Table of Contents

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

1. Project Specification Overview

1.1 Document Goal and Purpose

The goal of this project specification is to document the way the POS application completes the Cash-In and Cash-Out processes on the client. It is not intended to document other affected system processes or application processes. For information on these other affected systems and applications, please refer to documentation provided by those system and application teams.

1.2 Project Description

Over the course of a business day, there may be a need to add or withdrawal local cash from a till that may not be the result of a typical sale transaction. Generally known as Cash In and Cash Out, these types of transaction allow the retailer to track additions or withdrawals outside of a standard sale or return transaction.

Cash-In transactions are commonly described as the result of revenue being entered into the system for tracking and accountability. Examples of Paid Ins include when a customer comes in to pay for an inadvertent bad check or when monies are collected from a vending machine.

Cash-Out transactions are when monies from a cash drawer are used to purchase something, typically for the store. Examples of Cash-Out transactions include paying for vendor delivers goods such as pizza or for postage stamps.

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

2. User Impacts

2.1 Screen Process Flow

2.1.1 Cash-In

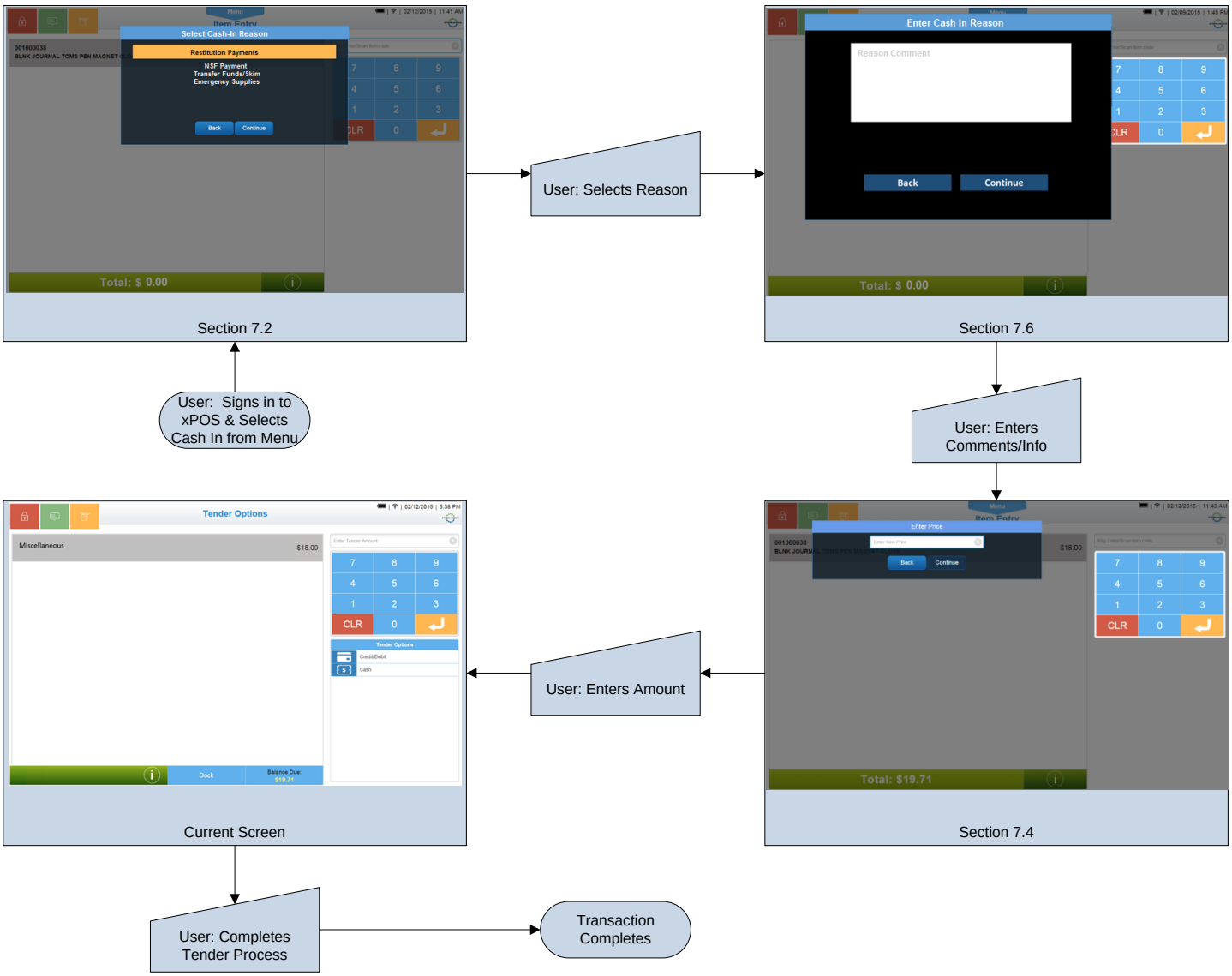

