jack henry & ASSOCIATES INC.

2024

Contract Changes Release Level 2024.1.04

Encompasses:

- *ISO 20022 Wires*
- *CPS*

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ProfitStars™ A JACK HENRY COMPANY

Mike DeNicola

Enterprise Architect Group

8/31/2024

Table of Contents

General Information 4
Document Tracking 4
8/31/2024 4
ISO 20022 Wires 5
Contact Information 5
Wire Adoption of ISO 20022 Services 5
Direct Line Wires Adoption of ISO 20022 Services as Provider 42
Direct Line Wires Adoption of ISO 20022 Services as Consumer 45
Wire Suite of Services to ISO Format 60
Wire Fraud Service Adoption to ISO Format 70
Wire Integration to pain.014 73
Wire Transaction Exceptions 75
Wire History Search ISO Format 81
CPS 85
Contact Information 85
PSCU Direct 85

General Information

Project Name:	jXchange Release 2024.1.04 Requirements
Project Type:	SOA Architecture
Requested Date:	August 31, 2024
Business Requirements:	• *ISO 20022 Wires* • *CPS*

Document Tracking

Date Published MM/DD/CCYY	Certification Tracking Id	Provider Tracking Id	Architect	Tracking Description
8/31/2024	390097		Mike DeNicola	Wire Adoption of ISO 20022 [WireTrnISOAdd]
	390394		Mike DeNicola	DLW Adoption of ISO 20022 as Provider
	390395			
	390396			
	390397		Mike DeNicola	DLW Adoption of ISO 20022 as Consumer
	390398			
	390399			
	390400			
	390401			
	390402			
	390403			

	397264			
	391344		Mike DeNicola	Wire suite of services adoption of ISO format
	391346			
	393525		Mike DeNicola	Wire Fraud Services adoption to ISO Format
	393526			
	394736		Mike DeNicola	Wire Integration to pain.014
	397065	397066	Mike DeNicola	Wire Transaction Exceptions
	397067	397068		
	404394	404395	Mike DeNicola	PSCU Direct
	404396	404397		
	404398	404399		
	405807	405808		
	404520	404521	Mike DeNicola	Wire History Search ISO Format

ISO 20022 Wires

Contact Information	
Project Requestor:	Kevin Sliger
Project Owner:	John England
Architect:	Mike DeNicola
Stakeholder(s):	SilverLake Core Director CIF 20/20 DLW
Project Manager(s):	Megan Miles

Wire Adoption of ISO 20022 Services	
Description:	Core Systems adoption of ISO 20022 FedLine wire standards made available to consumers
Architect:	Mike DeNicola
Committed Service Provider(s):	SilverLake Core
Potential Consumer Stakeholder(s):	TM
Potentially Impacted Service Provider(s):	Core Director CIF 20/20

Container(s):	TPG_InquiryMaster.xsd TPG_TransactionMaster.xsd TPG_DepositMaster.xsd TPG_WireMaster.xsd		
EICC Request Id:	381974		
Message(s)/Tracking Id(s)/Approval(s):	WireTrnISOAdd	390097	
Action Taken:	Created new messages All existing Wire services were moved to the TPG_WireMaster.xsd Detail of charge type <DetOfChgType> canonical value was updated with [Orign] and [SvcLvl]. The Wire Schedule Record complex (WireSchedRec_CType) was updated with the Wire Schedule Identifier <WireSchedId>. Wire Transaction Addition [WireTrnAdd] was scheduled for deprecation. Service Dictionary Name <SvcDictName> was updated with canonical value [WireTrnISOAdd],		
Behavior Diagrams:			
Behavior:			

XSD Schema:

Simple Elements

```
<xsd:complexType name="DetOfChgType_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>Used by the SENDER DI to instruct the Receiver DI to deduct charges
            and expenses from the payment amount.</ElemDesc>
          <CanonicalVal>Benf,Shared,Orign,SvcLvl</CanonicalVal>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="ClosedEnum_Type">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

 <xsd:complexType name="WirePurpInfo_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>A free form information for the wire purpose</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
```

```
        </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

<xsd:complexType name="WirePurpCode_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>The purpose code as related to a wire</ElemDesc>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="OpenEnum_Type">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>


   <xsd:complexType name="WireInstrId_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>The instruction identification is a point to point reference that can be used between the instructing party and the instructed
party to refer to the individual instruction. </ElemDesc>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="xsd:string">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

   <xsd:complexType name="WireInstrTrnId_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>Unique identification, as assigned by the first instructing agent, to unambiguously identify the transaction that is passed on,
unchanged, throughout the entire interbank chain</ElemDesc>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="xsd:string">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

<xsd:complexType name="WireUETR_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>Universally unique identifier to provide an end-to-end
                  reference</ElemDesc>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="xsd:string">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
```

```
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

   <xsd:complexType name="WireHighPryType_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>Indicator of the urgency or order of importance of the wire</ElemDesc>
               <CanonicalVal>true,false</CanonicalVal>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="ClosedEnum_Type">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

   <xsd:complexType name="WireSvcLvlType_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>Specifies the service level of the transaction as published by ISO20022.  The codes can be downloaded from
www.iso20022.org which dictates the enumeration values</ElemDesc>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="OpenEnum_Type">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

   <xsd:complexType name="WireSvcLvlDesc_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>Specifies a pre-agreed service or level of service between the parties</ElemDesc>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="xsd:string">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

   <xsd:complexType name="WireLocalTrfType_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>This element is used to specify a local instrument, local clearing option and/or further qualify the service or service level.
Local instrument, as a propiertary code Fedwire Funds Tag {3600} Business Function and {1510} Type Subtype
               </ElemDesc>

<CanonicalVal>CustTrf,CustDrawdwn,AcctCustTrf,FinInstTrf,FinInstDrawdwn,AcctFinInstTrf,CustCoverPmt,AcctCoverPmt,FinInstDrawdwnRq,
CustDrawdwnRq</CanonicalVal>
            </Jx>
         </xsd:documentation>
```

```
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="ClosedEnum_Type">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="WireCatPurpType_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>Specifies the high level purpose of the instruction based on a set of pre-defined categories as published by ISO20022
[www.iso20022.org].  This is used by the initiating party to provide information concerning the processing of the payment. It is likely to trigger
special processing by any of the agents involved in the payment chain
            </ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="OpenEnum_Type">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="WireCatPurpDesc_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>Specifies the high level purpose of the instruction in a free-form string</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="WireInstrAmt_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>Amount of money to be moved between the debtor and creditor, before deduction of charges, expressed in the currency as
ordered by the initiating party.   Fedwire Funds Tag {3710} Instructed Amount</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:decimal">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="WireChgAmt_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>Transaction charges to be paid by the charge bearer.   Fedwire Funds Tag {3700} Details of Charges - Element 02-05
Charges</ElemDesc>
```

```
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="xsd:decimal">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

   <xsd:complexType name="FreeFormRemitInfo_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>A free form unstructed information related to remittance information</ElemDesc>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="xsd:string">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

   <xsd:complexType name="RemitDocType_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>The type of remittance document as defined by ISO 20022 enumeration</ElemDesc>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="OpenEnum_Type">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

   <xsd:complexType name="RemitDocDesc_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>The free form description of the remittance document</ElemDesc>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="xsd:string">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

   <xsd:complexType name="RemitDocIssr_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>The Issuer of the remittance document</ElemDesc>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
```

```
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="WireAgentType_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>Identifies the different agents as related to a wire transaction</ElemDesc>
          <CanonicalVal>PrevInstrAgent,IntmdAgent,DrAgent,CrAgent</CanonicalVal>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="ClosedEnum_Type">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="WireAgentSeq_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>The sequence number that further defines the agent as related to a wire</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:int">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="AcctIdCat_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>The category as related to an account identifier</ElemDesc>
          <CanonicalVal>IssuerNumId,BankNumId,CHIPSId,UnvIdCode</CanonicalVal>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="ClosedEnum_Type">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="AcctIdCatDesc_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>A free form account identifier category </ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
```

```
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="AcctIdIssuer_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>A free form description of the account id issuer</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="WireEntityType_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>Identifies the different entities as related to a wire transaction</ElemDesc>
            <CanonicalVal>UltmtDrEntity,DrInit,DrEntity,CrInit,CrEntity,UltmtCrEntity</CanonicalVal>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="ClosedEnum_Type">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>


    <xsd:complexType name="InstEntityType_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>Identifies the different types of entities</ElemDesc>

<CanonicalVal>BankId,CentralBankId,ClearingId,CertifCorpId,CntryId,CustId,DataUnivId,EmplId,GlobLocId,SREN,SRET,TaxId,BusDomId,OthBusId</CanonicalVal>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="ClosedEnum_Type">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="InstEntityDesc_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>A free form description as the type of entity</ElemDesc>
          </Jx>
        </xsd:documentation>
```

```
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="InstEntityIssr_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>A free form description of issuer of the identification</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="WireInstrCode_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>The code that relates to the processing of the payment</ElemDesc>
            <CanonicalVal>ChkPmt,HoldPmt,PhoneBenf,Telecom</CanonicalVal>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="ClosedEnum_Type">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="WireInstrInfo_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>A free form description that convyes the payment instructions</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="InstBIC_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>Code allocated to a financial institution by the ISO 9362 Registration Authority as described in ISO 9362: 2014 - Banking - Banking telecommunication messages - Business identifier code (BIC) </ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
```

```
      <xsd:simpleContent>
        <xsd:extension base="OpenEnum_Type">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="InstLegalEntityId_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>Legal Entity Identifier is a code allocated to a party as described in ISO 17442 Financial Services - Legal Entity Identifier
(LEI) </ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="OpenEnum_Type">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="BldgName_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>Name of the building or house</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="BldgId_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>Number or Id that identifies the position of a building on a street </ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="BldgFloor_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>Floor or store within a building </ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
```

```
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
          </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="RemitDlvryMthd_Type">
        <xsd:annotation>
            <xsd:documentation>
                <Jx>
                    <ElemDesc>The method used for delivery of remittance information</ElemDesc>
                    <CanonicalVal>Fax,EDIC,URL,Email,Addr,SMS</CanonicalVal>
                </Jx>
            </xsd:documentation>
        </xsd:annotation>
        <xsd:simpleContent>
            <xsd:extension base="ClosedEnum_Type">
                <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
                <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
            </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="RemitDlvryId_Type">
        <xsd:annotation>
            <xsd:documentation>
                <Jx>
                    <ElemDesc>The identifier given to the remit delivery as a key for the
                        array </ElemDesc>
                </Jx>
            </xsd:documentation>
        </xsd:annotation>
        <xsd:simpleContent>
            <xsd:extension base="xsd:string">
                <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
                <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
            </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>


    <xsd:complexType name="BldgRmId_Type">
        <xsd:annotation>
            <xsd:documentation>
                <Jx>
                    <ElemDesc>Building room number or Id</ElemDesc>
                </Jx>
            </xsd:documentation>
        </xsd:annotation>
        <xsd:simpleContent>
            <xsd:extension base="xsd:string">
                <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
                <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
            </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="PostOffBoxId_Type">
        <xsd:annotation>
            <xsd:documentation>
                <Jx>
                    <ElemDesc>Numbered or Id of a box in a post office, assigned to a person or organisation, where letters are kept until called
for.</ElemDesc>
                </Jx>
            </xsd:documentation>
        </xsd:annotation>
        <xsd:simpleContent>
```

```
      <xsd:extension base="xsd:string">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="DocLineType_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>The type of line of a remittance document as defined by ISO External document line type code</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="OpenEnum_Type">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="DocLineDesc_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>The free form description of a line of a remittance document</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="RemitLineDesc_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>A free form description of the remittance line details</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="DueAmt_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>A general amount due</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:decimal">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
```

```
        </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

   <xsd:complexType name="CrNoteAmt_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>Credit note amount</ElemDesc>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="xsd:decimal">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

   <xsd:complexType name="RemitAmt_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>The amount remitted</ElemDesc>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="xsd:decimal">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

<xsd:complexType name="CrRefType_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc> The type of credit reference</ElemDesc>
               <CanonicalVal>RemitAdviceMsg,PurchOrder,RelPmtInstr,FornExchRef,DispatchAdvice,StructureCommRef</CanonicalVal>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="ClosedEnum_Type">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>


   <xsd:complexType name="CrRefDesc_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>Credit referece type in free form description</ElemDesc>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="xsd:string">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
```

```
    </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="CrRefIssr_Type">
    <xsd:annotation>
        <xsd:documentation>
            <Jx>
                <ElemDesc>The issuer of the credit reference</ElemDesc>
            </Jx>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
        <xsd:extension base="xsd:string">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
    </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="CrRefId_Type">
    <xsd:annotation>
        <xsd:documentation>
            <Jx>
                <ElemDesc>An identifier given to a credit reference</ElemDesc>
            </Jx>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
        <xsd:extension base="xsd:string">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
    </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="InvEntityType_Type">
    <xsd:annotation>
        <xsd:documentation>
            <Jx>
                <ElemDesc>The type of entity related to an invoice</ElemDesc>
                <CanonicalVal>Invr,Invcee</CanonicalVal>
            </Jx>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
        <xsd:extension base="ClosedEnum_Type">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
    </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="TaxRecipZone_Type">
    <xsd:annotation>
        <xsd:documentation>
            <Jx>
                <ElemDesc>The adminstration authorized zone for the tax payment</ElemDesc>
            </Jx>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
        <xsd:extension base="xsd:string">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
    </xsd:simpleContent>
</xsd:complexType>
```

```
<xsd:complexType name="TaxRefId_Type">
   <xsd:annotation>
      <xsd:documentation>
         <Jx>
            <ElemDesc>An identifier given to a tax payment as issued by the taxing agency</ElemDesc>
         </Jx>
      </xsd:documentation>
   </xsd:annotation>
   <xsd:simpleContent>
      <xsd:extension base="xsd:string">
         <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
         <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
   </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="TaxPmtMthd_Type">
   <xsd:annotation>
      <xsd:documentation>
         <Jx>
            <ElemDesc>The method being used for the tax payment</ElemDesc>
         </Jx>
      </xsd:documentation>
   </xsd:annotation>
   <xsd:simpleContent>
      <xsd:extension base="xsd:string">
         <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
         <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
   </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="TaxBaseAmt_Type">
   <xsd:annotation>
      <xsd:documentation>
         <Jx>
            <ElemDesc>The base amount being used for the tax amount</ElemDesc>
         </Jx>
      </xsd:documentation>
   </xsd:annotation>
   <xsd:simpleContent>
      <xsd:extension base="xsd:decimal">
         <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
         <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
   </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="TaxRptSeqId_Type">
   <xsd:annotation>
      <xsd:documentation>
         <Jx>
            <ElemDesc>The sequence identifier given to the tax reporting</ElemDesc>
         </Jx>
      </xsd:documentation>
   </xsd:annotation>
   <xsd:simpleContent>
      <xsd:extension base="xsd:string">
         <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
         <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
   </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="TaxRecType_Type">
   <xsd:annotation>
```

```
      <xsd:documentation>
        <Jx>
          <ElemDesc>The type of tax recording</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="TaxRecCat_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>The category of tax recording</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="TaxAmt_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>Tax amount</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:decimal">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="DsctAmtType_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>Discount amount type</ElemDesc>
          <CanonicalVal>Promotional,Standing,Terms</CanonicalVal>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="ClosedEnum_Type">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="DsctAmtDesc_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
```

```
            <ElemDesc>Discount amount type in free form description</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="DsctAmt_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>Discount amount</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:decimal">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="TaxAmtType_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>Tax amount type</ElemDesc>
            <CanonicalVal>City,Cnty,Local,Prov,State</CanonicalVal>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="ClosedEnum_Type">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="TaxAmtDesc_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>Tax amount type in free form description</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="AdjAmt_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>Adjustment amount</ElemDesc>
          </Jx>
```

```
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:decimal">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="AdjRsnDesc_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>The reason for the adjustment amount</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="TaxEntityType_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>Identifies the different entities as related to a tax information</ElemDesc>
          <CanonicalVal>DrEntity,CrEntity,UltmtDrEntity</CanonicalVal>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="ClosedEnum_Type">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="RegstId_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>A registration identifier given to an organization</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="TaxPayerDesc_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>A free form description of the type of tax payer</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
```

```
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="TaxPayerAuthTitle_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>A title given to an authorized tax payer</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="TaxRecCatDesc_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>The description of the category of tax recording</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="TaxDrStat_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>The status of the tax debtor</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="TaxRecYr_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>The year of the tax recording</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:date">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
```

```
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
          </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="TaxPmtPeriod_Type">
        <xsd:annotation>
          <xsd:documentation>
            <Jx>
              <ElemDesc> The specific period of time for the tax recording</ElemDesc>

<CanonicalVal>Month01,Month02,Month03,Month04,Month05,Month06,Month07,Month08,Month09,Month10,Month11,Month12,Qtr01,Qtr02,
Qtr03,Qtr04,Half01,Half02</CanonicalVal>
            </Jx>
          </xsd:documentation>
        </xsd:annotation>
        <xsd:simpleContent>
          <xsd:extension base="ClosedEnum_Type">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
          </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>

<xsd:complexType name="ISOIdType_Type">
        <xsd:annotation>
          <xsd:documentation>
            <Jx>
              <ElemDesc> Identifications as related to ISO formats.  This is a hybrid enumerated element with a
                 preset list of values</ElemDesc>
              <CanonicalVal>DriverLic,Passport,ResidentAlienId,EmplId,NatIdNum,TaxId,SSN,CustId</CanonicalVal>
            </Jx>
          </xsd:documentation>
        </xsd:annotation>
        <xsd:simpleContent>
          <xsd:extension base="OpenEnum_Type">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
          </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="IdDesc_Type">
        <xsd:annotation>
          <xsd:documentation>
            <Jx>
              <ElemDesc> Freeform identification description</ElemDesc>
            </Jx>
          </xsd:documentation>
        </xsd:annotation>
        <xsd:simpleContent>
          <xsd:extension base="xsd:string">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
          </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="IdIssuer_Type">
        <xsd:annotation>
          <xsd:documentation>
            <Jx>
              <ElemDesc> The named issuer of identification</ElemDesc>
            </Jx>
          </xsd:documentation>
        </xsd:annotation>
        <xsd:simpleContent>
```

```
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

  <xsd:complexType name="RemitDlvryId_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>The identifier given to the remit delivery as a key for the array </ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

<xsd:complexType name="TaxPeriodRecId_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>An identifier given to the tax period</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

<xsd:complexType name="IdSeqId_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc> The sequence identifier given to an identifier used for identify a person</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

<xsd:complexType name="WireSchedId_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>An identifer provided for the reoccuring schedule</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
```

```
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

  <xsd:complexType name="DsctAmtRec_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>An identifer provided for the discount wire array</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

<xsd:complexType name="TaxAmtId_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>An identifer provided for the tax amount array</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

  <xsd:complexType name="AdjAmtId_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>An identifer provided for the adjusted amount array</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

   <xsd:complexType name="RemitDocRecId_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc> The identifier as related to the remittance document record</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>
```

```
<xsd:complexType name="TaxEntityId_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc> The identifier as related to the tax entity</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

<xsd:complexType name="InPersonWireType_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc> The element identifying if Wire was initiated in person</ElemDesc>
          <CanonicalVal>false,true</CanonicalVal>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="ClosedEnum_Type">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

<xsd:complexType name="RemitSubjRuleType_Type">
    <xsd:annotation>
      <xsd:documentation xml:lang="en"> Is the wire subject to the remittance rule?
        <Jx>
          <CanonicalVal>true,false</CanonicalVal>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="ClosedEnum_Type">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>
```

