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***dsiPDCX***  
***Loyalty Transactions***  
***XML Specification***  
***Supplement 7***

***V01.42***

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## 7.0 Loyalty XML Transaction Requests

### 7.1 Loyalty - Issue

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**Use:** To issue a new loyalty (rewards) card with a starting balance.

**Notes:** To correct an error on an Loyalty Issue transaction, first perform a VoidIssue transaction with the original Purchase and Points values and then perform another Issue transaction with the correct values.

There are two formats available for Loyalty transactions. Format 1 is a simple format supporting a single promotion; Format 2 is an enhanced format that defines up to 8 promotions (with optional units, dollar values, promotional identifiers and descriptions) which may be processed in a single transaction. Both formats permit the inclusion of optional demographic data.

XML Template: **Loyalty Issue** (*Format 1*)

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>1</Format>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Issue</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <Items>
      <Points>Points</Points>
      <Units>Units</Units>
      <Price>Price</Price>
      <PromoID>PromoID</PromoID>
      <Desc>Desc</Desc>
    </Items>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
    </DemographicInfo>
  </Transaction>
</TStream>
```

```

<CustAddr1>CustAddr1</CustAddr1>
<CustAddr2>CustAddr2</CustAddr2>
<CustCity>CustCity</CustCity>
<CustState>CustState</CustState>
<CustZip>CustZip</CustZip>
<CustLanguage>CustLanguage</CustLanguage>
</DemographicInfo>
<SequenceNo>SequenceNo</SequenceNo>
</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 Loyalty server to use for this transaction. Must be 9100.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	<b>For general use</b> 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.  <b>For reversal support with selected processors</b> 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	"Loyalty"
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	"LOYALTY"
TranCode	Y	1	40	A	"Issue"
SecureDevice	Y	1	40	AN	Secure Device type. See Sections 1.1 and 1.3.3.3 of dsiPDCX Core Inegration Specification for values for <SecureDevice>
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).
Format	Y	1	1	N	"1"
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	16	AN	To use the attached SecureDevice for MSR input of cardholder data, use value 'SecureDevice' To use the PC keyboard or attached SecureDevice for manual input of cardholder data, use value 'Prompt'

Amount:Purchase	Y	1	8	N	Purchase amount (with 2 place decimal – e.g. 29.95)
Items:Points	Y	1	8	N	Item 1 Points value
Items:Units	Y	1	8	N	Item 1 Units value
Items: Price	Y	1	8	N	Item 1 Price/amount
Items:PromoID	Y	1	8	N	Item 1 Promotional ID
Items:Desc	O	1	40	AN	Item 1 Description
DemographicInfo: CustEmail	O	1	40	AN	Customer email address
DemographicInfo: CustName	O	1	40	AN	Customer name
DemographicInfo: CustPhone	O	7	10	N	Customer phone number
DemographicInfo: CustAddr1	O	1	40	AN	Customer address – line 1
DemographicInfo: CustAddr2	O	1	40	AN	Customer address – line 2
DemographicInfo: CustCity	O	1	40	AN	Customer city
DemographicInfo: CustState	O	2	2	AN	Customer state
DemographicInfo: CustZip	O	5	9	N	Customer zip code
DemographicInfo: CustLanguage	O	1	40	AN	Customer language
SequenceNo	O	1	20	AN	<b>For reversal support with selected processors</b> Use '00000000' for first transaction in new installations. For all subsequent transactions, use the SequenceNo value returned in the previous transaction response.

XML Template: **Loyalty Issue (Format 2)**

```

<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>2</Format>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Issue</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
  </Transaction>
</TStream>

```

```

<InvoiceNo>InvoiceNo</InvoiceNo>
<RefNo>RefNo</RefNo>
<Account>
  <AcctNo>SecureDevice</AcctNo>
</Account>
<Amount>
  <Purchase>Purchase</Purchase>
</Amount>
<Items>
  <Points>Points</Points>
  <Units>Units</Units>
  <Price>Price</Price>
  <PromoID>PromoID</PromoID>
  <Desc>Desc</Desc>
  <Points2>Points2</Points2>
  <Units2>Units2</Units2>
  <Price2>Price2</Price2>
  <PromoID2>PromoID2</PromoID2>
  <Desc2>Desc2</Desc2>
  <Points3>Points3</Points3>
  <Units3>Units3</Units3>
  <Price3>Price3</Price3>
  <PromoID3>PromoID3</PromoID3>
  <Desc3>Desc3</Desc3>
  <Points4>Points4</Points4>
  <Units4>Units4</Units4>
  <Price4>Price4</Price4>
  <PromoID4>PromoID4</PromoID4>
  <Desc4>Desc4</Desc4>
  <Points5>Points5</Points5>
  <Units5>Units5</Units5>
  <Price5>Price5</Price5>
  <PromoID5>PromoID5</PromoID5>
  <Desc5>Desc5</Desc5>
  <Points6>Points6</Points6>
  <Units6>Units6</Units6>
  <Price6>Price6</Price6>
  <PromoID6>PromoID6</PromoID6>
  <Desc6>Desc6</Desc6>
  <Points7>Points7</Points7>
  <Units7>Units7</Units7>
  <Price7>Price7</Price7>
  <PromoID7>PromoID7</PromoID7>
  <Desc7>Desc7</Desc7>
  <Points8>Points8</Points8>
  <Units8>Units8</Units8>
  <Price8>Price8</Price8>
  <PromoID8>PromoID8</PromoID8>
  <Desc8>Desc8</Desc8>
</Items>
<DemographicInfo>
  <CustEmail>CustEmail</CustEmail>
  <CustName>CustName</CustName>
  <CustPhone>CustPhone</CustPhone>
  <CustAddr1>CustAddr1</CustAddr1>
  <CustAddr2>CustAddr2</CustAddr2>
  <CustCity>CustCity</CustCity>

```

```
<CustState>CustState</CustState>  
<CustZip>CustZip</CustZip>  
<CustLanguage>CustLanguage</CustLanguage>  
</DemographicInfo>  
<SequenceNo>SequenceNo</SequenceNo>  
</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 Loyalty server to use for this transaction. Must be 9100.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	<b>For general use</b> 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. <b>For reversal support with selected processors</b> 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	"Loyalty"
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	"LOYALTY"
TranCode	Y	1	40	A	"Issue"
SecureDevice	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).
Format	Y	1	1	N	"2"
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	16	AN	To use the attached SecureDevice for MSR input of cardholder data, use value 'SecureDevice' To use the PC keyboard or attached SecureDevice for manual input of cardholder data, use value 'Prompt'
Amount:Purchase	O	1	8	N	Purchase amount (with 2 place decimal – eg. 29.95)
Items:Points	Y	1	8	N	Item 1 Points value
Items:Units	Y	1	8	N	Item 1 Units value
Items: Price	Y	1	8	N	Item 1 Price/amount
Items:PromoID	Y	1	8	N	Item 1 Promotional ID
Items:Desc	O	1	40	AN	Item 1 Description
Items:Points2	O	1	8	N	Item 2 Points value
Items:Units2	O	1	8	N	Item 2 Units value

Items: Price2	O	1	8	N	Item 2 Price/amount
Items:PromolD2	O	1	8	N	Item 2 Promotional ID
Items:Desc2	O	1	40	AN	Item 2 Description
Items:Points3	O	1	8	N	Item 3 Points value
Items:Units3	O	1	8	N	Item 3 Units value
Items: Price3	O	1	8	N	Item 3 Price/amount
Items:PromolD3	O	1	8	N	Item 3 Promotional ID
Items:Desc3	O	1	40	AN	Item 3 Description
Items:Points4	O	1	8	N	Item 4 Points value
Items:Units4	O	1	8	N	Item 4 Units value
Items: Price4	O	1	8	N	Item 4 Price/amount
Items:PromolD4	O	1	8	N	Item 4 Promotional ID
Items:Desc4	O	1	40	AN	Item 4 Description
Items:Points5	O	1	8	N	Item 5 Points value
Items:Units5	O	1	8	N	Item 5 Units value
Items: Price5	O	1	8	N	Item 5 Price/amount
Items:PromolD5	O	1	8	N	Item 5 Promotional ID
Items:Desc5	O	1	40	AN	Item 5 Description
Items:Points6	O	1	8	N	Item 6 Points value
Items:Units6	O	1	8	N	Item 6 Units value
Items: Price6	O	1	8	N	Item 6 Price/amount
Items:PromolD6	O	1	8	N	Item 6 Promotional ID
Items:Desc6	O	1	40	AN	Item 6 Description
Items:Points7	O	1	8	N	Item 7 Points value
Items:Units7	O	1	8	N	Item 7 Units value
Items: Price7	O	1	8	N	Item 7 Price/amount
Items:PromolD7	O	1	8	N	Item 7 Promotional ID
Items:Desc7	O	1	40	AN	Item 7 Description
Items:Points8	O	1	8	N	Item 8 Points value
Items:Units8	O	1	8	N	Item 8 Units value
Items: Price8	O	1	8	N	Item 8 Price/amount
Items:PromolD8	O	1	8	N	Item 8 Promotional ID
Items:Desc8	O	1	40	AN	Item 8 Description
DemographicInfo: CustEmail	O	1	40	AN	Customer email address
DemographicInfo: CustName	O	1	40	AN	Customer name
DemographicInfo:	O	7	10	N	Customer phone number

CustPhone					
DemographicInfo: CustAddr1	O	1	40	AN	Customer address – line 1
DemographicInfo: CustAddr2	O	1	40	AN	Customer address – line 2
DemographicInfo: CustCity	O	1	40	AN	Customer city
DemographicInfo: CustState	O	2	2	AN	Customer state
DemographicInfo: CustZip	O	5	9	N	Customer zip code
DemographicInfo: CustLanguage	O	1	40	AN	Customer language
SequenceNo	O	1	20	AN	<b><i>For reversal support with selected processors</i></b> Use '00000000' for first transaction in new installations. For all subsequent transactions, use the SequenceNo value returned in the previous transaction response.

## 7.2 Loyalty - Add

---

**Use:** To add value to an existing loyalty (rewards) card account.

**Notes:** To correct an error on an Loyalty Add transaction, first perform a VoidAdd transaction with the original Purchase and Points values and then perform another Add transaction with the correct values.

There are two formats available for Loyalty transactions. Format 1 is a simple format supporting a single promotion; Format 2 is an enhanced format that defines up to 8 promotions (with optional units, dollar values, promotional identifiers and descriptions) which may be processed in a single transaction. Both formats permit the inclusion of optional demographic data.

**XML Template: Loyalty Add (Format 1)**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>1</Format>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Add</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <Items>
      <Points>Points</Points>
      <Units>Units</Units>
      <Price>Price</Price>
      <PromoID>PromoID</PromoID>
      <Desc>Desc</Desc>
    </Items>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
    </DemographicInfo>
  </Transaction>
</TStream>
```

```

    <CustZip>CustZip</CustZip>
    <CustLanguage>CustLanguage</CustLanguage>
  </DemographicInfo>
  <SequenceNo>SequenceNo</SequenceNo>
</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 Loyalty server to use for this transaction. Must be 9100.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	<b>For general use</b> 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. <b>For reversal support with selected processors</b> 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	"Loyalty"
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	"LOYALTY"
TranCode	Y	1	40	A	"Add"
SecureDevice	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).
Format	Y	1	1	N	"1"
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	16	AN	To use the attached SecureDevice for MSR input of cardholder data, use value 'SecureDevice' To use the PC keyboard or attached SecureDevice for manual input of cardholder data, use value 'Prompt'
Amount:Purchase	O	1	8	N	Purchase amount (with 2 place decimal – eg. 29.95)
Items:Points	Y	1	8	N	Item 1 Points value
Items:Units	Y	1	8	N	Item 1 Units value
Items:Price	Y	1	8	N	Item 1 Price/amount

Items:PromoID	Y	1	8	N	Item 1 Promotional ID
Items:Desc	O	1	40	AN	Item 1 Description
DemographicInfo: CustEmail	O	1	40	AN	Customer email address
DemographicInfo: CustName	O	1	40	AN	Customer name
DemographicInfo: CustPhone	O	7	10	N	Customer phone number
DemographicInfo: CustAddr1	O	1	40	AN	Customer address – line 1
DemographicInfo: CustAddr2	O	1	40	AN	Customer address – line 2
DemographicInfo: CustCity	O	1	40	AN	Customer city
DemographicInfo: CustState	O	2	2	AN	Customer state
DemographicInfo: CustZip	O	5	9	N	Customer zip code
DemographicInfo: CustLanguage	O	1	40	AN	Customer language
SequenceNo	O	1	20	AN	<b>For reversal support with selected processors</b> Use '00000000' for first transaction in new installations. For all subsequent transactions, use the SequenceNo value returned in the previous transaction response.

XML Template: **Loyalty Add (Format 2)**