Figure 1: Cash-In Screen Flow

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

2.1.2 Cash-Out – Non-Skim Reason

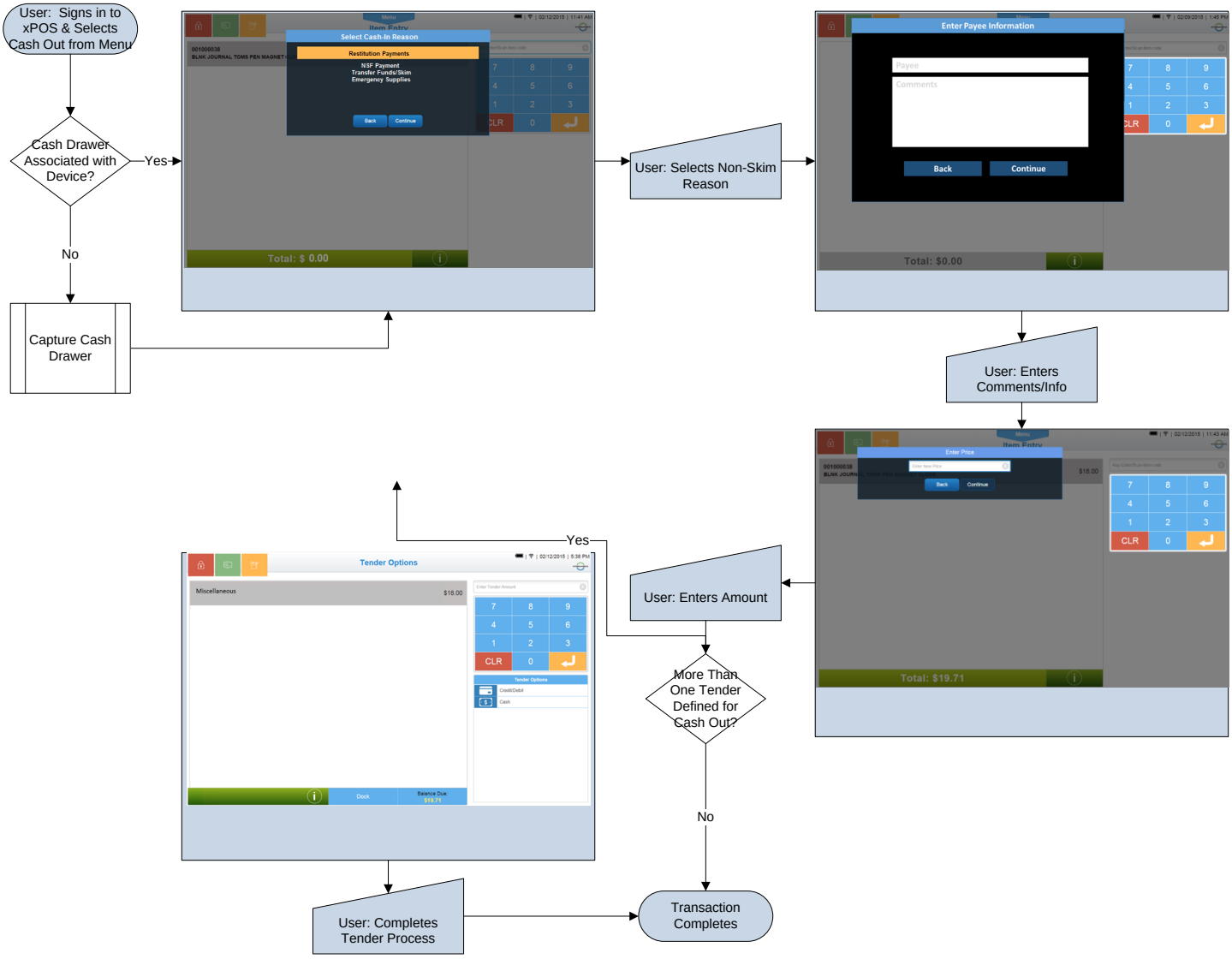

Figure 2: Cash-Out Non-Skim Screen Flow

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

2.1.3 Cash-Out – Skim Reason

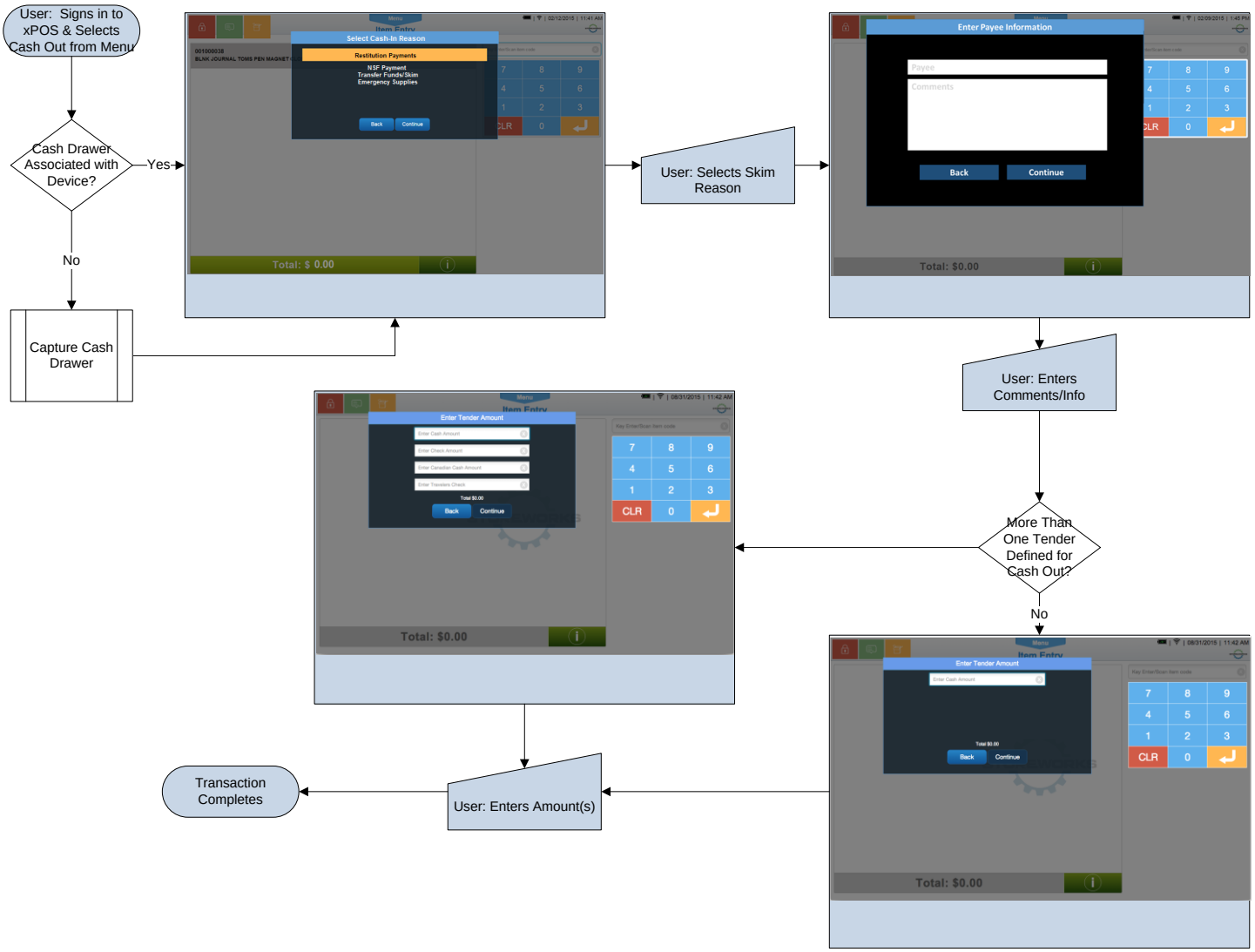

Figure 3: Cash-Out Skim Reason Screen Flow

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

3. Use Case: Cash-In

3.1 Feature Flow

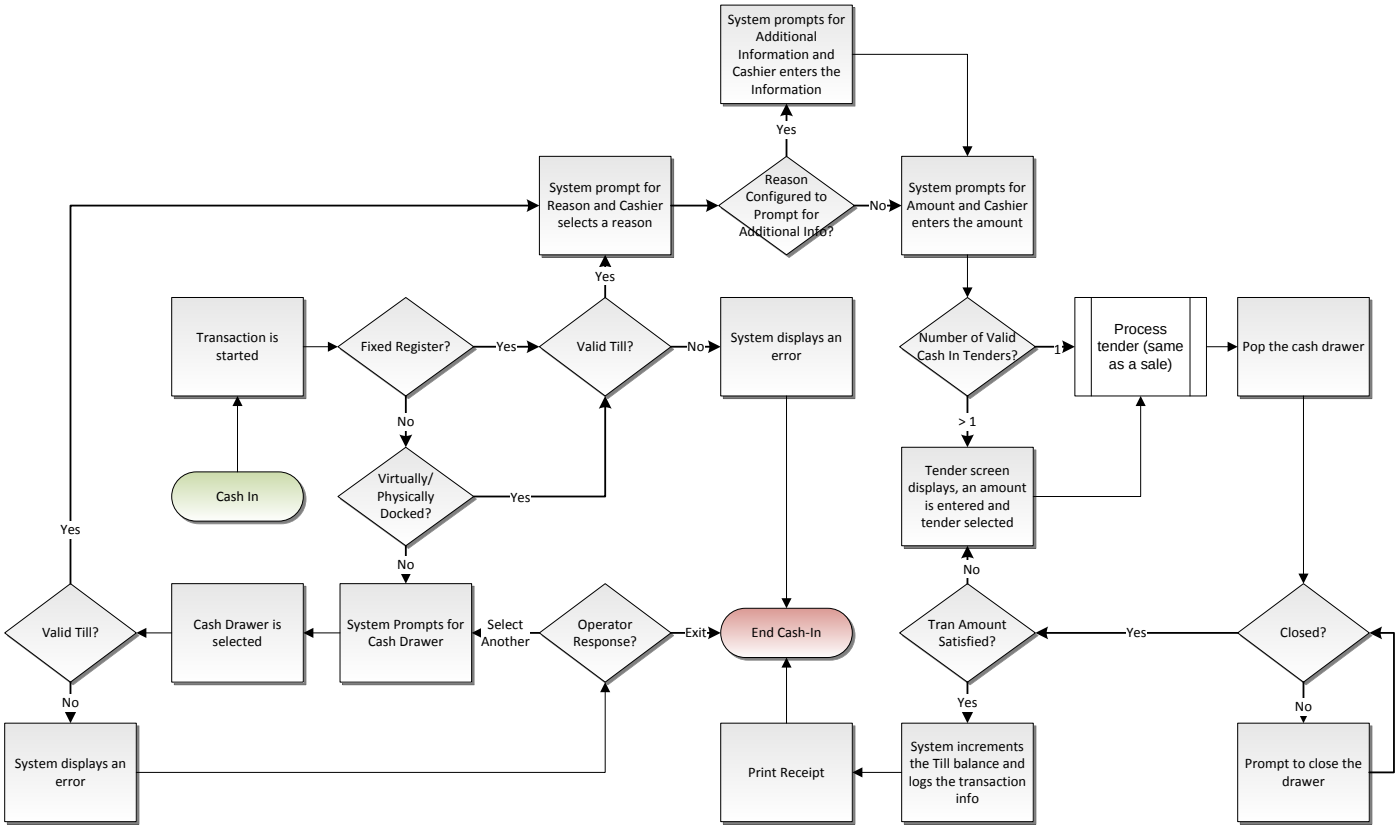

Figure 4: Cash-In Process Flow

3.2 Preconditions

- User has signed on to the system and navigated through the menu structure and selected **Cash-In** option.
- The user has the appropriate permissions to complete the function. If not, manager authorization has been completed.
- The store is Open

3.3 Main Flow

1. The system assigns a transaction number and a log entry is written
2. The system executes the Till Status Alternate Flow (section 3.4.1) to evaluate till status.
3. The system prompts the operator to select a reason code. Specific reason codes for Cash-In transactions are displayed.
4. The operator selects a reason code and accepts the entry.
5. The system evaluates the reason code and prompts for any comments/information that the operator may enter.
6. The operator enters the comments/information and accepts the entry.
7. The system prompts for the Cash-In Amount.
8. The operator enters the amount of the Cash-In.
9. The system evaluates the reason code and captures manager approval if required.

