CashFlow Management by PowerCARD

The solution provided by HPS to manage SmartBox messages coming to PowerCARD

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Plan

What's a SmartBox

A cash-acquiring device, that aims the cost efficiency, and sends informative messages to the PowerCard about the cash drops, removals, and demands ...

On drop

The merchant drops money in the SmartBox,
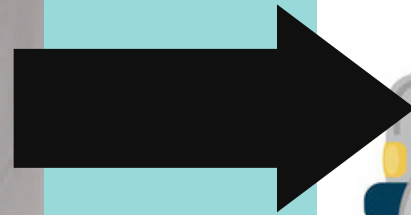
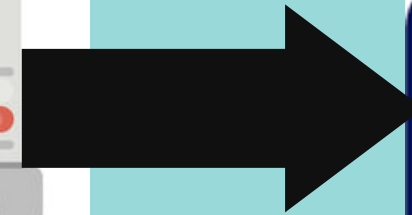PowerCard verifies the integrity, and sends a message back to the SmartBox

On removal

The merchant drops money in the SmartBox,

The CIT removevss the bags containing notes, coins and cash

PowerCard verifies the integrity, and sends a message back to the SmartBox
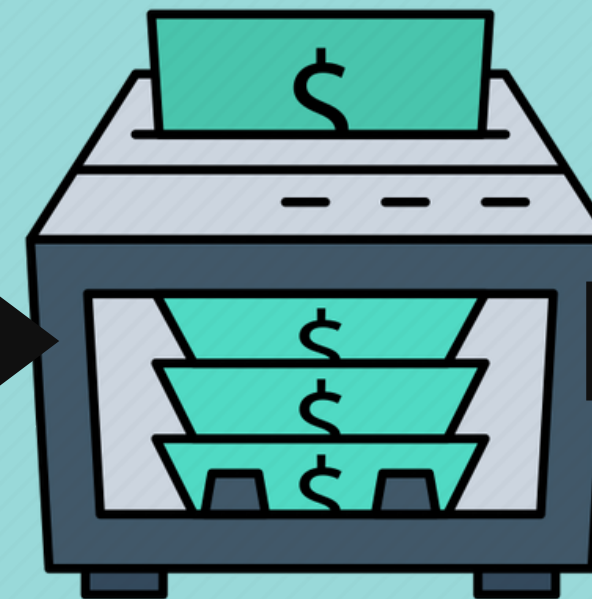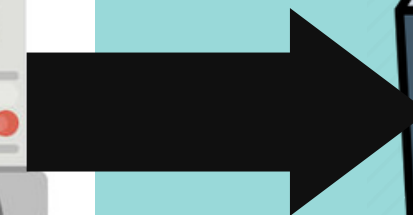
On count

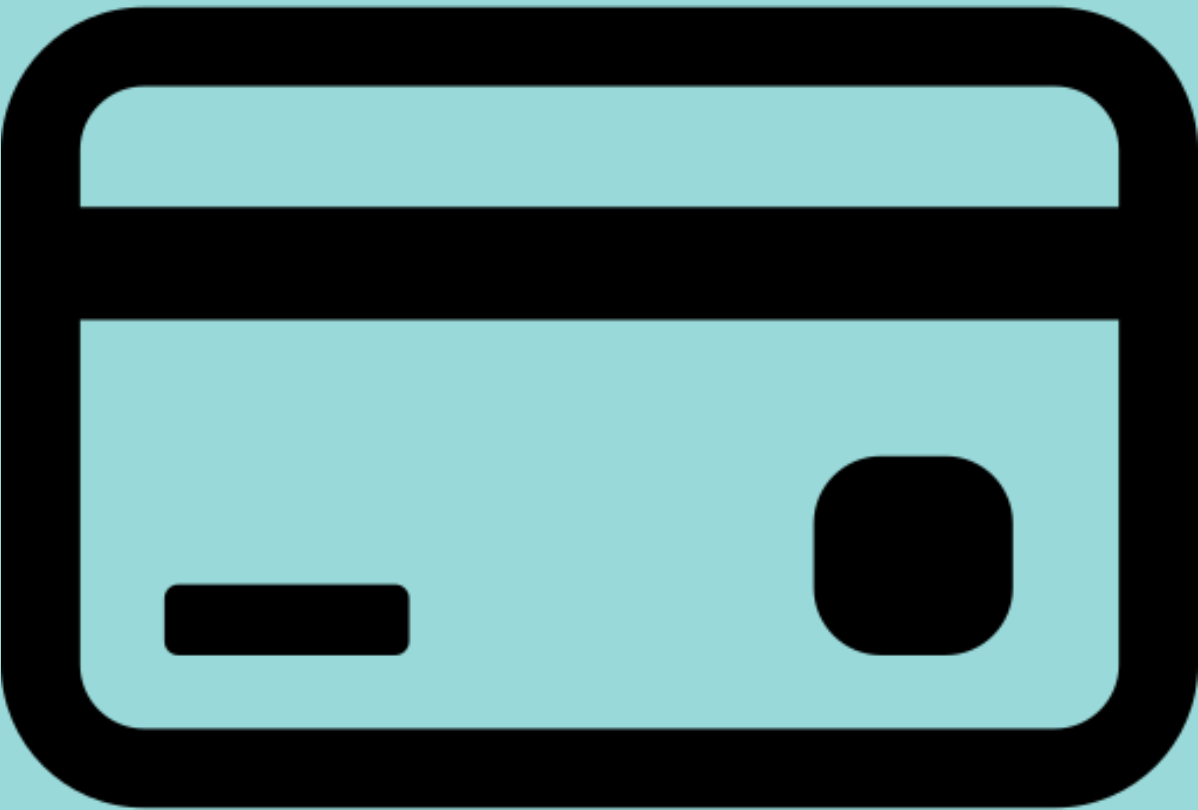

The merchant drops money in the SmartBox,

The CIT transports the bags containing notes, coins and cash to the cash center

The cash center counts the assets, and sends the value counted to PowerCard

PowerCard verifies the integrity, and sends a message back to the SmartBox

Messages received by PowerCard

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DROP	Generated by the device, contains the information related to each drop on the cash device.
REMOVAL	Whenever the CIT (Cash in Transit) remove a bag, this message is sent to PowerCARD.
VERIFICATION	When the cash center counts the physical bag, a signal is sent to PowerCARD to inform the system about the counted value in the bag.
DEMAND	A message sent by the device to trigger the settlement for SmartBox merchants that are on demand settlement option.

Integrity Checks

Invalid message format

↓
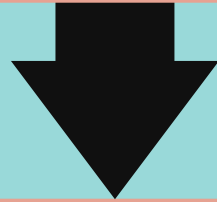
Merchant not Found

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Merchant not Mapped

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Duplicated Message

↓
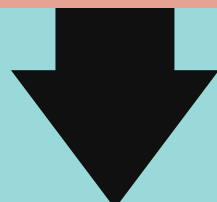
Verification message without drops

The order is relevant, cause once an integrity validation fails, the validation process is stopped and a message with the error status is sent back to the SmartBox

Validation message processing

Valid Processing
- **Value on drop**
- **Value on demand**
- **Value on removal**
- **Value on count**

Financial Impact
- Customer short credited
- Removal message not received
- Verification message checks

No Financial Impact
- Removal less than Drops
- Removal different Verification

Settlement Validations