# xPOS **DCS PLCC with FiPay Technical Specification**

Version 1.2 Prepared By: Amy Byers Revision Date: 6/1/2016

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#### 1. Overview

#### 1.1 Description

Best Buy PLCC cards can be used as financing cards or as Visa credit cards and complete real time authorizations. These authorizations are completed through FiPay processes and need specific changes to xPOS to handle the new authorization process.

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### 2. User Impacts

User sees no new flow. xPOS flows the same as other Cards.

### 3. Use Case: DCS Tender Authorization

#### 3.1 Use Case Flow

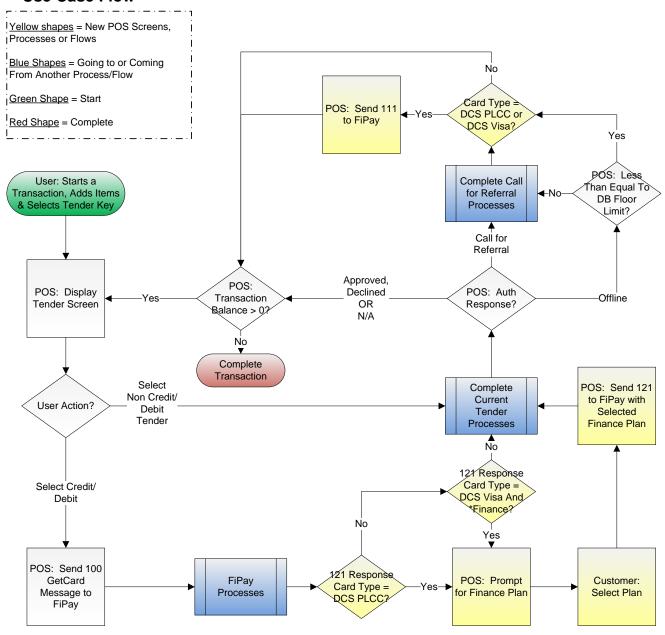


Figure 1: DSC Tender Authorization Flow

#### 3.2 Preconditions

- User signs into xPOS client
- · User enters items.
- User selects Tender key.
- User Enters Credit Card (insert, swipe or manual entry)

#### 3.3 Main Flow

- 1. System evaluates the Card Type of the 121 Response.
- 2. If Card Type is not DCS Visa or DCS PLCC, use case ends and system returns to Credit Use Case (BBYC\_mPOS\_Credit-Debit-EMV FDoc) to complete tender processing.
- 3. If the Card Type is DCS Visa and field 21 does not have \*Finance (section 11.1), then use case ends and system returns to Credit Use Case (BBYC\_mPOS\_Credit-Debit-EMV FDoc) to complete tender processing.

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- 4. If the Card Type is DCS PLCC or DCS Visa with field 21 containing \*Finance (section 11.1), System executes Finance Credit Tender Use case (BBYC mPOS Finance Tender FDoc) and completes tender processing.
- 5. Use case ends.

### 4. Other Feature Impacts

#### 4.1 Credit Debit Impacts

Added reference to this document for cancel from PinPad and for DCS tenders and added offline processes.

#### 4.2 ESC to Item Entry from Tender after Tender Added

There are no changes when a DCS-PLCC or DCS Visa tender is added to the transaction and user selects to return to item entry. System continues to evaluate the reuse authorization flag for the tenders to determine if a change in tender amount can reuse the authorization code without voiding the tender. **NOTE**: Assumption is that reuse is not allowed for DCS cards.

#### 4.3 Void Tender and Transaction Impacts

Voiding DCS tenders follow current processes to check the tender voidable and send cancellation message on void flags to send reversals on voiding of the tender. The void/reversal message is defined in section 11.1.6. If the 101 response is not 'approved', then ePOS sends a 111 (section 11.1.5) request to FiPay. System continues with the void regardless of the 111 response from FiPay. **NOTE**: A Void chit prints as current.

#### 4.4 Return and Adjustment Impacts

R11\_BBYCA\_Phase 2 Return Tender Tech Spec is updated to define processes during a return transaction.