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

10. The system determines available tenders for a Cash-In transaction is determined by a Tender “Attribute” (section 9).
11. If more than one tender defined, the system displays the list of valid tenders and the operator enters an amount and select the appropriate tender. **NOTE**: If no amount is entered, the system assumes that the tender is for the full amount of the transaction.
12. The system processes the payment in the same manner as a sale transaction
13. The system opens the cash drawer and the operator adds the funds.
14. The system indicates that the cash drawer should be closed. If it stays open for a configurable amount of time, the user should be alerted again. This flow is the same as how the cash drawer is handled during a cash transaction.
15. If the total tender amount does not match the amount entered for the Cash-In, the Tender screen displays (bullet 11 above)
16. The system logs the Cash-In information (EJ and POSLog)
17. The system increments the till balance
18. A receipt prints containing the Cash-In information.
19. Once the receipt printing completes the application transitions back to the sign-on screen or the main item entry screen (depending on the parameter setting)
20. The Use Case ends

3.4 Alternate Flow

3.4.1 Till Status

1. If the client is docked (virtual or physical), the system uses the till associated with the payment station’s cash drawer.
2. If the client is not docked (ad-hoc), the system prompts the user to enter/scan the cash drawer that they want to use.
3. If the client is a fixed register, the system uses the till associated with the register.
4. The system validates if there is an available till in the cash drawer and if the till associated with the cash drawer is valid and available for use by the operator (the till is assigned to the operator or the till is assigned to the payment station and the operator doesn’t have a till assigned to them).
5. If till is available and valid, the system continues with bullet 3 above of the main flow.
6. If the till is not available, an error message displays.
7. If it is a fixed register or docked device (virtual or physical), use case ends after operator acknowledges the error.
8. If the operator selects to exit, the use case ends.
9. If the operator selects to continue, the system prompts for cash drawer.
10. The operator selects a cash drawer and the alternate flow restarts.

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

4. Use Case: Cash-Out

4.1 Feature Flow

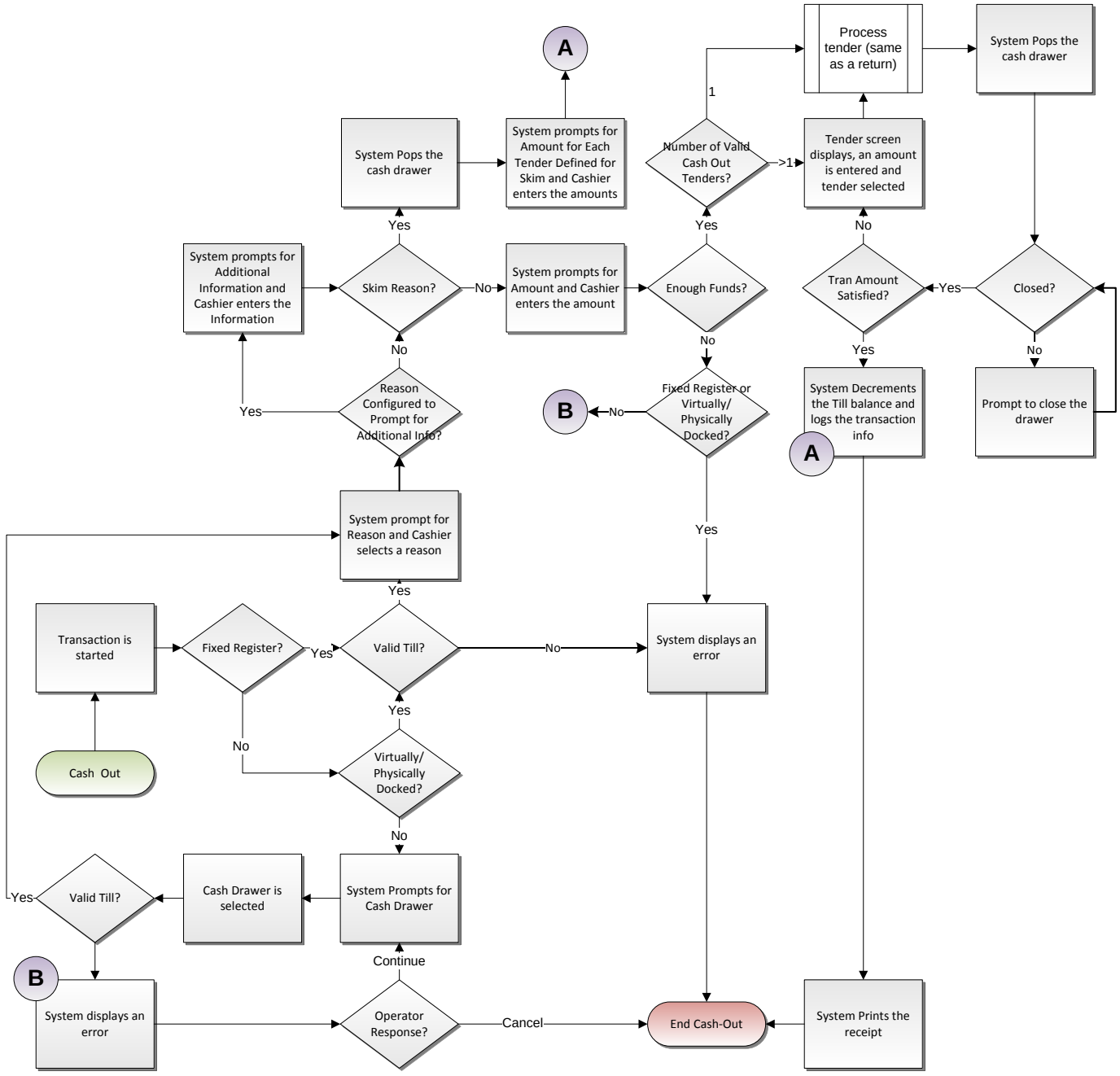

Figure 5: Cash-Out Process Flow

4.2 Preconditions

- User has signed on to the system and navigated through the menu structure and selected the **Cash-Out** option.
- The user has the appropriate permissions to complete the function. If not, manager authorization has been completed.
- The store is Open

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

4.3 Main Flow

1. The system assigns a transaction number and a log entry is written
2. The system executes the Till Status Alternate Flow (section 4.4.1) to evaluate till status.
3. The system prompts the operator to select a reason code. Specific reason codes for Cash-In transactions are displayed.
4. The operator selects the appropriate reason code.
5. The system evaluates the reason code and prompts for any comments/information that the operator may enter.
6. The operator enters the comments/information and accepts the entry.
7. If reason is Skim, system executes the Skim Alternate Flow.
8. The system prompts for the amount.
9. The system evaluates the reason code and captures manager approval, if required.
10. The operator enters the amount for the Cash-Out.
11. The system executes the Funds in Till Status Alternate Flow (section 4.4.2).
12. The system determines available tenders for a Cash-Out transaction is determined by a Tender “Attribute” (section 9).
13. If more than one tender defined, the system displays the list of tenders that are valid for a Cash-Out transaction and the operator enters an amount and selects the appropriate tender. **NOTE**: If no amount is entered, the system assumes that the tender is for the full amount of the transaction.
14. The system processes the tender as it would during a sale transaction. **NOTE**: Single tender configured automatically tenders for the transaction.
15. The system opens the cash drawer and the operator removes the funds.
16. The system indicates that the cash drawer should be closed. If it stays open for a configurable amount of time, the user should be alerted again. This flow is the same as how the cash drawer is handled during a cash transaction.
17. If the total tender amount does not match the Cash-Out amount entered, the system displays the Tender screen (bullet 13 above).
18. The system logs the Cash-Out information (EJ and POSLog)
19. The system decrements the till balance
20. A receipt prints containing the Cash-Out information.
21. Once the receipt printing completes the application transitions back to the sign-on screen or the main item entry screen (depending on the parameter setting)
22. The Use Case ends

4.4 Alternate Flow

4.4.1 Till Status

1. If the client is docked (virtual or physical), the system uses the till associated with the payment station’s cash drawer.
2. If the client is not docked (ad-hoc), the system prompts the user to enter/scan the cash drawer that they want to use.
3. If the client is a fixed register, the system uses the till associated with the register.
4. The system validates if there is an available till in the cash drawer and if the till associated with the cash drawer is valid, and available for use by the operator (the till is assigned to the operator or the till is assigned to the payment station and the operator doesn’t have a till assigned to them).
5. If till is available and is valid, the system returns to the calling use case.
6. If the till is not available, an error message displays.
7. If it is a fixed register, use case ends after operator acknowledges the error.

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

8. If the operator selects to cancel, the use case ends.
9. If the operator selects to continue, the system prompts for cash drawer.
10. The operator selects a cash drawer and the alternate flow restarts.

