THE FEDERAL RESERVE
Financial Services

FedCash® Services Application via the FedLine Web® Solution File-Based Ordering Specifications

June 2025

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Overview

This document provides the technical file specifications for the FedCash Services File Upload feature available via FedLine Web, which is offered to customers of the Federal Reserve System. This feature can be used to submit orders and deposit notifications via an electronic file that is formatted in Extensible Markup Language (XML).

To use the file upload feature, you must first develop the interface file described in this document and Federal Reserve must test it. We can then activate the feature to allow your institution's FedLine® operators to submit transaction files.

The operator instructions for submitting file-based transactions are provided in the *FedCash Services via the FedLine Web Solution User Guide*, which is available to FedLine Web users via the application homepage. The process involves logging on to the FedCash Services application, selecting the "File Upload" option, selecting the file from a directory and submitting it. You will see an acknowledgement of the transmission and can view summary and detail reports of accepted and rejected entries. Rejected entries must be corrected and resubmitted manually or via another transaction file.

This document contains issues to consider in advance, a description of file elements, a data type definition template, sample files, validity edits used for currency quantities, contact information and frequently asked questions.

NOTE: Effective September 1, 2017, Federal Reserve Banks have removed the "Carrier ID" file element from the technical file specifications for the FedCash Services file upload feature. Ensure that the interface file that your organization created to use with the file upload feature has been updated to remove the "Carrier ID" file element. For questions, contact your servicing Reserve Bank.

Issues to Consider in Advance

Risks and Controls: File-based ordering increases the risks associated with operator error. A single incorrect submission requires the Federal Reserve offices that received the transactions to manually reverse each entry, as an operator correction facility is not currently available. Therefore, we expect financial institutions to implement control measures that strictly limit the risk of file submission errors.

Scheduling: For this version of the file upload specification, shipment dates must be specified. Like manual order entries in the FedLine Web Solution, file-based cash orders must be scheduled for pickup within five business days of placing the order. The order deadline for all Federal Reserve offices is 12:00 PM (noon) local time. Orders placed after 12:00 PM for shipment on the next business day will be rejected.

File Upload Processing During Normal Operations

XML File Element Definition

Headers:

- <?xml version="1.0" encoding="UTF-8"?>
  - Defines the type of document (in this case, XML)

- <!DOCTYPE CashServices SYSTEM “CashServices.dtd”>
  - Identifies the location of the data type definition

Element Name	Required	Size	Occurrences (within group)
CashServices			
CashOrder			0 to 100
BranchAba	Y	9	1
BranchNbr	Y	4	1
FrbOffice	Y	9	1
ShipDate	Y	10	1
OrderTotal	N	1 -10	0 or 1
CurcyOrderFit	N#		0 or 1
CurcyOrder1	N	1 - 9	0 or 1
CurcyOrder2	N	1 - 9	0 or 1
CurcyOrder5	N	1 - 9	0 or 1
CurcyOrder10	N	1 - 9	0 or 1
CurcyOrder20	N	1 - 9	0 or 1
CurcyOrder50	N	1 – 9	0 or 1
CurcyOrder100	N	1 – 9	0 or 1
CoinOrderBag	N#		0 or 1
CoinOrder1	N	1 – 9	0 or 1
CoinOrder5	N	1 – 9	0 or 1
CoinOrder10	N	1 – 9	0 or 1
CoinOrder25	N	1 – 9	0 or 1
CoinOrder50	N	1 – 9	0 or 1
CoinOrderDollar	N	1 – 9	0 or 1
CashDeposit			0 to 100
BranchAba	Y	9	1
BranchNbr	Y	4	1
FrbOffice	Y	9	1
DepositTotal	N	1 – 10	0 or 1

CurcyDeposit	N#		0 or 1
CurcyDep1	N	9	0 or 1
CurcyDep2	N	9	0 or 1
CurcyDep5	N	9	0 or 1
CurcyDep10	N	9	0 or 1
CurcyDep20	N	9	0 or 1
CurcyDep50	N	9	0 or 1
CurcyDep100	N	9	0 or 1
CurcyBagCount	Y*	1 - 5	1
CurcyTicketNbr	N	1 - 20	0 or 1
CoinDeposit	N#		0 or 1
CoinDep1	N	1 - 9	0 or 1
CoinDep5	N	1 - 9	0 or 1
CoinDep10	N	1 - 9	0 or 1
CoinDep25	N	1 - 9	0 or 1
CoinDep50	N	1 - 9	0 or 1
CoinDepIke	N	1 - 9	0 or 1
CoinDepDollar	N	1 - 9	0 or 1
CoinBagCount	Y*	1 - 5	1
CoinTicketNbr	N	1 - 20	0 or 1