#### 4.5 Reboot Impacts

If the register reboots after adding a DCS tender and before transaction completes, then System sends a reversal (section 11.1.6) when the register initiates. If this request does not receive a response, a 111 request (section 11.1.5) is sent to FiPay. System continues regardless of the 111 response.

### 5. Assumptions

- 1. DCS-PLCC and DCS-Visa tenders are configured to be voidable and to send cancellation messages on void.
- 2. The magnetic stripe format for DCS cards follows standard format used by other accepted credit cards.
- 3. DCS Tenders can be partial tenders.

### 6. Screen Layouts

#### 6.1.1 Dialog Messages/Message Boxes

**6.1.1.1** Financing Prompt Message

Description	When POS determines that a manually entered tender is a DCS-Visa card, message displays to determine if finance plans need to prompt.				
Message	Apply Financing to Tender				
Key prompt	<ul><li>Yes continues to current finance plan prompting process.</li><li>No continues tendering as a Visa.</li></ul>				
Notes	<ul><li>'No' key has focus</li><li>Text for message box, Yes key, No key is configurable</li></ul>				

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### 7. Printing

### 7.1 PLCC Receipt Changes

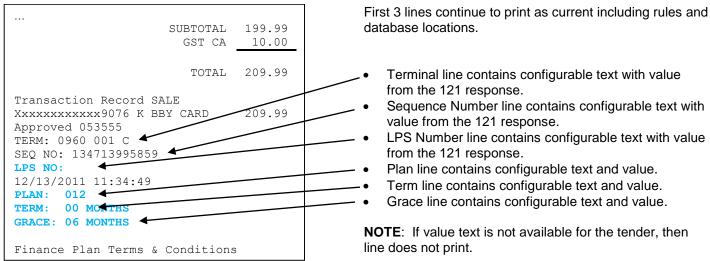


Figure 2: PLCC Receipt Example

#### 7.1.1 Field Definitions

Name	Description
Terminal Line	Text label to Print with the value in field 7 (IxTermID) in the response from AJB (section 11.1)
Sequence Number	Text label to Print with the value in field 47 (IxBatchNumber) in the response from AJB (section 11.1)
LPS Number	Text to label Print with the 3 digit value with first digit containing entry method (D=Swipe, C=Chip and T=keyed/manual entry), the second digit is '@' and the third digit is auth type (1=online, 5= referral).
Plan information	Text label to Print with configurable value.
Term information	Text label to Print with configurable value.
Grace Period Information	Text label to Print with configurable value.

#### 7.2 VISA Receipt Changes

199.99 SUBTOTAL GST CA 10.00 TOTAL 209.99 Transaction Record SALE Xxxxxxxxxxxx9076 K VISA 209.99 Approved 053555 TERM: 0960 001 C SEQ NO: 134713995859 ◆ LPS NO: 12/13/2011 11:34:49 ACI/ISO: 001 / 00 ← AID: A00000000031010 APN: VISA

First 3 lines continue to print as current including rules and database locations.

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- Terminal line contains the text defined in section 7.1.1.
- Sequence Number line contains the text defined in section 7.1.1.
- LPS Number line contains the text defined in section 7.1.1.

**NOTE**: ACI/ISO does not print when approval is offline.

**NOTE**: If replacement text is not available for the tender, then line does not print.

### 7.3 Tender Void Receipt Changes

Welcome to the POS Corporate Office (999) 999-9999 POS LAB TESTING

BAR CODE

Val # 1234-2432-2344-2542 0004 001 9620 09/29/2005 15:31 1

05 15:31 1234098

#### **SALE TENDER VOID**

The following tenders were voided:

xxxxxxxxxxxx9876 K VISA AID: A000000000031010

20.00

BEST BUY
APPROVAL 08941A
ACI/ISO 001/00
SEQ 001001001001

**NOTE**: ACI/ISO does not print when approval is offline. Response line does not print when approval is offline

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### 8. Back Office Reports

#### 8.1 Store Accounting Total

The new DCS tenders are added to the Store Accounting Total Report as shown below in blue.

