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| General Information | |
| Use Case ID Number : UC100  Subject Area : ATM usage  Description : Customer uses ATM to withdraw money | Responsible Analyst : Cal Caldwell |

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| Requirements/Feature Trace | |
| **REQ#** | Requirements Name and / or Short Description |
| 005 | Requirement to allow bank customers with an ATM card to withdraw money from an ATM machine |
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| Revision History | | |
| Author | **Date** | **Comments** |
| Cal Caldwell | 7/30/09 | First draft |
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| **Insertion Points in other Use Cases** | | |
| Use Case Name | **Use Case Number** | **Step Inserted After** |
| N/A |  |  |
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| **Actors** | | |
| **Actor Name** | **P/S** | **Brief Description** |
| Bank customer | P | Bank customers that have ATM cards can withdraw money from their account |
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| **Pre-Conditions** | |
| # | Description |
|  | ATM “Welcome” screen is displayed |

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| **Start Stimulus** |
| Bank Customer swipes ATM card in ATM machine |

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| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt UC Name/Number** | **Bus Rule(s)#** |
| 01 | ATM machine asks for PIN number |  |  |
| 02 | Customer enters PIN number |  |  |
| 03 | ATM asks TX type |  |  |
| 04 | Customer Enters “WithDraw” |  |  |
| 05 | ATM asks for TX amount |  |  |
| 06 | Customer enters amount |  |  |
| 07 | ATM machine dispenses cash |  | 22 |

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| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds/Alt Use Case #** |
| Invalid Pin # | ATM displays message and then returns to “Welcome” screen |  |
| Customer does not have enough money in account to perform TX | ATM displays message informing Customer the account balance is insufficient | UC100.1 |
| Customer swipes card twice | ATM needs to handle cases where user swipes card twice |  |

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| Post-Conditions | |
| **#** | **Description** |
| 1 | Cash is dispensed to Customer |
| 2 | ATM returns to “Welcome” screen |

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| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| Customer | Bank Customer | Name, SSN, etc |
| TX | Holds TX information | TX type, amount, etc |

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| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | Customers only speak English? | 7/30/09 | Cal Caldwell |  |  |
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| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | Bank currently does not have touch screen ATM machines | 7/30/09 | Cal Caldwell |  |  |
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| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
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| Frequency of Execution |
| **Frequency:**  Minimum: 24 Maximum: 240 Average: 120 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Day:  Other: |

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| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | AT | 02 | seconds |  |  | 2 | Don’t want user to swipe card twice |
| 2 | Between | 06/07 | seconds |  |  | 4 | ATM must dispense cash within 4 seconds |
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| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 02 | bytes |  | 4k |  |  |
| 2 | 06 | bytes |  | 4k |  |  |
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| **Alternate Course General Information** |
| Alternate Course Name:  Alternate Course Number:  Parent Use Case Name:  Parent Use Case Number:  Description:  Reason for Execution: Non Exception:  Exception:  Exception #:  Start(Trigger) Stimulus:  Type of Execution (optional): Manual:  Automatic: |

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| Insertion Point |
| Step Inserted After |
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| Pre-Conditions | |
| 1. |  |
| 2. |  |

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| Alternate Course Steps | | | |
| **#** | **Step Description** | **Adds/Alt Use Case #** | **Business Rule(s)#** |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
| 4. |  |  |  |

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| Post-Conditions | |
| 1. |  |
| 2. |  |