



## Quicken Web Connect Technical Details

### How it Works

During Quicken installation, Quicken registers itself as a helper application for OFX files that are downloaded by the customer's browser(s), thereby causing the browser to launch Quicken when the customer clicks the **Download to Quicken** button on their financial institution's web site.

Once the customer clicks the **Download to Quicken** button, the browser passes the customer's transaction data to their computer, placing the data into a temporary file in Quicken. Quicken then processes the data, stores it for future review, and exits. The next time the customer enters Quicken, a list of the new transactions will appear on the transaction tab of Quicken's Online Center. The "compare to Register" function can then be used to add the new items to the customer's Quicken register.

Quicken handles any account management required to store the data with the correct account by using account information contained within the statement data. Quicken will not only track which customer file should receive the data, but will create new Quicken accounts if necessary.



Web Connect requires access to the Intuit branding server over the Internet. If a financial Institution (FI) has a non-general Internet connection such as VPN (virtual private network), it must be configured to allow access to the branding server through the FI's secure connection. This would enable the customer to click on the **Download to Quicken** button on the FI's web site. The **Update/Send** button, used to access the FI's web site using the embedded browser within Quicken, may not be available in this case, as the user needs to initiate a special connection to get to the FI's web site. Customers can download their data by navigating to the FI's web site in an external web browser.

### Technical Specifications for Download

When the customer clicks the **Download to Quicken** button, your web server will respond by sending an OFX response containing the customer's transactions. Highlights of the detailed portions of the OFX specification that must be followed are included in the appendix to this document. Please refer to the full OFX specification for more detailed information on supported tags. You may view and download the latest versions of the specification at <http://www.ofx.net>.

In this section, the following general procedures are described:

1. The HTTP Header
2. The Sign-On Response
3. Statement Responses
  - a. Bank Statement Data
  - b. Credit Card Statement Data
  - c. Investment Statement Data

Please note that all relevant OFX aggregate names are included in parenthesis.

## 1. The HTTP Header

Your statement data response consists of an HTTP header, followed by an OFX aggregate. The HTTP header must include the content type value that identifies the data that follows as being OFX data as in the following example.



The content type must appear exactly as the following example:

Content-Type: application/vnd.intu.QFX

## 2. The Sign-on Response <SONRS>

Following the HTTP header in the response is the actual OFX response. The first aggregate to appear within this section should be the sign-on response message. This message indicates whether your server could successfully provide a statement response via the <STATUS> aggregate, and contains the identity of your institution in the <FI> aggregate. The <DTSERVER> tag indicates the time on the server that this response was generated. The example below is for a mythical institution named “My Bank.” Note that this name, along with the unique ID value issued to your institution by Intuit, must be returned in the <FI> aggregate. The enclosing aggregates are required by the OFX specification and may be copied verbatim from the following sign-on message set example:

```
<OFX>
  <SIGNONMSGSRV1>
    <SONRS>
      <STATUS>
        <CODE>0
        <SEVERITY>INFO
      </STATUS>
      <DTSERVER>19980315021529.000[-8:PST]
      <LANGUAGE>ENG
      <DTACCTUP>19900101000000
      <FI>
        <ORG>MY BANK
        <FID>01234
      </FI>
      <INTU.USERID>123456789
    </SONRS>
  </SIGNONMSGSRV1>
```



Please see appendix A for a detailed explanation of the sign-on message set.

### Additions to the Sign-on Response <SONRS>

SONRS is extended to support the Web Connect feature in Quicken.

A private tag <INTU.BID> has been added to the SIGNON response aggregates to allow an FI to specify their BID, which is an Intuit-issued brand identifier. Quicken uses this tag value to connect to the branding server.



The <INTU.BID> tag is not optional. It is required in all SONRS messages that are returned for Web Connect.

A second private tag, <INTU.USERID> specifies the user ID the FI requires for accounts that are accessible via direct connect in Quicken. This tag is important for financial institutions that support both the Direct Connect and Web Connect download methods, and enables Quicken to configure the user's Quicken account for both types of online services automatically.

