

Reference MSVCM specification of Home Banking product line

rba2

November 24, 2009

Scenario SC01

Description:

This scenario allows a customer to withdraw money from a previously selected account. Note, this scenario might be configured according to the authentication mechanism and the level of details of the transactional concern.

Flow of events

Code	User Action	System Response
SC01-01	The customer selects the withdraw option.	The system creates a new withdrawal and asks for the amount to withdraw.
SC01-02	The customer fills in the amount to withdraw.	The system retrieves the current balance of the selected account.
SC01-03	-	The system verifies that the requested amount is not greater than current balance plus <i>< limit ></i> . @authentication
SC01-04	-	The bank system withdraws the amount from the account. @begin-tx
SC01-05	-	The cash money is provided to the customer. @end-tx

Scenario SC02

Description:

This scenario allows a customer to transfer money from a previously selected account to a destination account. Note, this scenario might be configured according to the authentication mechanism, the level of details of the transactional concern, and the type of the transfer (identified or non-identified).

Flow of events

Code	User Action	System Response
SC02-01	The customer fills in the amount to transfer.	The system retrieves the current balance of the selected account. @identification
SC02-02	-	The system verifies that the requested amount is not greater than current balance plus <i>< limit ></i> . @authentication
SC02-03	-	The bank system withdraws the transfer amount from the originating account. @begin-tx
SC02-04	-	The bank system requests a transfer from the bank's own account to the account of the bank of the destination account. @end-tx

Scenario SC03

Description:

This scenarios allows a customer to buy stocks. It might be configured according to the type of the order (directed or limited) and the authentication mechanism.

Flow of events

Code	User Action	System Response
SC03-01	The customer selects to place a <i>< OrderType ></i> on a stock.	The system asks for the stock code (ISIN).
SC03-02	The customer gives the ISIN code.	The system verifies that the ISIN code is valid.
SC03-03	-	The system asks for the amount of stocks involved.
SC03-04	The customer gives the amount.	The system verifies that the requested amount of stocks is valid. @authentication
SC03-05	-	The system creates a new pending order and sends it to the stock market.
SC03-06	-	The stock market confirms the receipt of the order.
SC03-07	-	The bank system adds the order to the pending orders of the account.
SC03-08	-	The bank system notifies the actor.

Advice ADV01-PIN

Description:

This advice describes how to authenticate a customer in products configured with the PIN feature.

Pointcut:

after @authentication

Flow of events

Code	User Action	System Response
ADV01-01	-	The system asks the customer to enter her personal identification number.
ADV01-02	The customer fills in the personal identification number.	The system authenticates the customer's personal identification number.

Advice ADV02-Fingerprint

Description:

This advice describes how to authenticate a customer in products configured with the Fingerprint feature.

Pointcut:

after @authentication

Flow of events

Code	User Action	System Response
ADV02-01	-	The system asks the customer to put her finger in the fingerprint reader.
ADV02-02	The customer puts her finger in the fingerprint reader device.	The system authenticates the customer, according to the comparison of the captured fingerprint data.

Advice ADV03-Start-TX

Description:

This advice describes the start point of a transaction, and should be applied only when the transaction feature is selected.

Pointcut:

before @begin-tx

Flow of events

Code	User Action	System Response
ADV03-01	-	The transaction handler starts the processing of a transaction.

Advice ADV04-End-TX

Description:

This advice describes the end point of a transaction, and should be applied only when the transaction feature is selected.

Pointcut:

after @end-tx

Flow of events

Code	User Action	System Response
ADV04-01	-	An entry with the transaction information is logged to the overview of the completed transactions of the customers account.
ADV04-02	-	The transaction is removed from the transaction queue.

Scenario ADV05-ID-TRANSFER

Description:

This advice describes the specific behavior required when transferring money between two accounts and the transfer must be identified.

Pointcut:

before @identification

Flow of events

Code	User Action	System Response
ADV05-01	The customer informs the destination bank and account.	The system asks the customer to provide the identity of the destination account owner.
ADV05-02	The customer informs the social security number (SSN) of the destination account owner.	The system retrieves personal data from the informed SSN.
ADV05-03	-	The system shows the personal data, allowing the customer to cancel the transfer.
ADV05-04	-	The system asks for the amount to transfer.

Scenario ADV06-NID-TRANSFER

Description:

This advice describes the specific behavior required when transferring money between two accounts and the transfer should not be identified.

Pointcut:

before @identification

Flow of events

Code	User Action	System Response
ADV06-01	The customer informs the destination bank and account.	The system asks for the amount to transfer.

Scenario ADV07-LMT

Description:

This advice describes the specific behavior required ordering stocks in products configured with the limited feature.

Pointcut:

after SC03-04

Flow of events

Code	User Action	System Response
ADV07-01	-	The system asks for the limited price involved.
ADV07-02	The customer gives the limited price.	The system verifies that the requested limited price is valid.

Configuration Knowledge

Expression	Transformations
Withdraw	select scenario SC01
Transfer	select scenario SC02
Place Stock Buy Order	selectScenario SC03 and bind parameter OrderType to Place Stock Buy Order
Operation Limit	bind parameter limit to Operation Limit
PIN	evaluate advice ADV01-PIN
Fingerprint	evaluate advice ADV02-Fingerprint
Detailed Transaction	evaluate advice ADV03-Start-TX, ADV04-End-TX
Identified	evaluate advice ADV05-ID-Transfer
NonIdentified	evaluate advice ADV06-NID-Transfer
Limited Order	evaluate advice ADV07-LMT