Table Key:

- Elements in bold are group elements
- Dollar amounts are in whole numbers (no decimals)
- # - One of these elements must be present
- *- Required when denomination amount is present
- Deposit Notification portions of the file are required only if:
  - Required by the local Federal Reserve Bank office
  - Your institution chooses to notify the Federal Reserve Bank office of a pending deposit via file upload
- ShipDate format: MM/DD/YYYY (e.g., 10/20/2009)

- Federal Reserve Bank office codes are:
    - Atlanta: 061000146
    - Baltimore: 052000278
    - Boston: 011000015
    - Charlotte: 053000206
    - Chicago: 071000301
    - Cincinnati: 042000437
    - Cleveland: 041000014
    - Dallas: 111000038
    - Denver: 102000199
    - Detroit: 072000290
    - El Paso: 112000011
    - Helena: 092000267
    - Houston: 113000049
    - Jacksonville: 063000199
    - Kansas City: 101000048
    - Los Angeles: 122000166
    - Memphis: 084000039
    - Miami: 066000109
    - Minneapolis: 091000080
    - Nashville: 064000101
    - New Orleans: 065000210
    - New York: 021001208
    - Philadelphia: 031000040
    - Phoenix: 122150029
    - Richmond: 051000033
    - Salt Lake City: 124000313
    - San Antonio: 114000721
    - San Francisco: 121000374
    - Seattle: 125000011
    - St. Louis: 081000045

Data Type Definition (DTD)

```
<?xml version="1.0" encoding="UTF-8"?>
<!ELEMENT BranchAba (#PCDATA)>
<!ELEMENT BranchNbr (#PCDATA)>
<!ELEMENT ShipDate (#PCDATA)>
<!ELEMENT CashDeposit (BranchAba, BranchNbr,
FrbOffice, DepositTotal?, CurcyDeposit?,
CoinDeposit?)>
<!ELEMENT CashOrder (BranchAba, BranchNbr, FrbOffice,
CarrierId?, ShipDate, OrderTotal?, CurcyOrderFit?,
CoinOrderBag?)>
<!ELEMENT CashServices (CashOrder*, CashDeposit*)>
<!ELEMENT CoinBagCount (#PCDATA)>
<!ELEMENT CoinDep1 (#PCDATA)>
<!ELEMENT CoinDep10 (#PCDATA)>
<!ELEMENT CoinDep25 (#PCDATA)>
<!ELEMENT CoinDep5 (#PCDATA)>
<!ELEMENT CoinDep50 (#PCDATA)>
<!ELEMENT CoinDepDollar (#PCDATA)>
<!ELEMENT CoinDepIke (#PCDATA)>
<!ELEMENT CoinDeposit (CoinDep1?, CoinDep5?,
CoinDep10?, CoinDep25?, CoinDep50?, CoinDepIke?,
CoinDepDollar?, CoinBagCount, CoinTicketNbr?)>
<!ELEMENT CoinOrder1 (#PCDATA)>
<!ELEMENT CoinOrder10 (#PCDATA)>
<!ELEMENT CoinOrder25 (#PCDATA)>
<!ELEMENT CoinOrder5 (#PCDATA)>
<!ELEMENT CoinOrder50 (#PCDATA)>
<!ELEMENT CoinOrderBag (CoinOrder1?, CoinOrder5?,
CoinOrder10?, CoinOrder25?, CoinOrder50?,
CoinOrderDollar?)>
<!ELEMENT CoinOrderDollar (#PCDATA)>
<!ELEMENT CoinTicketNbr (#PCDATA)>
<!ELEMENT CurcyBagCount (#PCDATA)>
<!ELEMENT CurcyDep1 (#PCDATA)>
<!ELEMENT CurcyDep10 (#PCDATA)>
<!ELEMENT CurcyDep100 (#PCDATA)>
<!ELEMENT CurcyDep2 (#PCDATA)>
<!ELEMENT CurcyDep20 (#PCDATA)>
<!ELEMENT CurcyDep5 (#PCDATA)>
<!ELEMENT CurcyDep50 (#PCDATA)>
<!ELEMENT CurcyDeposit (CurcyDep1?, CurcyDep2?,
CurcyDep5?, CurcyDep10?, CurcyDep20?, CurcyDep50?,
CurcyDep100?, CurcyBagCount, CurcyTicketNbr?)>
<!ELEMENT CurcyOrder1 (#PCDATA)>
<!ELEMENT CurcyOrder10 (#PCDATA)>
```

```
<!ELEMENT CurcyOrder100 (#PCDATA)>
<!ELEMENT CurcyOrder2 (#PCDATA)>
<!ELEMENT CurcyOrder20 (#PCDATA)>
<!ELEMENT CurcyOrder5 (#PCDATA)>
<!ELEMENT CurcyOrder50 (#PCDATA)>
<!ELEMENT CurcyOrderFit (CurcyOrder1?, CurcyOrder2?,
CurcyOrder5?, CurcyOrder10?, CurcyOrder20?,
CurcyOrder50?, CurcyOrder100?)>
<!ELEMENT CurcyTicketNbr (#PCDATA)>
<!ELEMENT DepositTotal (#PCDATA)>
<!ELEMENT FrbOffice (#PCDATA)>
<!ELEMENT OrderTotal (#PCDATA)>
```