Tag	Description
<INTU.BID>	Brand Identifier issued by Intuit. 0 or 1, N-5
<INTU.USERID>	User ID will be returned by a web-connect FI. 0 or 1, A-32

These tags, when included in a message, should follow the last tag included from the OFX specification.

### 3. Statement Responses

The actual statement data follows the sign-on response. Quicken includes support for the following statement response types:

- a. STMTRS - bank statement response
- b. CCSTMTRS - credit card statement response
- c. INVSTMTRS - investment statement response

You may include more than one account response type in a single response file.

#### a. Bank Statement Data

Bank statement data is returned in a statement response aggregate <STMTRS>. This aggregate includes the customer bank account information <BANKACCTFROM> aggregate, which identifies the routing number, account number, and account type of the account to which the transaction data applies. A bank transaction list <BANKTRANLIST> aggregate, which includes the starting and ending dates for the transaction data, follows, then zero or more occurrences of the <STMTRN> aggregate.

An <STMTRN> aggregate describes a single transaction. It identifies the type of the transaction and the date it was posted. The aggregate can also provide

additional information to help the customer recognize the transaction (check number, payee name, and memo). The transaction can have a Standard Industrial Code that a customer can use to categorize the transaction. Each <STMTTRN> contains a financial institution transaction identification <FITID> code, used by the customer to detect whether the transaction had previously been downloaded. Transaction amounts are signed from the perspective of the customer. For example, a credit card payment appears as a positive item while a credit card purchase appears as negative.

The following table, which has been excerpted from the OFX specification, describes in detail the format of the <STMTTRN> aggregate. Note that any tags that appear in bold in the table are required. For many applications these fields will be all that is required. For a more in-depth explanation of the other items, please use the section references in the table to locate the corresponding section of the OFX specification. The specification can be viewed and downloaded at <http://www.ofx.net>.

### Statement Transaction aggregate

Tag	Description
<STMTTRN>	Statement-transaction aggregate
<TRNTYPE>	Transaction type, see section 11.4..3.1.1 of the OFX spec for possible values
<DTPOSTED>	Date transaction was posted to account, <i>datetime</i>
<DTUSER>	Date customer initiated transaction, if known, <i>datetime</i>
<DTAVAIL>	Date funds are available, <i>datetime</i>
<TRNMT>	Amount of transaction
<FITID>	Transaction ID issued by financial institution. Used to detect duplicate downloads, <i>FITID</i> If
<CORRECTFITID>	present, the FITID of a previously sent transaction that is corrected by this record. This transaction replaces or deletes the transaction that it corrects., based on the value of <CORRECTACTION> below, <i>FITID</i>
<CORRECTACTION>	Actions can be REPLACE or DELETE. REPLACE replaces the transaction referenced by CORRECTFITID; DELETE deletes the action.
<SRVRTID>	Server assigned transaction ID; used for transactions initiated by the customer, such as payment or funds transfer. SRVRTID
<CHECKNUM>	Check (or other reference) number, A-12
<REFNUM>	Reference number that uniquely identifies the transaction. Can be used in addition to or instead of a <CHECKNUM>, A-32
<SIC>	Standard Industrial Code, N-6
<PAYEEID>	Payee identifier if available, A-12
<NAME>	Name of payee or description of transaction, A-32
	<b>Note:</b> Provide NAME <b>OR</b> PAYEE, not both.

Tag	Description
<b>Account-to options. Choose either &lt;BANKACCTTO&gt; or &lt;CCACCTTO&gt;.</b>	
<BANKACCTTO>	If this was a transfer to an account and the account information is available, see section 11.3.1.
</BANKACCTTO>	
-or	
<CCACCTTO>	
</CCACCTTO>	
<MEMO>	Extra information (not in <NAME>), A-255
<b>Currency options. Choose either &lt;CURRENCY&gt; or &lt;ORIGCURRENCY&gt;.</b>	
<CURRENCY>	Currency, if different from CURDEF
</CURRENCY>	
-or	
<ORIGCURRENCY>	
</ORIGCURRENCY>	
</STMTRN>	