Complex Element Definitions

```
<xsd:complexType name="WireTrnISOAddRq_MType">
                <xsd:sequence>
                        <xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
                        <xsd:element name="ErrOvrRdInfoArray" type="ErrOvrRdInfoArray_AType" minOccurs="0" nillable="true"/>
                        <xsd:element name="OrignFinInstRtId" type="InstRtId_Type"/>
                        <xsd:element name="DestFinInstRtId" type="InstRtId_Type" />
                        <xsd:element name="SndrFinInstRtId" type="InstRtId_Type"/>
                        <xsd:element name="RecvFinInstRtId" type="InstRtId_Type" />
                        <xsd:element name="WireCrtTimeDt" type="WireCrtTimeDt_Type"/>
                        <xsd:element name="WirePurpCode" type="WirePurpCode_Type" minOccurs="0" nillable="true">
                                <xsd:annotation>
                                        <xsd:documentation>[WirePurpCode] and [WirePurpInfo] are part of a documented choice
whereas both are optional but at least one is required</xsd:documentation>
```

```
                                </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="WirePurpInfo" type="WirePurpInfo_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="WireSvcPrvdInfo" type="WireSvcPrvdInfo_CType"/>
                        <xsd:element name="WirePmtTypeInfo" type="WirePmtTypeInfo_CType"/>
                        <xsd:element name="WireChgInfo" type="WireChgInfo_CType" minOccurs="0"/>
                        <xsd:element name="WireAgentInfoArray" type="WireAgentInfoArray_AType" minOccurs="0" nillable="true" />
                        <xsd:element name="WireEntityInfoArray" type="WireEntityInfoArray_AType"  />
                        <xsd:element name="WireRemitInfo" type="WireRemitInfo_CType" minOccurs="0"/>
                        <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                        <xsd:sequence minOccurs="0">
                                <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                <xsd:any namespace="##targetNamespace" processContents="lax"
                                        minOccurs="0" maxOccurs="unbounded"/>
                        </xsd:sequence>
                </xsd:sequence>
        </xsd:complexType>

        <xsd:complexType name="WireTrnISOAddRs_MType">
                <xsd:sequence>
                        <xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
                        <xsd:element name="TrnRcptId" type="TrnRcptId_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="WireTmpltId" type="WireTmpltId_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="RsStat" type="RsStat_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                        <xsd:sequence minOccurs="0">
                                <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                                        maxOccurs="unbounded"/>
                        </xsd:sequence>
                </xsd:sequence>
        </xsd:complexType>


<xsd:complexType name="WireSvcPrvdInfo_CType">
    <xsd:sequence>
      <xsd:element name="WireAcctId" type="WireAcctId_Type" minOccurs="0"/>
      <xsd:element name="WireAcctType" type="AcctType_Type" minOccurs="0" />
      <xsd:element name="WireTmpltCrt" type="WireTmpltCrt_Type" minOccurs="0" />
      <xsd:element name="AvlBalCalcCode" type="AvlBalCalcCode_Type" minOccurs="0" />
      <xsd:element name="WireCompId" type="WireCompId_Type" minOccurs="0" />
      <xsd:element name="WireCompEmplId" type="EmplId_Type" minOccurs="0" />
      <xsd:element name="WireCompEmplName" type="EmplName_Type" minOccurs="0" />
      <xsd:element name="WireCompVerifId" type="WireVerifId_Type" minOccurs="0" />
      <xsd:element name="WireCompVerifName" type="EmplName_Type" minOccurs="0" />
      <xsd:element name="WireCorrelId" type="WireCorrelId_Type" minOccurs="0" />
      <xsd:element name="FraudRefId" type="FraudRefId_Type" minOccurs="0" />
      <xsd:element name="WireTrnType" type="WireTrnType_Type" minOccurs="0"/>
      <xsd:element name="TaxId" type="TaxId_Type" minOccurs="0"/>
      <xsd:element name="OffCode" type="OffCode_Type" minOccurs="0"/>
      <xsd:element name="WireAnlysCode" type="WireAnlysCode_Type" minOccurs="0"/>
      <xsd:element name="WireFeeAmt" type="WireFeeAmt_Type" minOccurs="0"/>
      <xsd:element name="WireTmpltDesc" type="WireTmpltDesc_Type" minOccurs="0"/>
       <xsd:element name="WireTmpltRef" type="TrnRef_Type" minOccurs="0"/>
       <xsd:element name="WireStat" type="WireStat_Type" minOccurs="0"/>
      <xsd:element name="BrCode" type="BrCode_Type" minOccurs="0"/>
      <xsd:element name="GLCostCtr" type="GLCostCtr_Type" minOccurs="0"/>
      <xsd:element name="GLProdCode" type="GLProdCode_Type" minOccurs="0"/>
      <xsd:element name="WireNotType" type="WireNotType_Type" minOccurs="0"/>
      <xsd:element name="WireSrc" type="WireSrc_Type" minOccurs="0"/>
      <xsd:element name="IntnetFinInstId" type="IntnetFinInstId_Type" minOccurs="0"/>
     <xsd:element name="FornWireType" type="FornWireType_Type" minOccurs="0"/>
      <xsd:element name="InPersonWireType" type="InPersonWireType_Type" minOccurs="0"/>
      <xsd:element name="RemitSubjRuleType" type="RemitSubjRuleType_Type" minOccurs="0"/>
      <xsd:element name="WireSchedRecArray" type="WireSchedRecArray_AType" minOccurs="0"/>
      <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
      <xsd:sequence minOccurs="0">
```

```
            <xsd:element name="Ver_1" type="Ver_1_CType"/>
            <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
              maxOccurs="unbounded"/>
          </xsd:sequence>
        </xsd:sequence>
      </xsd:complexType>

      <xsd:complexType name="WirePmtTypeInfo_CType">
        <xsd:sequence>
          <xsd:element name="InstrId" type="WireInstrId_Type" minOccurs="0" />
          <xsd:element name="WireRefId" type="WireRefId_Type" minOccurs="0" />
          <xsd:element name="InstrTrnId" type="WireInstrTrnId_Type" minOccurs="0" />
          <xsd:element name="WireUETR" type="WireUETR_Type" minOccurs="0" />
          <xsd:element name="HighPryType" type="WireHighPryType_Type" minOccurs="0" />
          <xsd:element name="SvcLvlInfoArray" type="SvcLvlInfoArray_AType"  />
          <xsd:element name="LocalTrfType" type="WireLocalTrfType_Type"  />
          <xsd:element name="CatPurpType" type="WireCatPurpType_Type" minOccurs="0" />
          <xsd:element name="CatPurpDesc" type="WireCatPurpDesc_Type" minOccurs="0" />
          <xsd:element name="WireAmt" type="WireAmt_Type" />
          <xsd:element name="InstrAmt" type="WireInstrAmt_Type"  />
          <xsd:element name="CurrExchRate" type="CurrExchRate_Type"  minOccurs="0" />
          <xsd:element name="CrAgentInstrInfoArray" type="InstrInfoArray_AType" minOccurs="0"  />
          <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
          <xsd:sequence minOccurs="0">
            <xsd:element name="Ver_1" type="Ver_1_CType"/>
            <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
              maxOccurs="unbounded"/>
          </xsd:sequence>
        </xsd:sequence>
      </xsd:complexType>

      <xsd:complexType name="WireChgInfo_CType">
        <xsd:sequence>
          <xsd:element name="DetOfChgType" type="DetOfChgType_Type" />
          <xsd:element name="WireChgArray" type="WireChgArray_AType" />
          <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
          <xsd:sequence minOccurs="0">
            <xsd:element name="Ver_1" type="Ver_1_CType"/>
            <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
              maxOccurs="unbounded"/>
          </xsd:sequence>
        </xsd:sequence>
      </xsd:complexType>

      <xsd:complexType name="WireRemitInfo_CType">
        <xsd:sequence>
          <xsd:element name="RemitId" type="PmtId_Type" minOccurs="0" />
          <xsd:element name="RemitDlvryArray" type="RemitDlvryArray_AType"  minOccurs="0"/>
          <xsd:element name="FreeFormRemitInfo" type="FreeFormRemitInfo_Type" minOccurs="0" >
            <xsd:annotation>
              <xsd:documentation>[FreeFormRemitInfo] and [RemitStructureArray] are part of a documented choice whereas both are optional but at
least one is required</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element name="RemitStructureArray" type="RemitStructureArray_AType"  minOccurs="0"/>
          <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
          <xsd:sequence minOccurs="0">
            <xsd:element name="Ver_1" type="Ver_1_CType"/>
            <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
              maxOccurs="unbounded"/>
          </xsd:sequence>
        </xsd:sequence>
      </xsd:complexType>

      <xsd:complexType name="WireAgentRec_CType">
        <xsd:sequence>
          <xsd:element name="WireAgentType" type="WireAgentType_Type" />
```

```
        <xsd:element name="WireAgentSeq" type="WireAgentSeq_Type" minOccurs="0"/>
        <xsd:element name="WireFinInstInfo" type="WireFinInstInfo_CType" />
        <xsd:element name="WireFinInstAcctInfo" type="WireFinInstAcctInfo_CType" />
        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
        <xsd:sequence minOccurs="0">
          <xsd:element name="Ver_1" type="Ver_1_CType"/>
          <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
            maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="WireEntityRec_CType">
      <xsd:sequence>
        <xsd:element name="WireEntityType" type="WireEntityType_Type" />
        <xsd:element name="EntityName" type="ComName_Type" minOccurs="0"/>
        <xsd:element name="AddrISO" type="AddrISO_CType" minOccurs="0"/>
        <xsd:element name="InstBIC" type="InstBIC_Type" minOccurs="0"/>
        <xsd:element name="InstLegalEntityId" type="InstLegalEntityId_Type" minOccurs="0"/>
        <xsd:element name="ResCntryType" type="CntryType_Type" minOccurs="0"/>
        <xsd:element name="InstEntityInfoArray" type="InstEntityInfoArray_AType"  />
        <xsd:element name="WireFinInstAcctInfo" type="WireFinInstAcctInfo_CType" />
        <xsd:element name="PersonIdInfo" type="PersonIdInfo_CType"  minOccurs="0" />
        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
        <xsd:sequence minOccurs="0">
          <xsd:element name="Ver_1" type="Ver_1_CType"/>
          <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
            maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:sequence>
    </xsd:complexType>

<xsd:complexType name="SvcLvlRec_CType">
      <xsd:sequence>
        <xsd:element name="SvcLvlId" type="WireSvcLvlId_Type" />
        <xsd:element name="SvcLvlType" type="WireSvcLvlType_Type" minOccurs="0">
          <xsd:annotation>
            <xsd:documentation>[SvcLvlType] and [SvcLvlDesc] are part of a documented choice
              whereas both are optional but at least one is required</xsd:documentation>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="SvcLvlDesc" type="WireSvcLvlDesc_Type" minOccurs="0"/>
        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
        <xsd:sequence minOccurs="0">
          <xsd:element name="Ver_1" type="Ver_1_CType"/>
          <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
            maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:sequence>
    </xsd:complexType>


    <xsd:complexType name="InstrRec_CType">
      <xsd:sequence>
        <xsd:element name="WireInstrId" type="WireInstrId_Type"   />
        <xsd:element name="WireInstrCode" type="WireInstrCode_Type"/>
        <xsd:element name="WireInstrInfo" type="WireInstrInfo_Type" minOccurs="0"/>
        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
        <xsd:sequence minOccurs="0">
          <xsd:element name="Ver_1" type="Ver_1_CType"/>
          <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
            maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:sequence>
    </xsd:complexType>
```

```
<xsd:complexType name="WireChgRec_CType">
    <xsd:sequence>