STORE ACCOUNTING TOTALS

Store # 929 OPERATOR - 123456 Run Date - 12/12/07 16:28 12/12/14 - 12/12/14

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Best Buy

PAYMENT METHODS AMOUNT COUNT

CDN Cash VISA MasterCard Amex Canadian Cheque Travelers Cheque Gift Card Store Credit

Layaway Deposit US Dollar

US Trav Cheque House Account

Debit

Coupon (Mfg)

DCS Visa

DCS PLCC RZCERT (FS Points in Future Shop Stores)

TRANSACTION TYPES AMOUNT COUNT

SALE
RETURN
EXCHANGE
PRICE MATCH
PRICE CORRECTION
MFG WARRANTY EXCHANGE
PSP EXCHANGE
LOST/DAMAGED EXCHANGE
NO SALE

VOID TRANSACTION

EXCEPTION

PRODUCT SERVICE UPGRADE

CASH IN
CASH OUT
EMPLOYEE SALE
EMPLOYEE RETURN
EMPLOYEE EXCHANGE
EMPLOYEE PRICE MATCH
EMPLOYEE PRICE CORRECTION

EMPLOYEE MFG WARRANTY EXCHANGE

EMPLOYEE PSP EXCHANGE

EMPLOYEE LOST/DAMAGED EXCHANGE

PAYMENT ON ACCOUNT-CREDIT

PAYMENT ON ACCOUNT-HOUSE ACCT

ACCOUNT REFUND LAYAWAY DEPOSIT

PRE-SELL

GC ISSUE/RELOAD

GC CASH OUT

#### 8.2 Detail Transaction Listing

DCS Tenders are added to the report criteria screen to create the Detail Transaction Listing report.

# 9. Configurable Settings

Parameter Mnemonic	Description	Valid Values
DCS PLCC Tender Code	DCS PLCC Tender code for logging	80
DCS Visa Tender Code	DCS Visa Tender code for logging	81
DCS PLCC Bin Range	DCS PLCC Bin Range for determining card type	453094
DCS Visa Bin Range	DCS Visa Bin Range for determining card type	453091
DCS Finance Plans	DCS Finance plans for determining plans for the tender type	These new plans are defined using current finance plan processes.
DCS Finance Plan Financing Type	DCS Finance Plan Financing Type sent in authorization message. Values configured by BBYCA and stored and associated with current finance plan information.	'D' – Deferred Payments, 'E' – Equal Payments
DCS Finance Plan Number	DCS Finance Plan number, different from current plan numbers, sent in authorization message. Values configured by BBYCA and stored and associated with current finance plan information.	3 Alphanumeric characters
DCS Finance Plan Grace Period	DCS Finance Plan grace period with deferred payment transaction sent in authorization message. Values configured by BBYCA and stored and associated with current finance plan information.	2 digit numeric value. Must be "00" for equal payments, refunds or preauthorization reversal
DCS Finance Plan Payment Term Months	DCS Finance Plan number of payments (in months) for transactions with equal payments sent in authorization message. Values configured by BBYCA and stored and associated with current finance plan information.	2 digit numeric value representing months. Must be "00" if a transaction with deferred payment, a refund or a preauthorization reversal.
Credit Plan	A flag on the finance plans to identify the finance plan as a credit plan for authorization	0/1 flag where 1 = process as credit. 0 or NULL processes as finance/AccordD

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# 10. Logging

#### 10.1 Electronic Journal Logging Changes

The card type description from the database prints as the card type in the dirty Electronic Journal same as current processes. **NOTE**: When system converts EMV tender to swiped, tender is logged as swiped in Electronic Journal.

### 10.2 POSLog Changes

No POSLog Changes, the new tender codes log as current. **NOTE**: When system converts EMV tender to swiped, tender is logged as swiped in POSLog.

# 11. Interfaces

### 11.1 FiPay Interface

### 11.1.1 100 Credit Request from ePOS to FiPay (when account number handkeyed)

New Data in blue.