#### Transaction types used in <TRNTYPE>

Type	Description
CREDIT	Generic credit
DEBIT	Generic debit
INT	Interest earned or paid <b>NOTE:</b> depends on signage of amount
DIV	Dividend
FEE	FI fee
SRVCHG	Service charge
DEP	Deposit
ATM	ATM debit or credit <b>NOTE:</b> depends on signage of amount
POS	Point of sale debit or credit <b>NOTE:</b> depends on signage of amount
XFER	Transfer
CHECK	Check
PAYMENT	Electronic payment
CASH	Cash withdrawal
DIRECTDEP	Direct deposit
DIRECTDEBIT	Merchant initiated debit
REPEATPMT	Repeating payment/standing order
OTHER	Other

## Banking Example

The following example illustrates the format of a simple but complete banking statement download containing three transactions.

```
OFXHEADER: 100
DATA: OFXSGML
VERSION: 102
SECURITY: NONE
ENCODING: USASCII
CHARSET: 1252
COMPRESSION: NONE
OLDFILEUID: NONE
NEWFILEUID: NONE

<OFX>
  <SIGNONMSGSRV1>
    <SONRS>
      <STATUS>
        <CODE>0
        <SEVERITY>INFO
      </STATUS>
      <DTSERVER>19980315021529.000[-8:PST]
      <LANGUAGE>ENG
      <DTACCTUP>19900101000000
      <FI>
        <ORG>MYBANK
        <FID>01234
      </FI>
      <INTU.BID>01234
      <INTU.USERID>123456789
    </SONRS>
  </SIGNONMSGSRV1>

  <BANKMSGSRV1>
    <STMTRNRS>
      <TRNUID>0
      <STATUS>
        <CODE>0
        <SEVERITY>INFO
      </STATUS>
      <STMTRS>
        <CURDEF>USD
        <BANKACCTFROM>
          <BANKID>987654321
          <ACCTID>098-121
          <ACCTTYPE>SAVINGS
        </BANKACCTFROM>
        <BANKTRANLIST>
          <DTSTART>19980315
          <DTEND>19980101
        </BANKTRANLIST>
      </STMTRS>
    </STMTRNRS>
  </BANKMSGSRV1>
</OFX>
```

```

        <TRNTYPE>CREDIT
        <DTPOSTED>19980315
        <DTUSER>19980315
        <TRNAMT>200.00
        <FITID>980315001
        <SIC>000000
        <NAME>DEPOSIT
        <MEMO>My Bank
    </STMTRN>

    <STMTRN>
        <TRNTYPE>CREDIT
        <DTPOSTED>19980310
        <DTUSER>19980310
        <TRNAMT>150.00
        <FITID>980310001
        <SIC>000000
        <NAME>TRANSFER
        <MEMO>My Bank
    </STMTRN>

    <STMTRN>
        <TRNTYPE>DEBIT
        <DTPOSTED>19980309
        <DTUSER>19980309
        <TRNAMT>-100.00
        <FITID>980309001
        <SIC>000000
        <NAME>ATM
        <MEMO>My Bank
    </STMTRN>

    </BANKTRANLIST>
    <LEDGERBAL>
        <BALAMT>5250.00
        <DTASOF>19980315021529.000[-8:PST]
    </LEDGERBAL>
    <AVAILBAL>
        <BALAMT>5250.00
        <DTASOF>19980315021529.000[-8:PST]
    </AVAILBAL>
</STMTRS>
</STMTRNRS>
</BANKMSGSRV1>
</OFX>

```

**b. Credit Card Statement Data**

Since credit cards are considered a separate message set in OFX, the credit card statement response differs slightly from the bank statement response. The differences are as follows:

- The <CREDITCARDMSGSRV1> aggregate replaces the <BANKMSGSRV1>.
- The <CCSTMTRNRS> aggregate replaces the <STMTRNRS>.
- The <CCSTMTRS> aggregate replaces the <STMTRS>.
- The <CCACCTFROM> aggregate replaces the <BANKACCTFROM>.

