



100 New Britain Blvd
Chalfont, PA 18914
Tel: 215-997-8989
E-mail: datacap@dcap.com

dsiPDCX
US Debit Transactions
XML Specification
Supplement 3

V01.42

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3.0 Debit XML Transaction Requests

3.1 Debit - Sale

Use: To process a payment on a debit card using a magnetic card reader. Debit sales require the input of a PIN (Personal Identification Number) by the cardholder into a PIN pad device which encrypts the PIN number for secure transmission to the bank's computer for validation.

XML Template: Debit Sale

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Debit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Sale</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
      <CashBack>CashBack</CashBack>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Transaction>
</TStream>
```

Element	Req	Min	Max	Type	Description
IpAddress	O	7	15	AN	IP address of server to use for this transaction. This address will override the addresses obtained via ServerIPConfig.
IpPort	O	1	5	N	IP port number on server to use for this transaction. If omitted, default port is 9000.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	For general use Terminal ID data must be supplied in this tag only if provided by the processor or merchant service provider; otherwise this tag should not be included. For reversal support with selected processors Use a unique POS workstation number (exactly 3 digits 000-999) for multi-workstation locations.
OperatorID	Y	1	10	N	Operator (clerk, server, etc.) associated with the Transaction.
TranType	Y	1	20	A	"Debit"
Duplicate	O	1	20	AN	"Override" - To force approval of a transaction that was previously rejected as a duplicate by the processor.
CardType	O	3	20	AN	"DEBIT"
TranCode	Y	1	40	A	"Sale"
SecureDeviceID	Y	1	40	AN	Secure Device type. See Sections 1.1 and 1.3.3.3 of dsiPDCX Core Integration Specification for ValidSecureDeviceID values.
ComPort	Y	1	3	N	The true RS-232 serial port or virtual serial port for USB devices that use a virtual serial port driver. Port number to which SecureDevice is attached (0-255).
InvoiceNo	Y	1	16	AN	Invoice number - sequential receipt number, check number, or other unique transaction identifier.
RefNo	Y	1	16	AN	Use the same data as InvoiceNo
Account:AcctNo	Y	1	19	AN	Use the attached SecureDevice for MSR input of cardholder data, use value 'SecureDevice'
Amount:Purchase	Y	1	8	N	Purchase price (with 2 place decimal – e.g. 29.95)
Amount:CashBack	O	1	8	N	Cash back Amount (with 2 place decimal)
SequenceNo	O	1	20	AN	For reversal support with selected processors Use '00000000' for first transaction in new installations. For all subsequent transactions, use the SequenceNo value returned in the previous transaction response.
TerminalName	O	1	20	AN	Terminal name
ShiftID	O	1	20	AN	Shift identification

3.2 Debit - Return

Use: To process a return (refund) on a debit card using a magnetic card reader. Debit returns require the input of a PIN (Personal Identification Number) by the cardholder into a PIN pad device which encrypts the PIN number for secure transmission to the bank's computer for validation.

XML Template: Debit Return

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Debit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Return</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Transaction>
</TStream>
```

Element	Req	Min	Max	Type	Description
IpAddress	O	7	15	AN	IP address of server to use for this transaction. This address will override the addresses obtained via ServerIPConfig.
IpPort	O	1	5	N	IP port number on server to use for this transaction. If omitted, default port is 9000.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	For general use Terminal ID data must be supplied in this tag only if provided by the processor or merchant service provider; otherwise this tag should not be included. For reversal support with selected processors Use a unique POS workstation number (exactly 3 digits 000-999) for multi-workstation locations.
OperatorID	Y	1	10	N	Operator (clerk, server, etc.) associated with the Transaction.
TranType	Y	1	20	A	"Debit"
Duplicate	O	1	20	AN	"Override" - To force approval of a transaction that was previously rejected as a duplicate by the processor.
CardType	O	3	20	AN	"DEBIT"
TranCode	Y	1	40	A	"Return"
SecureDeviceID	Y	1	40	AN	Secure Device type. See Sections 1.1 and 1.3.3.3 of dsiPDCX Core Integration Specification for ValidSecureDeviceID values.
ComPort	Y	1	3	N	The true RS-232 serial port or virtual serial port for USB devices that use a virtual serial port driver. Port number to which SecureDevice is attached (0-255).
InvoiceNo	Y	1	16	AN	Invoice number - sequential receipt number, check number, or other unique transaction identifier.
RefNo	Y	1	16	AN	Use the same data as InvoiceNo
Account:AcctNo	Y	1	19	AN	Use the attached SecureDevice for MSR input of cardholder data, use value 'SecureDevice'
Amount:Purchase	Y	1	8	N	Purchase price (with 2 place decimal – e.g. 29.95)
SequenceNo	O	1	20	AN	For reversal support with selected processors Use '00000000' for first transaction in new installations. For all subsequent transactions, use the SequenceNo value returned in the previous transaction response.
TerminalName	O	1	20	AN	Terminal name
ShiftID	O	1	20	AN	Shift identification

