

ATM Project Handout 4-5
Use Case Report: Withdraw Change

Version 1.0

Introduction

This is an example of what a structured use case report might look like. This example shows an abstract use case might look like

In this example, we show the report as it might appear towards the end of developing it.

There are many styles of writing use cases. We show one style here, based on the template and guidelines for a use-case report in the Rational Unified Process.

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Revision History

Date	Version	Description	Author
15/03/2000	3.1a	Revised format for RUP 2000	J. Bell

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Use Case Report: Withdraw Change

1. Use Case Name: Withdraw Change

1.1 Brief Description

This use case describes how a Bank Customer uses an ATM to withdraw coins from his/her bank account. This use case was added later to support shop keepers etc. It gives Bank Customers the possibility to withdraw not only bills but also coins.

2. Flow of Events

2.1 Basic Flow

This is an extension of Withdraw Cash. At extension point (Alternate Fund Withdrawal) of the basic flow, the Bank Customer can also select "coins".

1. Select 'Withdraw Coins'

When the Bank Customer selects "coins", (s)he can then specify the amount to withdraw by selecting the kind of coins (loonies etc.) and number of coin rolls.

2. Decide on Coin Types and Amounts

The Bank Customer specifies the kind of coins (loonies etc.) and number of coin rolls. The ATM shows the Bank Customer the total coins to be dispensed. The Bank Customer can alter his selection and the ATM recalculates.

3. Receive Coins

The ATM dispenses coin rolls.

The extended use case continues after the extension point.

2.2 Alternative Flows

2.2.1 Short of coins

In Step 2, Decide on Coin Types, if the Bank Customer specifies more coin rolls than are available in the ATM, the ATM changes the selected value to the highest possible and issues an information message "There is just X roles left." The basic flow resumes at Step 2.

2.2.2 Roll stuck

In Step 3, Receive Coins, if a roll gets stuck in the dispenser so that no more rolls can be dispensed, the ATM displays a warning message "Sorry, coin roll stuck. Only XXX amount has been debited from your account." The ATM notifies the Bank Consortium to debit the account only for the amount actually dispensed. An alarm is sent to the maintenance crew. The use case ends.

3. Special Requirements

None specified for this use case.

4. Pre-Conditions

None specified for this use case.

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5. Post-Conditions

5.1 Accounts balanced

At the end of the use case, all account and transaction logs are balanced, and communication with the banking system is reinitialized.

6. Extension Points

None specified for this use case.

7. Relationships

7.1 Actors

The Actor starting this Use Case is:

None

Actor(s) also involved in this Use Case:

Maintenance crew

7.2 Associations TO other Use Cases

Use Cases included by this Use Case (outgoing Include associations)

None

Use Cases extended by this Use Case (outgoing Extend associations)

Withdraw Cash

7.3 Associations FROM other Use Cases

Use Cases including this Use Case (incoming Include associations)

None

Use Cases extending this Use Case (incoming Extend associations)

None

8. Use Case Diagrams

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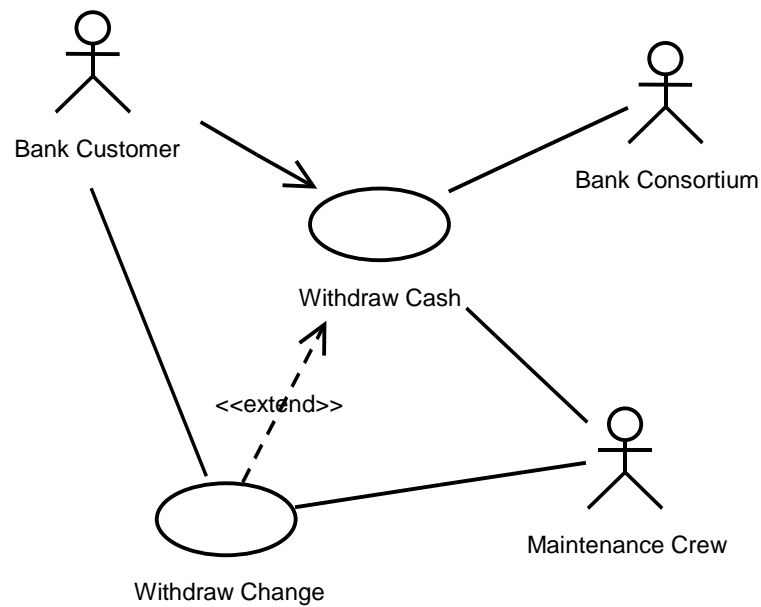


Figure 1: Local Use-Case Diagram for Withdraw Change Use Case

9. Other Diagrams

None specified for this use case.