**Credit Card Example**

The following excerpt highlights the differences in a credit card web connect file.

\*\*\* OFX header and Sign on message set <SIGNONMSGSRV1> clipped \*\*\*

<CREDITCARDMSGSRV1>

<CCSTMTRNRS>

<TRNUID>0

<STATUS>

<CODE>0

<SEVERITY>INFO

</STATUS>

<CCSTMTRS>

<CURDEF>USD

<CCACCTFROM>

<ACCTID>1234567890123456

</CCACCTFROM>

<BANKTRANLIST>

<DTSTART>20050617170000

<DTEND>20050715170000

<STMTRN>

<TRNTYPE>PAYMENT

<DTPOSTED>20050618170000

<DTUSER>20050618170000

<TRNAMT>247.0

<FITID>ABBC325Q4B000915-247.0

<SIC>03001

<NAME>Payment Thank You

</STMTRN>

</BANKTRANLIST>

<LEDGERBAL>

<BALAMT>-1335.28

<DTASOF>20050715170000

</LEDGERBAL>

</CCSTMTRS>

</CCSTMTRNRS>

</CREDITCARDMSGSRV1>

</OFX>

### c. Investment Statement Data

Investment statement data is returned in a statement response aggregate (INVSTMTRS). This aggregate includes the (INVACCTFROM) aggregate, which identifies the broker and account number to which the transaction data applies. A <INVTRANLIST> aggregate follows, with the starting and ending dates for the transaction data, and then zero or more investment transactions and banking-related transactions <INVBANKTRAN>. The position list <INVPOSLIST> and balances <INVBAL> follow the transactions. The investment statement is followed by a list of the securities involved in the transactions <SECLIST>.

For a detailed review of the investment data supported for OFX, please refer to the OFX specification chapter 13. The specification can be viewed and downloaded at: <http://www.ofx.net>.

The following is an example of a statement response containing a few investment transactions.

```
<OFX>
  <SIGNONMSGSRV1>
  ...
  </SIGNONMSGSRV1>
  <INVSTMTMSGSRV1>
    <INVSTMTRNRS>
      <TRNUID>0
      <STATUS>
        <CODE>0
        <SEVERITY>INFO
      </STATUS>

      <INVSTMTRS>
        <DTASOF>19981203100000
        <CURDEF>USD
        <INVACCTFROM>
          <BROKERID>INV.COM
          <ACCTID>123456789
        </INVACCTFROM>

        <INVTRANLIST>
          <DTSTART>19981201000000
          <DTEND>19981206101745

          <INVBANKTRAN>
            <STMTRN>
              <TRNTYPE>DEBIT
              <DTPOSTED>19980215
              <DTAVAIL>19980215
```

<TRNAMT>-70.31  
<FITID>86818663199802152984  
<NAME>SEARS ROEBUCK 1488 SAN JOSE  
CA  
<MEMO>SEARS ROEBUCK 1488 SAN JOSE  
CA  
</STMTTRN>  
<SUBACCTFUND>CASH  
</INVBANKTRAN>

<BUYSTOCK>  
<INVBUY>  
<INVTRAN>  
<FITID>109509  
<DTTRADE>19981103  
<DTSETTLE>19981104  
</INVTRAN>  
<SECID>  
<UNIQUEID>100843408  
<UNIQUEIDTYPE>CUSIP  
</SECID>  
<UNITS>500  
<UNITPRICE>33.25  
<MARKUP>10  
<COMMISSION>75.25  
<FEES>13.25  
<TOTAL>-16763.50  
<SUBACCTSEC>CASH  
<SUBACCTFUND>CASH  
</INVBUY>  
<BUYTYPE>BUY  
</BUYSTOCK>

