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dsiPDCX

XML Definitions

V01.00

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Revision History

00.01	06 Dec 2010	<ul style="list-style-type: none">• Preliminary Draft Release
00.02	09 Dec 2010	<ul style="list-style-type: none">• Incorporated <TranType> and <PadType> tags for 'SecureDeviceInit' Admin transaction.
00.03	10 Dec 2010	<ul style="list-style-type: none">• Incorporated advice on Check and EBT transaction capability
01.00	26 May 2011	<ul style="list-style-type: none">• Formal Release• Added configuration and data flow information for VFI Vx810 support• Added new values for <PadType> and <SecureDevice>

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1.0 Introduction

This documents the XML definitions for Datacap Systems' dsiPDCX Windows ActiveX control at the time of publication.

2.0 Integration of dsiPDCX

2.1 Initialization

XML Template: **SecureDeviceInit Request**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranCode>SecureDeviceInit</TranCode>
    <TranType>TranType</TranType>
    <PadType>PadType</PadType>
    <SecureDevice>SecureDevice</SecureDevice>
    <ComPort>ComPort</ComPort>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Admin>
</TStream>
```

XML Template: **Credit 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>Credit</TranType>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Sale</TranCode>
    <SecureDevice>SecureDevice</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <PartialAuth>PartialAuth</PartialAuth>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Tax>Tax</Tax>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <AVS>
      <Address>Address</Address>
      <Zip>Zip</Zip>
    </AVS>
  </Transaction>
</TStream>
```

```

</AVS>
<CVVData>CVVData</CVVData>
<SequenceNo>SequenceNo</SequenceNo>
<TerminalName>TerminalName</TerminalName>
<ShiftID>ShiftID</ShiftID>
<Signature>Signature</Signature>
<TranInfo>
  <CustomerCode>CustomerCode</CustomerCode>
</TranInfo>
</Transaction>
</TStream>

```

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>SecureDevice</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <Track2>Track2</Track2>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
      <CashBack>CashBack</CashBack>
    </Amount>
    <SequenceNo>SequenceNo</SequenceNo>
    <TerminalName>TerminalName</TerminalName>
    <ShiftID>ShiftID</ShiftID>
    <Signature>Signature</Signature>
  </Transaction>
</TStream>

```

3.0 XML Document Type Definitions (DTDs)

3.01 TStream

```
<?xml version="1.0"?>
<!DOCTYPE TStream [
<!-- TStream is the document request message template
-->
<!ELEMENT TStream (Transaction | Admin)*>
<!ELEMENT Transaction (
    IPAddress?,
    IpPort?,
    MerchantID,
    TerminalID?,
    OperatorID?,
    DateTime?,
    TranType,
    PadType?,
    Format?,
    CardType?,
    TranCode,
    SecureDevice?,
    ComPort?,
    Duplicate?,
    InvoiceNo,
    Memo?,
    RefNo,
    PartialAuth?,
    Account,
    Amount,
    Points?,
    AVS?,
    CVVData?,
    PIN?,
    SequenceNo?,
    TerminalName?,
    ShiftID?,
    Signature?,
    TranInfo?,
    DemographicInfo?
)>
<!ELEMENT Admin (
```

```

OperatorID?,
TranType?,
TranCode,
SecureDevice?,
ComPort?,
InvoiceNo?,
RefNo?,
Account?,
Amount?,
TerminalName?,
ShiftID?,
Signature?,
TranInfo?,
BatchInfo?
)>

<!ELEMENT IpAddress (#PCDATA)>
<!ELEMENT IpPort (#PCDATA)>
<!ELEMENT MerchantID (#PCDATA)>
<!ELEMENT TerminalID (#PCDATA)>
<!ELEMENT DateTime (Date, Time)>
<!ELEMENT Date (#PCDATA)>
<!ELEMENT Time (#PCDATA)>
<!ELEMENT TranType (#PCDATA)>
<!ELEMENT PadType (#PCDATA)>
<!ELEMENT Format (#PCDATA)>
<!ELEMENT CardType (#PCDATA)>
<!ELEMENT TranCode (#PCDATA)>
<!ELEMENT SecureDevice (#PCDATA)>
<!ELEMENT ComPort (#PCDATA)>
<!ELEMENT Duplicate (#PCDATA)>
<!ELEMENT InvoiceNo (#PCDATA)>
<!ELEMENT OperatorID (#PCDATA)>
<!ELEMENT Memo (#PCDATA)>
<!ELEMENT RefNo (#PCDATA)>
<!ELEMENT Account ((Name?, Track2) | (Name?, AcctNo, ExpDate))>
<!ELEMENT Name (#PCDATA)>
<!ELEMENT Track2 (#PCDATA)>
<!ELEMENT AcctNo (#PCDATA)>
<!ELEMENT ExpDate (#PCDATA)>
<!ELEMENT Amount (

```