3.3 Debit - Void Sale

Use: To void a payment (sale) previously made on a debit card using a magnetic card reader. Debit sale voids require the input of a PIN (Personal Identification Number) by the cardholder into a PIN pad device which encrypts the PIN number for secure transmission to the bank's computer for validation.

Some processors do not support voids for any debit transactions. For those, a return transaction is processed to offset a sale or a sale is used to offset a return. *Refer to Datacap's DSIClientX Compatible Server List for the transaction codes supported.*

XML Template: Debit Void Sale

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Debit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>VoidSale</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
      <CashBack>CashBack</CashBack>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Transaction>
</TStream>
```

Element	Req	Min	Max	Type	Description
IpAddress	O	7	15	AN	IP address of server to use for this transaction. This address will override the addresses obtained via ServerIPConfig.

IpPort	O	1	5	N	IP port number on server to use for this transaction. If omitted, default port is 9000.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	For general use Terminal ID data must be supplied in this tag only if provided by the processor or merchant service provider; otherwise this tag should not be included. For reversal support with selected processors Use a unique POS workstation number (exactly 3 digits 000-999) for multi-workstation locations.
OperatorID	Y	1	10	N	Operator (clerk, server, etc.) associated with the Transaction.
TranType	Y	1	20	A	"Debit"
Duplicate	O	1	20	AN	"Override" - To force approval of a transaction that was previously rejected as a duplicate by the processor.
CardType	O	3	20	AN	"DEBIT"
TranCode	Y	1	40	A	"VoidSale"
SecureDeviceID	Y	1	40	AN	Secure Device type. See Sections 1.1 and 1.3.3.3 of dsiPDCX Core Integration Specification for ValidSecureDeviceID values.
ComPort	Y	1	3	N	The true RS-232 serial port or virtual serial port for USB devices that use a virtual serial port driver. Port number to which SecureDevice is attached (0-255).
InvoiceNo	Y	1	16	AN	Invoice number - sequential receipt number, check number, or other unique transaction identifier.
RefNo	Y	1	16	AN	Use the RefNo value returned in the original Sale transaction response
Account:AcctNo	Y	1	19	AN	Use the attached SecureDevice for MSR input of cardholder data, use value 'SecureDevice'
Amount:Purchase	Y	1	8	N	Purchase price (with 2 place decimal – e.g. 29.95)
Amount:CashBack	O	1	8	N	Cash back Amount (with 2 place decimal)
SequenceNo	O	1	20	AN	For reversal support with selected processors Use '00000000' for first transaction in new installations. For all subsequent transactions, use the SequenceNo value returned in the previous transaction response.
TerminalName	O	1	20	AN	Terminal name
ShiftID	O	1	20	AN	Shift identification

3.4 Debit - Void Return

Use: To void a return (refund) previously made on a debit card using a magnetic card reader. Debit return voids require the input of a PIN (Personal Identification Number) by the cardholder into a PIN pad device which encrypts the PIN number for secure transmission to the bank's computer for validation.

Some processors do not support voids for any debit transactions. For those, a return transaction is processed to offset a sale or a sale is used to offset a return. *Refer to Datacap's DSIClientX Compatible Server List for the transaction codes supported.*

XML Template: Debit Void Return

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Debit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>VoidReturn</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
  </Transaction>
</TStream>
```