      <xsd:element name="WireChgId" type="WireChgId_Type" minOccurs="0"/>
      <xsd:element name="ChgAmt" type="WireChgAmt_Type" minOccurs="0"/>
      <xsd:element name="ChgCurrType" type="CurrType_Type" minOccurs="0"/>
      <xsd:element name="WireFinInstInfo" type="WireFinInstInfo_CType" minOccurs="0"/>
      <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
      <xsd:sequence minOccurs="0">
        <xsd:element name="Ver_1" type="Ver_1_CType"/>
        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
          maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:sequence>
  </xsd:complexType>



<xsd:complexType name="RemitDlvryRec_CType">
    <xsd:sequence>
      <xsd:element name="RemitDlvryId" type="RemitDlvryId_Type" />
      <xsd:element name="RemitDlvryMthd" type="RemitDlvryMthd_Type" minOccurs="0"/>
      <xsd:element name="RecipName" type="ComName_Type" minOccurs="0"/>
      <xsd:element name="EmailAddr" type="EmailAddr_Type" minOccurs="0"/>
      <xsd:element name="AddrISO" type="AddrISO_CType" minOccurs="0"/>
      <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
      <xsd:sequence minOccurs="0">
        <xsd:element name="Ver_1" type="Ver_1_CType"/>
        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
          maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:sequence>
  </xsd:complexType>>

  <xsd:complexType name="RemitStructureRec_CType">
    <xsd:sequence>
      <xsd:element name="RemitStructureId" type="RemitStructureId_Type" minOccurs="0"/>
      <xsd:element name="RemitDocArray" type="RemitDocArray_AType" minOccurs="0"/>
      <xsd:element name="DocAmtRec" type="DocAmtRec_CType" minOccurs="0"/>
      <xsd:element name="CrRefRec" type="CrRefRec_CType" minOccurs="0"/>
      <xsd:element name="InvInfoArray" type="InvInfoArray_AType" minOccurs="0"/>
      <xsd:element name="TaxRefRec" type="TaxRefRec_CType" minOccurs="0"/>
      <xsd:element name="RemitRmkArray" type="Rmk_AType" minOccurs="0"/>
      <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
      <xsd:sequence minOccurs="0">
        <xsd:element name="Ver_1" type="Ver_1_CType"/>
        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
          maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:sequence>
  </xsd:complexType>



  <xsd:complexType name="WireFinInstInfo_CType">
    <xsd:sequence>
      <xsd:element name="InstRtId" type="InstRtId_Type" />
      <xsd:element name="FinInstName" type="FinInstName_Type" minOccurs="0"/>
      <xsd:element name="InstBIC" type="InstBIC_Type" minOccurs="0"/>
      <xsd:element name="InstLegalEntityId" type="InstLegalEntityId_Type" minOccurs="0"/>
      <xsd:element name="BrCode" type="BrCode_Type" minOccurs="0"/>
      <xsd:element name="AddrISO" type="AddrISO_CType" minOccurs="0"/>
      <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
      <xsd:sequence minOccurs="0">
        <xsd:element name="Ver_1" type="Ver_1_CType"/>
        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
          maxOccurs="unbounded"/>
      </xsd:sequence>
```

```
      </xsd:sequence>
   </xsd:complexType>

   <xsd:complexType name="WireFinInstAcctInfo_CType">
      <xsd:sequence>
         <xsd:element name="IBAN" type="AcctId_Type"  minOccurs="0" >
            <xsd:annotation>
               <xsd:documentation>[IBAN] and [AcctId] are part of a documented choice whereas both are optional but at least one is
required</xsd:documentation>
            </xsd:annotation>
         </xsd:element>
         <xsd:element name="AcctId" type="AcctId_Type" minOccurs="0"/>
         <xsd:element name="AcctType" type="AcctType_Type" minOccurs="0">
            <xsd:annotation>
               <xsd:documentation>[AcctType] and [AcctTypeDesc] are part of a documented choice whereas both are optional but at least one is
required</xsd:documentation>
            </xsd:annotation>
         </xsd:element>
         <xsd:element name="AcctTypeDesc" type="AcctTypeDesc_Type" minOccurs="0"/>
         <xsd:element name="AcctIdCat" type="AcctIdCat_Type" minOccurs="0">
            <xsd:annotation>
               <xsd:documentation>[AcctIdCat] and [AcctIdCatDesc] are part of a documented choice whereas both are optional but at least one is
required</xsd:documentation>
            </xsd:annotation>
         </xsd:element>
         <xsd:element name="AcctIdCatDesc" type="AcctIdCatDesc_Type" minOccurs="0" />
         <xsd:element name="AcctIdIssuer" type="AcctIdIssuer_Type" minOccurs="0" />
         <xsd:element name="CurrType" type="CurrType_Type" minOccurs="0" />
         <xsd:element name="AcctName" type="ComName_Type" minOccurs="0" />
         <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
         <xsd:sequence minOccurs="0">
            <xsd:element name="Ver_1" type="Ver_1_CType"/>
            <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
               maxOccurs="unbounded"/>
         </xsd:sequence>
      </xsd:sequence>
   </xsd:complexType>

<xsd:complexType name="AddrISO_CType">
      <xsd:sequence>
         <xsd:element name="FreeFormAddrArray" type="FreeFormAddr_AType" minOccurs="0"/>
         <xsd:element name="BldgName" type="BldgName_Type" minOccurs="0"/>
         <xsd:element name="Dept" type="DeptCode_Type" minOccurs="0"/>
         <xsd:element name="SubDept" type="DeptCode_Type" minOccurs="0"/>
         <xsd:element name="BldgId" type="BldgId_Type" minOccurs="0"/>
         <xsd:element name="BldgFloor" type="BldgFloor_Type" minOccurs="0"/>
         <xsd:element name="BldgRmId" type="BldgRmId_Type" minOccurs="0"/>
         <xsd:element name="PostOffBoxId" type="PostOffBoxId_Type" minOccurs="0"/>
         <xsd:element name="Street1" type="StreetAddr1_Type" minOccurs="0"/>
         <xsd:element name="SubDivName" type="PropSubDivName_Type" minOccurs="0"/>
         <xsd:element name="City" type="City_Type" minOccurs="0"/>
         <xsd:element name="County" type="County_Type" minOccurs="0"/>
         <xsd:element name="StateProv" type="StateProv_Type" minOccurs="0"/>
         <xsd:element name="CntryType" type="CntryType_Type" minOccurs="0"/>
         <xsd:element name="PostalCode" type="PostalCode_Type" minOccurs="0"/>
         <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
         <xsd:sequence minOccurs="0">
            <xsd:element name="Ver_1" type="Ver_1_CType"/>
            <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
               maxOccurs="unbounded"/>
         </xsd:sequence>
      </xsd:sequence>
   </xsd:complexType>


<xsd:complexType name="InstEntityRec_CType">
      <xsd:sequence>
```

```
        <xsd:element name="InstEntitySeqId" type="EntityId_Type" minOccurs="0"/>
        <xsd:element name="InstEntityId" type="EntityId_Type" minOccurs="0"/>
        <xsd:element name="InstEntityType" type="InstEntityType_Type" minOccurs="0"/>
        <xsd:element name="InstEntityDesc" type="InstEntityDesc_Type" minOccurs="0"/>
        <xsd:element name="InstEntityIssr" type="InstEntityIssr_Type" minOccurs="0"/>
        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
        <xsd:sequence minOccurs="0">
          <xsd:element name="Ver_1" type="Ver_1_CType"/>
          <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
            maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="RemitDocRec_CType">
      <xsd:sequence>
       xsd:element name="RemitDocRecId" type="RemitDocRecId_Type" minOccurs="0" />
        <xsd:element name="RemitDocType" type="RemitDocType_Type" minOccurs="0" >
          <xsd:annotation>
            <xsd:documentation>[RemitDocType] and [RemitDocDesc] are part of a documented choice whereas both are optional but at least one
is required</xsd:documentation>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="RemitDocDesc" type="RemitDocDesc_Type" minOccurs="0"/>
        <xsd:element name="RemitDocIssr" type="RemitDocIssr_Type" minOccurs="0"/>
        <xsd:element name="RemitDocId" type="PmtId_Type" minOccurs="0" />
        <xsd:element name="RemitDocDt" type="DocDt_Type" minOccurs="0" />
        <xsd:element name="RemitDocDetailsArray" type="RemitDocDetailsArray_AType"  minOccurs="0"/>
        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
        <xsd:sequence minOccurs="0">
          <xsd:element name="Ver_1" type="Ver_1_CType"/>
          <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
            maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="RemitDocDetailsRec_CType">
      <xsd:sequence>
        <xsd:element name="DocLineType" type="DocLineType_Type" minOccurs="0" >
          <xsd:annotation>
            <xsd:documentation>[DocLineType] and [DocLineDesc] are part of a documented choice whereas both are optional but at least one is
required</xsd:documentation>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="DocLineDesc" type="DocLineDesc_Type" minOccurs="0" />
        <xsd:element name="RemitDocIssr" type="RemitDocIssr_Type" minOccurs="0"/>
        <xsd:element name="RemitDocId" type="PmtId_Type" minOccurs="0" />
        <xsd:element name="RemitDocDt" type="DocDt_Type" minOccurs="0" />
        <xsd:element name="RemitLineDesc" type="RemitLineDesc_Type" minOccurs="0" />
        <xsd:element name="DocAmtRec" type="DocAmtRec_CType" minOccurs="0" />
        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
        <xsd:sequence minOccurs="0">
          <xsd:element name="Ver_1" type="Ver_1_CType"/>
          <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
            maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="DocAmtRec_CType">
      <xsd:sequence>
        <xsd:element name="PayableDueAmt" type="DueAmt_Type" minOccurs="0" />
        <xsd:element name="PayableCurrType" type="CurrType_Type" minOccurs="0" />
        <xsd:element name="DsctAmtArray" type="DsctAmtArray_AType" minOccurs="0" />
        <xsd:element name="CrNoteAmt" type="CrNoteAmt_Type" minOccurs="0" />
        <xsd:element name="CrNoteCurrType" type="CurrType_Type" minOccurs="0" />
```

```
        <xsd:element name="TaxAmtArray" type="TaxAmtArray_AType" minOccurs="0" />
        <xsd:element name="AdjAmtArray" type="AdjAmtArray_AType" minOccurs="0" />
        <xsd:element name="RemitAmt" type="RemitAmt_Type" minOccurs="0" />
        <xsd:element name="RemitCurrType" type="CurrType_Type" minOccurs="0" />
        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
        <xsd:sequence minOccurs="0">
          <xsd:element name="Ver_1" type="Ver_1_CType"/>
          <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
            maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="CrRefRec_CType">
      <xsd:sequence>
        <xsd:element name="CrRefType" type="CrRefType_Type" minOccurs="0" >
          <xsd:annotation>
            <xsd:documentation>[CrRefType] and [CrRefDesc] are part of a documented choice whereas both are optional but at least one is
required</xsd:documentation>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="CrRefDesc" type="CrRefDesc_Type" minOccurs="0"/>
        <xsd:element name="CrRefIssr" type="CrRefIssr_Type" minOccurs="0"/>
        <xsd:element name="CrRefId" type="CrRefId_Type" minOccurs="0" />
        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
        <xsd:sequence minOccurs="0">
          <xsd:element name="Ver_1" type="Ver_1_CType"/>
          <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
            maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="InvRec_CType">
      <xsd:sequence>
        <xsd:element name="InvEntityType" type="InvEntityType_Type" />
        <xsd:element name="EntityName" type="ComName_Type" minOccurs="0"/>
        <xsd:element name="AddrISO" type="AddrISO_CType" minOccurs="0"/>
        <xsd:element name="InstBIC" type="InstBIC_Type" minOccurs="0"/>
        <xsd:element name="InstLegalEntityId" type="InstLegalEntityId_Type" minOccurs="0"/>
        <xsd:element name="ResCntryType" type="CntryType_Type" minOccurs="0"/>
        <xsd:element name="InstEntityInfoArray" type="InstEntityInfoArray_AType"  />
        <xsd:element name="ContactInfo" type="ContactInfo_CType" minOccurs="0"/>