	Field	
Name	No.	Description
IxTransactionType	1	"100"
IxCreditInterfaceIdentification	3	Set ttssss where tt = right 2 digits of IxTerminalNumber (padded on left with 0 to be 2 digits) and ssss = 1 - 9999 value, right justified padded with 0
IxTimeOut	5	Timeout value in seconds
IxDebitCredit	6	"Credit"
IxStoreNumber	8	Store Number – "xxxx" maximum of 4 characters
IxTerminalNumber	9	Register Number – "xx" maximum of 2 characters
IxTranType	10	"Sale" or "Refund"
IxAccount	13	Card Account number
IxExpDate	14	Card Expiration Date
IxSwipe	15	Track 2 data without sentinels for swiped transactions
IxAmount	16	Amount with no decimal point
IxInvoice	17	Sequence Number "xxxxx" maximum of 5 characters (Use Transaction Sequence Number)
IxForceAuthCode	19	If return transaction, use "999999"
IxOptions	21	if DCS PLCC add "*privatelabel3"
IxOperator	24	Employee ID
IxIssueNumber	25	8 alphanumeric character in format of FPPPGGTT where
		<ul> <li>F = Financing type ('D' - Deferred Payments, 'E' - Equal Payments) from FCODE2_VU.FTYPE database as defined in section 9.</li> <li>PPP = Plan number (always right justified and filled with zeros on the left) from FCODE2_VU.EXT_PLAN_NO as defined in section 9.</li> <li>GG = Grace period (grace period with derffered payment transactions. Must be "00" for equal payments, refunds or</li> </ul>
		preauthorization reversal) from FCODE2_VU.GRACE_PD as defined in section 9.  • TT = Term (number of payments (in months) for transactions with equal payments. Must be "00" if a transaction with deferred payment, a refund or a preauthorization reversal.) from FCODE2_VU.PYMT_TERM_MO as defined in section 9.
IxAVSMailOrderAVSData	31	Security code in *CVV2_####
IxPosEchoField	34	POS Sequence number
IxDate	50	If not supplied, AJB will put the current date
IxTime	51	If not supplied, AJB will put the current time

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### 11.1.2 121 Response From FiPay to ePOS

New Data in blue.

	Field	
Name	No.	Description
IxTransactionType	1	"121"
IxCreditInterfaceIdentification	3	"PosValidate
IxTimeOut	5	Echo from 100 request
Ix TimeOut Ix Debit Credit	6	·
IXDebitGredit	ь	Tender Type  • Credit
		Debit
		GiftCard
IxStoreNumber	0	Store Number – "xxxx" maximum of 4 characters
	8	
IxTerminalNumber	9	Register Number – "xx" maximum of 2 characters
IxTranType	10	"Sale" or "Refund"
IxCardType	12	Tender Description
		DCS Visa
	4.0	DCS PLCC
IxAccount	13	Masked Account Number
IxExpDate	14	Expiration
IxSwipe	15	Track 2 data from the card that was swiped or inserted at the PIN pad.
IxAmount	16	Amount with no decimal point
IxInvoice	17	Sequence Number "xxxxx" maximum of 5 characters (Use Transaction
		Sequence Number)
IxTranLanguage	18	Transaction language to be used if not in track data
IxOptions	21	*CEM_Insert - entry method EMV
		*Contactless - entry method contactless
		*CEM_Swiped - entry method swiped
		*FALLBACK_EMV
		*pos_validate_swipe
		*GetCard
		*Finance
IxOperator	24	Employee ID
IxPosEchoField	34	Echo from POS 100 message
IxLanguage	49	Language in which the response should come
IxDate	50	If not supplied, AJB will put the current date
IxTime	51	If not supplied, AJB will put the current time
IxProductInfo	56	<ul> <li><signature>No</signature> - Signature is not required</li> </ul>
		<ul> <li><signature>Yes</signature> - Signature is required.</li> </ul>
		<ul> <li><signature></signature> - (field is missing) – If field 21 (IxOptions)</li> </ul>
		contains "FALLBACK_EMV" and field 6 (IxDebitCredit) = "Credit", then
		signature is required.
		<ul> <li>&lt;4f&gt; - value is the Application Identifier to be printed on receipt.</li> </ul>
		<ul> <li>&lt;9f12&gt; - Value is the Application Preferred Name to be printed on</li> </ul>
		receipt.

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### 11.1.3 121 Request From ePOS to FiPay

New Data in blue.