```

Purchase,
CashBack?,
Authorize?,
Gratuuity?,
Tax?,
FSAPrescription?,
FSAVision?,
FSAClinical?,
FSADental?
)>

```

```

<!ELEMENT Purchase (#PCDATA)>
<!ELEMENT CashBack (#PCDATA)>
<!ELEMENT Authorize (#PCDATA)>
<!ELEMENT Gratuuity (#PCDATA)>
<!ELEMENT Tax (#PCDATA)>

```

```

<!ELEMENT Points (#PCDATA)>

```

```

<!ELEMENT Items (

```

```

Points,
Units,
Price,
PromoID,
Desc?,

```

```

Points2?,
Units2?,
Price2?,
PromoID2?,
Desc2?,

```

```

Points3?,
Units3?,
Price3?,
PromoID3?,
Desc3?,

```

```

Points4?,
Units4?,
Price4?,
PromoID4?,
Desc4?,

```

```

Points5?,
Units5?,
Price5?,
PromoID5?,
Desc5?,

```

```

Points6?,
Units6?,
Price6?,
PromoID6?,
Desc6?,

```

```

Points7?,
Units7?,

```

```

        Price7?,
        PromoID7?,
        Desc7?,

        Points8?,
        Units8?,
        Price8?,
        PromoID8?,
        Desc8?
    )>

```

```

<!ELEMENT Points #PCDATA)
<!ELEMENT Units #PCDATA)
<!ELEMENT Price #PCDATA)
<!ELEMENT PromoID #PCDATA)
<!ELEMENT Desc #PCDATA)

```

```

<!ELEMENT Points2 #PCDATA)
<!ELEMENT Units2 #PCDATA)
<!ELEMENT Price2 #PCDATA)
<!ELEMENT PromoID2 #PCDATA)
<!ELEMENT Desc2 #PCDATA)

```

```

<!ELEMENT Points3 #PCDATA)
<!ELEMENT Units3 #PCDATA)
<!ELEMENT Price3 #PCDATA)
<!ELEMENT PromoID3 #PCDATA)
<!ELEMENT Desc3 #PCDATA)

```

```

<!ELEMENT Points4 #PCDATA)
<!ELEMENT Units4 #PCDATA)
<!ELEMENT Price4 #PCDATA)
<!ELEMENT PromoID4 #PCDATA)
<!ELEMENT Desc4 #PCDATA)

```

```

<!ELEMENT Points5 #PCDATA)
<!ELEMENT Units5 #PCDATA)
<!ELEMENT Price5 #PCDATA)
<!ELEMENT PromoID5 #PCDATA)
<!ELEMENT Desc5 #PCDATA)

```

```

<!ELEMENT Points6 #PCDATA)
<!ELEMENT Units6 #PCDATA)
<!ELEMENT Price6 #PCDATA)
<!ELEMENT PromoID6 #PCDATA)
<!ELEMENT Desc6 #PCDATA)

```

```

<!ELEMENT Points7 #PCDATA)
<!ELEMENT Units7 #PCDATA)
<!ELEMENT Price7 #PCDATA)
<!ELEMENT PromoID7 #PCDATA)
<!ELEMENT Desc7 #PCDATA)

```

```

<!ELEMENT Points8 #PCDATA)
<!ELEMENT Units8 #PCDATA)
<!ELEMENT Price8 #PCDATA)
<!ELEMENT PromoID8 #PCDATA)
<!ELEMENT Desc8 #PCDATA)

```

```

<!ELEMENT AVS (
  Address,
  Zip)
>
<!ELEMENT Address (#PCDATA) >
<!ELEMENT Zip (#PCDATA) >

<!ELEMENT CVVData (#PCDATA) >

<!ELEMENT SequenceNo (#PCDATA) >

<!ELEMENT PIN (
  PINBlock,
  DervdKey
)>

<!ELEMENT PINBlock (#PCDATA) >
<!ELEMENT DervdKey (#PCDATA) >

<!ELEMENT TranInfo (
  AuthCode?,
  AcqRefData?,
  CVVResult?,
  AVSResult?,
  CustomerCode?
)>

<!ELEMENT AuthCode (#PCDATA) >
<!ELEMENT Memo (#PCDATA) >
<!ELEMENT AcqRefData (#PCDATA) >
<!ELEMENT RecordNo (#PCDATA) >
<!ELEMENT CVVResult (#PCDATA) >
<!ELEMENT AVSResult (#PCDATA) >
<!ELEMENT CustomerCode (#PCDATA) >

<!ELEMENT DemographicInfo (
  CustEmail?,
  CustName?,
  CustPhone?,
  CustAddr1?,
  CustAddr2?,
  CustCity?,
  CustState?,
  CustZip?,
  CustLanguage?
)>