        <xsd:element name="PersonIdInfo" type="PersonIdInfo_CType"  minOccurs="0" />
        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
        <xsd:sequence minOccurs="0">
          <xsd:element name="Ver_1" type="Ver_1_CType"/>
          <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
            maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="TaxRefRec_CType">
      <xsd:sequence>
        <xsd:element name="TaxEntityArray" type="TaxEntityArray_AType" minOccurs="0" />
        <xsd:element name="TaxRecipZone" type="TaxRecipZone_Type" minOccurs="0"/>
        <xsd:element name="TaxRefId" type="TaxRefId_Type" minOccurs="0" />
        <xsd:element name="TaxPmtMthd" type="TaxPmtMthd_Type"  minOccurs="0"/>
        <xsd:element name="TaxBaseAmt" type="TaxBaseAmt_Type"  minOccurs="0"/>
        <xsd:element name="TaxBaseCurrType" type="CurrType_Type"  minOccurs="0"/>
        <xsd:element name="TaxAmt" type="TaxAmt_Type"  minOccurs="0"/>
        <xsd:element name="TaxAmtCurrType" type="CurrType_Type"  minOccurs="0"/>
        <xsd:element name="TaxPmtDueDt" type="PmtDueDt_Type"  minOccurs="0"/>
        <xsd:element name="TaxRptSeqId" type="TaxRptSeqId_Type"  minOccurs="0"/>
        <xsd:element name="TaxRecArray" type="TaxRecArray_AType"  minOccurs="0"/>
        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
```

```
        <xsd:sequence minOccurs="0">
          <xsd:element name="Ver_1" type="Ver_1_CType"/>
          <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
            maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="DsctAmtRec_CType">
      <xsd:sequence>
       <xsd:element name="DsctAmtId" type="DsctAmtId_Type" minOccurs="0"/>
        <xsd:element name="DsctAmtType" type="DsctAmtType_Type" minOccurs="0" >
          <xsd:annotation>
            <xsd:documentation>[DsctAmtType] and [DsctAmtDesc] are part of a documented choice whereas both are optional but at least one is
required</xsd:documentation>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="DsctAmtDesc" type="DsctAmtDesc_Type" minOccurs="0" />
        <xsd:element name="DsctAmt" type="DsctAmt_Type" minOccurs="0" />
        <xsd:element name="DsctCurrType" type="CurrType_Type" minOccurs="0" />
        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
        <xsd:sequence minOccurs="0">
          <xsd:element name="Ver_1" type="Ver_1_CType"/>
          <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
            maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="TaxAmtRec_CType">
      <xsd:sequence>
        <xsd:element name="TaxAmtId" type="TaxAmtId_Type" minOccurs="0"/>
        <xsd:element name="TaxAmtType" type="TaxAmtType_Type" minOccurs="0" >
          <xsd:annotation>
            <xsd:documentation>[TaxAmtType] and [TaxAmtDesc] are part of a documented choice whereas both are optional but at least one is
required</xsd:documentation>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="TaxAmtDesc" type="TaxAmtDesc_Type" minOccurs="0" />
        <xsd:element name="TaxAmt" type="TaxAmt_Type" minOccurs="0" />
        <xsd:element name="TaxCurrType" type="CurrType_Type" minOccurs="0" />
        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
        <xsd:sequence minOccurs="0">
          <xsd:element name="Ver_1" type="Ver_1_CType"/>
          <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
            maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="AdjAmtRec_CType">
      <xsd:sequence>
       <xsd:element name="AdjAmtId" type="AdjAmtId_Type" minOccurs="0"/>
        <xsd:element name="AdjAmt" type="AdjAmt_Type" minOccurs="0" />
        <xsd:element name="AdjCurrType" type="CurrType_Type" minOccurs="0" />
        <xsd:element name="DrCr" type="DrCr_Type" minOccurs="0" />
        <xsd:element name="AdjRsnDesc" type="AdjRsnDesc_Type" minOccurs="0" />
        <xsd:element name="AdjRsnRmk" type="Rmk_Type" minOccurs="0" />
        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
        <xsd:sequence minOccurs="0">
          <xsd:element name="Ver_1" type="Ver_1_CType"/>
          <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
            maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:sequence>
    </xsd:complexType>
```

```
<xsd:complexType name="ContactInfo_CType">
  <xsd:sequence>
    <xsd:element name="TitlePrefix" type="TitlePrefix_Type" minOccurs="0" />
    <xsd:element name="Name" type="ComName_Type" minOccurs="0"/>
    <xsd:element name="PhoneNum" type="PhoneNum_Type" minOccurs="0"/>
    <xsd:element name="MobNum" type="PhoneNum_Type" minOccurs="0"/>
    <xsd:element name="FaxNum" type="PhoneNum_Type" minOccurs="0"/>
    <xsd:element name="EmailAddr" type="EmailAddr_Type" minOccurs="0"/>
    <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
    <xsd:sequence minOccurs="0">
      <xsd:element name="Ver_1" type="Ver_1_CType"/>
      <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
        maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="TaxEntityRec_CType">
  <xsd:sequence>
   <xsd:element name="TaxEntityId" type="TaxEntityId_Type"/>
    <xsd:element name="TaxEntityType" type="TaxEntityType_Type" />
    <xsd:element name="TaxId" type="TaxId_Type" minOccurs="0"/>
    <xsd:element name="RegstId" type="RegstId_Type" minOccurs="0" />
    <xsd:element name="TaxPayerDesc" type="TaxPayerDesc_Type" minOccurs="0" />
    <xsd:element name="TaxPayerAuthTitle" type="TaxPayerAuthTitle_Type" minOccurs="0" />
    <xsd:element name="TaxPayerAuthName" type="ComName_Type" minOccurs="0" />
    <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
    <xsd:sequence minOccurs="0">
      <xsd:element name="Ver_1" type="Ver_1_CType"/>
      <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
        maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="TaxRecInfo_CType">
  <xsd:sequence>
    <xsd:element name="TaxRecType" type="TaxRecType_Type" minOccurs="0" />
    <xsd:element name="TaxRecCat" type="TaxRecCat_Type" minOccurs="0"/>
    <xsd:element name="TaxRecCatDesc" type="TaxRecCatDesc_Type" minOccurs="0" />
    <xsd:element name="TaxDrStat" type="TaxDrStat_Type" minOccurs="0" />
    <xsd:element name="TaxRecCertifId" type="CertifId_Type" minOccurs="0" />
    <xsd:element name="TaxTmpltId" type="DocTmpltId_Type" minOccurs="0" />
    <xsd:element name="TaxRate" type="Rate_Type" minOccurs="0" />
    <xsd:element name="TaxBaseAmt" type="TaxBaseAmt_Type"  minOccurs="0"/>
    <xsd:element name="TaxBaseCurrType" type="CurrType_Type"  minOccurs="0"/>
    <xsd:element name="TaxAmt" type="TaxAmt_Type"  minOccurs="0"/>
    <xsd:element name="TaxAmtCurrType" type="CurrType_Type"  minOccurs="0"/>
    <xsd:element name="TaxRecRmk" type="Rmk_Type"  minOccurs="0"/>
    <xsd:element name="TaxPeriodRec" type="TaxPeriodRec_CType" minOccurs="0" />
    <xsd:element name="TaxPeriodArray" type="TaxPeriodArray_AType" minOccurs="0" />
    <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
    <xsd:sequence minOccurs="0">
      <xsd:element name="Ver_1" type="Ver_1_CType"/>
      <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
        maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="TaxPeriodRec_CType">
  <xsd:sequence>
    <xsd:element name="TaxPeriodRecId" type="TaxPeriodRecId_Type" minOccurs="0"/>
    <xsd:element name="TaxRecYr" type="TaxRecYr_Type" minOccurs="0"/>
    <xsd:element name="TaxPmtPeriod" type="TaxPmtPeriod_Type" minOccurs="0"/>
    <xsd:element name="TaxStartDt" type="StartDt_Type" minOccurs="0"/>
    <xsd:element name="TaxEndDt" type="EndDt_Type" minOccurs="0"/>
```

```
        <xsd:element name="TaxAmt" type="TaxAmt_Type" minOccurs="0"/>
        <xsd:element name="TaxAmtCurrType" type="CurrType_Type" minOccurs="0"/>
        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
        <xsd:sequence minOccurs="0">
          <xsd:element name="Ver_1" type="Ver_1_CType"/>
          <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
            maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:sequence>
    </xsd:complexType>


    <xsd:complexType name="PersonIdInfo_CType">
      <xsd:sequence>
        <xsd:element name="BirthDt" type="BirthDt_Type" />
        <xsd:element name="BirthStateProv" type="StateProv_Type" minOccurs="0"/>
        <xsd:element name="BirthCity" type="City_Type" />
        <xsd:element name="BirthCntryType" type="CntryType_Type" />
        <xsd:element name="IdArray" type="IdArray_AType" minOccurs="0"  />
        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
        <xsd:sequence minOccurs="0">
          <xsd:element name="Ver_1" type="Ver_1_CType"/>
          <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
            maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="IdRec_CType">
      <xsd:sequence>
        <xsd:element name="IdSeqId" type="IdSeqId_Type" minOccurs="0"/>
        <xsd:element name="IdVal" type="IdVal_Type"/>
        <xsd:element name="IdType" type="ISOIdType_Type" minOccurs="0"/>
        <xsd:element name="IdDesc" type="IdDesc_Type" minOccurs="0"/>
        <xsd:element name="IdIssuer" type="IdIssuer_Type" minOccurs="0"/>
        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
        <xsd:sequence minOccurs="0">
          <xsd:element name="Ver_1" type="Ver_1_CType"/>
          <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
            maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:sequence>
    </xsd:complexType>

  <xsd:complexType name="WireSchedRec_CType">
      <xsd:sequence>
        <xsd:element name="Amt" type="Amt_Type" minOccurs="0"/>
        <xsd:element name="SemiDay1" type="SemiDay1_Type" minOccurs="0"/>
        <xsd:element name="SemiDay2" type="SemiDay2_Type" minOccurs="0"/>
        <xsd:element name="WireSchedFirstDt" type="FutXferFirstDt_Type" minOccurs="0"/>
        <xsd:element name="WireSchedNextDt" type="FutXferNextDt_Type" minOccurs="0"/>
        <xsd:element name="WireSchedExpDt" type="FutXferExpDt_Type" minOccurs="0"/>
        <xsd:element name="WireSchedDayOfMonth" type="FutXferDayOfMonth_Type" minOccurs="0"/>
        <xsd:element name="WireSchedFreq" type="FutXferFreq_Type" minOccurs="0"/>
        <xsd:element name="WireSchedFreqUnits" type="FutXferFreqUnits_Type" minOccurs="0"/>
        <xsd:element name="WireSchedDayOfWeek" type="DayOfWeek_Type" minOccurs="0"/>
        <xsd:element name="WireSchedDayOfWeekOccur" type="DayOfWeekOccur_Type" minOccurs="0"/>
        <xsd:element name="WireSchedStat" type="WireSchedStat_Type" minOccurs="0"/>
        <xsd:element name="WireInitDt" type="WireInitDt_Type" minOccurs="0"/>
        <xsd:element name="WireInitTime" type="WireInitTime_Type" minOccurs="0"/>
        <xsd:element name="IntnetFinInstId" type="IntnetFinInstId_Type" minOccurs="0"/>
        <xsd:sequence minOccurs="0">
          <xsd:element name="Ver_1" type="Ver_1_CType"/>
          <xsd:element name="WireSchedId" type="WireSchedId_Type" minOccurs="0"/>
          <xsd:sequence minOccurs="0">
            <xsd:element name="Ver_2" type="Ver_2_CType"/>
            <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
              maxOccurs="unbounded"/>
```

```
            </xsd:sequence>
        </xsd:sequence>
    </xsd:complexType>

<xsd:element ref="WireTrnAdd">
                                    <xsd:annotation>
                                        <xsd:documentation>All Wire services moved from the TPG_TransactionMaster.xsd
10/27/2022</xsd:documentation>
                                        <xsd:documentation>
                                            <Deprecate>
                                                <Dt>2025-05-01</Dt>
                                                <Cmnt>The Wire Transaction Addition is being  replaced by the ISO
transaction services.  This includes WireTrnISOAdd, WireTrnFinInstISOAdd, and WireDrwdwnTrnAdd.</Cmnt>
                                            </Deprecate>
                                        </xsd:documentation>
                                    </xsd:annotation>
                                </xsd:element>
```