	Field	
Name	No.	Description
IxTransactionType	1	"121"
IxDebitInterfaceIdentification	2	0 - Validation Passed; continue processing
		1 - Validation Failed; stop processing.
IxCreditInterfaceIdentification	3	"PosValidate
IxActionCode	4	0 = Authorized / Approved / Successful
		• 1 = Declined
IxTimeOut	5	Echo from FiPay Response
IxDebitCredit	6	Echo from FiPay Response
IxStoreNumber	8	Store Number – "xxxx" maximum of 4 characters
IxTerminalNumber	9	Register Number – "xx" maximum of 2 characters
IxTranType	10	"Sale" or "Refund"
IxCardType	12	Echo from FiPay Response
IxAccount	13	Echo from FiPay Response
IxExpDate	14	Echo from FiPay Response
IxSwipe	15	Blank out what was received from response.
IxAmount	16	Amount with no decimal point
IxInvoice	17	Sequence Number "xxxxx" maximum of 5 characters (Use Transaction Sequence Number)
IxTranLanguage	18	Echo from FiPay Response
IxOptions	21	Echo from FiPay Response. If a PLCC tender, then add "privatelabel3" NOTE: DCS PLCCs do have expiration dates, therefore the "NOEXPCHECK" used for other PLCCs is not added.
IxOperator	24	Employee ID
IxIssueNumber	25	<ul> <li>8 alphanumeric character in format of FPPPGGTT where</li> <li>F = Financing type ('D' - Deferred Payments, 'E' - Equal Payments) from FCODE2_VU.FTYPE database as defined in section 9.</li> <li>PPP = Plan number (always right justified and filled with zeros on the left) from FCODE2_VU.EXT_PLAN_NO as defined in section 9.</li> <li>GG = Grace period (grace period with derffered payment transactions. Must be "00" for equal payments, refunds or preauthorization reversal) from FCODE2_VU.GRACE_PD as defined in section 9.</li> <li>TT = Term (number of payments (in months) for transactions with equal payments. Must be "00" if a transaction with deferred payment, a refund or a preauthorization reversal.) from FCODE2_VU.PYMT_TERM_MO as defined in section 9.</li> </ul>
IxMailOrderAVSData	31	<ul> <li>Left blank for account lookup.</li> <li>Secure identification number (CID) and AVS information</li> <li>*CVV2_#### - This option is used to pass the CID, CVV2 or HVN2 to the bank for verification and is required for a card not present transaction.</li> <li>*AVS_zip_address - This option is used to pass the zip code and street address associated to the card for a card not present transaction that is not a telephone order.</li> <li>*TO_zip_address- This option is used to pass the zip code and street address associated to the card for a card not present transaction that is not a telephone order.</li> <li>Null</li> <li>NOTE: Field cannot contain spaces. They must be changed to hyphens.</li> </ul>
IxPosEchoField	34	Echo from FiPay Response

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	Field	
Name	No.	Description
IxLanguage	49	Echo from FiPay Response
IxDate	50	If not supplied, AJB will put the current date
IxTime	51	If not supplied, AJB will put the current time

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### 11.1.4 101 Response From FiPay to ePOS

New Data in blue.

	Field	
Name	No.	Description
IxTransactionType	1	"101"
IxCreditInterfaceIdentification	3	Echo from 100 request
IxActionCode	4	·
IXACIIOIICOUE	4	Tallier Zea, Appleted, Edecederal
		<ul><li>1 = Declined</li><li>2 = Call Bank</li></ul>
		• 3 = Offline
		<ul> <li>X = error</li> </ul>
IxDebitCredit	6	Echo from 100 request
IxTermID	7	DCS Terminal ID
IxStoreNumber		
IxTerminalNumber	8	Echo from 100 request
	9	Echo from 100 request
IxTranType	10	Echo from 100 request
IxCardType	12	Tender Description
		DCS-Visa     DCS-RICC
h.A.a.a.unt	40	DCS-PLCC
IxAccount	13	Masked Account Number
IxExpDate	14	Expiration
IxSwipe	15	Track 2 data from the card that was swiped or inserted at the PIN pad.
IxAmount	16	Amount authorized with no decimal point
IxInvoice	17	Echo from 100 request
IxTranLanguage	18	Transaction language to be used if not in track data
IxOrgAmount	20	Amount Requested
IxOptions	21	*CEM_Insert - entry method EMV
		*Contactless - entry method contactless
		*CEM_Swiped - entry method swiped
		*FALLBACK_EMV
		*pos_validate_swipe
		*GetCard
		"privatelabel3
IxOperator	24	Echo from 100 request
IxMailOrderAVSData	31	Echo from 100 request
IxPosEchoField	34	Echo from 100 request
IxAuthCode	37	The authorization code if approved – 343434 if approved offline except for HSBC which will be 843434 if approved offline
IxReceiptDisplay	38	What to print on the receipt
*IxPS2000	44	<ul> <li>For Visanet - ISO 8583Fields 62 and 44. Contains VISA Payment Service Indicator, Transaction ID, Valid Code, Banknet Reference Number, Banknet Date, CVC Data and Response / Reason Code</li> <li>For Discover – ISO 8583 Field 44. Contains AVS and / or CID response code(s)</li> <li>For American Express – ISO 8583 Field 31. Contains Transaction Identifier from Amex</li> </ul>
IxRefNumber	45	AJB Reserved field
IAITOITUIIDOI	70	7.00 1.0001704 fiold