```

<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>2</Format>
    <Duplicate>Override</Duplicate>
    <CardType>LOYALTY</CardType>
    <TranCode>Add</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>

```

```

</Amount>
<Items>
  <Points>Points</Points>
  <Units>Units</Units>
  <Price>Price</Price>
  <PromoID>PromoID</PromoID>
  <Desc>Desc</Desc>
  <Points2>Points2</Points2>
  <Units2>Units2</Units2>
  <Price2>Price2</Price2>
  <PromoID2>PromoID2</PromoID2>
  <Desc2>Desc2</Desc2>
  <Points3>Points3</Points3>
  <Units3>Units3</Units3>
  <Price3>Price3</Price3>
  <PromoID3>PromoID3</PromoID3>
  <Desc3>Desc3</Desc3>
  <Points4>Points4</Points4>
  <Units4>Units4</Units4>
  <Price4>Price4</Price4>
  <PromoID4>PromoID4</PromoID4>
  <Desc4>Desc4</Desc4>
  <Points5>Points5</Points5>
  <Units5>Units5</Units5>
  <Price5>Price5</Price5>
  <PromoID5>PromoID5</PromoID5>
  <Desc5>Desc5</Desc5>
  <Points6>Points6</Points6>
  <Units6>Units6</Units6>
  <Price6>Price6</Price6>
  <PromoID6>PromoID6</PromoID6>
  <Desc6>Desc6</Desc6>
  <Points7>Points7</Points7>
  <Units7>Units7</Units7>
  <Price7>Price7</Price7>
  <PromoID7>PromoID7</PromoID7>
  <Desc7>Desc7</Desc7>
  <Points8>Points8</Points8>
  <Units8>Units8</Units8>
  <Price8>Price8</Price8>
  <PromoID8>PromoID8</PromoID8>
  <Desc8>Desc8</Desc8>
</Items>
<DemographicInfo>
  <CustEmail>CustEmail</CustEmail>
  <CustName>CustName</CustName>
  <CustPhone>CustPhone</CustPhone>
  <CustAddr1>CustAddr1</CustAddr1>
  <CustAddr2>CustAddr2</CustAddr2>
  <CustCity>CustCity</CustCity>
  <CustState>CustState</CustState>
  <CustZip>CustZip</CustZip>
  <CustLanguage>CustLanguage</CustLanguage>
</DemographicInfo>
<SequenceNo>SequenceNo</SequenceNo>
</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 Loyalty server to use for this transaction. Must be 9100.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	<b>For general use</b> 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. <b>For reversal support with selected processors</b> 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	"Loyalty"
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	"LOYALTY"
TranCode	Y	1	40	A	"Add"
SecureDevice	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).
Format	Y	1	1	N	"2"
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	16	AN	To use the attached SecureDevice for MSR input of cardholder data, use value 'SecureDevice' To use the PC keyboard or attached SecureDevice for manual input of cardholder data, use value 'Prompt'
Amount:Purchase	O	1	8	N	Purchase amount (with 2 place decimal – eg. 29.95)
Items:Points	Y	1	8	N	Item 1 Points value
Items:Units	Y	1	8	N	Item 1 Units value
Items: Price	Y	1	8	N	Item 1 Price/amount
Items:PromoID	Y	1	8	N	Item 1 Promotional ID
Items:Desc	O	1	40	AN	Item 1 Description
Items:Points2	O	1	8	N	Item 2 Points value
Items:Units2	O	1	8	N	Item 2 Units value

Items: Price2	O	1	8	N	Item 2 Price/amount
Items:PromolD2	O	1	8	N	Item 2 Promotional ID
Items:Desc2	O	1	40	AN	Item 2 Description
Items:Points3	O	1	8	N	Item 3 Points value
Items:Units3	O	1	8	N	Item 3 Units value
Items: Price3	O	1	8	N	Item 3 Price/amount
Items:PromolD3	O	1	8	N	Item 3 Promotional ID
Items:Desc3	O	1	40	AN	Item 3 Description
Items:Points4	O	1	8	N	Item 4 Points value
Items:Units4	O	1	8	N	Item 4 Units value
Items: Price4	O	1	8	N	Item 4 Price/amount
Items:PromolD4	O	1	8	N	Item 4 Promotional ID
Items:Desc4	O	1	40	AN	Item 4 Description
Items:Points5	O	1	8	N	Item 5 Points value
Items:Units5	O	1	8	N	Item 5 Units value
Items: Price5	O	1	8	N	Item 5 Price/amount
Items:PromolD5	O	1	8	N	Item 5 Promotional ID
Items:Desc5	O	1	40	AN	Item 5 Description
Items:Points6	O	1	8	N	Item 6 Points value
Items:Units6	O	1	8	N	Item 6 Units value
Items: Price6	O	1	8	N	Item 6 Price/amount
Items:PromolD6	O	1	8	N	Item 6 Promotional ID
Items:Desc6	O	1	40	AN	Item 6 Description
Items:Points7	O	1	8	N	Item 7 Points value
Items:Units7	O	1	8	N	Item 7 Units value
Items: Price7	O	1	8	N	Item 7 Price/amount
Items:PromolD7	O	1	8	N	Item 7 Promotional ID
Items:Desc7	O	1	40	AN	Item 7 Description
Items:Points8	O	1	8	N	Item 8 Points value
Items:Units8	O	1	8	N	Item 8 Units value
Items: Price8	O	1	8	N	Item 8 Price/amount
Items:PromolD8	O	1	8	N	Item 8 Promotional ID
Items:Desc8	O	1	40	AN	Item 8 Description
DemographicInfo: CustEmail	O	1	40	AN	Customer email address
DemographicInfo: CustName	O	1	40	AN	Customer name
DemographicInfo:	O	7	10	N	Customer phone number

CustPhone					
DemographicInfo: CustAddr1	O	1	40	AN	Customer address – line 1
DemographicInfo: CustAddr2	O	1	40	AN	Customer address – line 2
DemographicInfo: CustCity	O	1	40	AN	Customer city
DemographicInfo: CustState	O	2	2	AN	Customer state
DemographicInfo: CustZip	O	5	9	N	Customer zip code
DemographicInfo: CustLanguage	O	1	40	AN	Customer language
SequenceNo	O	1	20	AN	<b><i>For reversal support with selected processors</i></b> Use '00000000' for first transaction in new installations. For all subsequent transactions, use the SequenceNo value returned in the previous transaction response.

## 7.3 Loyalty - Subtract

---

**Use:** To subtract (remove) value to an existing loyalty (rewards) card account.

**Notes:** To correct an error on an Loyalty Subtract transaction, first perform a VoidSubtract transaction with the original Purchase and Points values and then perform another Subtract transaction with the correct values.

There are two formats available for Loyalty transactions. Format 1 is a simple format supporting a single promotion; Format 2 is an enhanced format that defines up to 8 promotions (with optional units, dollar values, promotional identifiers and descriptions) which may be processed in a single transaction. Both formats permit the inclusion of optional demographic data.

**XML Template: Loyalty Subtract (Format 1)**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>1</Format>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Subtract</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <Items>
      <Points>Points</Points>
      <Units>Units</Units>
      <Price>Price</Price>
      <PromoID>PromoID</PromoID>
      <Desc>Desc</Desc>
    </Items>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
    </DemographicInfo>
  </Transaction>
</TStream>
```

```

<CustState>CustState</CustState>
<CustZip>CustZip</CustZip>
<CustLanguage>CustLanguage</CustLanguage>
</DemographicInfo>
<SequenceNo>SequenceNo</SequenceNo>
</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 Loyalty server to use for this transaction. Must be 9100.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	<b>For general use</b> 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. <b>For reversal support with selected processors</b> 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	"Loyalty"
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	"LOYALTY"
TranCode	Y	1	40	A	"Subtract"
SecureDevice	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).
Format	Y	1	1	N	"1"
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	16	AN	To use the attached SecureDevice for MSR input of cardholder data, use value 'SecureDevice' To use the PC keyboard or attached SecureDevice for manual input of cardholder data, use value 'Prompt'
Amount:Purchase	O	1	8	N	Purchase amount (with 2 place decimal – eg. 29.95)
Items:Points	Y	1	8	N	Item 1 Points value
Items:Units	Y	1	8	N	Item 1 Units value

Items:Price	Y	1	8	N	Item 1 Price/amount
Items:PromoID	Y	1	8	N	Item 1 Promotional ID
Items:Desc	O	1	40	AN	Item 1 Description
DemographicInfo: CustEmail	O	1	40	AN	Customer email address
DemographicInfo: CustName	O	1	40	AN	Customer name
DemographicInfo: CustPhone	O	7	10	N	Customer phone number
DemographicInfo: CustAddr1	O	1	40	AN	Customer address – line 1
DemographicInfo: CustAddr2	O	1	40	AN	Customer address – line 2
DemographicInfo: CustCity	O	1	40	AN	Customer city
DemographicInfo: CustState	O	2	2	AN	Customer state
DemographicInfo: CustZip	O	5	9	N	Customer zip code
DemographicInfo: CustLanguage	O	1	40	AN	Customer language
SequenceNo	O	1	20	AN	<b>For reversal support with selected processors</b> Use '00000000' for first transaction in new installations. For all subsequent transactions, use the SequenceNo value returned in the previous transaction response.