Element	Req	Min	Max	Type	Description
IpAddress	O	7	15	AN	IP address of server to use for this transaction. This address will override the addresses obtained via ServerIPConfig.
IpPort	O	1	5	N	IP port number on server to use for this transaction. If omitted, default port is 9000.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	For general use Terminal ID data must be supplied in this tag only if provided by the processor or merchant service provider; otherwise this tag should not be included. For reversal support with selected processors Use a unique POS workstation number (exactly 3 digits 000-999) for multi-workstation locations. See 1.3.7.
OperatorID	Y	1	10	N	Operator (clerk, server, etc.) associated with the Transaction.
TranType	Y	1	20	A	"Debit"
Duplicate	O	1	20	AN	"Override" - To force approval of a transaction that was previously rejected as a duplicate by the processor.
CardType	O	3	20	AN	"DEBIT"
TranCode	Y	1	40	A	"VoidReturn"
SecureDeviceID	Y	1	40	AN	Secure Device type. See Sections 1.1 and 1.3.3.3 of dsiPDCX Core Integration Specification for ValidSecureDeviceID values.
ComPort	Y	1	3	N	The true RS-232 serial port or virtual serial port for USB devices that use a virtual serial port driver. Port number to which SecureDevice is attached (0-255).
InvoiceNo	Y	1	16	AN	Invoice number - sequential receipt number, check number, or other unique transaction identifier.
RefNo	Y	1	16	AN	Use the RefNo value returned in the original Return transaction response
Account:AcctNo	Y	1	19	AN	Use the attached SecureDevice for MSR input of cardholder data, use value 'SecureDevice'
Amount:Purchase	Y	1	8	N	Purchase price (with 2 place decimal – e.g. 29.95)
SequenceNo	O	1	20	AN	For reversal support with selected processors Use '00000000' for first transaction in new installations. For all subsequent transactions, use the SequenceNo value returned in the previous transaction response. See 1.3.7.
TerminalName	O	1	20	AN	Terminal name
ShiftID	O	1	20	AN	Shift identification

3.5 XML Transaction Response

```
<?xml version="1.0"?>
<RStream>
  <CmdResponse>
    <ResponseOrigin>ResponseOrigin</ResponseOrigin>
    <DSIXReturnCode>DSIXReturnCode</DSIXReturnCode>
    <CmdStatus>CmdStatus</CmdStatus>
    <TextResponse>TextResponse</TextResponse>
    <UserTraceData>UserTraceData</UserTraceData>
    <SequenceNo>SequenceNo</SequenceNo>
  </CmdResponse>
  <TranResponse>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <AcctNo>AcctNo</AcctNo>
    <ExpDate>ExpDate</ExpDate>
    <CardType>CardType</CardType>
    <TranCode>TranCode</TranCode>
    <AuthCode>AuthCode</AuthCode>
    <AVSResult>AVSResult</AVSResult>
    <CVVResult>CVVResult</CVVResult>
    <VoucherNo>VoucherNo</VoucherNo>
    <CaptureStatus>CaptureStatus</CaptureStatus>
    <RefNo>RefNo</RefNo>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <OperatorID>OperatorID</OperatorID>
    <Memo>Memo</Memo>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Authorize>Authorize</Authorize>
      <Gratuity>Gratuity</Gratuity>
      <CashBack>CashBack</CashBack>
      <Balance>Balance</Balance>
    </Amount>
    <AcqRefData>AcqRefData</AcqRefData>
    <RecordNo>RecordNo</RecordNo>
  </TranResponse>
  <IssueCurrency>IssueCurrency</IssueCurrency>
  <IssueCurrencyPreviousBalance>IssueCurrencyPreviousBalance</IssueCurrencyPreviousBalance>
  <IssueCurrencyEndingBalance>IssueCurrencyEndingBalance</IssueCurrencyEndingBalance>
  <ExchangeRate>ExchangeRate</ExchangeRate>
  <PrePaidExp>PrePaidExp</PrePaidExp>
</RStream>
```

Element	Return	Min	Max	Type	Description
ResponseOrigin	Y	1	10	A	Indicates the source of the response: “Client” = generated by DSIClientX control “Server” = generated by Datacap server “Processor” = generated by payment processor
DSIXReturnCode	Y	6	6	N	Six digit return code which identifies the error type. See Section 3 on error codes for possible values
CmdStatus	Y	1	10	A	Indicates the outcome of the command: “Approved” = transaction approved by payment processor “Declined” = transaction declined by payment processor “Success” = command completed successfully “Error” = error processing command. Check DSIXReturnCode and TextResponse for additional info on error
TextResponse	Y	1	40	AN	For Successful responses, this field can contain an optional message from the server or processor. For other response codes, see Section 3 on Error Codes for values.
UserTraceData	Y	0	40	AN	Echo of data supplied by the user system in the request; for use by the user system for internal tracking. May be null if no user system data was supplied in the request
SequenceNo	O	1	20	N	Transaction sequence number (included in Canadian Debit transaction responses)
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	0	24	AN	Terminal ID data must be supplied in this tag only if provided by the processor or merchant service provider; otherwise this tag should not be included.
AcctNo	Y	1	19	N	Cardholder Account number.
ExpDate	Y	4	4	N	Expiration date as MMY
CardType	O	3	20	AN	“VISA” “M/C” “AMEX” “DCLB” “DCVR” “JCB” “DEBIT” “OTHER” “Foodstamp” “Cash” “PrePaid”
TranCode	Y	1	40	A	“Sale” “Return” “VoidSale” “VoidReturn” “AuthOnly” “PreAuth” “VoiceAuth” “PreAuthCapture” “Voucher” “Issue” “Balance” “Adjust”