	Field	
Name	No.	Description
IxSeqNumber	46	Echo from 100 request
IxBatch	47	Batch and Sequence Numbers
IxPostingDate	48	Echo from 100 request
IxLanguage	49	Echo from 100 request
IxDate	50	Echo from 100 request
IxTime	51	Echo from 100 request
IxDepositData	52	The balance on the card (used by VISA 51 to return card balance)
IxIsoResp	53	The vendor response code
IxBankNodeID	54	The bank node Id that processed the transaction
IxDataDictionary	63	The response time from RTS
IxRTSApplication	64	The time at which RTS received the vendor response in format
		HHMMSSmm
IxPrnFile	82	The response description

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### 11.1.5 111 Request From ePOS to FiPay

	Field	
Name	No.	Description
IxTransactionType	1	"111"
IxCreditInterfaceIdentification	3	Set ttssss where tt = right 2 digits of IxTerminalNumber (padded on left
		with 0 to be 2 digits) and ssss = 1 - 9999 value, right justified padded with
	_	0
IxTimeOut	5	Timeout value in seconds
IxDebitCredit	6	"Credit"
IxStoreNumber	8	Store Number – "xxxx" maximum of 4 characters
IxTerminalNumber	9	Register Number – "xx" maximum of 2 characters
IxTranType	10	"Sale" or "Refund"
IxAccount	13	Card Account number
IxExpDate	14	Card Expiration Date
IxSwipe	15	Track 2 data without sentinels for swiped transactions
IxAmount	16	Amount with no decimal point
IxInvoice	17	Sequence Number "xxxxx" maximum of 5 characters (Use Transaction
		Sequence Number)
IxOptions	21	If DCS PLCC, add "*privatelabel3"
		All data from field 21 of the 101 link down response
IxOperator	24	Employee ID
IxIssueNumber	25	8 alphanumeric character in format of FPPPGGTT where
		• F = Financing type ('D' – Deferred Payments, 'E' – Equal
		Payments) from FCODE2_VU.FTYPE database as defined in section 9.
		PPP = Plan number (always right justified and filled with zeros on
		the left) from FCODE2_VU.EXT_PLAN_NO as defined in section 9.
		GG = Grace period (grace period with derffered payment)
		transactions. Must be "00" for equal payments, refunds or
		preauthorization reversal) from FCODE2_VU.GRACE_PD as
		defined in section 9.
		TT = Term (number of payments (in months) for transactions with
		equal payments. Must be "00" if a transaction with deferred
		payment, a refund or a preauthorization reversal.) from
		FCODE2_VU.PYMT_TERM_MO as defined in section 9.
IxAVSMailOrderAVSData	31	Security code in *CVV2_####
IxPosEchoField	34	POS Sequence number
IxDate	50	If not supplied, AJB will put the current date

Name	Field No.	Description
IxTime	51	If not supplied, AJB will put the current time
IxSwipeFlag	56	All data from field 56 of the 101 link down response

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#### 11.1.6 100 Void Request from ePOS to FiPay

New Data in blue.