XML Template: **Loyalty Subtract (Format 2)**

```

<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>2</Format>
    <Duplicate>Override</Duplicate>
    <CardType>LOYALTY</CardType>
    <TranCode>Subtract</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
  </Transaction>
</TStream>

```

```

<Items>
  <Points>Points</Points>
  <Units>Units</Units>
  <Price>Price</Price>
  <PromoID>PromoID</PromoID>
  <Desc>Desc</Desc>
  <Points2>Points2</Points2>
  <Units2>Units2</Units2>
  <Price2>Price2</Price2>
  <PromoID2>PromoID2</PromoID2>
  <Desc2>Desc2</Desc2>
  <Points3>Points3</Points3>
  <Units3>Units3</Units3>
  <Price3>Price3</Price3>
  <PromoID3>PromoID3</PromoID3>
  <Desc3>Desc3</Desc3>
  <Points4>Points4</Points4>
  <Units4>Units4</Units4>
  <Price4>Price4</Price4>
  <PromoID4>PromoID4</PromoID4>
  <Desc4>Desc4</Desc4>
  <Points5>Points5</Points5>
  <Units5>Units5</Units5>
  <Price5>Price5</Price5>
  <PromoID5>PromoID5</PromoID5>
  <Desc5>Desc5</Desc5>
  <Points6>Points6</Points6>
  <Units6>Units6</Units6>
  <Price6>Price6</Price6>
  <PromoID6>PromoID6</PromoID6>
  <Desc6>Desc6</Desc6>
  <Points7>Points7</Points7>
  <Units7>Units7</Units7>
  <Price7>Price7</Price7>
  <PromoID7>PromoID7</PromoID7>
  <Desc7>Desc7</Desc7>
  <Points8>Points8</Points8>
  <Units8>Units8</Units8>
  <Price8>Price8</Price8>
  <PromoID8>PromoID8</PromoID8>
  <Desc8>Desc8</Desc8>
</Items>
<DemographicInfo>
  <CustEmail>CustEmail</CustEmail>
  <CustName>CustName</CustName>
  <CustPhone>CustPhone</CustPhone>
  <CustAddr1>CustAddr1</CustAddr1>
  <CustAddr2>CustAddr2</CustAddr2>
  <CustCity>CustCity</CustCity>
  <CustState>CustState</CustState>
  <CustZip>CustZip</CustZip>
  <CustLanguage>CustLanguage</CustLanguage>
</DemographicInfo>
  <SequenceNo>SequenceNo</SequenceNo>
</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 Loyalty server to use for this transaction. Must be 9100.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	<b>For general use</b> 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.  <b>For reversal support with selected processors</b> 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	"Loyalty"
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	"LOYALTY"
TranCode	Y	1	40	A	"Subtract"
SecureDevice	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).
Format	Y	1	1	N	"2"
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	16	AN	To use the attached SecureDevice for MSR input of cardholder data, use value 'SecureDevice' To use the PC keyboard or attached SecureDevice for manual input of cardholder data, use value 'Prompt'
Amount:Purchase	O	1	8	N	Purchase amount (with 2 place decimal – eg. 29.95)
Items:Points	Y	1	8	N	Item 1 Points value
Items:Units	Y	1	8	N	Item 1 Units value
Items: Price	Y	1	8	N	Item 1 Price/amount
Items:PromoID	Y	1	8	N	Item 1 Promotional ID
Items:Desc	O	1	40	AN	Item 1 Description
Items:Points2	O	1	8	N	Item 2 Points value
Items:Units2	O	1	8	N	Item 2 Units value

Items: Price2	O	1	8	N	Item 2 Price/amount
Items:PromoID2	O	1	8	N	Item 2 Promotional ID
Items:Desc2	O	1	40	AN	Item 2 Description
Items:Points3	O	1	8	N	Item 3 Points value
Items:Units3	O	1	8	N	Item 3 Units value
Items: Price3	O	1	8	N	Item 3 Price/amount
Items:PromoID3	O	1	8	N	Item 3 Promotional ID
Items:Desc3	O	1	40	AN	Item 3 Description
Items:Points4	O	1	8	N	Item 4 Points value
Items:Units4	O	1	8	N	Item 4 Units value
Items: Price4	O	1	8	N	Item 4 Price/amount
Items:PromoID4	O	1	8	N	Item 4 Promotional ID
Items:Desc4	O	1	40	AN	Item 4 Description
Items:Points5	O	1	8	N	Item 5 Points value
Items:Units5	O	1	8	N	Item 5 Units value
Items: Price5	O	1	8	N	Item 5 Price/amount
Items:PromoID5	O	1	8	N	Item 5 Promotional ID
Items:Desc5	O	1	40	AN	Item 5 Description
Items:Points6	O	1	8	N	Item 6 Points value
Items:Units6	O	1	8	N	Item 6 Units value
Items: Price6	O	1	8	N	Item 6 Price/amount
Items:PromoID6	O	1	8	N	Item 6 Promotional ID
Items:Desc6	O	1	40	AN	Item 6 Description
Items:Points7	O	1	8	N	Item 7 Points value
Items:Units7	O	1	8	N	Item 7 Units value
Items: Price7	O	1	8	N	Item 7 Price/amount
Items:PromoID7	O	1	8	N	Item 7 Promotional ID
Items:Desc7	O	1	40	AN	Item 7 Description
Items:Points8	O	1	8	N	Item 8 Points value
Items:Units8	O	1	8	N	Item 8 Units value
Items: Price8	O	1	8	N	Item 8 Price/amount
Items:PromoID8	O	1	8	N	Item 8 Promotional ID
Items:Desc8	O	1	40	AN	Item 8 Description
DemographicInfo: CustEmail	O	1	40	AN	Customer email address
DemographicInfo: CustName	O	1	40	AN	Customer name
DemographicInfo:	O	7	10	N	Customer phone number

CustPhone					
DemographicInfo: CustAddr1	O	1	40	AN	Customer address – line 1
DemographicInfo: CustAddr2	O	1	40	AN	Customer address – line 2
DemographicInfo: CustCity	O	1	40	AN	Customer city
DemographicInfo: CustState	O	2	2	AN	Customer state
DemographicInfo: CustZip	O	5	9	N	Customer zip code
DemographicInfo: CustLanguage	O	1	40	AN	Customer language
SequenceNo	O	1	20	AN	<b><i>For reversal support with selected processors</i></b> Use '00000000' for first transaction in new installations. For all subsequent transactions, use the SequenceNo value returned in the previous transaction response.

## 7.4 Loyalty - VoidIssue

---

**Use:** To Void (cancel) a previously performed Issue transaction.

**Notes:** There are two formats available for Loyalty transactions. Format 1 is a simple format supporting a single promotion; Format 2 is an enhanced format that defines up to 8 promotions (with optional units, dollar values, promotional identifiers and descriptions) which may be processed in a single transaction. Both formats permit the inclusion of optional demographic data.

**XML Template: Loyalty VoidIssue (Format 1)**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>1</Format>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>VoidIssue</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <Items>
      <Points>Points</Points>
      <Units>Units</Units>
      <Price>Price</Price>
      <PromoID>PromoID</PromoID>
      <Desc>Desc</Desc>
    </Items>
    <TranInfo>
      <AuthCode>AuthCode</AuthCode>
    </TranInfo>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
    </DemographicInfo>
  </Transaction>
</TStream>
```

```

    <CustLanguage>CustLanguage</CustLanguage>
  </DemographicInfo>
  <SequenceNo>SequenceNo</SequenceNo>
</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 Loyalty server to use for this transaction. Must be 9100.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	<b>For general use</b> 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. <b>For reversal support with selected processors</b> 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	"Loyalty"
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	"LOYALTY"
TranCode	Y	1	40	A	"VoidIssue"
SecureDevice	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).
Format	Y	1	1	N	"1"
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	16	AN	To use the attached SecureDevice for MSR input of cardholder data, use value 'SecureDevice' To use the PC keyboard or attached SecureDevice for manual input of cardholder data, use value 'Prompt'
Amount:Purchase	O	1	8	N	Purchase amount (with 2 place decimal – eg. 29.95)
Items:Points	Y	1	8	N	Item 1 Points value
Items:Units	Y	1	8	N	Item 1 Units value

Items:Price	Y	1	8	N	Item 1 Price/amount
Items:PromoID	Y	1	8	N	Item 1 Promotional ID
Items:Desc	O	1	40	AN	Item 1 Description
TranInfo:AuthCode	Y	1	16	AN	Use the AuthCode value returned in the original L Issue transaction response.
DemographicInfo:CustEmail	O	1	40	AN	Customer email address
DemographicInfo:CustName	O	1	40	AN	Customer name
DemographicInfo:CustPhone	O	7	10	N	Customer phone number
DemographicInfo:CustAddr1	O	1	40	AN	Customer address – line 1
DemographicInfo:CustAddr2	O	1	40	AN	Customer address – line 2
DemographicInfo:CustCity	O	1	40	AN	Customer city
DemographicInfo:CustState	O	2	2	AN	Customer state
DemographicInfo:CustZip	O	5	9	N	Customer zip code
DemographicInfo:CustLanguage	O	1	40	AN	Customer language
SequenceNo	O	1	20	AN	<b>For reversal support with selected processors</b> Use '00000000' for first transaction in new installations. For all subsequent transactions, use the SequenceNo value returned in the previous transaction response.

XML Template: **Loyalty VoidIssue (Format 2)**

```

<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>2</Format>
    <Duplicate>Override</Duplicate>
    <CardType>LOYALTY</CardType>
    <TranCode>VoidIssue</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
  </Transaction>
</TStream>

```