4.4.2 Funds in Till Status

1. The system validates if till contains enough funds.
2. If till contains enough funds, the system continues with bullet 12 of the main flow.
3. If the till does not contain enough funds, an error message displays.
4. If it is a fixed register, use case ends after operator acknowledges the error.
5. If the operator selects to cancel, the use case ends.
6. If the operator selects to continue, the system prompts for cash drawer.
7. The operator selects a cash drawer and the Till Status alternate flow (section 4.4.1) restarts.

4.4.3 Skim

1. The system pops the cash drawer.
2. The system determines valid tenders for Skim and displays input prompt for each tender type.
3. Operator enters the amounts for each tender and system returns to Main Flow bullet 18 above.

4.5 Special Cases/Notes

- If a cash out reason code has configuration setting, system converts from a ‘Paid Out’ transaction type to a ‘Pickup’ transaction type.

5. Other feature Impacts

5.1 Sale Transaction Impacts

None

5.2 Exchange & Adjustment Transaction Impacts

None

5.3 Return Transaction Impacts

None

5.4 Other Transaction Type Impacts

None

5.5 Suspend/Resume Impacts

Cash-In and Cash-Out transaction cannot be suspended, and therefore, not resumed.

5.6 Training Mode Impacts

Cash-In and Cash-Out transactions can be executed in training mode. They have no impact on the financials (i.e. no funds are removed or added).

5.7 Offline Requirements

No additional offline requirements as offline behaviors are explained in the use case or do not impact this feature.

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

6. Assumptions

1. Cash-In is a transaction type.
2. Cash-Out is a transaction type.
3. Processing of the tenders follows the same flow as processing for Sales (Cash-In) and Returns (Cash-Out)
4. Cash Out specific reasons are logged as Pickup transaction type.
5. No Cash In reason codes are logged as Loan transaction type.

7. Screen Layouts

7.1 Prompt for Cash Drawer

This screen displays after the Cash-In and Cash-Out information has been entered and validated for the transactions. This is the same prompt that displays when the user selects Cash on the tender screen. **NOTE**: This screen only displays if the device is not physically or virtually docked (i.e. the physical device (cash drawer) is not already "known" by the client).

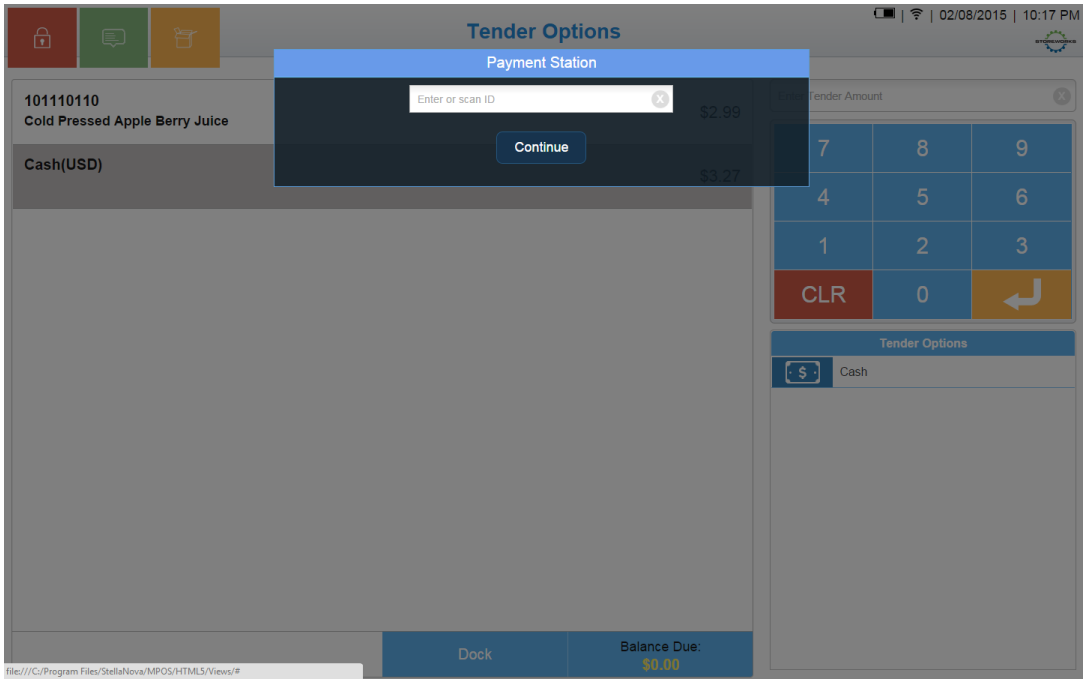

Figure 6: Cash Drawer Entry

7.1.1 Screen Definitions

7.1.1.1 Instruction Text

Instruction Text
Scan or manually enter the payment station name

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

7.1.1.2 Navigation/Menu Keys

Key	Label	State	Next Screen	Notes
Enter	Continue	The button is not enabled until data has been entered into the field.	• Communication Error: Drawer Offline • Drawer Currently in Use: Drawer Unavailable • Error: Cash Drawer does not exist • Error: Cash Drawer does not contain a till. • Error: Till not available to this user. • Error: Cash-Out insufficient funds. • Cash Drawer Opens	

7.1.1.3 Data/Input Field Enhancements

Label	Editable	Req'd?	Data Type	Min Length	Max Length	Notes
Enter payment station ID	Yes	Yes	Alphanumeric	See Notes	See Notes	List of stations is retailed defined

7.2 Prompt for Reason Code

This screen displays after the user has selected Cash-In from the menu. The system prompts the user to select from a configurable list of reason codes for the Cash-In or Cash-Out transactions. The list should be pulled from the Database. The header changes based on the transaction type

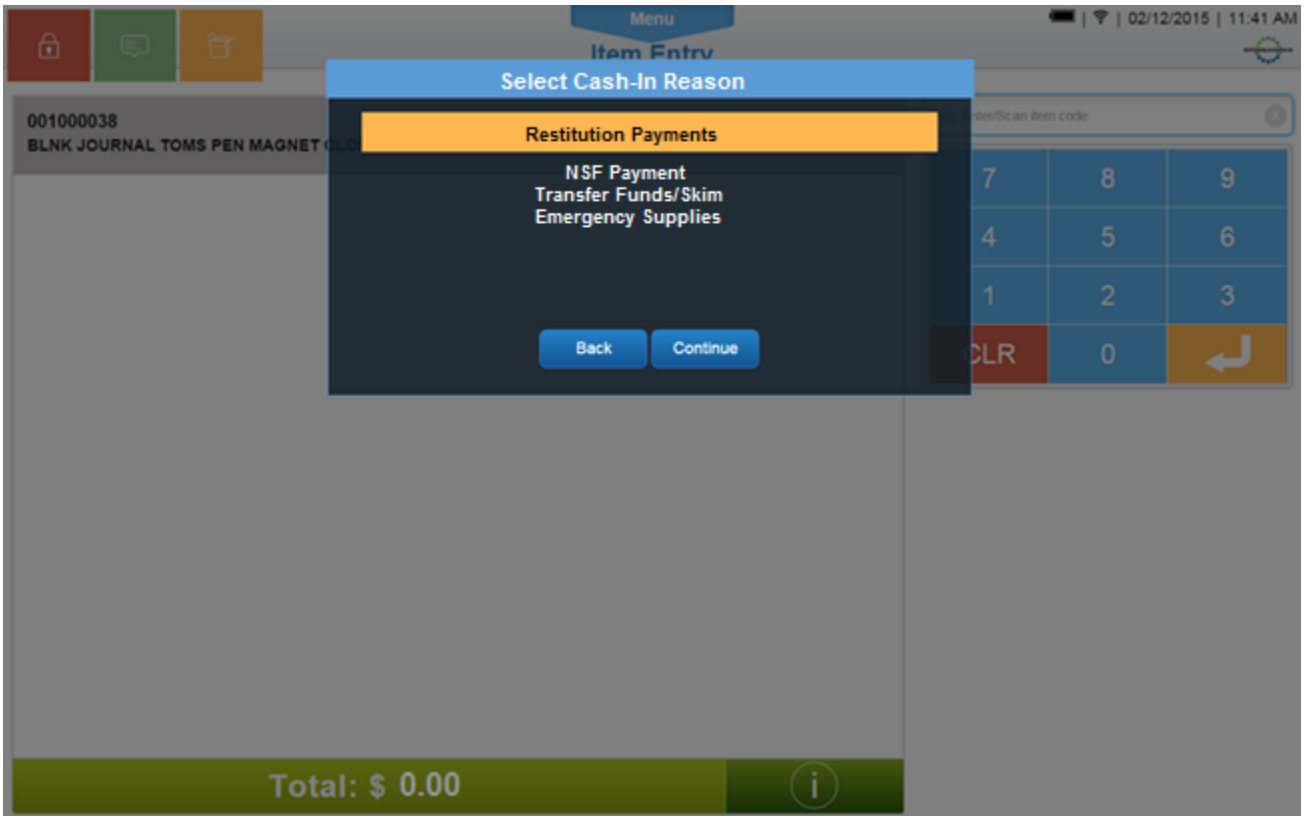

Figure 7: Reason Code Selection

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

7.2.1 Screen Definitions

7.2.1.1 Instruction Text

Instruction Text
For Cash-In Select Cash-In reason
For Cash-Out Select Cash-Out reason