	Field	
Name	No.	Description
IxTransactionType	1	"100"
IxCreditInterfaceIdentification	3	Set ttssss where tt = right 2 digits of IxTerminalNumber (padded on left
		with 0 to be 2 digits) and ssss = 1 - 9999 value, right justified padded with 0
IxTimeOut	5	Timeout value in seconds
IxDebitCredit	6	"Credit"
IxStoreNumber	8	Store Number – "xxxx" maximum of 4 characters
IxTerminalNumber	9	Register Number – "xx" maximum of 2 characters
IxTranType	10	The opposite of original. If Sale, send refund, If refund, send sale.
IxAccount	13	Card Account number
IxExpDate	14	Card Expiration Date
IxSwipe	15	Track 2 data without sentinels for swiped transactions
IxAmount	16	Amount with no decimal point
IxInvoice	17	Sequence Number "xxxxx" maximum of 5 characters (Use Transaction Sequence Number)
IxOptions	21	"*privatelabel3"
IxOperator	24	Employee ID
IxIssueNumber	25	8 alphanumeric character in format of FPPPGGTT where
		• F = Financing type ('D' – Deferred Payments, 'E' – Equal
		Payments) from FCODE2_VU.FTYPE database as defined in section 9.
		PPP = Plan number (always right justified and filled with zeros on
		the left) from FCODE2_VU.EXT_PLAN_NO as defined in section 9.
		GG = Grace period (grace period with derffered payment)
		transactions. Must be "00" for equal payments, refunds or
		preauthorization reversal) from FCODE2_VU.GRACE_PD as
		defined in section 9.
		• TT = Term (number of payments (in months) for transactions with equal payments. Must be "00" if a transaction with deferred
		payment, a refund or a preauthorization reversal.) from FCODE2_VU.PYMT_TERM_MO as defined in section 9.
IxAVSMailOrderAVSData	31	Security code in *CVV2_####
IxPosEchoField	34	POS Sequence number
IxDate	50	If not supplied, AJB will put the current date
IxTime	51	If not supplied, AJB will put the current time

# 12. Out Of Scope

- This Specification covers the changes needed to implement the DCS PLCC Authorization Process.
- Payment on Account has not been implemented in xPOS at this time, so any DCS Payment on Account Processes will be covered in that document.

# 13. Business Sign Off

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

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# 14. Technical Sign Off

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

### 15. Technical Review

Name	Organization	ganization Approval Email and/or Date Receive	
Jessyka McLean	Best Buy		
Andy Liang	Best Buy		

### 16. Technical Inform

Name	Organization	Approval Email and/or Date Received
Paul Leung	Storeworks/Stella Nova Technologies	
Vinodh Narayanan	Storeworks/Stella Nova Technologies	
Greg Irvine	Best Buy	

# 17. Revision History

#### 17.1 Reviews

Date	Iteration	Result

### 17.2 Revision History

Reviser	Revision	Date	Version
Amy Byers	Initial document	4/25/16	1.0
Amy Byers	<ul> <li>Section 2: Removed user impacts as user should not see anything different.</li> <li>Section 3: Removed manual key processes from POS.</li> <li>Section 4.1: Added offline processes to Credit document</li> <li>Section 4.2: Added section to define processes when ESC to item entry after adding a tender.</li> <li>Section 4.3: Added Voided Tender and Transaction Impacts.</li> <li>Section 4.4: Added Return/Adjustment Impacts</li> <li>Section 4.5: Added Reboot Impacts</li> <li>Section 12: Added Payment on Account as Out of Scope</li> <li>Section 19: Added reference to return tender spec.</li> </ul>	5/5/16	1.1
Amy Byers	<ul> <li>Section 18: Added section for requirements and mapped to sections/documents where appropriate.</li> </ul>	6/2/2016	1.2

