

Author	Date	Rev	ID
Approved	Product		

(ATM) Handout 3.4

- Use Case Report -

Check the Logs and Balance the Machine

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1 Brief Description

Due to a problem with the communication between the ATM and the Bank Consortium some transactions can end up in a faulty state i.e. money is withdrawn but not dispensed to the Bank Customer. This kind of transaction can be found by comparing the log of the ATM and the log of the Bank Consortium.

2 Flow of Events

2.1 Basic flow

- 1 Open the ATM
 - 2 Press key Eject log
 - 3 The system writes a end of log record containing:
 - amount of bills dispensed
 - amount of bills in the trash box
 - amount of bills still in the money cassettes
 - 4 Insert a new log tape
 - 5 Close the ATM
 - 6 Bring the tape back to the bank
 - 7 Run the verification
 - 8 This tape is compared with the tape of the Bank Consortium
- Transactions that are:
- the same on both tapes - are normal - no action
 - withdraw but not dispensed - money back in account
 - withdraw, dispensed but not fetched - can we handle this deposit? The money is in the trash box! The money back in account
 - Are there any other things that may go wrong?
- 9 The tape is placed in a archive for 6 months. After that period it may be reused

[The end of this Use Case is outside the ATM system! You have to understand this part of the business too! One way to do it is to describe it in the Use Case!]

2.2 Alternate flows

2.2.1 No new tape inserted

If the ATM is closed without having a new tape then the ATM can't start again. There has to be a clear error message to the Maintenance crew telling "no tape inserted"

2.2.2 Door not closed

If the door is not closed in step 5 then there will be a loud alarm sound.

How long time may the door be open? Can we detect that they left without locking the door?

2.2.3 Fiddle with the machine

How to detect this? Do we have any internal sensors? What kind of internal protection do we need?

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2.2.4 Full tape inserted

When the new tape is inserted does the ATM verify that this is a correct tape and that it is empty. If the tape is not empty then is it ejected. When the ATM ejects the tape it sounds an alarm

3 Relationships

The Actor starting this Use Case is:

Maintenance crew

Actor(s) also involved in this Use Case:

4 Special Requirements

None defined for this use case.

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