AuthCode	O	1	16	AN	The authorization code returned by the processor for the approved transaction. The AuthCode value should be saved since it is required for VoidSale, Adjust, VoiceAuth and PreAuthCapture transactions.
AVSResult	O	0	40	AN	The result of an AVS transaction returned by the processor.
CVVResult	O	0	40	AN	The result of an AVS transaction returned by the processor.
VoucherNo	O	0	40	AN	The of an EBT transaction returned by the processor.
CaptureStatus	O	1	16	AN	"Captured" "NotCaptured"
RefNo	O	1	16	AN	A reference returned by the processor. The RefNo value returned by the processor should be saved since it is required for subsequent VoidSale, Adjust, VoiceAuth and PreAuthCapture transactions.
InvoiceNo	Y	1	16	AN	Use the InvoiceNo value supplied in the original request.
OperatorID	Y	1	10	N	Operator (clerk, server, etc.) associated with the Transaction.
Memo	O	0	40	AN	Echo of data supplied by the user system in the request; for use by the user system for internal tracking.
Amount:Purchase	Y	1	8	N	Purchase price (with 2 place decimal)
Amount:Authorize	O	1	8	N	Authorized amount (with 2 place decimal)
Amount:Gratuity	O	1	8	N	Gratuity amount (with 2 place decimal)
Amount:CashBack	O	1	8	N	CashBack amount (with 2 place decimal)
Amount:Balance	O	1	8	N	Balance amount (with 2 place decimal) for EBT or PrePaid transactions.
AcqRefData	O	1	200	AN	Acquirer Reference returned by processor on PreAuth Transaction requests – will be null for other TranCodes. The AcqRefData value returned by the processor should be saved since it is required for subsequent PreAuthCapture transactions.
RecordNo	O	1	99	AN	Indicates record identifier in current batch. The RecordNo value can be saved and used as a token to process subsequent VoidSaleByRecordNo, VoidReturnByRecordNo and AdjustByRecordNo transactions without using account number data.
IssueCurrency	O	3	3	AN	Indicates the currency type in which the prepaid card account was originally issued. Supported values are: "CAN" - Canadian dollars "USD" - U.S. dollars Note: If this tag is returned on a prepaid transaction, it must be printed on the receipt with the legend "Currency" and the returned value.
IssueCurrencyPreviousBalance	O	1	8	N	Balance amount in issue currency (with 2 place decimal) at the start of the transaction. Note: If this tag is returned on a prepaid transaction, it must be printed on the receipt under the Currency line with the legend "Previous Balance" and the returned value.
IssueCurrencyEndingBalance	O	1	8	N	Balance amount in issue currency (with 2 place decimal) at the completion of the transaction. Note: If this tag is returned on a prepaid transaction, it must be printed on the receipt under the Previous Balance line with the

					legend "Ending Balance" and the returned value.
ExchangeRate	O	1	8	N	Exchange rate used to calculate from local to issued currency. Note: If this tag is returned on a prepaid transaction, it may be optionally printed under the Ending Balance line on the receipt with the legend "Exchange Rate" and the returned value.
PrePaidExp	O	1	8	AN	PrePaid card expiration date OR Trace Number. Date format: 12/31/04 or 2004-12-31 Trace Number Format: 99999999

3.6 dsiPDCX Compatible Servers

3.6.1 Debit for NETePay Compatible Servers

The following chart indicates which transactions are supported by the available NETePay servers.

	ADS Host	MPS Host	Nova Host	Nova Term	Concord EFS Host	Fifth Third Host	VITAL TSYS Term	VITAL TSYS Host	CardNet FDMS Term	Sterling Host	RBS Lynk Term	Heart land Term
DEBIT Transactions												
Sale	X	X	X		X	X	X	X	X	X	X	X
Return	X	X	X		X	X	X	X		X	X	X
Void Sale												
Void Return												

	GPS Term US	GPS Host US	Paymentech Host	Paymentech Term	FDMS Nashville
DEBIT Transactions					
Sale	X	X	X		X
Return	X	X	X		
Void Sale					
Void Return					