# 18. Appendix A: Source Documentation

PLCC for XPOS Requirements Specification\_v4.xlsx

### 18.1 Functional Requirements

Req ID	Description	•	Section
FR1	XPOS shall be able to accept tendering of XPOS transactions using DCS Accord-D (Mastercard/Visa) and PLCC cards	•	3 Use Case: DCS Tender Authorization BBYC_mPOS_Credit-
1.01	xPOS shall support insert, swipe, and manual entry for DCS Accord-D EMV Card	•	Debit-EMV FDoc  3.2 Preconditions
1.02	xPOS shall support card swipe of PLCC, and manual entry of PLCC account number	•	3.2 Preconditions
1.03	In the case of manual card entry, sigPAD shall prompt for the following:  1. Card Number  2. Expiry Date  3. CVV (DCS Accord-D Card only as PLCC does not have CVV)	•	Not a POS requirement.
1.03.1	Manager override shall be required for manually captured card number	•	BBYC_mPOS_Credit- Debit-EMV FDoc
FR2	PLCC shall be treated separately from the DCS Accord-D card. The PLCC shall be treated as a Financing card, and DCS Accord-D card shall be treated as either a Credit or Financing card	•	3 Use Case: DCS Tender Authorization
FR3	For DCS Accord-D cards, the Pin Pad shall display a prompt to customers and allow the option to choose whether to use the card for 1) Financing, or 2) Regular Credit	•	Not a POS requirement.
3.01	The text and label on buttons on the prompt shall be configurable	•	Not a POS requirement.
3.02	The need to prompt for Financing or Regular Credit shall be determined and handled by FiPay EPS by checking BIN range	•	Not a POS requirement.
3.03	Upon selecting the Financing option, the tender shall be processed as DCS Financing AccordD. Upon selecting the Credit option, the tender shall be processed as Regular Credit (i.e. Visa/Mastercard depending on the card)	•	Not a POS requirement.
4.01	User shall continue to have the ability to partial tender, financing on multiple plans on same card within same transaction	•	5 Assumptions
4.02	User shall continue to have the ability to partial tender a transaction using both credit and financing, using same or different cards	•	5 Assumptions
4.03	User shall continue to have the ability to partial tender a transaction using multiple method of payments, and multiple cards	•	5 Assumptions
4.04	Employee purchases using PLCC and DCS Accord-D shall consider upcharge.	•	BBYC_mPOS_Credit- Debit-EMV FDoc
4.04.1	Upon using DCS AccordD Regular credit for employee purchase, a 2% upcharge shall be incurred.	•	Data Configuration
4.04.2	Upon using DCS AccordD Financing or PLCC for employee purchase, the upcharge rate shall be based on finance plan setup.	•	Data Configuration
4.05	Finance options and admin fee offered for PLCC in XPOS shall be the same as ePOS. Similarly, financing options and adfmin fee offered for DCS AccordD (Visa and Mastercard) shall be the same as ePOS	•	BBYC_mPOS_Finance Tender FDoc

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Req ID	Description	•	Section
10.04	XPOS shall send the account number in POS Log without authorizing through FiPay EPS	•	Payment on Account not implemented
10.05	The settlement file from CSPARC for in-store payment transactions collected through POS shall include XPOS Payment on Account transactions	•	Payment on Account not implemented
10.06	Payments on accounts shall include either a mod10 validation or an authorization when performed in the store.	•	Payment on Account not implemented
10.07	The printed receipt of PLCC and DCS Accord-D Card Sales transactions shall have the same labels, fields, and layout as ePOS receipt. This includes and is not limited to the following:	•	Payment on Account not implemented
10.07.1	Header including Store Name and Address	•	Payment on Account not implemented
10.07.2	Transaction Type: Payment on Account	•	Payment on Account not implemented
10.07.3	Masked PLCC Account Number	•	Payment on Account not implemented
10.07.4	Amount of payment	•	Payment on Account not implemented
10.07.5	Payment information including: a) Masked Card Number, b) Entry Method, c) Card Type, d) Terminal ID, e) Account selected, f) Sequence Number, g) Transaction status and ISO code, h) Transaction Date, i) payment amount	•	Payment on Account not implemented
10.07.6	If partial tender, payment information for all tenders shall be displayed	•	Payment on Account not implemented
10.07.7	4 part key	•	Payment on Account not implemented

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# 19. Appendix B: Referenced Documentation

- BBYC\_mPOS\_Credit-Debit-EMV FDoc\_v1.6
- BBYC\_mPOS\_R8\_Tender FDoc\_v1.2
- BBYC\_mPOS\_Finance Tender FDoc\_1.2
- R11\_BBYCA\_Phase 2 Return Tender Tech Spec v1.0

# 20. Appendix C: Glossary

Term	Definition