<REINVEST>  
<INVTRAN>  
<FITID>00798  
<SRVRTID>FI155  
<DTTRADE>19970401  
<DTSETTLE>19970404  
<MEMO>debt reinv - misc  
</INVTRAN>  
<SECID>  
<UNIQUEID>NYCMUNI12  
<UNIQUEIDTYPE>CUSIP  
</SECID>  
<INCOMETYPE>MISC  
<TOTAL>567.64  
<SUBACCTSEC>CASH  
<UNITS>1200  
<UNITPRICE>45.75  
<COMMISSION>10.25  
<TAXES>.25  
<FEES>.50  
<LOAD>7.64

```

        <TAXEXEMPT>Y
        <CURRENCY>
            <CURRATE>1
            <CURSYM>USD
        </CURRENCY>
        <ORIGCURRENCY>
        <CURRATE>1.0
        <CURSYM>USD
        </ORIGCURRENCY>
    </REINVEST>
</INVTRANLIST>

    <INVPOSLIST>
        <POSOTHER>
            <INVPOS>
                <SECID>
                    <UNIQUEID>018635102
                    <UNIQUEIDTYPE>CUSIP
                </SECID>
                <HELDINACCT>CASH
                <POSTYPE>LONG
                <UNITS>1796.15
                <UNITPRICE>1.0
                <MKTVAL>1796.15
                <DTPRICEASOF>19980106000000.000[-
                    :PST]
                <MEMO>INNOVEX  INC
            </INVPOS>
        </POSOTHER>
    </INVPOSLIST>

    <INVBAL>
        <AVAILCASH>9.0
        <MARGINBALANCE>25242.0
        <SHORTBALANCE>-15444.0
        <BALLIST>
            <BAL>
                <NAME>Money Fund Balance
                <DESC>Money Fund Balance
                <BALTYPE>NUMBER
                <VALUE>2147.15
                <DTASOF>19971031160000
            </BAL>
        </BALLIST>
    </INVBAL>
</INVSTMTRS>
</INVSTMTRNRS>
</INVSTMTMSGRSV1>

<SECLISTMSGRSV1>
    <SECLIST>
        <STOCKINFO>
            <SECINFO>

```

```

        <SECID>
            <UNIQUEID>100843408
            <UNIQUEIDTYPE>CUSIP
        </SECID>
        <SECNAME>BOSTON LIFE SCIENCES NEW
        <TICKER>BLSI
        <DTASOF>19981206
    </SECINFO>
    <STOCKTYPE>COMMON
    <YIELD>0.0000
</STOCKINFO>
<DEBTINFO>
    <SECINFO>
        <SECID>
            <UNIQUEID>NYCMUNI12
            <UNIQUEIDTYPE>CUSIP
        </SECID>
        <SECNAME>NYC Muni Bond
        <FIID>Debt1
        <RATING>AAA
    </SECINFO>
    <PARVALUE>30000

```

### Investments Example

The following example illustrates the format of a complete investment statement download containing a variety of transactions. The HTTP header used in this example can be copied verbatim.

```

<OFX>
  <SIGNONMSGSRV1>
    <SONRS>
      <STATUS>
        <CODE>0
        <SEVERITY>INFO
      </STATUS>
      <DTSERVER>19981206101123
      <LANGUAGE>ENG
      <DTPROFUP>19981206090745
      <DTACCTUP>19981206090745
      <FI>
        <ORG>ACME INV
        <FID>07308
      </FI>
      <INTU.BID>07308
      <INTU.USERID>555555555
    </SONRS>
  </SIGNONMSGSRV1>

  <INVSTMTMSGSRV1>
    <INVSTMTTRNRS>
      <TRNUID>0