<!ELEMENT CustEmail (#PCDATA) >
<!ELEMENT CustName (#PCDATA) >
<!ELEMENT CustPhone (#PCDATA) >
<!ELEMENT CustAddr1 (#PCDATA) >
<!ELEMENT CustAddr2 (#PCDATA) >
<!ELEMENT CustState (#PCDATA) >
<!ELEMENT CustZip (#PCDATA) >
<!ELEMENT CustLanguage (#PCDATA) >

<!ELEMENT Purchase (#PCDATA) >

```

```
<!ELEMENT TerminalName (#PCDATA)>
<!ELEMENT ShiftID (#PCDATA)>
<!ELEMENT Signature (#PCDATA)>

<!ELEMENT BatchNo (#PCDATA)>
<!ELEMENT BatchItemCount (#PCDATA)>
<!ELEMENT NetBatchTotal (#PCDATA)>
<!ELEMENT CreditPurchaseCount (#PCDATA)>
<!ELEMENT CreditPurchaseAmount (#PCDATA)>
<!ELEMENT CreditReturnCount (#PCDATA)>
<!ELEMENT CreditReturnAmount (#PCDATA)>
<!ELEMENT DebitPurchaseCount (#PCDATA)>
<!ELEMENT DebitPurchaseAmount (#PCDATA)>
<!ELEMENT DebitReturnCount (#PCDATA)>
<!ELEMENT DebitReturnAmount (#PCDATA)>

]>

<TStream>
</TStream>
```

3.02 RStream

```
<?xml version="1.0"?>

<!-- RStream is the document response message template
-->

<!DOCTYPE RStream [

<!ELEMENT RStream (

CmdResponse |
(CmdResponse, TranResponse) |
(CmdResponse, TranResponse, PrintData) |
(CmdResponse, TranResponse, ItemBalances, PrintData) |
(CmdResponse, BatchClose) |
(CmdResponse, BatchSummary) |
(CmdResponse, ItemDetail) |
(CmdResponse, BatchClear) |
(CmdResponse, ServerVersion)

)*>

<!-- CmdResponse Element -->

<!ELEMENT CmdResponse (

ResponseOrigin,
DSIXReturnCode,
CmdStatus,
TextResponse,
IpAddress?,
UserTraceData?,
SequenceNo?

)>

<!-- TranResponse Element -->

<!ELEMENT TranResponse (

MerchantID,
TerminalID?,
AcctNo,
ExpDate?,
CardType,
Selection?,
TranCode,
AuthCode?,
CaptureStatus?,
RefNo,
InvoiceNo?,
OperatorID?,
Memo?,
Amount,
```

```
        AVSResult?,
        CVVResult?,
        AcqRefData?,
        PrePaidExp?,
        BankRespCode?,
        ISORespCode?,
        TranDate?,
        TranTime?,
    )>
```

```
<!-- ItemBalances Element -->
```

```
<!ELEMENT   ItemBalances (
    TotalPoints,
    TotalUnits,
    TotalPrice,
    TotalPoints2?,
    TotalUnits2?,
    TotalPrice2?,
    TotalPoints3?,
    TotalUnits3?,
    TotalPrice3?,
    TotalPoints4?,
    TotalUnits4?,
    TotalPrice4?,
    TotalPoints5?,
    TotalUnits5?,
    TotalPrice5?,
    TotalPoints6?,
    TotalUnits6?,
    TotalPrice6?,
    TotalPoints7?,
    TotalUnits7?,
    TotalPrice7?,
    TotalPoints8?,
    TotalUnits8?,
    TotalPrice8?
)>
```

```
<!-- PrintData Element -->
```

```
<!ELEMENT   PrintData (
    Line1,
    Line2,
    Line3,
    Line4,
    Line5,
    Line6,
    Line7,
    Line8,
    Line9,
    Line10,
    Line11,
    Line12,
)
```

```

        Line13
    )>

<!-- BatchClose Element -->
<!ELEMENT BatchClose (
    MerchantID,
    TerminalID?,
    BatchNo,
    BatchNumber?,
    BatchItemCount,
    NetBatchTotal,
    CreditPurchaseCount?,
    CreditPurchaseAmount?,
    CreditReturnCount?,
    CreditReturnAmount?,
    DebitPurchaseCount?,
    DebitPurchaseAmount?,
    DebitReturnCount?,
    DebitReturnAmount?,
    ControlNo?
)>

<!-- BatchSummary Element -->
<!ELEMENT BatchSummary (
    MerchantID,
    TerminalID?,
    BatchNo,
    BatchNumber?,
    BatchItemCount,
    NetBatchTotal,
    CreditPurchaseCount?,
    CreditPurchaseAmount?,
    CreditReturnCount?,
    CreditReturnAmount?,
    DebitPurchaseCount?,
    DebitPurchaseAmount?,
    DebitReturnCount?,
    DebitReturnAmount?
)>