7.2.1.2 Navigation/Menu Keys

Key	Label	State	Next Screen	Notes
	Continue	The button is not enabled until data has been selected.	**Cash-In** • Communication Error • Enter Amount **Cash-Out** • Communication Error • Enter Amount	
	Back	This button is always enabled	Takes the user back to the main selling screen	

7.2.1.3 Data/Input Field Enhancements

Label	Editable	Req'd?	Data Type	Min Length	Max Length	Notes
Reason Code	Yes	Yes	List	N/A	N/A	Reason Code can be configured to prompt for additional information. The additional information prompts and data types are configurable.

7.2.1.4 Reason Code Enhancements

Reason Code	Valid Values	Default Value
Cash-In Reasons	Configurable	None. A reason must be selected.
Cash-Out Reasons	Configurable (can include an indicator on reason code to convert transaction type from "Paid Out" to "Pickup")	None. A reason must be selected

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

7.3 Prompt for Skim Cash Out Amounts

This screen displays when the user has selected the Skim Cash-Out reason.

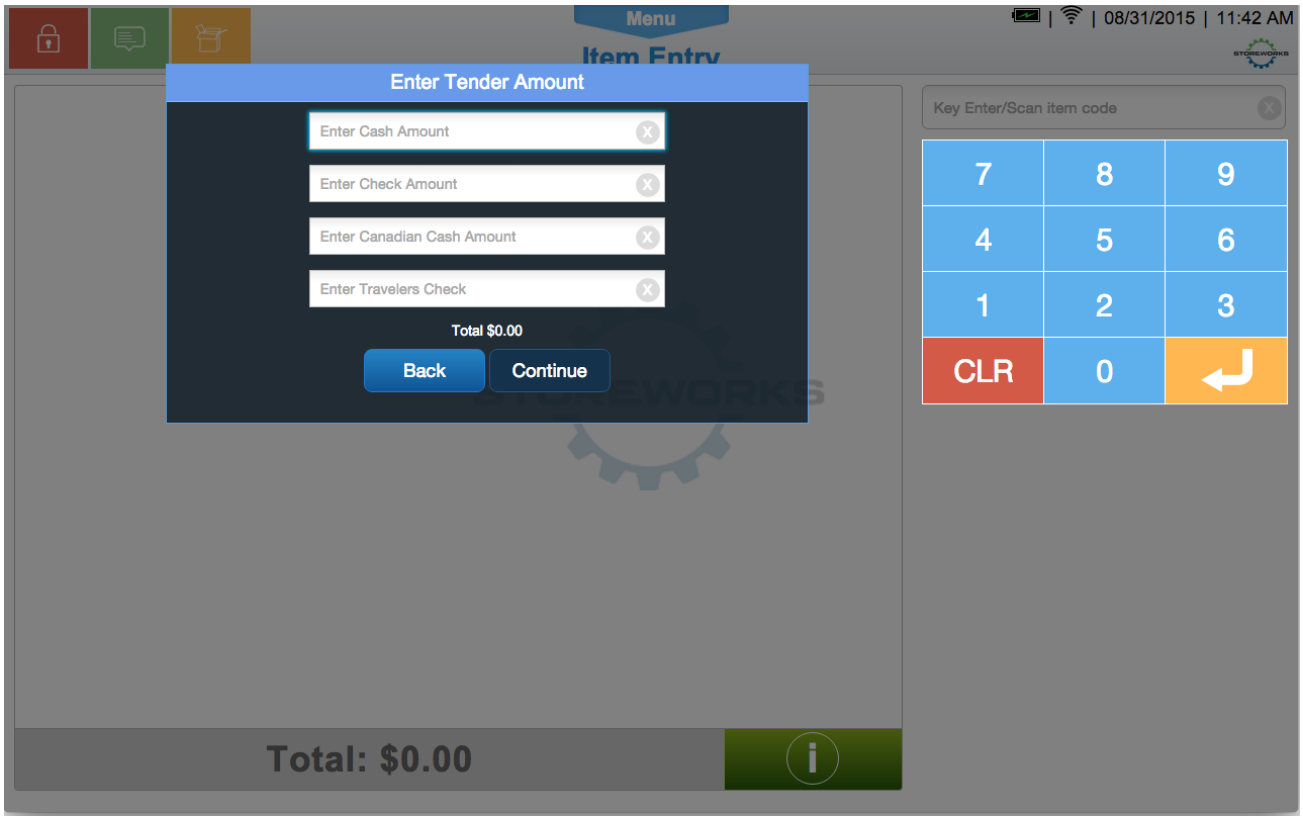

Figure 9: Enter Skim Cash Out Amounts

7.3.1 Screen Definitions

7.3.1.1 Instruction Text

Instruction Text
Enter Tender Amounts

7.3.1.2 Navigation/Menu Keys

Label	State	Next Screen	Notes
Continue	The button is not enabled until data has been entered into the amount.	• Communication Error • Receipt Prints & Use case ends	
Back	This button is always enabled	Takes the user back to the previous screen.	

7.3.1.3 Data/Input Field Enhancements

Label	Editable	Req'd?	Data Type	Min Length	Max Length	Notes
Enter [*Tender*] Amount	Yes	Yes	Currency	4	9	• Mask is 6.2 (note that this should be based on localization.) • A different input field displayed for each valid tender for Skim.

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

7.4 Prompt for Tender

The Tender screen displays after the user has entered all of the appropriate information for the Cash-In or Non-Skim Cash-Out. The screen that is used for a Sale (Cash-In) or Return (Cash-Out). The Tenders that display are based on an Attribute that is assigned to the Tender. The list is different for Cash-In and Cash-Out transactions. The user must enter an amount before selecting the tender; system does not continue without an amount. The reason for the Cash-In or Cash-Out displays in the Item area of the screen.