```

<Account>
  <AcctNo>SecureDevice</AcctNo>
</Account>
<Amount>
  <Purchase>Purchase</Purchase>
</Amount>
<Items>
  <Points>Points</Points>
  <Units>Units</Units>
  <Price>Price</Price>
  <PromoID>PromoID</PromoID>
  <Desc>Desc</Desc>
  <Points2>Points2</Points2>
  <Units2>Units2</Units2>
  <Price2>Price2</Price2>
  <PromoID2>PromoID2</PromoID2>
  <Desc2>Desc2</Desc2>
  <Points3>Points3</Points3>
  <Units3>Units3</Units3>
  <Price3>Price3</Price3>
  <PromoID3>PromoID3</PromoID3>
  <Desc3>Desc3</Desc3>
  <Points4>Points4</Points4>
  <Units4>Units4</Units4>
  <Price4>Price4</Price4>
  <PromoID4>PromoID4</PromoID4>
  <Desc4>Desc4</Desc4>
  <Points5>Points5</Points5>
  <Units5>Units5</Units5>
  <Price5>Price5</Price5>
  <PromoID5>PromoID5</PromoID5>
  <Desc5>Desc5</Desc5>
  <Points6>Points6</Points6>
  <Units6>Units6</Units6>
  <Price6>Price6</Price6>
  <PromoID6>PromoID6</PromoID6>
  <Desc6>Desc6</Desc6>
  <Points7>Points7</Points7>
  <Units7>Units7</Units7>
  <Price7>Price7</Price7>
  <PromoID7>PromoID7</PromoID7>
  <Desc7>Desc7</Desc7>
  <Points8>Points8</Points8>
  <Units8>Units8</Units8>
  <Price8>Price8</Price8>
  <PromoID8>PromoID8</PromoID8>
  <Desc8>Desc8</Desc8>
</Items>
<TranInfo>
  <AuthCode>AuthCode</AuthCode>
</TranInfo>
<DemographicInfo>
  <CustEmail>CustEmail</CustEmail>
  <CustName>CustName</CustName>
  <CustPhone>CustPhone</CustPhone>
  <CustAddr1>CustAddr1</CustAddr1>
  <CustAddr2>CustAddr2</CustAddr2>

```

```
<CustCity>CustCity</CustCity>  
<CustState>CustState</CustState>  
<CustZip>CustZip</CustZip>  
<CustLanguage>CustLanguage</CustLanguage>  
</DemographicInfo>  
<SequenceNo>SequenceNo</SequenceNo>  
</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 Loyalty server to use for this transaction. Must be 9100.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	<b>For general use</b> 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. <b>For reversal support with selected processors</b> 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	"Loyalty"
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	"LOYALTY"
TranCode	Y	1	40	A	"VoidIssue"
SecureDevice	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).
Format	Y	1	1	N	"2"
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	16	AN	To use the attached SecureDevice for MSR input of cardholder data, use value 'SecureDevice' To use the PC keyboard or attached SecureDevice for manual input of cardholder data, use value 'Prompt'
Amount:Purchase	O	1	8	N	Purchase amount (with 2 place decimal – eg. 29.95)
Items:Points	Y	1	8	N	Item 1 Points value
Items:Units	Y	1	8	N	Item 1 Units value
Items: Price	Y	1	8	N	Item 1 Price/amount
Items:PromoID	Y	1	8	N	Item 1 Promotional ID
Items:Desc	O	1	40	AN	Item 1 Description
Items:Points2	O	1	8	N	Item 2 Points value
Items:Units2	O	1	8	N	Item 2 Units value

Items: Price2	O	1	8	N	Item 2 Price/amount
Items:PromolD2	O	1	8	N	Item 2 Promotional ID
Items:Desc2	O	1	40	AN	Item 2 Description
Items:Points3	O	1	8	N	Item 3 Points value
Items:Units3	O	1	8	N	Item 3 Units value
Items: Price3	O	1	8	N	Item 3 Price/amount
Items:PromolD3	O	1	8	N	Item 3 Promotional ID
Items:Desc3	O	1	40	AN	Item 3 Description
Items:Points4	O	1	8	N	Item 4 Points value
Items:Units4	O	1	8	N	Item 4 Units value
Items: Price4	O	1	8	N	Item 4 Price/amount
Items:PromolD4	O	1	8	N	Item 4 Promotional ID
Items:Desc4	O	1	40	AN	Item 4 Description
Items:Points5	O	1	8	N	Item 5 Points value
Items:Units5	O	1	8	N	Item 5 Units value
Items: Price5	O	1	8	N	Item 5 Price/amount
Items:PromolD5	O	1	8	N	Item 5 Promotional ID
Items:Desc5	O	1	40	AN	Item 5 Description
Items:Points6	O	1	8	N	Item 6 Points value
Items:Units6	O	1	8	N	Item 6 Units value
Items: Price6	O	1	8	N	Item 6 Price/amount
Items:PromolD6	O	1	8	N	Item 6 Promotional ID
Items:Desc6	O	1	40	AN	Item 6 Description
Items:Points7	O	1	8	N	Item 7 Points value
Items:Units7	O	1	8	N	Item 7 Units value
Items: Price7	O	1	8	N	Item 7 Price/amount
Items:PromolD7	O	1	8	N	Item 7 Promotional ID
Items:Desc7	O	1	40	AN	Item 7 Description
Items:Points8	O	1	8	N	Item 8 Points value
Items:Units8	O	1	8	N	Item 8 Units value
Items: Price8	O	1	8	N	Item 8 Price/amount
Items:PromolD8	O	1	8	N	Item 8 Promotional ID
Items:Desc8	O	1	40	AN	Item 8 Description
TranInfo:AuthCode	Y	1	16	AN	Use the AuthCode value returned in the original Loyalty Issue transaction response.
DemographicInfo: CustEmail	O	1	40	AN	Customer email address
DemographicInfo:	O	1	40	AN	Customer name

CustName					
DemographicInfo: CustPhone	O	7	10	N	Customer phone number
DemographicInfo: CustAddr1	O	1	40	AN	Customer address – line 1
DemographicInfo: CustAddr2	O	1	40	AN	Customer address – line 2
DemographicInfo: CustCity	O	1	40	AN	Customer city
DemographicInfo: CustState	O	2	2	AN	Customer state
DemographicInfo: CustZip	O	5	9	N	Customer zip code
DemographicInfo: CustLanguage	O	1	40	AN	Customer language
SequenceNo	O	1	20	AN	<b><i>For reversal support with selected processors</i></b> Use '00000000' for first transaction in new installations. For all subsequent transactions, use the SequenceNo value returned in the previous transaction response.

## 7.5 Loyalty - VoidAdd

---

**Use:** To Void (cancel) a previously performed Add transaction.

**Notes:** There are two formats available for Loyalty transactions. Format 1 is a simple format supporting a single promotion; Format 2 is an enhanced format that defines up to 8 promotions (with optional units, dollar values, promotional identifiers and descriptions) which may be processed in a single transaction. Both formats permit the inclusion of optional demographic data.

**XML Template: Loyalty VoidAdd (Format 1)**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>1</Format>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>VoidAdd</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <Items>
      <Points>Points</Points>
      <Units>Units</Units>
      <Price>Price</Price>
      <PromoID>PromoID</PromoID>
      <Desc>Desc</Desc>
    </Items>
    <TranInfo>
      <AuthCode>AuthCode</AuthCode>
    </TranInfo>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
    </DemographicInfo>
  </Transaction>
</TStream>
```

```

<CustLanguage>CustLanguage</CustLanguage>
</DemographicInfo>
<SequenceNo>SequenceNo</SequenceNo>
</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 Loyalty server to use for this transaction. Must be 9100.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	<b>For general use</b> 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. <b>For reversal support with selected processors</b> 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	"Loyalty"
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	"LOYALTY"
TranCode	Y	1	40	A	"VoidAdd"
SecureDevice	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).
Format	Y	1	1	N	"1"
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	16	AN	To use the attached SecureDevice for MSR input of cardholder data, use value 'SecureDevice' To use the PC keyboard or attached SecureDevice for manual input of cardholder data, use value 'Prompt'
Amount:Purchase	O	1	8	N	Purchase amount (with 2 place decimal – eg. 29.95)
Items:Points	Y	1	8	N	Item 1 Points value
Items:Units	Y	1	8	N	Item 1 Units value
Items:Price	Y	1	8	N	Item 1 Price/amount

Items:PromoID	Y	1	8	N	Item 1 Promotional ID
Items:Desc	O	1	40	AN	Item 1 Description
TranInfo:AuthCode	Y	1	16	AN	Use the AuthCode value returned in the original Loyalty Add transaction response.
DemographicInfo:CustEmail	O	1	40	AN	Customer email address
DemographicInfo:CustName	O	1	40	AN	Customer name
DemographicInfo:CustPhone	O	7	10	N	Customer phone number
DemographicInfo:CustAddr1	O	1	40	AN	Customer address – line 1
DemographicInfo:CustAddr2	O	1	40	AN	Customer address – line 2
DemographicInfo:CustCity	O	1	40	AN	Customer city
DemographicInfo:CustState	O	2	2	AN	Customer state
DemographicInfo:CustZip	O	5	9	N	Customer zip code
DemographicInfo:CustLanguage	O	1	40	AN	Customer language
SequenceNo	O	1	20	AN	<b>For reversal support with selected processors</b> Use '00000000' for first transaction in new installations. For all subsequent transactions, use the SequenceNo value returned in the previous transaction response.

XML Template: **Loyalty VoidAdd (Format 2)**

```

<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>2</Format>
    <Duplicate>Override</Duplicate>
    <CardType>LOYALTY</CardType>
    <TranCode>VoidAdd</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>

```

```

    <AcctNo>SecureDevice</AcctNo>
  </Account>
  <Amount>
    <Purchase>Purchase</Purchase>
  </Amount>
  <Items>
    <Points>Points</Points>
    <Units>Units</Units>
    <Price>Price</Price>
    <PromoID>PromoID</PromoID>
    <Desc>Desc</Desc>
    <Points2>Points2</Points2>
    <Units2>Units2</Units2>
    <Price2>Price2</Price2>
    <PromoID2>PromoID2</PromoID2>
    <Desc2>Desc2</Desc2>
    <Points3>Points3</Points3>
    <Units3>Units3</Units3>
    <Price3>Price3</Price3>
    <PromoID3>PromoID3</PromoID3>
    <Desc3>Desc3</Desc3>
    <Points4>Points4</Points4>
    <Units4>Units4</Units4>
    <Price4>Price4</Price4>
    <PromoID4>PromoID4</PromoID4>
    <Desc4>Desc4</Desc4>
    <Points5>Points5</Points5>
    <Units5>Units5</Units5>
    <Price5>Price5</Price5>
    <PromoID5>PromoID5</PromoID5>
    <Desc5>Desc5</Desc5>
    <Points6>Points6</Points6>
    <Units6>Units6</Units6>
    <Price6>Price6</Price6>
    <PromoID6>PromoID6</PromoID6>
    <Desc6>Desc6</Desc6>
    <Points7>Points7</Points7>
    <Units7>Units7</Units7>
    <Price7>Price7</Price7>
    <PromoID7>PromoID7</PromoID7>
    <Desc7>Desc7</Desc7>
    <Points8>Points8</Points8>
    <Units8>Units8</Units8>
    <Price8>Price8</Price8>
    <PromoID8>PromoID8</PromoID8>
    <Desc8>Desc8</Desc8>
  </Items>
  <TranInfo>
    <AuthCode>AuthCode</AuthCode>
  </TranInfo>
  <DemographicInfo>
    <CustEmail>CustEmail</CustEmail>
    <CustName>CustName</CustName>
    <CustPhone>CustPhone</CustPhone>
    <CustAddr1>CustAddr1</CustAddr1>
    <CustAddr2>CustAddr2</CustAddr2>
    <CustCity>CustCity</CustCity>
  </DemographicInfo>

