

TPRX Series

XML File Format Specification

Federal Reserve System

STATISTICS FUNCTION

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General Information

The Federal Reserve System's Reporting Central application provides the ability for reporting entities to submit their reports electronically through the use of an XML file. This document provides the required file format for creating the XML file for the TPRX (Tri Party Repo) reports.

How the XML File Is Structured

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<financialDataFile>
  <fileDescription>
    <createDate>20140915</createDate>
    <createTime>165241</createTime>
    <dataTypeIndicator>Test</dataTypeIndicator>
    <requestType>Scheduler</requestType>
    <receivingSite>New York</receivingSite>
    <seriesName>TPRX</seriesName>
    <reportingForm>TPRX</reportingForm>
  </fileDescription>
  <asofDate date="20140513">
    <financialData>
      <reportingEntity>
        <reportingEntityIdentifier>0001039502</reportingEntityIdentifier>
        <transferType>Initial</transferType>
        <sendingSiteReportKey>STAR Internal Key</sendingSiteReportKey>
        <processingDistrict>2</processingDistrict>
        <confidentiality status="1">None</confidentiality>
        <estimation>None</estimation>
      </reportingEntity>
      <itemGroup ref="Domain">
      </itemGroup>
      <itemGroup ref="Domain">
      </itemGroup>
    </financialData>
  </asofDate>
</financialDataFile>
```

Figure 1

The Financial Data File section is a wrapper to encapsulate all of the data in the file.

The File Description section defines the file header information and specifies the name of the report being submitted, and the file's creation date and time.

The Asof Date section encapsulates the financial data for the reporting entity. The file must only contain report data for a single asof date.

The Financial Data section is a wrapper to encapsulate the financial data for the reporting entity and asof date.

The Reporting Entity section contains the reported values for the items appearing on the report. The value for each report item is contained in a <reportItem> tag. An <itemGroup> tag is used to group a collection of related report items.

Item Groups are defined using the following structure. The first <reportItem> in an <itemGroup> identifies the unique key for the <itemGroup>. The key to the <itemGroup> is indicated by the <reportItem key="yes"> tag. The subsequent <reportItem> tags identify the report items, and their values, that comprise the <itemGroup>.

XML Tag	Meaning/How Used
<financialDataFile>	A tag used to encapsulate all of the data in the file
<fileDescription>	A tag used to encapsulate header information about the file
<createDate>	The date that the file was created by reporting entity. The date is 8 digits and is formatted as YYYYMMDD
<createTime>	The time that the file was created by the reporting entity. The time is 6 digits and is formatted as HHMMSS
<dataTypeIndicator>	This tag is used internally by the FRB. Its value is always set to "Production" (without the quotes)
<requestType>	This tag is used internally by the FRB. Its value is always set to "Scheduler" (without the quotes)
<receivingSite>	This tag is used internally by the FRB. Its value is always set to "New York" (without the quotes)
<seriesName>	This tag is used internally by the FRB. Its value is always set to "TPRX" (without the quotes)
<reportingForm>	This tag is always set to "TPRX" (without the quotes), the name of the reporting form for the data submitted in this file
<asofDate>	The asof date for the financial data. The asof date is 8 digits and is formatted as YYYYMMDD. The file cannot contain more than one <asofDate>
<financialData>	A tag to encapsulate all of the financial data for the <asofDate>
<reportingEntity>	A tag to encapsulate the financial data for the <reportingEntityIdentifier>
<reportingEntityIdentifier>	The <reportingEntity>'s RSSD number. The RSSD number is 10 digits; however, leading zeroes can be suppressed. The RSSD number must be entered in this tag and not in a <reportItem> tag
<transferType>	This tag is used internally by the FRB. Its value is always set to "Initial" (without the quotes)
<sendingSiteReportKey>	This tag is used internally by the FRB. Its value is always set to "STAR Internal Key" (without the quotes)
<processingDistrict>	Its value is always set to "02" (without the quotes), the district number for the Federal Reserve Bank of New York
<confidentiality status="1">	This tag is used to indicate whether the reporting entity has requested that the FRB keep its report data confidential. It must be set as follows. <confidentiality status="1">None</confidentiality>

XML Tag	Meaning/How Used
<estimation>	This tag is used to indicate whether the report data is estimated. TPRX report data cannot be estimated. Its value is always set to "None" (capital N without the quotes)
<reportItem>	A tag to encapsulate a report item
<reportItem key="yes">	This tag is only used with the <itemGroup ref="xxx"> tag and is always the first tag within the <itemGroup ref="xxx"> tag. The "key="yes"" attribute indicates that the value for this <reportItem> is the key for each of the <reportItem>s in the item group
<rs_id type="mdrm">	The <rs_id type="mdrm"> is an attribute that is used internally by the FRB. The tag is a constant that does not change. Its value is the line identifier for the report item
<itemName>	A text description of the mdrm specified by <rs_id>. This tag is optional and is generally not used in order to minimize the overall number of characters in the file
<itemValue>	The reported data value for a <reportItem>
<itemGroup ref="xxx">	The <itemGroup ref="xxx"> tag encapsulates a logical grouping of related items. An item group can be thought of as a single row in a database table. The <reportItem>s within the <itemGroup ref="xxx"> tag can be thought of as the columns in that database row. The "ref" attribute provides additional context as to what the item group represents.

XML File Structure Details

The XML file structure (Fig. 1) consists of 6 major parts.

!!!! General rule for the tags – must be the same as presented in the figures provided. Only the actual content (value) of the tag may change.

1. Root tag is - <financialDataFile> . All data are reported within this tag.
2. Header information. This is the information on file level. Only one header per file.