```

```

<STATUS>
  <CODE>0
  <SEVERITY>INFO
</STATUS>
<INVSTMTRS>
  <DTASOF>19981203100000
  <CURDEF>USD
  <INVACCTFROM>
    <BROKERID>INV.COM
    <ACCTID>123456789
  </INVACCTFROM>

  <INVTRANLIST>
    <DTSTART>19981201000000
    <DTEND>19981206101745

    <INVBANKTRAN>
      <STMTRRN>
        <TRNTYPE>DEBIT
        <DTPOSTED>19980215
        <DTAVAIL>19980215
        <TRNAMT>-70.31
        <FITID>86818663199802152984
        <NAME>SEARS ROEBUCK 1488 SAN JOSE CA
        <MEMO>SEARS ROEBUCK 1488 SAN JOSECA
      </STMTRRN>
      <SUBACCTFUND>CASH
    </INVBANKTRAN>

    <INVBANKTRAN>
      <STMTRRN>
        <TRNTYPE>CHECK
        <DTPOSTED>19960826000000.000[-8:PST]
        <TRNAMT>-300.0
        <FITID>ofxtest1.26-Aug-96.XXXXXXX.B.1.0
        <CHECKNUM>24
        <NAME>MONEY MARKET CHECK CLEARED
        REDEM
        <MEMO>MONEY MARKET CHECK CLEARED
        REDEMPTION CHECK#24
      </STMTRRN>
      <SUBACCTFUND>CASH
    </INVBANKTRAN>

    <INVBANKTRAN>
      <STMTRRN>
        <TRNTYPE>INT
        <DTPOSTED>19980129
        <DTAVAIL>19980129
        <TRNAMT>26.24
        <FITID>19988663199801299833
        <NAME>ACME01 INT 12/30-01/28
        <MEMO>ACME01 INT 12/30-01/28
      </STMTRRN>

```

<SUBACCTFUND>CASH  
</INVBANKTRAN>

<INVBANKTRAN>  
<STMTRN>  
<TRNTYPE>CREDIT  
<DTPOSTED>19981101000000.000[-8:PST]  
<TRNAMT>3.12  
<FITID>quickofx.01-Nov-98.9C24659.B.2.0  
<NAME>Amount adjusted by \$-3.12 for tr  
<MEMO>Amount adjusted by \$-3.12 for transaction  
quickofx.01-Nov-98.9C24659.A.2.0.  
</STMTRN>  
<SUBACCTFUND>CASH  
</INVBANKTRAN>

<INVBANKTRAN>  
<STMTRN>  
<TRNTYPE>DEP  
<DTPOSTED>19981113000000.000[-8:PST]  
<TRNAMT>10000.0  
<FITID>quickofx.13-Nov-98.XXXXXXX.B.2.0  
<NAME>DEPOSIT CHECK RECEIVED 780  
<MEMO>DEPOSIT CHECK RECEIVED 780  
</STMTRN>  
<SUBACCTFUND>CASH  
</INVBANKTRAN>

<INVBANKTRAN>  
<STMTRN>  
<TRNTYPE>INT  
<DTPOSTED>19980228  
<DTAVAIL>19980228  
<TRNAMT>17.99  
<FITID>40043864199601308751  
<NAME>ACME01 INT 01/29-02/28  
<MEMO>ACME01 INT 01/29-02/28  
</STMTRN>  
<SUBACCTFUND>CASH  
</INVBANKTRAN>

<INVBANKTRAN>  
<STMTRN>  
<TRNTYPE>CHECK  
<DTPOSTED>19981021000000.000[-8:PST]  
<TRNAMT>-1200.0  
<FITID>quickofx.21-Oct-98.XXXXXXX.B.1.1  
<CHECKNUM>27  
<NAME>MONEY MARKET CHECK CLEARED  
REDEM  
<MEMO>MONEY MARKET CHECK CLEARED  
REDEMPTION CHECK#27  
</STMTRN>  
<SUBACCTFUND>CASH

</INVBANKTRAN>

<BUYSTOCK>

<INVBUY>

<INVTRAN>

<FITID>109509

<DTTRADE>19981103

<DTSETTLE>19981104

</INVTRAN>

<SECID>

<UNIQUEID>100843408

<UNIQUEIDTYPE>CUSIP

</SECID>

<UNITS>500

<UNITPRICE>33.25

<MARKUP>10

<COMMISSION>75.25

<FEES>13.25

<TOTAL>-16763.50

<SUBACCTSEC>CASH

<SUBACCTFUND>CASH

</INVBUY>

<BUYTYPE>BUY

</BUYSTOCK>

<SPLIT>

<INVTRAN>

<FITID>ofxtest1.20-Mar-96.S681006.A.2.0

<DTTRADE>19980320000000.000[-8:PST]

<DTSETTLE>19980325000000.000[-8:PST]