```

```
<CustState>CustState</CustState>  
<CustZip>CustZip</CustZip>  
<CustLanguage>CustLanguage</CustLanguage>  
</DemographicInfo>  
<SequenceNo>SequenceNo</SequenceNo>  
</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 Loyalty server to use for this transaction. Must be 9100.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	<b>For general use</b> 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. <b>For reversal support with selected processors</b> 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	"Loyalty"
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	"LOYALTY"
TranCode	Y	1	40	A	"VoidAdd"
SecureDevice	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).
Format	Y	1	1	N	"2"
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	16	AN	To use the attached SecureDevice for MSR input of cardholder data, use value 'SecureDevice' To use the PC keyboard or attached SecureDevice for manual input of cardholder data, use value 'Prompt'
Amount:Purchase	O	1	8	N	Purchase amount (with 2 place decimal – eg. 29.95)
Items:Points	Y	1	8	N	Item 1 Points value
Items:Units	Y	1	8	N	Item 1 Units value
Items: Price	Y	1	8	N	Item 1 Price/amount
Items:PromoID	Y	1	8	N	Item 1 Promotional ID
Items:Desc	O	1	40	AN	Item 1 Description
Items:Points2	O	1	8	N	Item 2 Points value
Items:Units2	O	1	8	N	Item 2 Units value

Items: Price2	O	1	8	N	Item 2 Price/amount
Items:PromolD2	O	1	8	N	Item 2 Promotional ID
Items:Desc2	O	1	40	AN	Item 2 Description
Items:Points3	O	1	8	N	Item 3 Points value
Items:Units3	O	1	8	N	Item 3 Units value
Items: Price3	O	1	8	N	Item 3 Price/amount
Items:PromolD3	O	1	8	N	Item 3 Promotional ID
Items:Desc3	O	1	40	AN	Item 3 Description
Items:Points4	O	1	8	N	Item 4 Points value
Items:Units4	O	1	8	N	Item 4 Units value
Items: Price4	O	1	8	N	Item 4 Price/amount
Items:PromolD4	O	1	8	N	Item 4 Promotional ID
Items:Desc4	O	1	40	AN	Item 4 Description
Items:Points5	O	1	8	N	Item 5 Points value
Items:Units5	O	1	8	N	Item 5 Units value
Items: Price5	O	1	8	N	Item 5 Price/amount
Items:PromolD5	O	1	8	N	Item 5 Promotional ID
Items:Desc5	O	1	40	AN	Item 5 Description
Items:Points6	O	1	8	N	Item 6 Points value
Items:Units6	O	1	8	N	Item 6 Units value
Items: Price6	O	1	8	N	Item 6 Price/amount
Items:PromolD6	O	1	8	N	Item 6 Promotional ID
Items:Desc6	O	1	40	AN	Item 6 Description
Items:Points7	O	1	8	N	Item 7 Points value
Items:Units7	O	1	8	N	Item 7 Units value
Items: Price7	O	1	8	N	Item 7 Price/amount
Items:PromolD7	O	1	8	N	Item 7 Promotional ID
Items:Desc7	O	1	40	AN	Item 7 Description
Items:Points8	O	1	8	N	Item 8 Points value
Items:Units8	O	1	8	N	Item 8 Units value
Items: Price8	O	1	8	N	Item 8 Price/amount
Items:PromolD8	O	1	8	N	Item 8 Promotional ID
Items:Desc8	O	1	40	AN	Item 8 Description
TranInfo:AuthCode	Y	1	16	AN	Use the AuthCode value returned in the original Loyalty Add transaction response.
DemographicInfo: CustEmail	O	1	40	AN	Customer email address
DemographicInfo:	O	1	40	AN	Customer name

CustName					
DemographicInfo: CustPhone	O	7	10	N	Customer phone number
DemographicInfo: CustAddr1	O	1	40	AN	Customer address – line 1
DemographicInfo: CustAddr2	O	1	40	AN	Customer address – line 2
DemographicInfo: CustCity	O	1	40	AN	Customer city
DemographicInfo: CustState	O	2	2	AN	Customer state
DemographicInfo: CustZip	O	5	9	N	Customer zip code
DemographicInfo: CustLanguage	O	1	40	AN	Customer language
SequenceNo	O	1	20	AN	<b><i>For reversal support with selected processors</i></b> Use '00000000' for first transaction in new installations. For all subsequent transactions, use the SequenceNo value returned in the previous transaction response.

## 7.6 Loyalty - VoidSubtract

---

**Use:** To Void (cancel) a previously performed Subtract transaction.

**Notes:** There are two formats available for Loyalty transactions. Format 1 is a simple format supporting a single promotion; Format 2 is an enhanced format that defines up to 8 promotions (with optional units, dollar values, promotional identifiers and descriptions) which may be processed in a single transaction. Both formats permit the inclusion of optional demographic data.

**XML Template: Loyalty VoidSubtract (Format 1)**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>1</Format>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>VoidSubtract</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <Items>
      <Points>Points</Points>
      <Units>Units</Units>
      <Price>Price</Price>
      <PromoID>PromoID</PromoID>
      <Desc>Desc</Desc>
    </Items>
    <TranInfo>
      <AuthCode>AuthCode</AuthCode>
    </TranInfo>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
    </DemographicInfo>
  </Transaction>
</TStream>
```

```

    <CustLanguage>CustLanguage</CustLanguage>
  </DemographicInfo>
  <SequenceNo>SequenceNo</SequenceNo>
</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 Loyalty server to use for this transaction. Must be 9100.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	<b>For general use</b> 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. <b>For reversal support with selected processors</b> 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	"Loyalty"
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	"LOYALTY"
TranCode	Y	1	40	A	"VoidSubtract"
SecureDevice	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).
Format	Y	1	1	N	"1"
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	16	AN	To use the attached SecureDevice for MSR input of cardholder data, use value 'SecureDevice' To use the PC keyboard or attached SecureDevice for manual input of cardholder data, use value 'Prompt'
Amount:Purchase	O	1	8	N	Purchase amount (with 2 place decimal – eg. 29.95)
Items:Points	Y	1	8	N	Item 1 Points value
Items:Units	Y	1	8	N	Item 1 Units value

Items:Price	Y	1	8	N	Item 1 Price/amount
Items:PromoID	Y	1	8	N	Item 1 Promotional ID
Items:Desc	O	1	40	AN	Item 1 Description
TranInfo:AuthCode	Y	1	16	AN	Use the AuthCode value returned in the original Loyalty Subtract transaction response.
DemographicInfo: CustEmail	O	1	40	AN	Customer email address
DemographicInfo: CustName	O	1	40	AN	Customer name
DemographicInfo: CustPhone	O	7	10	N	Customer phone number
DemographicInfo: CustAddr1	O	1	40	AN	Customer address – line 1
DemographicInfo: CustAddr2	O	1	40	AN	Customer address – line 2
DemographicInfo: CustCity	O	1	40	AN	Customer city
DemographicInfo: CustState	O	2	2	AN	Customer state
DemographicInfo: CustZip	O	5	9	N	Customer zip code
DemographicInfo: CustLanguage	O	1	40	AN	Customer language
SequenceNo	O	1	20	AN	<b><i>For reversal support with selected processors</i></b> Use '00000000' for first transaction in new installations. For all subsequent transactions, use the SequenceNo value returned in the previous transaction response.

XML Template: **Loyalty VoidSubtract** (*Format 2*)

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>2</Format>
    <Duplicate>Override</Duplicate>
    <CardType>LOYALTY</CardType>
    <TranCode>VoidSubtract</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <Items>
      <Points>Points</Points>
      <Units>Units</Units>
      <Price>Price</Price>
      <PromoID>PromoID</PromoID>
      <Desc>Desc</Desc>
      <Points2>Points2</Points2>
      <Units2>Units2</Units2>
      <Price2>Price2</Price2>
      <PromoID2>PromoID2</PromoID2>
      <Desc2>Desc2</Desc2>
      <Points3>Points3</Points3>
      <Units3>Units3</Units3>
      <Price3>Price3</Price3>
      <PromoID3>PromoID3</PromoID3>
      <Desc3>Desc3</Desc3>
      <Points4>Points4</Points4>
      <Units4>Units4</Units4>
      <Price4>Price4</Price4>
      <PromoID4>PromoID4</PromoID4>
      <Desc4>Desc4</Desc4>
      <Points5>Points5</Points5>
      <Units5>Units5</Units5>
      <Price5>Price5</Price5>
      <PromoID5>PromoID5</PromoID5>
      <Desc5>Desc5</Desc5>
      <Points6>Points6</Points6>
      <Units6>Units6</Units6>
      <Price6>Price6</Price6>
      <PromoID6>PromoID6</PromoID6>
      <Desc6>Desc6</Desc6>
      <Points7>Points7</Points7>
```

```

<Units7>Units7</Units7>
<Price7>Price7</Price7>
<PromoID7>PromoID7</PromoID7>
<Desc7>Desc7</Desc7>
<Points8>Points8</Points8>
<Units8>Units8</Units8>
<Price8>Price8</Price8>
<PromoID8>PromoID8</PromoID8>
<Desc8>Desc8</Desc8>
</Items>
<TranInfo>
  <AuthCode>AuthCode</AuthCode>
</TranInfo>
<DemographicInfo>
  <CustEmail>CustEmail</CustEmail>
  <CustName>CustName</CustName>
  <CustPhone>CustPhone</CustPhone>
  <CustAddr1>CustAddr1</CustAddr1>
  <CustAddr2>CustAddr2</CustAddr2>
  <CustCity>CustCity</CustCity>
  <CustState>CustState</CustState>
  <CustZip>CustZip</CustZip>
  <CustLanguage>CustLanguage</CustLanguage>
</DemographicInfo>
<SequenceNo>SequenceNo</SequenceNo>
</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 Loyalty server to use for this transaction. Must be 9100.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	<b>For general use</b> 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. <b>For reversal support with selected processors</b> 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	"Loyalty"
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	"LOYALTY"
TranCode	Y	1	40	A	"VoidSubtract"

SecureDevice	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).
Format	Y	1	1	N	"2"
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	16	AN	To use the attached SecureDevice for MSR input of cardholder data, use value 'SecureDevice' To use the PC keyboard or attached SecureDevice for manual input of cardholder data, use value 'Prompt'
Amount:Purchase	O	1	8	N	Purchase amount (with 2 place decimal – eg. 29.95)
Items:Points	Y	1	8	N	Item 1 Points value
Items:Units	Y	1	8	N	Item 1 Units value
Items: Price	Y	1	8	N	Item 1 Price/amount
Items:PromoID	Y	1	8	N	Item 1 Promotional ID
Items:Desc	O	1	40	AN	Item 1 Description
Items:Points2	O	1	8	N	Item 2 Points value
Items:Units2	O	1	8	N	Item 2 Units value
Items: Price2	O	1	8	N	Item 2 Price/amount
Items:PromoID2	O	1	8	N	Item 2 Promotional ID
Items:Desc2	O	1	40	AN	Item 2 Description
Items:Points3	O	1	8	N	Item 3 Points value
Items:Units3	O	1	8	N	Item 3 Units value
Items: Price3	O	1	8	N	Item 3 Price/amount
Items:PromoID3	O	1	8	N	Item 3 Promotional ID
Items:Desc3	O	1	40	AN	Item 3 Description
Items:Points4	O	1	8	N	Item 4 Points value
Items:Units4	O	1	8	N	Item 4 Units value
Items: Price4	O	1	8	N	Item 4 Price/amount
Items:PromoID4	O	1	8	N	Item 4 Promotional ID
Items:Desc4	O	1	40	AN	Item 4 Description
Items:Points5	O	1	8	N	Item 5 Points value
Items:Units5	O	1	8	N	Item 5 Units value
Items: Price5	O	1	8	N	Item 5 Price/amount
Items:PromoID5	O	1	8	N	Item 5 Promotional ID
Items:Desc5	O	1	40	AN	Item 5 Description

Items:Points6	O	1	8	N	Item 6 Points value
Items:Units6	O	1	8	N	Item 6 Units value
Items: Price6	O	1	8	N	Item 6 Price/amount
Items:PromoID6	O	1	8	N	Item 6 Promotional ID
Items:Desc6	O	1	40	AN	Item 6 Description
Items:Points7	O	1	8	N	Item 7 Points value
Items:Units7	O	1	8	N	Item 7 Units value
Items: Price7	O	1	8	N	Item 7 Price/amount
Items:PromoID7	O	1	8	N	Item 7 Promotional ID
Items:Desc7	O	1	40	AN	Item 7 Description
Items:Points8	O	1	8	N	Item 8 Points value
Items:Units8	O	1	8	N	Item 8 Units value
Items: Price8	O	1	8	N	Item 8 Price/amount
Items:PromoID8	O	1	8	N	Item 8 Promotional ID
Items:Desc8	O	1	40	AN	Item 8 Description
TranInfo:AuthCode	Y	1	16	AN	Use the AuthCode value returned in the original Loyalty Subtract transaction response.
DemographicInfo: CustEmail	O	1	40	AN	Customer email address
DemographicInfo: CustName	O	1	40	AN	Customer name
DemographicInfo: CustPhone	O	7	10	N	Customer phone number
DemographicInfo: CustAddr1	O	1	40	AN	Customer address – line 1
DemographicInfo: CustAddr2	O	1	40	AN	Customer address – line 2
DemographicInfo: CustCity	O	1	40	AN	Customer city
DemographicInfo: CustState	O	2	2	AN	Customer state
DemographicInfo: CustZip	O	5	9	N	Customer zip code
DemographicInfo: CustLanguage	O	1	40	AN	Customer language
SequenceNo	O	1	20	AN	<b>For reversal support with selected processors</b> Use '00000000' for first transaction in new installations. For all subsequent transactions, use the SequenceNo value returned in the previous transaction response.

## 7.7 Loyalty - Balance

---

**Use:** To retrieve balances on Purchase (products) and Points for an existing Loyalty card account..

**Notes:** There are two formats available for Loyalty transactions. Format 1 is a simple format supporting a single promotion; Format 2 is an enhanced format that defines up to 8 promotions (with optional units, dollar values, promotional identifiers and descriptions) which may be processed in a single transaction. Both formats permit the inclusion of optional demographic data.

**XML Template: Loyalty Balance (Format 1)**

