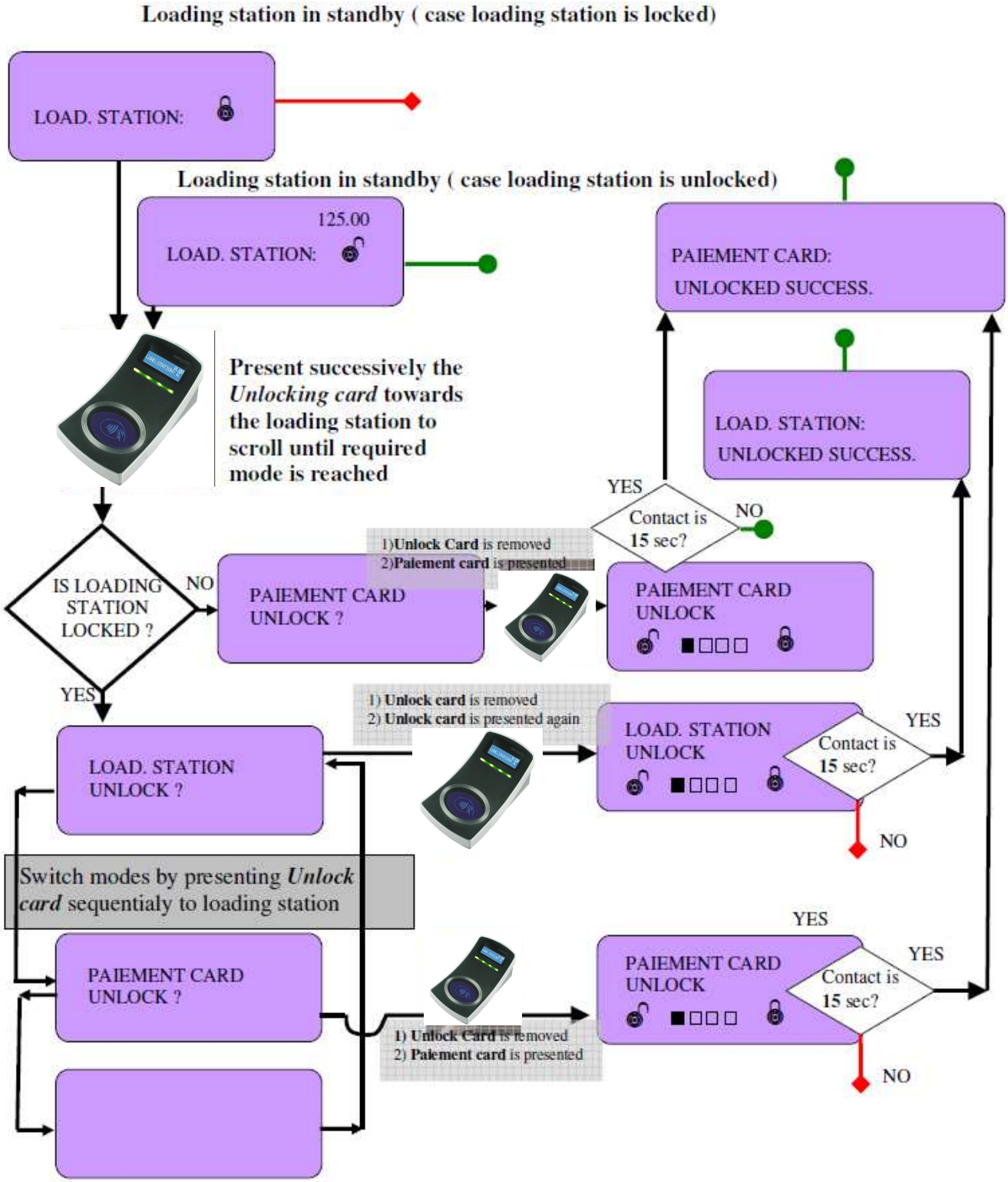
How does the loading station behave when a Backup Locking Key is presented. This backup process is only possible using the loading station, the *backup locking key* cannot be used at the dispenser.