Array Element Definitions

```
    <xsd:complexType name="WireAgentInfoArray_AType">
        <xsd:annotation>
            <xsd:documentation xml:lang="en"> An array of agents as related to a wire transaction
            </xsd:documentation>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element name="WireAgentRec" type="WireAgentRec_CType" minOccurs="0"
                maxOccurs="unbounded" nillable="true"/>
        </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="WireEntityInfoArray_AType">
        <xsd:annotation>
            <xsd:documentation xml:lang="en"> An array of entities as related to a wire transaction
            </xsd:documentation>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element name="WireEntityRec" type="WireEntityRec_CType" minOccurs="0"
                maxOccurs="unbounded" nillable="true"/>
        </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="SvcLvlInfoArray_AType">
        <xsd:annotation>
            <xsd:documentation xml:lang="en"> An array of service levels
            </xsd:documentation>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element name="SvcLvlRec" type="SvcLvlRec_CType" minOccurs="0"
                maxOccurs="unbounded" nillable="true"/>
        </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="InstrInfoArray_AType">
        <xsd:annotation>
            <xsd:documentation xml:lang="en"> An array of instructions as related to the wire transaction
            </xsd:documentation>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element name="InstrRec" type="InstrRec_CType" minOccurs="0"
                maxOccurs="unbounded" nillable="true"/>
        </xsd:sequence>
    </xsd:complexType>
```

```
<xsd:complexType name="WireChgArray_AType">
   <xsd:annotation>
      <xsd:documentation xml:lang="en"> An array of sender charges for wire tag {3700}
      </xsd:documentation>
   </xsd:annotation>
   <xsd:sequence>
      <xsd:element name="WireChgRec" type="WireChgRec_CType" minOccurs="0"
         maxOccurs="unbounded" nillable="true"/>
   </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="RemitDlvryArray_AType">
   <xsd:annotation>
      <xsd:documentation xml:lang="en"> An array of remittance delivery methods
      </xsd:documentation>
   </xsd:annotation>
   <xsd:sequence>
      <xsd:element name="RemitDlvryRec" type="RemitDlvryRec_CType" minOccurs="0"
         maxOccurs="unbounded" nillable="true"/>
   </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="RemitStructureArray_AType">
   <xsd:annotation>
      <xsd:documentation xml:lang="en"> An array of structured remittance information
      </xsd:documentation>
   </xsd:annotation>
   <xsd:sequence>
      <xsd:element name="RemitStructureRec" type="RemitStructureRec_CType" minOccurs="0"
         maxOccurs="unbounded" nillable="true"/>
   </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="InstEntityInfoArray_AType">
   <xsd:annotation>
      <xsd:documentation xml:lang="en"> An array of Institution Entity information as related to a wire transaction
      </xsd:documentation>
   </xsd:annotation>
   <xsd:sequence>
      <xsd:element name="InstEntityRec" type="InstEntityRec_CType" minOccurs="0"
         maxOccurs="unbounded" nillable="true"/>
   </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="RemitDocArray_AType">
   <xsd:annotation>
      <xsd:documentation xml:lang="en"> An array of information related to a remittance document
      </xsd:documentation>
   </xsd:annotation>
   <xsd:sequence>
      <xsd:element name="RemitDocRec" type="RemitDocRec_CType" minOccurs="0"
         maxOccurs="unbounded" nillable="true"/>
   </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="RemitDocDetailsArray_AType">
   <xsd:annotation>
      <xsd:documentation xml:lang="en"> An array of line details as related to a remittance document
      </xsd:documentation>
   </xsd:annotation>
   <xsd:sequence>
      <xsd:element name="RemitDocDetailsRec" type="RemitDocDetailsRec_CType" minOccurs="0"
         maxOccurs="unbounded" nillable="true"/>
   </xsd:sequence>
</xsd:complexType>
```

```
<xsd:complexType name="InvInfoArray_AType">
   <xsd:annotation>
      <xsd:documentation xml:lang="en"> An array of invoice entities as related to a wire transaction
      </xsd:documentation>
   </xsd:annotation>
   <xsd:sequence>
      <xsd:element name="InvRec" type="InvRec_CType" minOccurs="0"
         maxOccurs="unbounded" nillable="true"/>
   </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="DsctAmtArray_AType">
   <xsd:annotation>
      <xsd:documentation xml:lang="en"> An array of discounted amounts for a remittance
      </xsd:documentation>
   </xsd:annotation>
   <xsd:sequence>
      <xsd:element name="DsctAmtRec" type="DsctAmtRec_CType" minOccurs="0"
         maxOccurs="unbounded" nillable="true"/>
   </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="TaxAmtArray_AType">
   <xsd:annotation>
      <xsd:documentation xml:lang="en"> An array of amounts related to taxes
      </xsd:documentation>
   </xsd:annotation>
   <xsd:sequence>
      <xsd:element name="TaxAmtRec" type="TaxAmtRec_CType" minOccurs="0"
         maxOccurs="unbounded" nillable="true"/>
   </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="AdjAmtArray_AType">
   <xsd:annotation>
      <xsd:documentation xml:lang="en"> An array of amounts related to adjustments
      </xsd:documentation>
   </xsd:annotation>
   <xsd:sequence>
      <xsd:element name="AdjAmtRec" type="AdjAmtRec_CType" minOccurs="0"
         maxOccurs="unbounded" nillable="true"/>
   </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="TaxEntityArray_AType">
   <xsd:annotation>
      <xsd:documentation xml:lang="en"> An array of entities as related to taxes
      </xsd:documentation>
   </xsd:annotation>
   <xsd:sequence>
      <xsd:element name="TaxEntityRec" type="TaxEntityRec_CType" minOccurs="0"
         maxOccurs="unbounded" nillable="true"/>
   </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="TaxRecArray_AType">
   <xsd:annotation>
      <xsd:documentation xml:lang="en"> An array of tax recording information
      </xsd:documentation>
   </xsd:annotation>
   <xsd:sequence>
      <xsd:element name="TaxRecInfo" type="TaxRecInfo_CType" minOccurs="0"
         maxOccurs="unbounded" nillable="true"/>
   </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="TaxPeriodArray_AType">
```

```
    <xsd:annotation>
      <xsd:documentation xml:lang="en"> An array of tax recording periods
      </xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="TaxPeriodRec" type="TaxPeriodRec_CType" minOccurs="0"
        maxOccurs="unbounded" nillable="true"/>
    </xsd:sequence>
  </xsd:complexType>

<xsd:complexType name="IdArray_AType">
    <xsd:annotation>
      <xsd:documentation xml:lang="en"> An array of identifications specific to a person
      </xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="IdRec" type="IdRec_CType" minOccurs="0"
        maxOccurs="unbounded" nillable="true"/>
    </xsd:sequence>
  </xsd:complexType>
```