```
<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>1</Format>
    <Duplicate>Override</Duplicate>
    <CardType>CardType</CardType>
    <TranCode>Balance</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>
    </Amount>
    <Items>
      <Points>Points</Points>
      <Units>Units</Units>
      <Price>Price</Price>
      <PromoID>PromoID</PromoID>
      <Desc>Desc</Desc>
    </Items>
    <DemographicInfo>
      <CustEmail>CustEmail</CustEmail>
      <CustName>CustName</CustName>
      <CustPhone>CustPhone</CustPhone>
      <CustAddr1>CustAddr1</CustAddr1>
      <CustAddr2>CustAddr2</CustAddr2>
      <CustCity>CustCity</CustCity>
      <CustState>CustState</CustState>
      <CustZip>CustZip</CustZip>
      <CustLanguage>CustLanguage</CustLanguage>
    </DemographicInfo>
  </Transaction>
</TStream>
```

<SequenceNo>SequenceNo</SequenceNo>  
 </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 Loyalty server to use for this transaction. Must be 9100.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	<b>For general use</b> 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. <b>For reversal support with selected processors</b> 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	"Loyalty"
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	"LOYALTY"
TranCode	Y	1	40	A	"Balance"
SecureDevice	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).
Format	Y	1	1	N	"1"
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	16	AN	To use the attached SecureDevice for MSR input of cardholder data, use value 'SecureDevice' To use the PC keyboard or attached SecureDevice for manual input of cardholder data, use value 'Prompt'
Amount:Purchase	O	1	8	N	Purchase amount (with 2 place decimal – eg. 29.95)
Items:Points	Y	1	8	N	Item 1 Points value
Items:Units	Y	1	8	N	Item 1 Units value
Items:Price	Y	1	8	N	Item 1 Price/amount
Items:PromoID	Y	1	8	N	Item 1 Promotional ID

Items:Desc	O	1	40	AN	Item 1 Description
DemographicInfo: CustEmail	O	1	40	AN	Customer email address
DemographicInfo: CustName	O	1	40	AN	Customer name
DemographicInfo: CustPhone	O	7	10	N	Customer phone number
DemographicInfo: CustAddr1	O	1	40	AN	Customer address – line 1
DemographicInfo: CustAddr2	O	1	40	AN	Customer address – line 2
DemographicInfo: CustCity	O	1	40	AN	Customer city
DemographicInfo: CustState	O	2	2	AN	Customer state
DemographicInfo: CustZip	O	5	9	N	Customer zip code
DemographicInfo: CustLanguage	O	1	40	AN	Customer language
SequenceNo	O	1	20	AN	<b>For reversal support with selected processors</b> Use '00000000' for first transaction in new installations. For all subsequent transactions, use the SequenceNo value returned in the previous transaction response.

XML Template: **Loyalty Balance (Format 2)**

```

<?xml version="1.0"?>
<TStream>
  <Transaction>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>9100</IpPort>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>Loyalty</TranType>
    <Format>2</Format>
    <Duplicate>Override</Duplicate>
    <CardType>LOYALTY</CardType>
    <TranCode>Balance</TranCode>
    <SecureDevice>SecureDevice</SecureDevice>
    <ComPort>ComPort</ComPort>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <RefNo>RefNo</RefNo>
    <Account>
      <AcctNo>SecureDevice</AcctNo>
    </Account>
    <Amount>
      <Purchase>Purchase</Purchase>

```

```

</Amount>
<Items>
  <Points>Points</Points>
  <Units>Units</Units>
  <Price>Price</Price>
  <PromoID>PromoID</PromoID>
  <Desc>Desc</Desc>
  <Points2>Points2</Points2>
  <Units2>Units2</Units2>
  <Price2>Price2</Price2>
  <PromoID2>PromoID2</PromoID2>
  <Desc2>Desc2</Desc2>
  <Points3>Points3</Points3>
  <Units3>Units3</Units3>
  <Price3>Price3</Price3>
  <PromoID3>PromoID3</PromoID3>
  <Desc3>Desc3</Desc3>
  <Points4>Points4</Points4>
  <Units4>Units4</Units4>
  <Price4>Price4</Price4>
  <PromoID4>PromoID4</PromoID4>
  <Desc4>Desc4</Desc4>
  <Points5>Points5</Points5>
  <Units5>Units5</Units5>
  <Price5>Price5</Price5>
  <PromoID5>PromoID5</PromoID5>
  <Desc5>Desc5</Desc5>
  <Points6>Points6</Points6>
  <Units6>Units6</Units6>
  <Price6>Price6</Price6>
  <PromoID6>PromoID6</PromoID6>
  <Desc6>Desc6</Desc6>
  <Points7>Points7</Points7>
  <Units7>Units7</Units7>
  <Price7>Price7</Price7>
  <PromoID7>PromoID7</PromoID7>
  <Desc7>Desc7</Desc7>
  <Points8>Points8</Points8>
  <Units8>Units8</Units8>
  <Price8>Price8</Price8>
  <PromoID8>PromoID8</PromoID8>
  <Desc8>Desc8</Desc8>
</Items>
<DemographicInfo>
  <CustEmail>CustEmail</CustEmail>
  <CustName>CustName</CustName>
  <CustPhone>CustPhone</CustPhone>
  <CustAddr1>CustAddr1</CustAddr1>
  <CustAddr2>CustAddr2</CustAddr2>
  <CustCity>CustCity</CustCity>
  <CustState>CustState</CustState>
  <CustZip>CustZip</CustZip>
  <CustLanguage>CustLanguage</CustLanguage>
</DemographicInfo>
<SequenceNo>SequenceNo</SequenceNo>
</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 Loyalty server to use for this transaction. Must be 9100.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	<b>For general use</b> 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. <b>For reversal support with selected processors</b> 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	"Loyalty"
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	"LOYALTY"
TranCode	Y	1	40	A	"Balance"
SecureDevice	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).
Format	Y	1	1	N	"2"
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	16	AN	To use the attached SecureDevice for MSR input of cardholder data, use value 'SecureDevice' To use the PC keyboard or attached SecureDevice for manual input of cardholder data, use value 'Prompt'
Amount:Purchase	O	1	8	N	Purchase amount (with 2 place decimal – eg. 29.95)
Items:Points	Y	1	8	N	Item 1 Points value
Items:Units	Y	1	8	N	Item 1 Units value
Items: Price	Y	1	8	N	Item 1 Price/amount
Items:PromoID	Y	1	8	N	Item 1 Promotional ID
Items:Desc	O	1	40	AN	Item 1 Description