Sample File #1

The sample file is for an order with fit currency coin and a deposit for currency and coin.


```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE CashServices SYSTEM "CashServices.dtd">
<CashServices>
     <CashOrder>
          <BranchAba>121111111</BranchAba>
          <BranchNbr>0001</BranchNbr>
          <FrbOffice>121000374</FrbOffice><ShipDate>10/20/200
          9</ShipDate
          >
          <OrderTotal>301000</OrderTotal>
          <CurcyOrderFit>
               <CurcyOrder1>10000</CurcyOrder1>
               <CurcyOrder2>20000</CurcyOrder2>
               <CurcyOrder5>50000</CurcyOrder5>
               <CurcyOrder10>10000</CurcyOrder10>
               <CurcyOrder20>20000</CurcyOrder20>
               <CurcyOrder50>50000</CurcyOrder50>
               <CurcyOrder100>100000</CurcyOrder100>
          </CurcyOrderFit>
          <CoinOrderBag>
               <CoinOrder1>1000</CoinOrder1>
               <CoinOrder5>5000</CoinOrder5>
               <CoinOrder10>6000</CoinOrder10>
               <CoinOrder25>4000</CoinOrder25>
               <CoinOrder50>5000</CoinOrder50>
               <CoinOrderDollar>20000</CoinOrderDollar>
          </CoinOrderBag>
     </CashOrder>
     <CashDeposit>
          <BranchAba>121111111</BranchAba>
          <BranchNbr>0001</BranchNbr>
          <FrbOffice>121000374</FrbOffice>
          <DepositTotal>203400</DepositTotal>
          <CurcyDeposit>
               <CurcyDep1>1000</CurcyDep1>
               <CurcyDep2>2000</CurcyDep2>
               <CurcyDep5>5000</CurcyDep5>
               <CurcyDep10>10000</CurcyDep10>
               <CurcyDep20>20000</CurcyDep20>
               <CurcyDep50>50000</CurcyDep50>
               <CurcyDep100>100000</CurcyDep100>
               <CurcyBagCount>10</CurcyBagCount>
```

```xml
                <CurcyTicketNbr>A123</CurcyTicketNbr>
            </CurcyDeposit>
            <CoinDeposit>
                <CoinDep1>1000</CoinDep1>
                <CoinDep5>400</CoinDep5>
                <CoinDep10>1000</CoinDep10>
                <CoinDep25>2000</CoinDep25>
                <CoinDep50>5000</CoinDep50>
                <CoinDepIke>2000</CoinDepIke>
                <CoinDepDollar>4000</CoinDepDollar>
                <CoinBagCount>5</CoinBagCount>
                <CoinTicketNbr>B123</CoinTicketNbr>
            </CoinDeposit>
        </CashDeposit>
</CashServices>
```