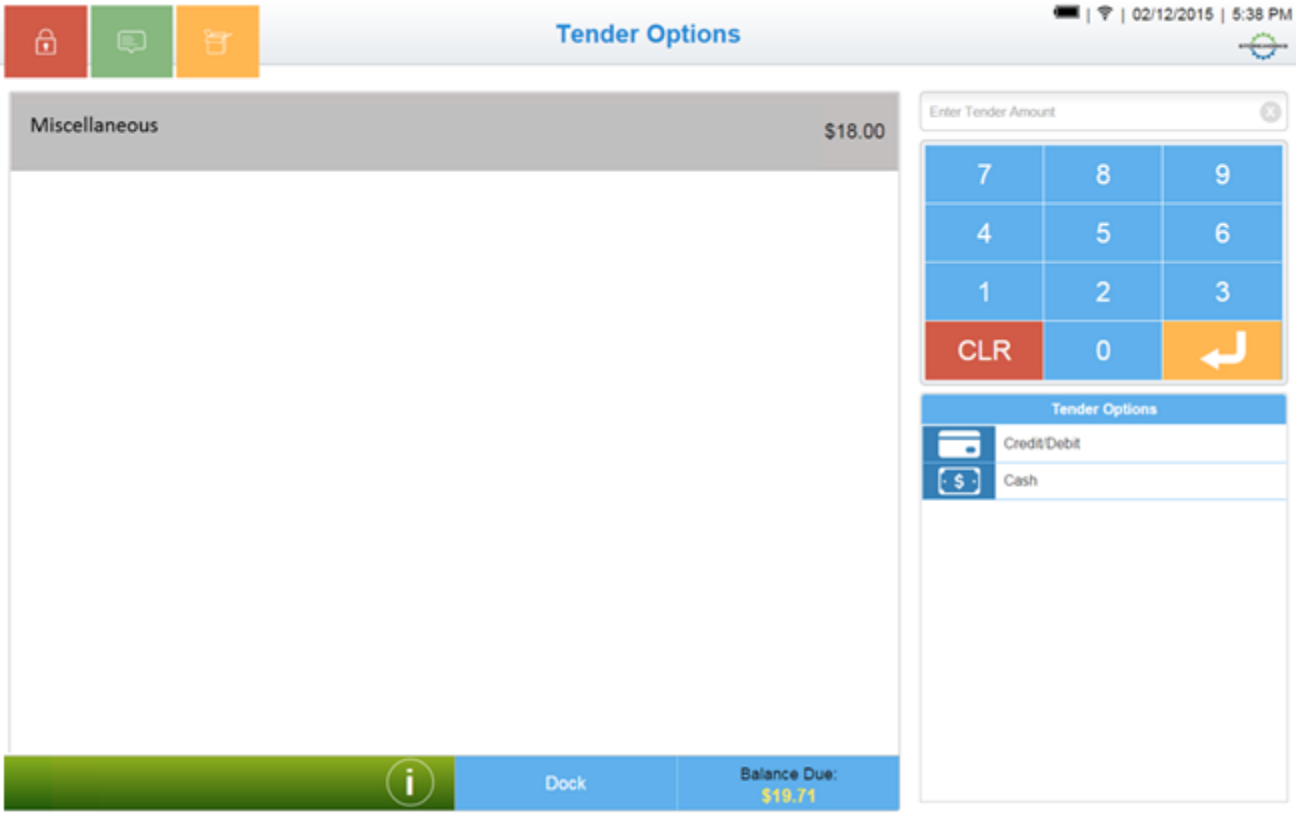

Figure 8: Tender Selection

7.4.1 Screen Definitions

7.4.1.1 Instruction Text

Instruction Text
Tender Options

7.4.1.2 Navigation/Menu Keys

Label	State	Next Screen	Notes
A button for each valid tender	The button is not enabled until data has been entered into the amount.	**Cash-In** • Communication Error • Dependent on the processing of the selected tender **Cash-Out** • Communication Error • Dependent on the processing of the selected tender	• The tender buttons are not enabled until an amount has been entered into the amount field. • The tenders follow the same flow as they do for sale (Cash-In) and return (Cash-Out) transactions.
Dock	Enabled	Allows the user to Dock the device.	Same flow as with a Sale Transaction.

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

7.4.1.3 Data/Input Field Enhancements

Label	Editable	Req'd?	Data Type	Min Length	Max Length	Notes
Enter Amount	Yes	Yes	Currency	4	9	• Mask is 6.2 (note that this should be based on localization.)

7.4.1.4 Reason Code Enhancements

Reason Code	Valid Values	Default Value
None		

7.5 Prompt for Amount

This screen displays when the user has to enter an amount for the Cash-In or Cash-Out.

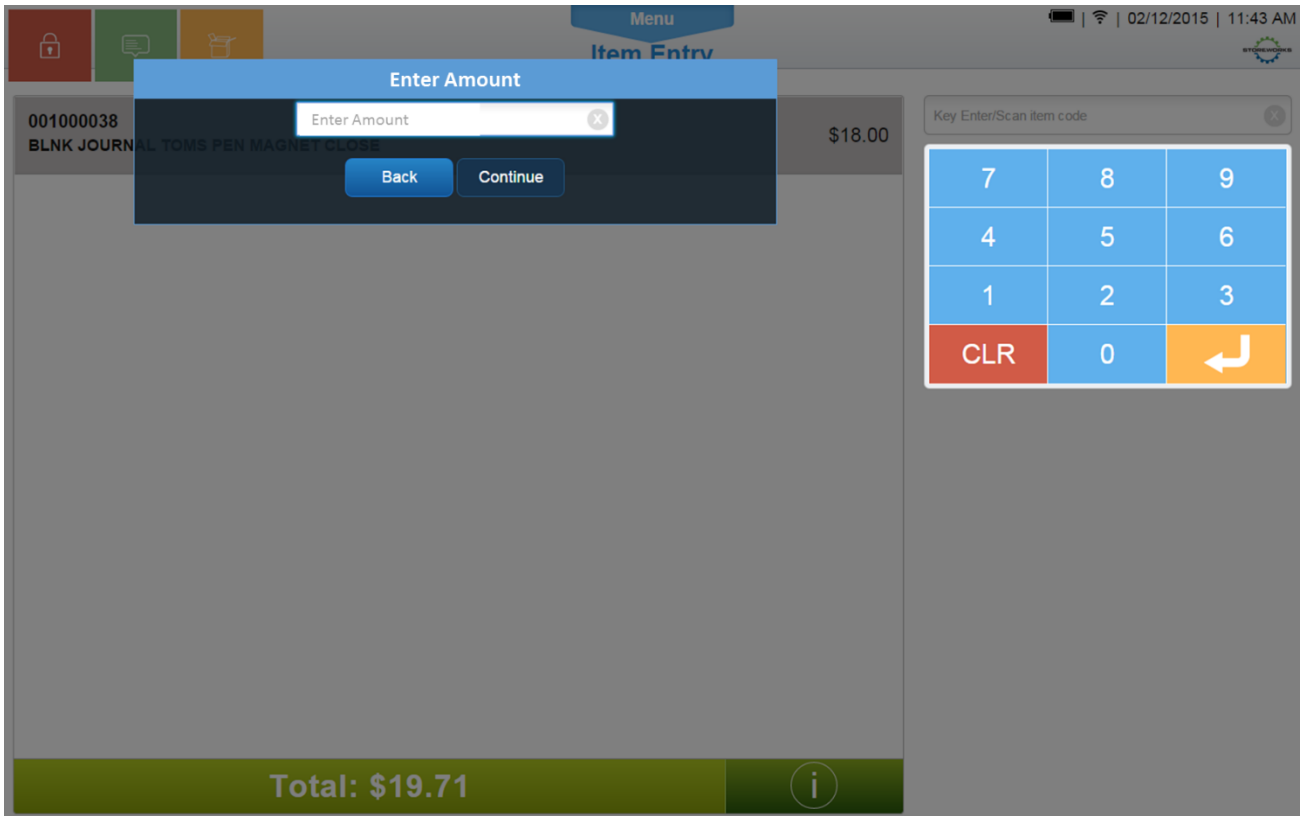

Figure 9: Enter Amount

7.5.1 Screen Definitions

7.5.1.1 Instruction Text

Instruction Text
Enter Amount

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

7.5.1.2 Navigation/Menu Keys

Label	State	Next Screen	Notes
Continue	The button is not enabled until data has been entered into the amount.	• Communication Error • Select a tender	
Back	This button is always enabled	Takes the user back to the previous screen.	

7.5.1.3 Data/Input Field Enhancements

Label	Editable	Req'd?	Data Type	Min Length	Max Length	Notes
Enter Amount	Yes	Yes	Currency	4	9	• Mask is 6.2 (note that this should be based on localization.)

7.6 Prompt for Payee and Comments

This screen displays on a Cash-Out transaction after the amount has been entered.