Items:Points2	O	1	8	N	Item 2 Points value
Items:Units2	O	1	8	N	Item 2 Units value
Items: Price2	O	1	8	N	Item 2 Price/amount
Items:PromoID2	O	1	8	N	Item 2 Promotional ID
Items:Desc2	O	1	40	AN	Item 2 Description
Items:Points3	O	1	8	N	Item 3 Points value
Items:Units3	O	1	8	N	Item 3 Units value
Items: Price3	O	1	8	N	Item 3 Price/amount
Items:PromoID3	O	1	8	N	Item 3 Promotional ID
Items:Desc3	O	1	40	AN	Item 3 Description
Items:Points4	O	1	8	N	Item 4 Points value
Items:Units4	O	1	8	N	Item 4 Units value
Items: Price4	O	1	8	N	Item 4 Price/amount
Items:PromoID4	O	1	8	N	Item 4 Promotional ID
Items:Desc4	O	1	40	AN	Item 4 Description
Items:Points5	O	1	8	N	Item 5 Points value
Items:Units5	O	1	8	N	Item 5 Units value
Items: Price5	O	1	8	N	Item 5 Price/amount
Items:PromoID5	O	1	8	N	Item 5 Promotional ID
Items:Desc5	O	1	40	AN	Item 5 Description
Items:Points6	O	1	8	N	Item 6 Points value
Items:Units6	O	1	8	N	Item 6 Units value
Items: Price6	O	1	8	N	Item 6 Price/amount
Items:PromoID6	O	1	8	N	Item 6 Promotional ID
Items:Desc6	O	1	40	AN	Item 6 Description
Items:Points7	O	1	8	N	Item 7 Points value
Items:Units7	O	1	8	N	Item 7 Units value
Items: Price7	O	1	8	N	Item 7 Price/amount
Items:PromoID7	O	1	8	N	Item 7 Promotional ID
Items:Desc7	O	1	40	AN	Item 7 Description
Items:Points8	O	1	8	N	Item 8 Points value
Items:Units8	O	1	8	N	Item 8 Units value
Items: Price8	O	1	8	N	Item 8 Price/amount
Items:PromoID8	O	1	8	N	Item 8 Promotional ID
Items:Desc8	O	1	40	AN	Item 8 Description
DemographicInfo: CustEmail	O	1	40	AN	Customer email address

DemographicInfo: CustName	O	1	40	AN	Customer name
DemographicInfo: CustPhone	O	7	10	N	Customer phone number
DemographicInfo: CustAddr1	O	1	40	AN	Customer address – line 1
DemographicInfo: CustAddr2	O	1	40	AN	Customer address – line 2
DemographicInfo: CustCity	O	1	40	AN	Customer city
DemographicInfo: CustState	O	2	2	AN	Customer state
DemographicInfo: CustZip	O	5	9	N	Customer zip code
DemographicInfo: CustLanguage	O	1	40	AN	Customer language
SequenceNo	O	1	20	AN	<b><i>For reversal support with selected processors</i></b> Use '00000000' for first transaction in new installations. For all subsequent transactions, use the SequenceNo value returned in the previous transaction response.

## 7.8 AddAlias Request

**Use:** This allows an account holder to add their phone number as an alias to a stored value account so that they may present their phone number to a merchant in place of a plastic card or other device. Multiple alias' may be established for an account.

**Note:** See GIFTePay Compatible Server table for supported processors.

**XML Template: AddAlias Request**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>LoyaltyAdmin</TranType>
    <TranCode>AddAlias</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <Account>
      <Track2>Track2</Track2>
      <AliasAcctNo>AliasAcctNo</AliasAcctNo>
    </Account>
  </Admin>
</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.
TranDeviceID	O	1	24	AN	If an IPTranLT is the device to receive the command, this tag must be included. The TranDeviceID (DID) value is printed on a sticker on the bottom of every IPTranLT.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	<b>For general use</b> 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. <b>For reversal support with selected processors</b> Use a unique POS workstation number (exactly 3 digits 000-999) for multi-workstation locations. See 1.3.7.
OperatorID	O	1	10	N	Operator (clerk, server, etc.) associated with the inquiry.

TranType	Y	1	40	A	'LoyaltyAdmin'
TranCode	Y	1	40	A	'AddAlias'
SecureDevice	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).
(Stripe) Account:Track2	Y	1	37	AN	ABA Track2 data with start and end sentinels removed. Use GetPrePaidStripe transacton to get stripe data as defined in dsiPDCX PrePaid Transactions XML Specification Supplement 6.
(Keyed) Account:AcctNo	Y	1	19	N	Keyed Account number
Account:AliasAcctNo	Y	1	20	N	The alias (phone number) to add

**Note:** If magnetic stripe track 2 (MSR) data is not available **or** if an existing alias is supplied as an alternative for an account number, substitute the hand keyed account number (or alias) in the Account tag as follows:

```
<Account>
  <AcctNo>AcctNo</AcctNo>
</Account>
```

## 7.9 AddAlias Response

**Note:** A successful AddAlias transaction will return <CmdStatus> = “Success”; any other response is a failure.

```
<?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>
</AddAlias>
  <MerchantID>MerchantID</MerchantID>
  <TerminalID>TerminalID</TerminalID>
  <OperatorID>OperatorID</OperatorID>
</AddAlias>
</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 provided in request.
OperatorID	Y	1	10	N	Operator (clerk, server, etc.) provided in request.

## 7.10 RemoveAlias Request

**Use:** This allows an account holder to remove an alias (phone number) associated with a stored value account. This is typically done because the account holder wants to change to a new phone number or because they want to associate the current phone number with a different stored value account.

**Note:** See GIFTePay Compatible Server table for supported processors.

**XML Template: RemoveAlias Request**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>LoyaltyAdmin</TranType>
    <TranCode>RemoveAlias</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <Account>
      <Track2>Track2</Track2>
      <AliasAcctNo>AliasAcctNo</AliasAcctNo>
    </Account>
  </Admin>
</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.
TranDeviceID	O	1	24	AN	If an IPTranLT is the device to receive the command, this tag must be included. The TranDeviceID (DID) value is printed on a sticker on the bottom of every IPTranLT.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	<b>For general use</b> 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. <b>For reversal support with selected processors</b> Use a unique POS workstation number (exactly 3 digits)

					000-999) for multi-workstation locations. See 1.3.7.
OperatorID	O	1	10	N	Operator (clerk, server, etc.) associated with the inquiry.
TranType	Y	1	40	A	'LoyaltyAdmin'
TranCode	Y	1	40	A	'RemoveAlias'
SecureDevice	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).
(Stripe) Account:Track2	Y	1	37	AN	ABA Track2 data with start and end sentinels removed. Use GetPrePaidStripe transacton to get stripe data as defined in dsiPDCX PrePaid Transactions XML Specification Supplement 6.
(Keyed) Account:AcctNo	Y	1	19	N	Keyed Account number
Account:AliasAcctNo	Y	1	20	N	The alias (phone number) to remove

**Note:** If magnetic stripe track 2 (MSR) data is not available, substitute the hand keyed account number in the Account tag as follows:

```

<Account>
  <AcctNo>AcctNo</AcctNo>
  <AliasAcctNo>AliasAcctNo</AliasAcctNo>
</Account>

```

## 7.11 RemoveAlias Response

**Note:** A successful RemoveAlias transaction will return <CmdStatus> = “Success”; any other response is a failure.

```
<?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>
</RemoveAlias>
  <MerchantID>MerchantID</MerchantID>
  <TerminalID>TerminalID</TerminalID>
  <OperatorID>OperatorID</OperatorID>
</RemoveAlias>
</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 provided in request.
OperatorID	O	1	10	N	Operator (clerk, server, etc.) provided in request.

## 7.12 NewAliasAcct Request

**Use:** This allows an account holder to add their phone number as an alias to a brand new stored value account. The new account does not have a plastic card associated with it. This is typically referred to as a “Cardless” account and can be used in cardless environments or by mobile applications where the mobile device serves as a virtual “card”. A new account number is created and the new account number and its associated PIN are returned in the response.

**Note:** See GIFTePay Compatible Server table for supported processors.

### XML Template: **NewAliasAcct Request**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>LoyaltyAdmin</TranType>
    <TranCode>NewAliasAcct</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <Account>
      <AliasAcctNo>AliasAcctNo</AliasAcctNo>
    </Account>
  </Admin>
</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.
TranDeviceID	O	1	24	AN	If an IPTranLT is the device to receive the command, this tag must be included. The TranDeviceID (DID) value is printed on a sticker on the bottom of every IPTranLT.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	<b>For general use</b> 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. <b>For reversal support with selected processors</b> Use a unique POS workstation number (exactly 3 digits)

					000-999) for multi-workstation locations. See 1.3.7.
OperatorID	O	1	10	N	Operator (clerk, server, etc.) associated with the inquiry.
TranType	Y	1	40	A	'LoyaltyAdmin'
TranCode	Y	1	40	A	'NewAliasAcct'
SecureDevice	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).
Account:AliasAcctNo	Y	1	20	N	The alias (phone number) to use for the new account

## 7.13 NewAliasAcct Response

**Note:** A successful NewAliasAcct transaction will return <CmdStatus> = "Success"; any other response is a failure.

```
<?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>
</NewAliasAcct>
<MerchantID>MerchantID</MerchantID>
<TerminalID>TerminalID</TerminalID>
<AcctNo>AcctNo</AcctNo>
<PIN>PIN</PIN>
<OperatorID>OperatorID</OperatorID>
</NewAliasAcct>
</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 provided in request.

AcctNo	Y	1	20	N	Primary account number for new account
PIN	Y	4	4	N	PIN number to be associated with new account
OperatorID	O	1	10	N	Operator (clerk, server, etc.) provided in request.

## 7.14 Transfer Request

**Use:** This allows an account holder to add their phone number as an alias to a brand new stored value account. The new account does not have a plastic card associated with it. This is typically referred to as a “Cardless” account and can be used in cardless environments or by mobile applications where the mobile device serves as a virtual “card”. A new account number is created and the new account number and its associated PIN are returned in the response. The ‘from’ account is no longer valid after the transfer.

**Note:** See GIFTePay Compatible Server table for supported processors.

**XML Template: Transfer Request**