<!-- BatchClear Element -->
<!ELEMENT BatchClear (
    MerchantID,
    TerminalID?,
    BatchNo,
    BatchNumber?,
    BatchItemCount,
    ControlNo?
)>

```

<!-- ServerVersion Element -->

```
<!ELEMENT   ServerVersion   (  
    ProductName,  
    ProductClass,  
    Provider,  
    ProductVersion  
)>
```

<!-- ItemDetail Element -->

```
<!ELEMENT   ItemDetail   (  
    MerchantID,  
    TerminalID?,  
    BatchNo,  
    TranDate?,  
    TranTime?,  
    AcctNo,  
    ExpDate?,  
    ItemAmount1,  
    ItemAmount2?,  
    AuthCode?,  
    RefNo?  
)>
```

```
<!ELEMENT   Amount   (  
    Purchase,  
    Purchase1?,  
    Purchase2?,  
    Purchase3?,  
    Purchase4?,  
    Purchase5?,  
    Purchase6?,  
    Purchase7?,  
    Purchase8?,  
    CashBack?,  
    Authorize?,  
    Gratuity?,  
    Tax?,  
    FSAPrescription?,  
    FSASVision?,  
    FSAClinical?,  
    FSADental?  
)>
```

```
<!ELEMENT   Value   (  
    Points1,  
    Points2?,  
    Points3?,  
    Points4?,  
    Points5?,  
    Points6?,  
    Points7?,  
    Points8?,  
)>
```

```

<!ELEMENT ResponseOrigin (#PCDATA)>
<!ELEMENT DSIXReturnCode (#PCDATA)>
<!ELEMENT TextResponse (#PCDATA)>
<!ELEMENT IPAddress (#PCDATA)>
<!ELEMENT MerchantID (#PCDATA)>
<!ELEMENT TerminalID (#PCDATA)>
<!ELEMENT SequenceNo (#PCDATA)>
<!ELEMENT AcctNo (#PCDATA)>
<!ELEMENT ExpDate (#PCDATA)>
<!ELEMENT CardType (#PCDATA)>
<!ELEMENT Selection (#PCDATA)>
<!ELEMENT TranCode (#PCDATA)>
<!ELEMENT AuthCode (#PCDATA)>
<!ELEMENT CaptureStatus (#PCDATA)>
<!ELEMENT RefNo (#PCDATA)>
<!ELEMENT InvoiceNo (#PCDATA)>
<!ELEMENT OperatorID (#PCDATA)>
<!ELEMENT Memo (#PCDATA)>
<!ELEMENT Purchase (#PCDATA)>
<!ELEMENT CashBack (#PCDATA)>
<!ELEMENT Authorize (#PCDATA)>
<!ELEMENT Gratuity (#PCDATA)>
<!ELEMENT Balance (#PCDATA)>
<!ELEMENT UserTraceData (#PCDATA)>
<!ELEMENT AVSResult (#PCDATA)>
<!ELEMENT CVVResult (#PCDATA)>
<!ELEMENT AcqRefData (#PCDATA)>
<!ELEMENT RecordNo (#PCDATA)>
<!ELEMENT PrePaidExp (#PCDATA)>
<!ELEMENT BankRespCode (#PCDATA)>
<!ELEMENT ISORespCode (#PCDATA)>
<!ELEMENT ControlNo (#PCDATA)>
<!ELEMENT TranDate (#PCDATA)>
<!ELEMENT TranTime (#PCDATA)>
<!ELEMENT ItemAmount1 (#PCDATA)>
<!ELEMENT ItemAmount2 (#PCDATA)>
<!ELEMENT BatchItemCount (#PCDATA)>
<!ELEMENT NetBatchTotal (#PCDATA)>
<!ELEMENT CreditPurchaseCount (#PCDATA)>
<!ELEMENT CreditPurchaseAmount (#PCDATA)>
<!ELEMENT CreditReturnCount (#PCDATA)>
<!ELEMENT CreditReturnAmount (#PCDATA)>
<!ELEMENT DebitPurchaseCount (#PCDATA)>
<!ELEMENT DebitPurchaseAmount (#PCDATA)>
<!ELEMENT DebitReturnCount (#PCDATA)>
<!ELEMENT DebitReturnAmount (#PCDATA)>
<!ELEMENT BatchNo (#PCDATA)>
<!ELEMENT ProductName (#PCDATA)>
<!ELEMENT ProductClass (#PCDATA)>
<!ELEMENT Provider (#PCDATA)>
<!ELEMENT ProductVersion (#PCDATA)>

```

]>

```

<RStream>
</RStream>

```