JHA Consumer Extensions

Canonical Element Values

Element Name	Value	Value	Value	Value
WireHighPryType	true	false		
WireLocalTrfType	CustTrf	CustDrwdwn	AcctCustTrf	FinInstTrf
	FinInstDrwdwn	AcctFinInstTrf	CustCoverPmt	AcctCoverPmt
	FinInstDrwdwnRq	CustDrwdwnRq		
WireAgentType	PrevInstrAgent	IntmdAgent	DrAgent	CrAgent
AcctIdCat	IssuerNumId	BankNumId	CHHIPSId	UnvIdCode
WireEntityType	UltmtDrEntity	DrInit	DrEntity	CrEntity
	UltmtCrEntity	CrInit		
InstEntityType	BankId	CentralBankId	ClearingId	CertifCorpId
	CntryId	CustId	DataUnivId	EmplId
	GlobLocId	SREN	SRET	TaxId
	BusDomId	OthBusId		
WireInstrCode	ChkPmt	HoldPmt	PhoneBenf	Telecom
RemitDlvryMthd	Fax	EDIC	URL	Email
	Addr	SMS		
CrRefType	RemitAdviceMsg	PurchOrder	RelPmtInstr	FornExchRef
	DispatchAdvice	StructureCommRef		
InvEntityType	Invr	Invcee		
DsctAmtType	Promotional	Standing	Terms	
TaxAmtType	City	Cntry	Local	Prov
	State			
TaxEntityType	DrEntity	CrEntity	UltmtDrEntity	
TaxPmtPeriod	Month01	Month02	Month03	Month04
	Month05	Month06	Month07	Month08
	Month09	Month10	Month11	Month12
	Qtr01	Qtr02	Qtr03	Qtr04
	Half01	Half02		
ISOIdType	DriverLic	Passport	ResidentAlientId	EmplId
	NatIdNum	TaxId	SSN	CustId

InPersonWireType	true	false		
RemitSubjRuleType	true	false		

Instance Document(s):

Direct Line Wires Adoption of ISO 20022 Services as Provider

Description:	Direct Line Wire adoption of ISO 20022 FedLine wire standards which requires DLW to be the service provider to the services		
Architect:	Mike DeNicola		
Committed Service Provider(s):	DLW		
Potential Consumer Stakeholder(s):	SilverLake CIF 20/20 Core Director		
Potentially Impacted Service Provider(s):	None		
Container(s):	TPG_FedLineMaster.xsd		
EICC Request Id:	381974		
Message(s)/Tracking Id(s)/Approval(s):	FedPinqInq	390394	
	FedTrnISOInq	390395	
	FedRptInq	390396	
Action Taken:	Created new messages Service Dictionary Name <SvcDictName> was updated with canonical values [FedPingInq], [FedTrnISOInq], [FedPingReply] and [FedRptInq]		

Behavior Diagrams:

Behavior:

XSD Schema:

Simple Elements

```
<xsd:complexType name="WireMsgCode_Type">
  <xsd:annotation>
    <xsd:documentation>
      <Jx>
        <ElemDesc> The type of message</ElemDesc>
      </Jx>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:simpleContent>
    <xsd:extension base="OpenEnum_Type">
      <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
      <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="FedRptType_Type">
  <xsd:annotation>
    <xsd:documentation>
      <Jx>
        <ElemDesc> The type of fed report</ElemDesc>
        <CanonicalVal>AcctBal, LTermDetRecv,LTermDetSend,LTermTot</CanonicalVal>
      </Jx>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:simpleContent>
```

```
        <xsd:extension base="ClosedEnum_Type">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

<xsd:complexType name="RptSeq_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>A sequence identifier used as a filter for reports</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string"> </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

<xsd:complexType name="WireSeqNum_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>The sequence number for wires that can be used for ranges</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:decimal">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>
```

Complex Element Definitions

```
<xsd:complexType name="FedPingInqRq_MType">
                <xsd:sequence>
                        <xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
                        <xsd:element name="FedLineHdr" type="FedLineHdr_CType" />
                        <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                        <xsd:sequence minOccurs="0">
                                <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                <xsd:any namespace="##targetNamespace" processContents="lax"
                                        minOccurs="0" maxOccurs="unbounded"/>
                        </xsd:sequence>
                </xsd:sequence>
        </xsd:complexType>

        <xsd:complexType name="FedPingInqRs_MType">
                <xsd:sequence>
                        <xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
                        <xsd:element name="FedLineHdr" type="FedLineHdr_CType" />
                        <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                        <xsd:sequence minOccurs="0">
                                <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                <xsd:element name="RsStat" type="RsStat_Type" minOccurs="0" nillable="true" />
                                <xsd:sequence minOccurs="0">
                                        <xsd:element name="Ver_2" type="Ver_2_CType"/>
                                        <xsd:any namespace="##targetNamespace" processContents="lax"
                                                minOccurs="0" maxOccurs="unbounded"/>
                                </xsd:sequence>
                        </xsd:sequence>
```

```
                </xsd:sequence>
        </xsd:complexType>

<xsd:complexType name="FedTrnISOInqRq_MType">
                <xsd:sequence>
                        <xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
                        <xsd:element name="FedLineHdr" type="FedLineHdr_CType" />
                        <xsd:element name="MsgId" type="MsgId_Type" />
                        <xsd:element name="MsgRtType" type="MsgRtType_Type" />
                        <xsd:element name="OrigWireCrtTimeDt" type="WireCrtTimeDt_Type" />
                        <xsd:element name="WireMsgCode" type="WireMsgCode_Type" />
                        <xsd:element name="StartSeqNum" type="WireSeqNum_Type" minOccurs="0" nillable="true" />
                        <xsd:element name="EndSeqNum" type="WireSeqNum_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="IMAD" type="MAD_Type" minOccurs="0"  nillable="true"/>
                        <xsd:element name="OMAD" type="MAD_Type" minOccurs="0"  nillable="true"/>
                        <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                        <xsd:sequence minOccurs="0">
                                <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                <xsd:any namespace="##targetNamespace" processContents="lax"
                                        minOccurs="0" maxOccurs="unbounded"/>
                        </xsd:sequence>
                </xsd:sequence>
        </xsd:complexType>

        <xsd:complexType name="FedTrnISOInqRs_MType">
                <xsd:sequence>
                        <xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
                        <xsd:element name="FedLineHdr" type="FedLineHdr_CType" minOccurs="0" nillable="true" />
                        <xsd:element name="RsStat" type="RsStat_Type" minOccurs="0" nillable="true" />
                        <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                        <xsd:sequence minOccurs="0">
                                <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                <xsd:any namespace="##targetNamespace" processContents="lax"
                                        minOccurs="0" maxOccurs="unbounded"/>
                        </xsd:sequence>
                </xsd:sequence>
        </xsd:complexType>

<xsd:complexType name="FedRptInqRq_MType">
                <xsd:sequence>
                        <xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
                        <xsd:element name="FedLineHdr" type="FedLineHdr_CType" />
                        <xsd:element name="FedRptType" type="FedRptType_Type" />
                        <xsd:element name="AcctBalType" type="AcctBalType_Type" minOccurs="0" nillable="true" >
                                <xsd:annotation>
                                <xsd:documentation>The [AcctBalType] element will be ignored when the FedRptType not equal to
[AcctBal] </xsd:documentation>
                                </xsd:annotation>
                        </xsd:element>

                        <xsd:element name="StartRptSeq" type="RptSeq_Type" minOccurs="0" nillable="true" >
                                <xsd:annotation>
                                        <xsd:documentation>Only valid for the LTermDet reports</xsd:documentation>
                                </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="EndRptSeq" type="RptSeq_Type" minOccurs="0" nillable="true" >
                                <xsd:annotation>
                                        <xsd:documentation>Only valid for the LTermDet reports</xsd:documentation>
                                </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                        <xsd:sequence minOccurs="0">
                                <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                <xsd:any namespace="##targetNamespace" processContents="lax"
                                        minOccurs="0" maxOccurs="unbounded"/>
                        </xsd:sequence>
```

```
            </xsd:sequence>
        </xsd:complexType>

        <xsd:complexType name="FedRptInqRs_MType">
            <xsd:sequence>
                <xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
                <xsd:element name="FedLineHdr" type="FedLineHdr_CType" minOccurs="0" nillable="true" />
                <xsd:element name="RsStat" type="RsStat_Type" minOccurs="0" nillable="true" />
                <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                <xsd:sequence minOccurs="0">
                    <xsd:element name="Ver_1" type="Ver_1_CType"/>
                    <xsd:any namespace="##targetNamespace" processContents="lax"
                        minOccurs="0" maxOccurs="unbounded"/>
                </xsd:sequence>
            </xsd:sequence>
        </xsd:complexType>
```

Array Element Definitions

JHA Consumer Extensions

Canonical Element Values

Element Name	Value	Value	Value	Value
FedRptType	AcctBal	LTermDetRecv	LTermDetSend	LTermTot

Instance Document(s):

Direct Line Wires Adoption of ISO 20022 Services as Consumer

Description:	Direct Line Wire adoption of ISO 20022 FedLine wire standards which requires DLW to be the consumer of the services	
Architect:	Mike DeNicola	
Committed Service Provider(s):	SilverLake	
Potential Consumer Stakeholder(s):	DLW	
Potentially Impacted Service Provider(s):	CIF 20/20 Core Director	
Container(s):	TPG_FedLineMaster.xsd	
EICC Request Id:	381974	
Message(s)/Tracking Id(s)/Approval(s):	FedWireTrnISOAck	390397
	FedWireRetRsISOReply	390398
	FinInstAcctBalISORptReply	390399
	FedActISORptReply	390400
	LTermISORptDetailsReply	390401
	LTermISOGapRptReply	390402
	LTermISORptTotReply	390403
	FedPingReply	397264
Action Taken:	Created new messages Service Dictionary Name <SvcDictName> was updated with canonical values [FedWireTrnISOAck],	

	[FedWireRetRsISOReply], [FinInstAcctBalISORptReply], [FedActISORptReply], [LTermISORptDetailsReply], [LTermISOGapRptReply], [FedPingReply] and [LTermISORptTotReply]

Behavior Diagrams:

Behavior:

The entity that sends the Ping acknowledgement for the FedPingReply has the discretion to return either [Fail] or [Pending] depending on the wait variables determined by the sender.