```
<?xml version="1.0"?>
<TStream>
  <Admin>
    <IpAddress>999.999.999.999</IpAddress>
    <IpPort>99999</IpPort>
    <TranDeviceID>TranDeviceID</TranDeviceID>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
    <TranType>LoyaltyAdmin</TranType>
    <TranCode>Transfer</TranCode>
    <SecureDevice>ValidSecureDeviceID</SecureDevice>
    <ComPort>ComPort</ComPort>
    <Account>
      <FromTrack2>FromTrack2</FromTrack2>
      <ToTrack2>ToTrack2</ToTrack2>
    </Account>
  </Admin>
</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.
TranDeviceID	O	1	24	AN	If an IPTranLT is the device to receive the command, this tag must be included. The TranDeviceID (DID) value is printed on a sticker on the bottom of every IPTranLT.
MerchantID	Y	1	24	AN	Merchant identification assigned by processor.
TerminalID	O	1	24	AN	<b>For general use</b> 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. <b>For reversal support with selected processors</b> Use a unique POS workstation number (exactly 3 digits 000-999) for multi-workstation locations. See 1.3.7.
OperatorID	O	1	10	N	Operator (clerk, server, etc.) associated with the inquiry.
TranType	Y	1	40	A	'LoyaltyAdmin'
TranCode	Y	1	40	A	'Transfer'
SecureDevice	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).
(Stripe) Account:FromTrack2	Y	1	37	AN	The MSR Track 2 account number to use for the source account. ABA Track2 data with start and end sentinels removed. Use GetPrePaidStripe transacton to get stripe data as defined in dsiPDCX PrePaid Transactions XML Specification Supplement 6.
(Keyed) Account:FromAcctNo	Y	1	19	N	The manually keyed account number to use for the source account.
(Stripe) Account:ToTrack2	Y	1	37	AN	The MSR Track 2 account number to use for the target account. ABA Track2 data with start and end sentinels removed. Use GetPrePaidStripe transacton to get stripe data as defined in dsiPDCX PrePaid Transactions XML Specification Supplement 6.
(Keyed) Account:ToAcctNo	Y	1	19	N	The manually keyed account number to use for the target account.

**Note:** If magnetic stripe track 2 (MSR) data is not available, substitute the hand keyed account number(s) in the Account tag as follows:

```

<Account>
  <FromAcctNo>FromAcctNo</FromAcctNo>
  <ToAcctNo>ToAcctNo</ToAcctNo>
</Account>

```

## 7.16 Transfer Response

**Note:** A successful Transfer transaction will return <CmdStatus> = “Success”; any other response is a failure.

```
<?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>
  <Transfer>
    <MerchantID>MerchantID</MerchantID>
    <TerminalID>TerminalID</TerminalID>
    <OperatorID>OperatorID</OperatorID>
  </Transfer>
</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 provided in request.
OperatorID	O	1	10	N	Operator (clerk, server, etc.) provided in request.

## 7.17 Loyalty Transaction Responses

### Loyalty Response - Format 1

```

<?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>
    <CaptureStatus>CaptureStatus</CaptureStatus>
    <RefNo>RefNo</RefNo>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <OperatorID>OperatorID</OperatorID>
    <Format>1</Format>
    <Memo>Memo</Memo>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Authorize>Authorize</Authorize>
    </Amount>
    <LoyaltyExp>LoyaltyExp</LoyaltyExp>
    <Items>
      <PointsBalance>PointsBalance</PointsBalance>
      <UnitsBalance>UnitsBalance</UnitsBalance>
      <PriceBalance>PriceBalance</PriceBalance>
    </Items>
  </TranResponse>
</RStream>

```

Element	Type	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

					<p>“Declined” = transaction declined by payment processor  “Success” = command completed successfully  “Error” = error processing command. Check DSIXReturnCode and TextResponse for additional info on error</p>
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. Keep original AcctNo information used in Loyalty request.
ExpDate	Y	4	4	N	Expiration date as MMY
CardType	O	3	20	AN	“Loyalty”
TranCode	Y	1	40	A	<p>“Issue”  “Add”  “Subtract”  “VoidIssue”  “VoidAdd”  “VoidSubtract”  “Balance”</p>
AuthCode	O	1	16	AN	The authorization code returned by the processor for the approved Transaction.
RefNo	O	1	16	AN	A reference returned by the processor. If no InvoiceNo returned in response, retain original InvoiceNo. The RefNo should be retained as it is necessary for all Void transaction requests.
InvoiceNo	Y	1	16	AN	Use the InvoiceNo value supplied in the original request
OperatorID	O	1	10	N	Operator (clerk, server, etc.) associated with the Transaction.
Format	Y	1	3	N	“1”
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	Y	1	8	Purchase price (with 2 place decimal)
Amount:Authorize	O	Y	1	8	Authorized amount (with 2 place decimal)
LoyaltyExp	O	1	8	AN	Loyalty card expiration date OR Trace Number.
Items:PointsBalance	Y	1	8	N	Item 1 Points balance
Items:UnitsBalance	Y	1	8	N	Item 1 Units balance
Items:PriceBalance	Y	1	8	N	Item 1 Price/amount
Items:PriceBalance8	O	1	8	N	Item 8 Price/amount balance

## Loyalty Response - Format 2

```
<?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>
    <CaptureStatus>CaptureStatus</CaptureStatus>
    <RefNo>RefNo</RefNo>
    <InvoiceNo>InvoiceNo</InvoiceNo>
    <OperatorID>OperatorID</OperatorID>
    <Format>2</Format>
    <Memo>Memo</Memo>
    <Amount>
      <Purchase>Purchase</Purchase>
      <Authorize>Authorize</Authorize>
    </Amount>
    <LoyaltyExp>LoyaltyExp</LoyaltyExp>
    <Items>
      <PointsBalance>PointsBalance</PointsBalance>
      <UnitsBalance>UnitsBalance</UnitsBalance>
      <PriceBalance>PriceBalance</PriceBalance>
      <PointsBalance2>PointsBalance2</PointsBalance2>
      <UnitsBalance2>UnitsBalance2</UnitsBalance2>
      <PriceBalance2>PriceBalance2</PriceBalance2>
      <PointsBalance3>PointsBalance3</PointsBalance3>
      <UnitsBalance3>UnitsBalance3</UnitsBalance3>
      <PriceBalance3>PriceBalance3</PriceBalance3>
      <PointsBalance4>PointsBalance4</PointsBalance4>
      <UnitsBalance4>UnitsBalance4</UnitsBalance4>
      <PriceBalance4>PriceBalance4</PriceBalance4>
      <PointsBalance5>PointsBalance5</PointsBalance5>
      <UnitsBalance5>UnitsBalance5</UnitsBalance5>
      <PriceBalance5>PriceBalance5</PriceBalance5>
      <PointsBalance6>PointsBalance6</PointsBalance6>
      <UnitsBalance6>UnitsBalance6</UnitsBalance6>
      <PriceBalance6>PriceBalance6</PriceBalance6>
      <PointsBalance7>PointsBalance7</PointsBalance7>
      <UnitsBalance7>UnitsBalance7</UnitsBalance7>
      <PriceBalance7>PriceBalance7</PriceBalance7>
      <PointsBalance8>PointsBalance8</PointsBalance8>
      <UnitsBalance8>UnitsBalance8</UnitsBalance8>
      <PriceBalance8>PriceBalance8</PriceBalance8>
    </Items>
  </TranResponse>
</RStream>
```

```

</Items>
<TotalPointsBalance>TotalPointsBalance</TotalPointsBalance>
<TotalUnitsBalance>TotalUnitsBalance</TotalUnitsBalance>
<TotalPriceBalance>TotalPriceBalance</TotalPriceBalance>
<WriteReceipt>Receipt Print Data</WriteReceipt>
</TranResponse>
</RStream>

```

Element	Type	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. Keep original AcctNo information used in Loyalty request.
ExpDate	Y	4	4	N	Expiration date as MMY
CardType	O	3	20	AN	“Loyalty”
TranCode	Y	1	40	A	“Issue” “Add” “Subtract” “VoidIssue” “VoidAdd” “VoidSubtract” “Balance”
AuthCode	O	1	16	AN	The authorization code returned by the processor for the approved Transaction.

RefNo	O	1	16	AN	A reference returned by the processor. If no InvoiceNo returned in response, retain original InvoiceNo. The RefNo should be retained as it is necessary for all Void transaction requests.
InvoiceNo	Y	1	16	AN	Use the InvoiceNo value supplied in the original request
OperatorID	O	1	10	N	Operator (clerk, server, etc.) associated with the Transaction.
Format	Y	1	3	N	"2"
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)
LoyaltyExp	O	1	8	AN	Loyalty card expiration date OR Trace Number.
Items:PointsBalance	Y	1	8	N	Item 1 Points balance
Items:UnitsBalance	Y	1	8	N	Item 1 Units balance
Items:PriceBalance	Y	1	8	N	Item 1 Price/amount
Items:PointsBalance2	O	1	8	N	Item 2 Points balance
Items:UnitsBalance2	O	1	8	N	Item 2 Units balance
Items:PriceBalance2	O	1	8	N	Item 2 Price/amount balance
Items:PointsBalance3	O	1	8	N	Item 3 Points balance
Items:UnitsBalance3	O	1	8	N	Item 3 Units balance
Items:PriceBalance3	O	1	8	N	Item 3 Price/amount balance
Items:PointsBalance4	O	1	8	N	Item 4 Points balance
Items:UnitsBalance4	O	1	8	N	Item 4 Units balance
Items:PriceBalance4	O	1	8	N	Item 4 Price/amount balance
Items:PointsBalance5	O	1	8	N	Item 5 Points balance
Items:UnitsBalance5	O	1	8	N	Item 5 Units balance
Items:PriceBalance5	O	1	8	N	Item 5 Price/amount balance
Items:DescBalance5	O	1	40	AN	Item 5 Description
Items:PointsBalance6	O	1	8	N	Item 6 Points balance
Items:UnitsBalance6	O	1	8	N	Item 6 Units balance
Items:PriceBalance6	O	1	8	N	Item 6 Price/amount balance
Items:PointsBalance7	O	1	8	N	Item 7 Points balance
Items:UnitsBalance7	O	1	8	N	Item 7 Units balance
Items:PriceBalance7	O	1	8	N	Item 7 Price/amount balance
Items:PointsBalance8	O	1	8	N	Item 8 Points balance
Items:UnitsBalance8	O	1	8	N	Item 8 Units balance
Items:PriceBalance8	O	1	8	N	Item 8 Price/amount balance

## 7.18 dsiPDCX Compatible Servers

## 7.19 GIFTePay Compatible Servers

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

<i>Loyalty Transactions</i>	Chock stone GIFT	Concord EFS GIFT	EPI GIFT	Fifth Third GIFT	Givex GIFT	Nova GIFT	Paymen tech GIFT	MPS GIFT	Secure Pay GIFT	Sterling GIFT	SVS GCS GIFT	Value Link GIFT	Valu tec GIFT
Issue					X			X					
Add					X			X					
Subtract					X			X					
VoidIssue					X			X					
VoidAdd					X			X					
VoidSubtract					X			X					
Balance					X			X					