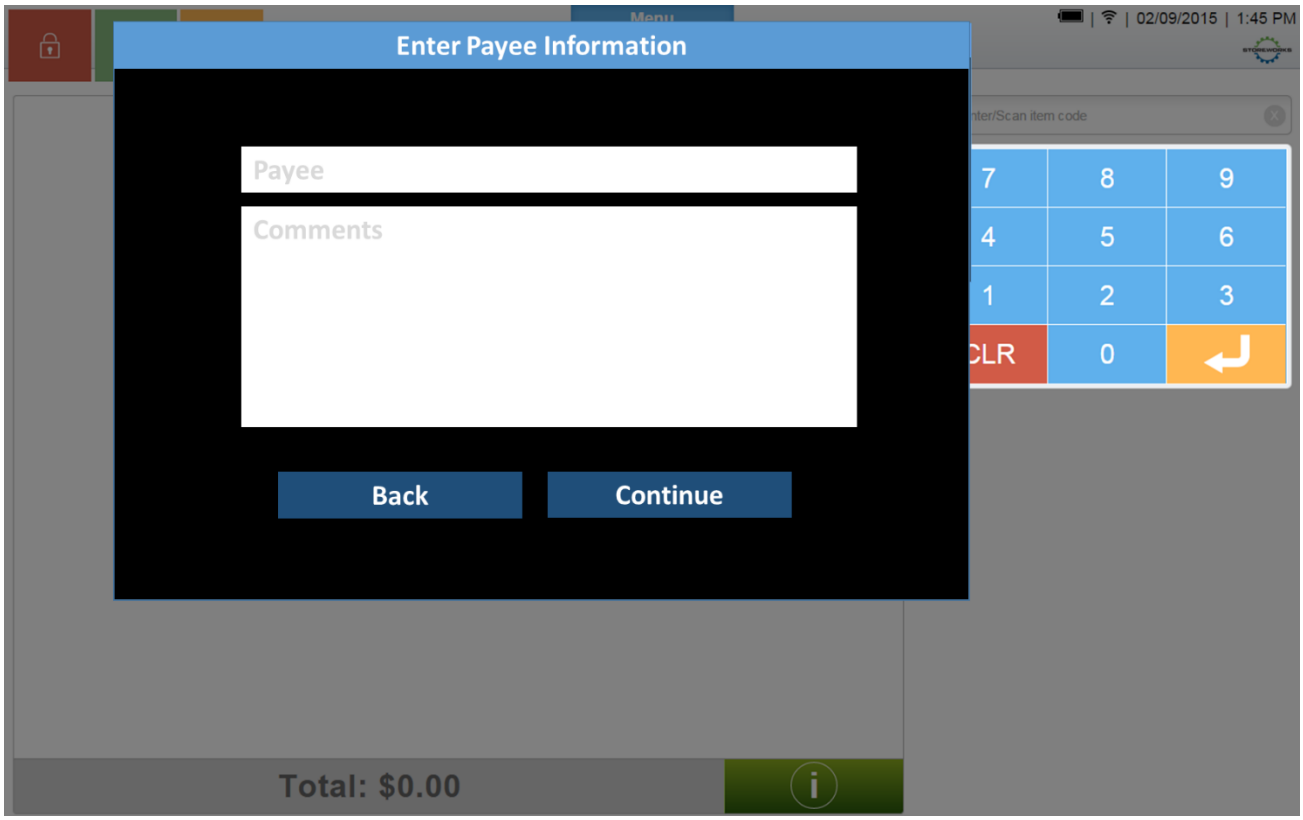

Figure 10: Enter Payee Info

7.6.1 Screen Definitions

7.6.1.1 Instruction Text

Instruction Text
Enter Payee Information

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

7.6.1.2 Navigation/Menu Keys

Key	Label	State	Next Screen	Notes
	Continue	The button is not enabled until data has been entered into the amount.	**Cash-Out** • Communication Error • Tender Selection Screen	
	Back	This button is always enabled	Takes the user back to the previous screen.	

7.6.1.3 Data/Input Field

Label	Editable	Req'd?	Data Type	Min Length	Max Length	Notes
Payee:	Yes	Yes	Text	1	40	Prompt input is configurable
Comment:	Yes	No	Text	1	256	Prompt input is configurable

7.7 Prompt for Comments

This screen displays on a Cash-In transaction after the amount has been entered.

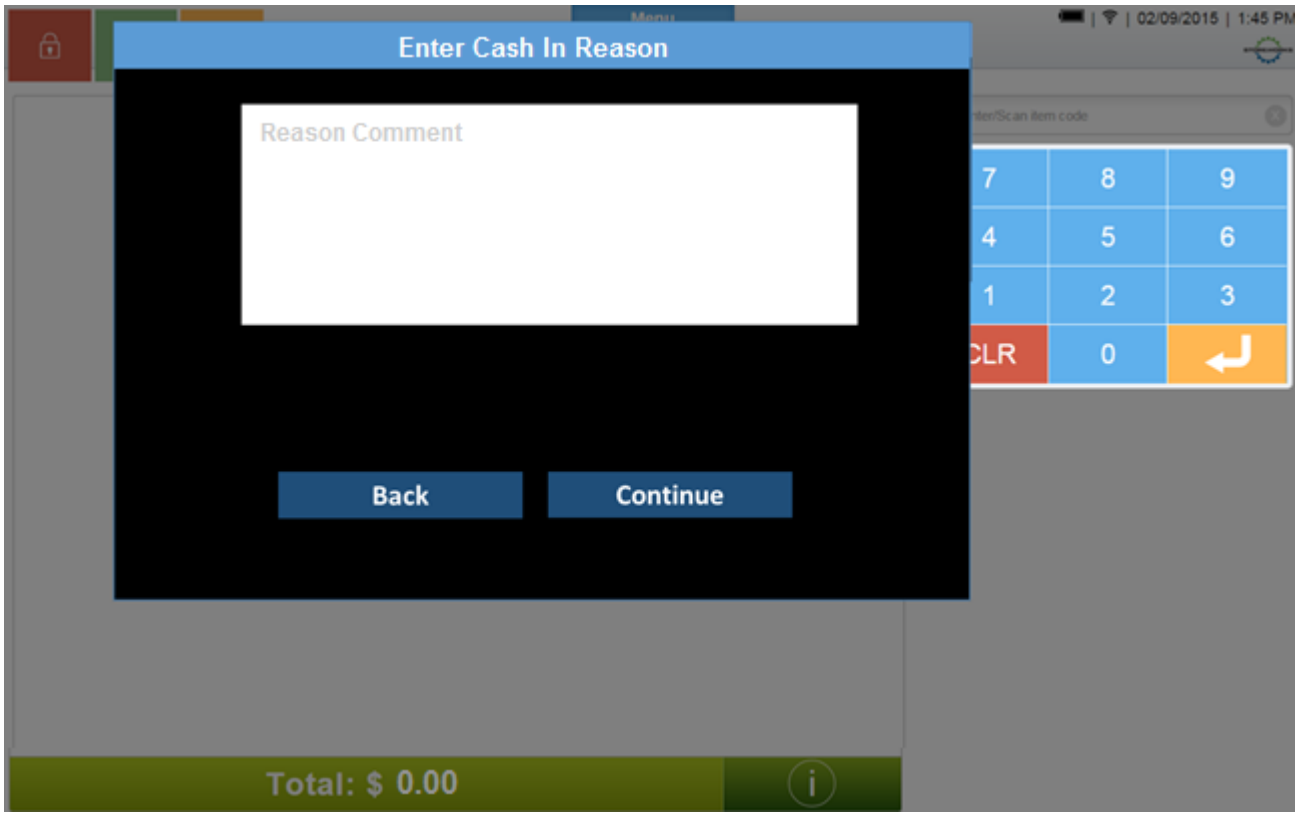

Figure 10: Enter Payee Info

7.7.1 Screen Definitions

7.7.1.1 Instruction Text

Instruction Text
Enter Comments

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

7.7.1.2 Navigation/Menu Keys

Label	State	Next Screen	Notes
Continue	The button is not enabled until data has been entered into the amount.	**Cash-Out** • Communication Error • Tender Selection Screen	
Back	This button is always enabled	Takes the user back to the previous screen.	

7.7.1.3 Data/Input Field Enhancements

Label	Editable	Req'd?	Data Type	Min Length	Max Length	Notes
Comment:	Yes	No	Text	1	256	Prompt input is configurable

7.8 Dialog Messages/Message Boxes

7.8.1 Communication Error Message

Description	This message displays when the client cannot communicate with the server
Message	Communication Error. Please try again
Key prompt	Select OK to continue.
Notes	Configurable generic message used when there is a communication error

7.8.2 Drawer In Use Message

Description	This message displays when the cash drawer that the user selected is in use by another device
Message	Cash Drawer in Use.
Key prompt	Select OK to continue.
Notes	Configurable generic message. Once the user selects OK, the application transitions back to the cash drawer entry screen.

7.8.3 No Till in Drawer Message

Description	This message displays when the cash drawer that the user selected does not contain an active Till
Message	There is no Till in the selected cash drawer
Key prompt	Select OK to continue.
Notes	Configurable generic message. Once the user selects OK, the application transitions back to the cash drawer entry screen.

7.8.4 Drawer not available to this user Message

Description	This message displays when the operator selects a cash drawer that has a till assigned to a different operator or the operator has a till assigned but it is in a different cash drawer.
Message	You are not authorized to add or remove funds from this cash drawer.
Key prompt	Select OK to continue.
Notes	Configurable generic message. Once the user selects OK, the application transitions back to the cash drawer entry screen.

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

7.8.5 Insufficient Funds Message

Description	This message displays when the user enters an amount for a tender that is greater than the amount of that tender in the drawer.
Message	The amount that was entered was greater than the current amount in the drawer.
Key prompt	Select OK to continue.
Notes	Configurable generic message. The application transitions back to the count screen and the cursor is on the amount field of the tender that was entered incorrectly.

7.9 Signature Capture Device

The Cash-In and Cash-Out functionality could interact with the pin pad device if a credit tender is configured as a valid tender. In this case, system processes same as a credit return/sale transaction tender.

8. Printing

8.1 Receipt Changes

8.1.1 Cash-In Receipt

The Cash-In receipt prints at the end of the transaction. It contains a header, the reason selected, a line with the Cash-In amount, a Total, the tender(s) used with the amount and a place for manager signature. See the **SNS_mPOS_Receipt Generation** Word document for the layout of the receipt.

8.1.2 Cash-Out Receipt

The Cash-Out receipt prints at the end of the transaction. It contains a header, the reason selected, a line with the Cash-Out amount, a Total, the tenders(s) used with the amount and a place for manager signature. See the **SNS_mPOS_Receipt Generation** Word document for the layout of the receipt.