XSD Schema:

Simple Elements

```
<xsd:complexType name="OrigMsgCode_Type">
  <xsd:annotation>
    <xsd:documentation>
      <Jx>
        <ElemDesc>The original message type </ElemDesc>
      </Jx>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:simpleContent>
    <xsd:extension base="xsd:string">
      <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
      <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="WireTrnStat_Type">
  <xsd:annotation>
    <xsd:documentation>
      <Jx>
        <ElemDesc>The status of a wire transaction</ElemDesc>
        <CanonicalVal>Pend,Fail,Success</CanonicalVal>
      </Jx>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:simpleContent>
    <xsd:extension base="ClosedEnum_Type">
      <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
      <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="WireFailTimeDt_Type">
  <xsd:annotation>
    <xsd:documentation>
      <Jx>
        <ElemDesc>The time/date stamp a wire transaction failed</ElemDesc>
      </Jx>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:simpleContent>
    <xsd:extension base="xsd:dateTime"> </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="WireTrnStatDesc_Type">
  <xsd:annotation>
    <xsd:documentation>
      <Jx>
        <ElemDesc>The description of the status of a wire transaction</ElemDesc>
      </Jx>
    </xsd:documentation>
  </xsd:annotation>
```

```
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="RetRqStat_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>The status of a request to return a wire</ElemDesc>
            <CanonicalVal>Pend,Rej,Apprv,PartApprv</CanonicalVal>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="ClosedEnum_Type">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="CancelRsRsnType_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>The status of the response to return a wire</ElemDesc>

<CanonicalVal>AcctCls,PendCustAuth,AgentDiscr,NSF,RetProc,PendReply,PendCustRs,PendLegal,Misc,NoCustRs,MissingOrigTrn,TrfAgent,Rq
DrAuth,InvalidSeq</CanonicalVal>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="ClosedEnum_Type">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

<xsd:complexType name="CancelRsRsnDesc_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc> The description of the status of the response to return a wire</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>


    <xsd:complexType name="PgNum_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>page number</ElemDesc>
          </Jx>
```

```
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:int">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="LastPgType_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>Is this the last page?</ElemDesc>
          <CanonicalVal>true,false</CanonicalVal>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="ClosedEnum_Type">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="RptCrtTimeDt_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>The time/date stamp a report was created</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:dateTime"> </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="RptBalType_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>Identifies the type of balance report</ElemDesc>
          <CanonicalVal>AcctBal,AvlBal,DayODAvlBal,DayODBal,FinalOpenBal,OpenBal,PriorDayOpenBal</CanonicalVal>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="ClosedEnum_Type">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="RptBalTypeDesc_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>The description that identifies the type of balance report</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
```

```
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

<xsd:complexType name="AcctBalRptType_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>Identifies the type of balance report</ElemDesc>
               <CanonicalVal>MasterAcctBal,Final,Interim,Open,Periodic,Provisional</CanonicalVal>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="ClosedEnum_Type">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>


   <xsd:complexType name="CashBal_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>The cash balance</ElemDesc>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="xsd:decimal">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

   <xsd:complexType name="LOCBal_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>The line of credit balance</ElemDesc>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="xsd:decimal">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

   <xsd:complexType name="LOCInclType_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>Is the line of credit included in the calculations</ElemDesc>
               <CanonicalVal>true,false</CanonicalVal>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="ClosedEnum_Type">
```

```
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

   <xsd:complexType name="LOCType_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>Identifies the type of balance report</ElemDesc>
               <CanonicalVal>CollatCap,CollatDayOD,CollatAvl,NetDrCap,UnCollatDayOD</CanonicalVal>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="ClosedEnum_Type">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

   <xsd:complexType name="BalCycleTimeDt_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>The time/date stamp of a balance cycle</ElemDesc>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="xsd:dateTime"> </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

   <xsd:complexType name="TrnTimeDt_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>The time/date stamp of the transaction</ElemDesc>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="xsd:dateTime"> </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

   <xsd:complexType name="ActRptType_Type">
      <xsd:annotation>
         <xsd:documentation>
            <Jx>
               <ElemDesc>Identifies the type of activity report</ElemDesc>
               <CanonicalVal>EndDay,IntraDay</CanonicalVal>
            </Jx>
         </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
         <xsd:extension base="ClosedEnum_Type">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
            <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
         </xsd:extension>
      </xsd:simpleContent>
   </xsd:complexType>

   <xsd:complexType name="FedStatType_Type">
```

```
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>Identifies the type of status</ElemDesc>
          <CanonicalVal>TrnBook,TrnInfo,Failed,Pend</CanonicalVal>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="ClosedEnum_Type">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="WireUETR_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>Universally unique identifier to provide an end-to-end reference</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="GapRptType_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>Identifies the type of endpoint gap report</ElemDesc>
          <CanonicalVal>IMAD,OMAD</CanonicalVal>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="ClosedEnum_Type">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="FedChanCode_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>Fed Channel code for transaction delivery</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="OpenEnum_Type">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="CashBalTimeDt_Type">
    <xsd:annotation>
```

```
        <xsd:documentation>
          <Jx>
            <ElemDesc>The time/date stamp of the reported cash balance</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:dateTime"> </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

  <xsd:complexType name="PingAckType_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc> The type of response to a ping request</ElemDesc>
            <CanonicalVal>Success,Pending,Fail</CanonicalVal>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="ClosedEnum_Type"> </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

<xsd:complexType name="FedMsgCode_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc> The code that defines the named Fed ISO message</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="OpenEnum_Type"> </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

<xsd:complexType name="CancelRsId_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>PENDING - An identifier given to the response to a cancel request</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>
```