```

- <fileDescription>
  <createDate>20140915</createDate>
  <createTime>165241</createTime>
  <dataTypeIndicator>Test</dataTypeIndicator>
  <requestType>Scheduler</requestType>
  <receivingSite>New York</receivingSite>
  <seriesName>TPRX</seriesName>
  <reportingForm>TPRX</reportingForm>
</fileDescription>

```

Figure 2.

- The createDate tag is in YYYYMMDD format.
- The createTime tag is in HHMMSS format (military time).

- The dataTypeIndicator tag is PROD.

All the rest of the tags should be hardcoded as represented Figure2.

- `<asofDate date="20140513">` All financial data are reported within asofDate tag.
-asofDate is date which the financial data is reported for. Only one asofDate is allowed in the file. Tag has YYYYMMDD format.
- The next tag contains the reporter information.

```
- <reportingEntity>  
  <reportingEntityIdentifier>0001039502</reportingEntityIdentifier>  
  <transferType>Initial</transferType>  
  <sendingSiteReportKey>STAR Internal Key</sendingSiteReportKey>  
  <processingDistrict>2</processingDistrict>  
  <confidentiality status="1">None</confidentiality>  
  <estimation>None</estimation>
```

Figure 3. The reportingEntityIdentifier tag contains the reporting institution RSSD.

ProcessingDistrict is the district number district number for the Federal Reserve Bank of New York (02).

All the rest of the tags should be hardcoded as represented in Figure 3.

- Domain – each domain represents one reported transaction (unique set of financial data). There are two domains in the file shown in Figure 1.

```
+ <itemGroup ref="Domain">  
+ <itemGroup ref="Domain">
```

Figure 4.

- The content of each domain is shown in Figure 5.

!!!!General rule for the financial data tags – must be the same as presented on the pictures. Only the actual content of the <itemValue> tag may change.

All the rest of the tags should be hardcoded as represented in Figure 5.

```
- <itemGroup ref="Domain">
  - <reportItem key="yes">
    <rs_id type="mdrm">TPRXN186</rs_id>
    <itemName>Sequence Number</itemName>
    <itemValue>1</itemValue>
  </reportItem>
  - <reportItem>
    <rs_id type="mdrm">TPRXM892</rs_id>
    <itemName>Data Source</itemName>
    <itemValue>1</itemValue>
  </reportItem>
  - <reportItem>
    <rs_id type="mdrm">TPRXM893</rs_id>
    <itemName>Dealer Name</itemName>
    <itemValue>CLAR</itemValue>
  </reportItem>
  - <reportItem>
    <rs_id type="mdrm">TPRXM894</rs_id>
    <itemName>Repo ID</itemName>
    <itemValue>2341</itemValue>
  </reportItem>
  - <reportItem>
    <rs_id type="mdrm">TPRXM895</rs_id>
    <itemName>Component</itemName>
    <itemValue>5</itemValue>
  </reportItem>
  - <reportItem>
    <rs_id type="mdrm">TPRXM896</rs_id>
    <itemName>Asset Class</itemName>
    <itemValue>US Treasuries</itemValue>
  </reportItem>
  - <reportItem>
    <rs_id type="mdrm">TPRXM897</rs_id>
    <itemName>Collateral Value Before Haircut</itemName>
    <itemValue>23413334555</itemValue>
  </reportItem>
  - <reportItem>
    <rs_id type="mdrm">TPRXM898</rs_id>
    <itemName>Collateral Value After Haircut</itemName>
    <itemValue>2341</itemValue>
  </reportItem>
</itemGroup>
```

Figure 5.

Item Name	MDRM	Data Type and Length	Notes
Sequence Number	TPRXN186	Numeric (Should not exceed 7 digits)	The sequence number of the transaction. Each transaction must have a unique number. Numbering should start with 1 and be incremented by 1.
Data Source	TPRXM892	Character (1 Character)	
Dealer Name	TPRXM893	Character (Up to 100 Characters)	
Repo ID	TPRXM894	Numeric (Up to 10 Digits)	
Component	TPRXM895	Numeric (Up to 5 Digits)	
Asset Class	TPRXM896	Character (Up to 100 Characters)	
Collateral Value Before Haircut	TPRXM897	Numeric (Up to 15 Digits)	
Collateral Value After Haircut	TPRXM898	Numeric (Up to 15 Digits)	

File Name Convention

After creation of the file assign the name as following:

TPRX.DYMMDD.THMMCCM.XML (e.g. TPRX.D140915.T1652539.XML)

TPRX – series name (hard coded)

D - Date identifier (hard coded)

YMMDD – year (e.g. 14), month (e.g. 03), day (e.g. 26) of the file creation

T - Time identifier (hard coded)

HHMMSSM – military hours (e.g. 16), seconds (e.g. 35), tenths of a second (e.g. 4) of the file creation.

Illegal Characters

Illegal XML characters (e.g. &, >, <, etc...) should be handled accordingly.