<MEMO>SUNDSTRAND CORP WITH RIGHTS TO  
PURCHASE COMMON STK UNDER CERTAIN  
CIRCUMSTANCE STK SPLIT ON 200 SHS

</INVTRAN>

<SECID>

<UNIQUEID>867323107

<UNIQUEIDTYPE>CUSIP

</SECID>

<SUBACCTSEC>MARGIN

<OLDUNITS>200.0

<NEWUNITS>400.0

<NUMERATOR>2

<DENOMINATOR>1

<SUBACCTFUND>MARGIN

</SPLIT>

<INVEXPENSE>

<INVTRAN>

<FITID>00792

<SRVRTID>FI13

<DTTRADE>19980316

<DTSETTLE>19980321

<MEMO>Debt investment expense

```

</INVTRAN>
<SECID>
  <UNIQUEID>NYCMUNI12
  <UNIQUEIDTYPE>CUSIP
</SECID>
<TOTAL>61.08
<SUBACCTSEC>CASH
<SUBACCTFUND>CASH
<CURRENCY>
  <CURRATE>1
  <CURSYM>USD
</CURRENCY>
<ORIGCURRENCY>
  <CURRATE>1
  <CURSYM>USD
</ORIGCURRENCY>
</INVEXPENSE>

<INCOME>
  <INVTRAN>
    <FITID>quickofx.02-Jan-98.A531909.C.2.0
    <DTTRADE>19960102000000.000[-8:PST]
    <MEMO>AMSOUTH BANCORPORATION CASH DIV
    ON 1000 SHS REC 12/08/97 PAY 01/02/98
  </INVTRAN>
  <SECID>
    <UNIQUEID>032165102
    <UNIQUEIDTYPE>CUSIP
  </SECID>
  <INCOMETYPE>DIV
  <TOTAL>400.0
  <SUBACCTSEC>MARGIN
  <SUBACCTFUND>MARGIN
</INCOME>

<MARGININTEREST>
  <INVTRAN>
    <FITID>quickofx.20-Dec-95.XXXXXXX.E.2.0
    <DTTRADE>19951228000000.000[-8:PST]
    <MEMO>INT FR 11/26 THRU12/25@ 8 3/4% BAL
    31,680 AVBAL 28,341
  </INVTRAN>
  <TOTAL>-186.0
  <SUBACCTFUND>MARGIN
</MARGININTEREST>

<CLOSUREOPT>
  <INVTRAN>
    <FITID>quickofx.19-Dec-96.8591567.B.2.0
    <DTTRADE>19951219000000.000[-8:PST]
    <MEMO>CALL AMSOUTH BANC DEC 040 *** * EXP
    12/16/1996
  </INVTRAN>
  <SECID>

```

```

        <UNIQUEID>8591567
        <UNIQUEIDTYPE>CUSIP
    </SECID>
    <OPTACTION>EXPIRE
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12/16/1997

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## QuickBooks Web Connect Technical Details

Differences between Quicken and QuickBooks

	Quicken	QuickBooks
<b>Content Type</b>	application/vnd.intuit.QFX	application/vnd.intu.QBO
<b>File Extension</b>	.QFX	.QBO
<b>Download info on FI Web Site</b>	Download to Quicken button <a href="http://fi.intuit.com/ofximplementation/quicken_button.cfm">http://fi.intuit.com/ofximplementation/quicken_button.cfm</a>	Download to QuickBooks button <a href="http://fi.intuit.com/ofximplementation/qb_button.cfm">http://fi.intuit.com/ofximplementation/qb_button.cfm</a>

- QuickBooks does not allow Direct Connect AND Web Connect to be active within the same presence/identity. If a FI wants to support both download methods, the FI will need to have two separate presences set up in Intuit's Branding Server.
- If the FI will be supporting Direct Connect and Web Connect (in two separate presences), the FI will need to ensure the financial institution transaction ID (FITID) algorithm and transaction data between both download methods are exactly the same. Otherwise, end user will get duplication transactions. This is applicable for both Quicken and QuickBooks.