9. Configurable Settings

Parameter Mnemonic	Description	Valid Values
Cash In Allowed	Determines if the Pay In functionality is enabled. If not, the option is not displayed in the UI.	• Yes • No
Cash Out Allowed	Determines if the Pay Out functionality is enabled. If not, the option is not displayed in the UI.	• Yes • No
Cash-In Tender attribute	Determines if the tender is allowed to be used in the Cash-In transaction	• Yes • No
Cash-Out Tender attribute	Determines if the tender is allowed to be used in the Cash-Out transaction	• Yes • No
Cash-Out Reason Code Manager Approval Attribute	Determines if the selected reason code requires a manager approval to continue.	• Yes • No
Cash-In Reason Code Manager Approval Attribute	Determines if the selected reason code requires a manager approval to continue.	• Yes • No

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

10. Logging Changes

10.1 Data Output

Data Element	Description	Destination
Transaction Type	Shows the transaction type for the transaction.	• Dirty Electronic Journal • POSLog
Reason code	The reason code that was selected by the user	• Dirty Electronic Journal • POSLog
Payee	Entered data from the user	• Dirty Electronic Journal • POSLog
Comments	Entered data from the user	• Dirty Electronic Journal • POSLog
Tender.Name	Name of the tender that was used	• Dirty Electronic Journal
Tender Type	The mnemonic for the tender that was Cash-In or Cash-Out. This corresponds to the tender name above	• POSLog
"Amount"	The amount of the Tender that was used.	• Dirty Electronic Journal • POSLog

10.2 Electronic Journal Logging Changes

10.2.1 Cash-In

The following defines the data logged in the electronic journal for a Cash-In transaction. **NOTE**: There is a line for each tender used for a Cash-In transaction (Database driven).

```
Transaction No: 75
Operator No:    3111
Terminal No:    2
                                        Cash-In

Reason for the transaction
                Amount:    $20.00
                Tender Description:    $ 20.00
End Transaction
```

Figure 11: EJ Logging

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

10.2.2 Cash-Out

The following defines the data logged in the electronic journal for a Cash-Out transaction. **NOTE**: There is a line for each tender used for a Cash-Out transaction (Database driven).

```
Transaction No: 75
Operator No:    3111
Terminal No:    2
                                        Cash-Out

Reason for the Transaction
                Amount:  $20.00
Payee:  <Operator Entered Data>
Comment: <Operator Entered Data>
                <Tender Description>:  $20.00
End Transaction
```

Figure 12: EJ Logging

10.3 POSLog Changes

There are two new transactions created in the PosLog. One for Cash-In and one for Cash-Out.

10.3.1 Cash-In/Cash-Out

10.3.1.1 Schema Changes

The following schema defines the POSLog for the Cash-In and Cash-Out transactions.

```
<xs:complexType name="POSLogTenderControlTransaction">
        <xs:sequence>
                <xs:element name="Shift" type="POSLogShift" form="qualified" minOccurs="0"/>
.
.
.
                <xs:element name="PaidIn" form="qualified">
                        <xs:complexType>
                                <xs:complexContent>
                                        <xs:extension base="POSLogTotals">
                                        <xs:attribute name="TenderType" type="TenderTypeCode" form="unqualified"/>
                                        </xs:extension>
                                </xs:complexContent>
                        </xs:complexType>
                </xs:element>
                <xs:element name="PaidOut" type="POSLogTCPaidOutType" form="qualified"/>
.
.
.
</xs:complexType>
.
.
.
<xs:complexType name="POSLogTCPaidOutType">
        <xs:complexContent>
                <xs:extension base="POSLogTotals">
                        <xs:sequence>
                                <xs:element name="DocumentID" form="qualified" minOccurs="0" maxOccurs="unbounded">
                                        <xs:complexType>
                                                <xs:simpleContent>
                                                        <xs:extension base="xs:string">
                                                                <xs:attribute name="Name" type="xs:string" use="optional"
form="unqualified"/>
```

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

```
                                                                    <xs:attribute name="TypeCode" type="DocumentIDTypeCode"
use="optional" default="Invoice" form="unqualified"/>
                                                                </xs:extension>
                                                            </xs:simpleContent>
                                                        </xs:complexType>
                                                    </xs:element>
                                                </xs:sequence>
                                            </xs:extension>
                                        </xs:complexContent>
</xs:complexType>
```

The following maps the data from the data from the transaction to the POSLog entries:

11. Interface Changes

None

12. Out Of Scope

- *This Specification covers the changes needed to implement the changes for Cash-In and Cash-Out. Functionality that has no changes from the current processes is not covered unless needed to provide context.*

13. Change Requests Under Consideration

1. When prompting for additional information based on reason selected, make data type and text description configurable.

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

14. Business Sign Off (Sections 2, 3, 4, 5, 6, 7 & 8)

Name	Organization	Approval Email and/or Date Received
Jesse Wielgan	Best Buy	

15. Technical Sign Off

Name	Organization	Approval Email and/or Date Received
Mark Houghton	Best Buy	
Kevin Bahng	Best Buy	

16. Technical Review

Name	Organization	Approval Email and/or Date Received
Andy Liang	Best Buy	

17. Technical Inform

Name	Organization	Approval Email and/or Date Received
Gaurav Savant	Best Buy	
Greg Irvine	Best Buy	
David Hawkins	Storeworks	
Mark Donley	Storeworks	
Vinodh Narayanan	Storeworks	

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

18. Revision History

18.1 Reviews

Date	Iteration	Result
7/23/2015	V1.0 – Internal Review	Updates in v1.1
8/6/2015	V1.1 – BBYCA Review	Updates in v1.2

18.2 Revision History

Reviser	Revision	Date	Version
Amy Byers	Created Document	7/1/2015	1.0
Amy Byers	Updates from Internal Review	7/28/2015	1.1
Amy Byers	– Section 2.1: Updated screens in the flow. – Sections 3.1, 3.3, 3.4.1, 4.1, 4.3 & 4.4.1: ○ Added that prompts are configurable based on reason code selected. ○ Added automatically tendering if only one valid tender configured. ○ Added if fixed register is a hard deny for invalid till. – Section 4.5: Added section to define reason code configuration to convert to Pickup Transaction type. – Sections 7.2 & 7.7: Corrected screen mockup. – Section 7.2.1.4: Removed valid reason code values and changed to configurable and defined indicator on cash out reason codes to convert to Pickup transaction type. – Section 7.6.1.3 & 7.7.1.3: Clarified that fields are configurable. – Section 13: Added section to identify change requests under consideration. – Section 17: Replaced Sam Martinez with Gaurav Savant & corrected Greg Irvine's name	8/18/2015	1.2
Amy Byers	– Sections 2.1.2 & 4.1: Updated flow to follow base and current flow more closely. – Section 2.1.3: Added different flow for Skim Cash Out – Section 3.3: Moved Manager approval to after entering amount. – Section 4.3: ○ Moved till status to after assigning a tran number. ○ Added reference to Skim alternate flow when skim reason selected. ○ Separated available funds alternate flow and till status to allow access at two different points of the flow. – Sections 4.4.1 & 4.4.2: Separated available funds alternate flow and till status to allow access at two different points of the flow. – Section 4.4.3: Added Skim cash out alternate flow with new screen – Section 7.3: Added Skim amount prompt screen.	9/18/2015	1.3
Amy Byers	– Sections 3.1 & 3.3: Updated flow to check device type first, then valid till.	9/24/2015	1.4
Amy Byers	– Section 4.1: Updated flow to clarify different payment station types. – Section 6: Added assumptions regarding transaction types to log for specific cash in/cash out reasons.	9/25/2015	1.5

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.

Reviser	Revision	Date	Version
Amy Byers	**CR SWBBYC124** – Section 4: ○ If not enough tender in cash drawer of a fixed register, display error message and end use case. ○ If only one tender configured for cash out, system automatically tenders the transaction. – Section 7.8.5: Error message if insufficient funds in till. – Section 7.2.1.3: Added that Reason codes can be configured to prompt for additional information and additional information prompts and data types are configurable.	10/27/2015	1.6
Amy Byers	– Sections 2.1.1, 2.1.2, 7.4 & 7.4.1.2: Changed Tender screen to remove back option – Sections 3.2 & 4.2: Removed that Cash Management is inside Admin Menu.	12/17/2015	1.7

Copyright © 2014 Storeworks Technologies, LTD. All rights reserved.
This document contains confidential and proprietary information owned by Storeworks Technologies, LTD. It may not be copied or distributed to anyone without prior written authorization from Storeworks Technologies, LTD.