Sample File #2

This sample file is for one currency order and one coin order.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE CashServices SYSTEM "CashServices.dtd">
<CashServices>
        <CashOrder>
            <BranchAba>121999999</BranchAba>
            <BranchNbr>0001</BranchNbr>
            <FrbOffice>041000014</FrbOffice>
            <ShipDate>10/20/2009</ShipDate>
            <CurcyOrderFit>
                <CurcyOrder1>1000</CurcyOrder1>
            </CurcyOrderFit>
            <CoinOrderBag>
                <CoinOrder10>2000</CoinOrder10>
            </CoinOrderBag>
        </CashOrder>
</CashServices>
```

Validity Edits for Currency Quantities

Currency order and deposit amounts are edited to ensure they meet the minimum increments required (show in the table below) according to Cash Services Operating Circular 2.

Denomination	Minimum Increments
1	$1,000
2	$2,000
5	$5,000
10	$10,000
20	$20,000
50	$5,000
100	$10,000

Order and deposit notifications will be rejected if they do not conform to this requirement.

Contacts

Implementation Support

For information about implementing and testing file upload functionality, contact your local Federal Reserve Cash representative.

Ongoing Technical Support

Once the file upload feature is implemented, contact Federal Reserve Bank Services Support Center to assist with application problems such as:

- Accessing the application
- Application troubleshooting
- Questions about using application features

Cash Transaction Support

Contact your Federal Reserve Bank Cash representative for assistance with cash transactions and procedures, such as:

- Correcting an order that was submitted in error
- Resolving problems with cash transactions
- Determining local order and deposit procedures

Frequently Asked Questions

1. **What is the file upload feature?**
   You can use the file upload feature to submit cash orders and deposit notifications via an electronic file that is formatted in XML. It can be an efficient alternative to manual entries into the FedLine Web Solution, particularly if your institution has many endpoints, and a convenient way to generate the transaction file.

2. **What is involved in setup?**
   To use the file upload feature, your institution's technicians must first develop and test the interface file described in this file specification document. Development and testing process timeframes will vary from institution to institution.

3. **Is there a special format for the file?**
   Yes, file upload uses the XML file format as described in this guide.

4. **How is the file transmitted?**
   Your institution must:

   - Log on to FedCash Services via the FedLine Web Solution
   - Select the "File Upload" option
   - Select and submit the file
   - View the acknowledgement and transaction reports
   - Manually enter any rejected entries (or submit another file with corrected entries)

5. **Are there any limitations?**
   Cash orders must be scheduled for pickup within five business days following order placement. Orders placed after the local ordering deadline for shipment for the next business day will be rejected. The maximum file length is two megabytes. The file is limited to a total of 100 combined deposits and orders per upload.

6. **With whom do we work on testing and training?**
   Once your institution has decided to develop the interface file, contact your local Federal Reserve Cash representative, who will arrange testing in consultation with the FedCash Technical Support group.

7. **Will I be required to submit a modified EUAC/Subscriber form to enroll in the file upload option?**
   No individual role changes are required to your institution's access credentials. However, you must already have access to the FedCash Services via the FedLine Web Solution application with access to submit manual transactions. Once testing is complete, the FedCash Technical Support group will set a parameter in the FedLine Web Solution that will grant access to the feature at the RTN level.

8. **What happens if a portion of the XML file is incorrect? Does the system reject the entire file or only the invalid portions?**
   This varies based on the type of error. The "File Uploading" page does provide error messages to indicate which portion of the file may have an error. If you have questions about failures, contact the Support Center at 833-377-7827 for assistance.

9. **Can we use the same file name for each file upload?**
   While you can use the same file name multiple times, you will receive a warning indicating that you are about to upload a file with the same name as an earlier file. Acknowledging this message and attempting to upload again will permit a file with a previously used name to be uploaded. As a best practice, we recommend changing your file name each time to reflect the date and time of the file upload.

10. **Can I directly transmit the file to FedCash Services via the FedLine Web Solution?**
    Direct transmission functionality does not exist. The file must be uploaded while logged on to FedCash Services via the FedLine Web Solution.

11. **Once I begin using the file upload feature, is that my only option?**
    File-based ordering is an additional option you may choose, but you will still have the option to place orders or perform deposit notifications on an individual basis with FedCash Services via the FedLine Web Solution.

12. **How do order parameters impact orders through file upload?**
Order parameters allow your institutions' administrator to set limits on manual orders submitted by staff through the FedLine Web Solution. Orders placed via the file upload process are not subject to order parameters.

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