# Loading Station Unlocking Process

How does the loading station behave when a *Unlock Key* is presented.
It is possible to select 2 x unlocking processes:

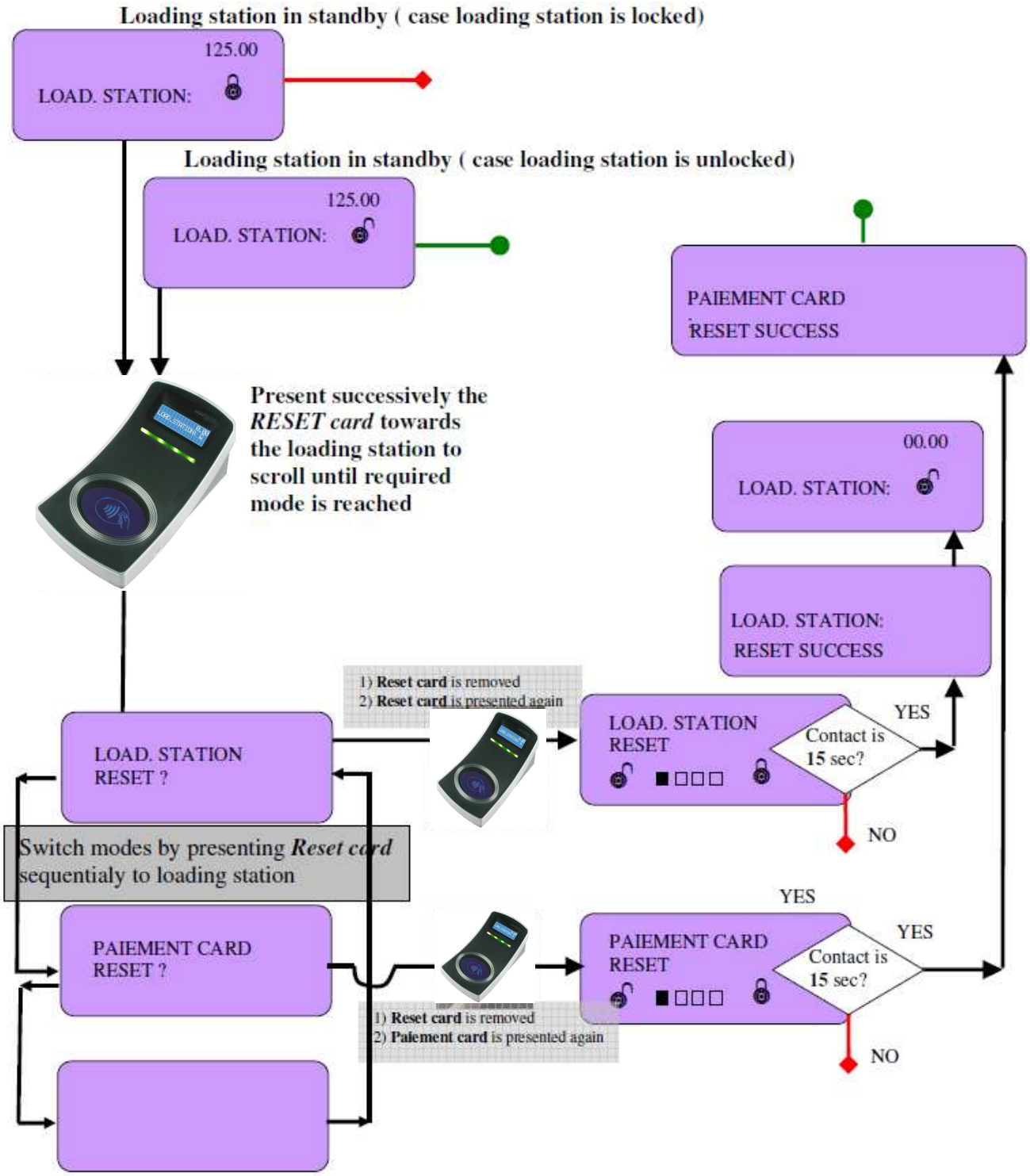
- to unlock the loading station;
- to unlock the user payment cards.



# Loading Station Reset Process

How does the loading station behave when a *Reset Card* is presented.
It is possible to select 2 x reset processes:

- to reset the loading station (internal statistics data remain unchanged);
- to user payment cards (lock + credit).



# Certifications

This device complies with Part 15 of the FCC Rules and with Industry Canada licence-exempt RSS standard(s).
Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio
exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

***NOTICE:***
*Changes or modifications made to this equipment not expressly approved by MICROTRONIC may void the FCC authorization to operate this equipment.*

***NOTE:***
*This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.*