Complex Element Definitions

```
<xsd:complexType name="WireTrnStatInfoRec_CType">
                <xsd:sequence>
                        <xsd:element name="WireTrnStatDesc" type="WireTrnStatDesc_Type" minOccurs="0"/>
                        <xsd:element name="WireTrnStatRmk" type="Rmk_Type" minOccurs="0"/>
                        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
                        <xsd:sequence minOccurs="0">
                                <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                                        maxOccurs="unbounded"/>
                        </xsd:sequence>
                </xsd:sequence>
        </xsd:complexType>
```

```
<xsd:complexType name="FedWireTrnISOAckRq_MType">
<xsd:sequence>
		<xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
		<xsd:element name="FedLineHdr" type="FedLineHdr_CType" />
		<xsd:element name="OMAD" type="MAD_Type" minOccurs="0" nillable="true" >
			<xsd:annotation>
				<xsd:documentation>[OMAD] and [MsgId] are part of a documented choice whereas both are optional but at least one is required</xsd:documentation>
			</xsd:annotation>
		</xsd:element>
		<xsd:element name="MsgId" type="MsgId_Type" minOccurs="0" nillable="true" />
		<xsd:element name="FedMsgCode" type="FedMsgCode_Type" minOccurs="0" nillable="true" />
		<xsd:element name="FedDupType" type="FedDupType_Type" minOccurs="0" nillable="true" />
		<xsd:element name="IMAD" type="MAD_Type" minOccurs="0" nillable="true" />
		<xsd:element name="WireUETR" type="WireUETR_Type" minOccurs="0" nillable="true" />
		<xsd:element name="OrigMsgCode" type="OrigMsgCode_Type" minOccurs="0" nillable="true" />
		<xsd:element name="OrigCrtTimeDt" type="WireCrtTimeDt_Type" minOccurs="0" nillable="true" />
		<xsd:element name="WireTrnStat" type="WireTrnStat_Type" minOccurs="0" nillable="true" />
		<xsd:element name="TrnAcptTimeDt" type="TrnAcptTimeDt_Type" minOccurs="0" nillable="true" />
		<xsd:element name="WireSttlTimeDt" type="WireSttlTimeDt_Type" minOccurs="0" nillable="true" />
		<xsd:element name="WireFailTimeDt" type="WireFailTimeDt_Type" minOccurs="0" nillable="true" />
		<xsd:element name="WireTrnStatArray" type="WireTrnStatArray_AType" minOccurs="0" nillable="true" />
		<xsd:sequence minOccurs="0">
			<xsd:element name="Ver_1" type="Ver_1_CType"/>
			<xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
				maxOccurs="unbounded"/>
		</xsd:sequence>
</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="FedWireTrnISOAckRs_MType">
		<xsd:sequence>
			<xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
			<xsd:element name="FedLineHdr" type="FedLineHdr_CType" minOccurs="0" nillable="true"/>
			<xsd:element name="RsStat" type="RsStat_Type"  minOccurs="0" nillable="true"/>
			<xsd:sequence minOccurs="0">
				<xsd:element name="Ver_1" type="Ver_1_CType"/>
				<xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
					maxOccurs="unbounded"/>
			</xsd:sequence>
		</xsd:sequence>
</xsd:complexType>


<xsd:complexType name="FedWireRetRsISOReplyRq_MType">
		<xsd:sequence>
			<xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
			<xsd:element name="FedLineHdr" type="FedLineHdr_CType" />
			<xsd:element name="OrignFinInstRtId" type="InstRtId_Type"/>
			<xsd:element name="IMAD" type="MAD_Type" />
			<xsd:element name="TrnAcptTimeDt" type="TrnAcptTimeDt_Type"  />
			<xsd:element name="RetRsInfo" type="RetRsInfo_CType" />
			<xsd:element name="RetRqStat" type="RetRqStat_Type" />
			<xsd:element name="RetRqMsgId" type="MsgId_Type" />
			<xsd:element name="OrigTrnInfo" type="OrigTrnInfo_CType" />
			<xsd:element name="CancelRsInfoArray" type="CancelRsInfoArray_AType" minOccurs="0" nillable="true" />
			<xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
			<xsd:sequence minOccurs="0">
				<xsd:element name="Ver_1" type="Ver_1_CType"/>
				<xsd:any namespace="##targetNamespace" processContents="lax"
					minOccurs="0" maxOccurs="unbounded"/>
			</xsd:sequence>
		</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="FedWireRetRsISOReplyRs_MType">
```

```
            <xsd:sequence>
                  <xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
                  <xsd:element name="RsStat" type="RsStat_Type" minOccurs="0" nillable="true"/>
                  <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                  <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                              maxOccurs="unbounded"/>
                  </xsd:sequence>
            </xsd:sequence>
      </xsd:complexType>

      <xsd:complexType name="FedLOCRec_CType">
            <xsd:sequence>
                  <xsd:element name="LOCInclType" type="LOCInclType_Type" minOccurs="0" />
                  <xsd:element name="LOCType" type="LOCType_Type" minOccurs="0" />
                  <xsd:element name="LOCBal" type="LOCBal_Type" minOccurs="0" />
                  <xsd:element name="BalCycleTimeDt" type="BalCycleTimeDt_Type" minOccurs="0" />
                  <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
                  <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                              maxOccurs="unbounded"/>
                  </xsd:sequence>
            </xsd:sequence>
      </xsd:complexType>



      <xsd:complexType name="RptBalTypeRec_CType">
            <xsd:sequence>
                  <xsd:element name="RptBalType" type="RptBalType_Type" />
                  <xsd:element name="RptBalTypeDesc" type="RptBalTypeDesc_Type" minOccurs="0" />
                  <xsd:element name="CashBal" type="CashBal_Type" minOccurs="0" />
                  <xsd:element name="DrCr" type="DrCr_Type" minOccurs="0" />
                  <xsd:element name="CashBalTimeDt" type="CashBalTimeDt_Type" minOccurs="0" />
                  <xsd:element name="FedLOCArray" type="FedLOCArray_AType" minOccurs="0" />
                  <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
                  <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                              maxOccurs="unbounded"/>
                  </xsd:sequence>
            </xsd:sequence>
      </xsd:complexType>

      <xsd:complexType name="TrnSumRec_CType">
            <xsd:sequence>
                  <xsd:element name="TrnNetAmt" type="TrnAmt_Type" minOccurs="0" />
                  <xsd:element name="TrnNetCnt" type="TrnCnt_Type" minOccurs="0" />
                  <xsd:element name="DrCr" type="DrCr_Type" minOccurs="0" />
                  <xsd:element name="CrTrnCnt" type="TrnCnt_Type" minOccurs="0" />
                  <xsd:element name="CrTrnAmt" type="TrnAmt_Type" minOccurs="0" />
                  <xsd:element name="DrTrnCnt" type="TrnCnt_Type" minOccurs="0" />
                  <xsd:element name="DrTrnAmt" type="TrnAmt_Type" minOccurs="0" />
                  <xsd:element name="TrnCodeCode" type="TrnCodeCode_Type" minOccurs="0" />
                  <xsd:element name="TrnCodeDesc" type="TrnCodeDesc_Type" minOccurs="0" />
                  <xsd:element name="TrnCnt" type="TrnCnt_Type" minOccurs="0" />
                  <xsd:element name="TrnTimeDt" type="TrnTimeDt_Type" minOccurs="0" />
                  <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
                  <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                              maxOccurs="unbounded"/>
                  </xsd:sequence>
            </xsd:sequence>
      </xsd:complexType>
```

```
<xsd:complexType name="FinInstAcctBalISORptReplyRq_MType">
	<xsd:sequence>
		<xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
		<xsd:element name="FedLineHdr" type="FedLineHdr_CType" />
		<xsd:element name="PgNum" type="PgNum_Type" />
		<xsd:element name="LastPgType" type="LastPgType_Type" />
		<xsd:element name="FedRptType" type="FedRptType_Type" />
		<xsd:element name="RptCrtTimeDt" type="RptCrtTimeDt_Type" />
		<xsd:element name="AcctBalRptType" type="AcctBalRptType_Type" />
		<xsd:element name="RptRmk" type="Rmk_Type" />
		<xsd:element name="RptBalTypeArray" type="RptBalTypeArray_AType" />
		<xsd:element name="TrnSumArray" type="TrnSumArray_AType" />
		<xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
		<xsd:sequence minOccurs="0">
			<xsd:element name="Ver_1" type="Ver_1_CType"/>
			<xsd:any namespace="##targetNamespace" processContents="lax"
				minOccurs="0" maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="FinInstAcctBalISORptReplyRs_MType">
	<xsd:sequence>
		<xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
		<xsd:element name="FedLineHdr" type="FedLineHdr_CType" minOccurs="0" nillable="true" />
		<xsd:element name="RsStat" type="RsStat_Type" minOccurs="0" nillable="true" />
		<xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
		<xsd:sequence minOccurs="0">
			<xsd:element name="Ver_1" type="Ver_1_CType"/>
			<xsd:any namespace="##targetNamespace" processContents="lax"
				minOccurs="0" maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="RptEntryRec_CType">
	<xsd:sequence>
		<xsd:element name="TrnAmt" type="TrnAmt_Type" minOccurs="0" />
		<xsd:element name="DrCr" type="DrCr_Type" minOccurs="0" />
		<xsd:element name="TrnCodeCode" type="TrnCodeCode_Type" minOccurs="0" />
		<xsd:element name="TrnCodeDesc" type="TrnCodeDesc_Type" minOccurs="0" />
		<xsd:element name="TrnStatType" type="FedStatType_Type" minOccurs="0" />
		<xsd:element name="TrnRmk" type="Rmk_Type" minOccurs="0" />
		<xsd:element name="IMAD" type="MAD_Type" minOccurs="0" />
		<xsd:element name="WireInstrId" type="WireInstrId_Type" minOccurs="0" />
		<xsd:element name="WireUETR" type="WireUETR_Type" minOccurs="0" />
		<xsd:element name="OMAD" type="MAD_Type" minOccurs="0" />
		<xsd:element name="OrignChanCode" type="FedChanCode_Type" minOccurs="0" />
		<xsd:element name="OrignFinInstRtId" type="FinInstRtId_Type" minOccurs="0" />
		<xsd:element name="RecvChanCode" type="FedChanCode_Type" minOccurs="0" />
		<xsd:element name="RecvFinInstRtId" type="FinInstRtId_Type" minOccurs="0" />
		<xsd:element name="LocalTrfType" type="WireLocalTrfType_Type" minOccurs="0" />
		<xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
		<xsd:sequence minOccurs="0">
			<xsd:element name="Ver_1" type="Ver_1_CType"/>
			<xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
				maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:sequence>
</xsd:complexType>


<xsd:complexType name="FedActISORptReplyRq_MType">
	<xsd:sequence>
		<xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
		<xsd:element name="FedLineHdr" type="FedLineHdr_CType" />
```

```
                <xsd:element name="PgNum" type="PgNum_Type" />
                <xsd:element name="LastPgType" type="LastPgType_Type" />
                <xsd:element name="ActRptType" type="ActRptType_Type" />
                <xsd:element name="RptCrtTimeDt" type="RptCrtTimeDt_Type" />
                <xsd:element name="TrnSumRec" type="TrnSumRec_CType" />
                <xsd:element name="TrnSumArray" type="TrnSumArray_AType" />
                <xsd:element name="RptEntryArray" type="RptEntryArray_AType" />
                <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax"
                                minOccurs="0" maxOccurs="unbounded"/>
                </xsd:sequence>
        </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="FedActISORptReplyRs_MType">
        <xsd:sequence>
                <xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
                <xsd:element name="FedLineHdr" type="FedLineHdr_CType" minOccurs="0" nillable="true" />
                <xsd:element name="RsStat" type="RsStat_Type" minOccurs="0" nillable="true" />
                <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax"
                                minOccurs="0" maxOccurs="unbounded"/>
                </xsd:sequence>
        </xsd:sequence>
</xsd:complexType>


<xsd:complexType name="LTermISORptDetailsReplyRq_MType">
        <xsd:sequence>
                <xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
                <xsd:element name="FedLineHdr" type="FedLineHdr_CType" />
                <xsd:element name="PgNum" type="PgNum_Type" />
                <xsd:element name="LastPgType" type="LastPgType_Type" />
                <xsd:element name="ActRptType" type="ActRptType_Type" />
                <xsd:element name="RptCrtTimeDt" type="RptCrtTimeDt_Type" />
                <xsd:element name="TrnSumArray" type="TrnSumArray_AType" />
                <xsd:element name="RptEntryArray" type="RptEntryArray_AType" />
                <xsd:element name="StartRptSeq" type="RptSeq_Type"  />
                <xsd:element name="EndRptSeq" type="RptSeq_Type"  />
                <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax"
                                minOccurs="0" maxOccurs="unbounded"/>
                </xsd:sequence>
        </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="LTermISORptDetailsReplyRs_MType">
        <xsd:sequence>
                <xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
                <xsd:element name="FedLineHdr" type="FedLineHdr_CType" minOccurs="0" nillable="true" />
                <xsd:element name="RsStat" type="RsStat_Type" minOccurs="0" nillable="true" />
                <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax"
                                minOccurs="0" maxOccurs="unbounded"/>
                </xsd:sequence>
        </xsd:sequence>
</xsd:complexType>
```

```
<xsd:complexType name="ISOGapRptInfo_CType">
	<xsd:sequence>
		<xsd:element name="GapRptType" type="GapRptType_Type" />
		<xsd:element name="RptCrtTimeDt" type="RptCrtTimeDt_Type" />
		<xsd:element name="LTermId" type="LTermId_Type"/>
		<xsd:element name="GapRptRmk" type="Rmk_Type" />
		<xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
		<xsd:sequence minOccurs="0">
			<xsd:element name="Ver_1" type="Ver_1_CType"/>
			<xsd:any namespace="##targetNamespace" processContents="lax"
				minOccurs="0" maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:sequence>
</xsd:complexType>


<xsd:complexType name="LTermISOGapRptReplyRq_MType">
	<xsd:sequence>
		<xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
		<xsd:element name="FedLineHdr" type="FedLineHdr_CType" />
		<xsd:element name="PgNum" type="PgNum_Type" />
		<xsd:element name="LastPgType" type="LastPgType_Type" />
		<xsd:element name="ISOGapRptArray" type="ISOGapRptArray_AType" />
		<xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
		<xsd:sequence minOccurs="0">
			<xsd:element name="Ver_1" type="Ver_1_CType"/>
			<xsd:any namespace="##targetNamespace" processContents="lax"
				minOccurs="0" maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="LTermISOGapRptReplyRs_MType">
	<xsd:sequence>
		<xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
		<xsd:element name="FedLineHdr" type="FedLineHdr_CType" minOccurs="0" nillable="true" />
		<xsd:element name="RsStat" type="RsStat_Type" minOccurs="0" nillable="true" />
		<xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
		<xsd:sequence minOccurs="0">
			<xsd:element name="Ver_1" type="Ver_1_CType"/>
			<xsd:any namespace="##targetNamespace" processContents="lax"
				minOccurs="0" maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="LTermISORptTotReplyRq_MType">
	<xsd:sequence>
		<xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
		<xsd:element name="FedLineHdr" type="FedLineHdr_CType" />
		<xsd:element name="PgNum" type="PgNum_Type" />
		<xsd:element name="LastPgType" type="LastPgType_Type" />
		<xsd:element name="ActRptType" type="ActRptType_Type" />
		<xsd:element name="RptCrtTimeDt" type="RptCrtTimeDt_Type" />
		<xsd:element name="TrnSumArray" type="TrnSumArray_AType" />
		<xsd:element name="RptRmk" type="Rmk_Type"  />
		<xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
		<xsd:sequence minOccurs="0">
			<xsd:element name="Ver_1" type="Ver_1_CType"/>
			<xsd:any namespace="##targetNamespace" processContents="lax"
				minOccurs="0" maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="LTermISORptTotReplyRs_MType">
	<xsd:sequence>
```

```
                        <xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
                        <xsd:element name="FedLineHdr" type="FedLineHdr_CType" minOccurs="0" nillable="true" />
                        <xsd:element name="RsStat" type="RsStat_Type" minOccurs="0" nillable="true" />
                        <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                        <xsd:sequence minOccurs="0">
                                <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                <xsd:any namespace="##targetNamespace" processContents="lax"
                                        minOccurs="0" maxOccurs="unbounded"/>
                        </xsd:sequence>
                </xsd:sequence>
        </xsd:complexType>

<xsd:complexType name="FedPingReplyRq_MType">
                <xsd:sequence>
                        <xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
                        <xsd:element name="FedLineHdr" type="FedLineHdr_CType" />
                        <xsd:element name="PingAckType" type="PingAckType_Type" />
                        <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                        <xsd:sequence minOccurs="0">
                                <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                <xsd:any namespace="##targetNamespace" processContents="lax"
                                        minOccurs="0" maxOccurs="unbounded"/>
                        </xsd:sequence>
                </xsd:sequence>
        </xsd:complexType>

        <xsd:complexType name="FedPingReplyRs_MType">
                <xsd:sequence>
                        <xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
                        <xsd:element name="FedLineHdr" type="FedLineHdr_CType" minOccurs="0" nillable="true" />
                        <xsd:element name="RsStat" type="RsStat_Type" minOccurs="0" nillable="true" />
                        <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                        <xsd:sequence minOccurs="0">
                                <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                <xsd:any namespace="##targetNamespace" processContents="lax"
                                        minOccurs="0" maxOccurs="unbounded"/>
                        </xsd:sequence>
                </xsd:sequence>
        </xsd:complexType>

 <xsd:complexType name="CancelRsInfo_CType">
    <xsd:sequence>
      <xsd:element name="CancelRsId" type="CancelRsId_Type"/>
      <xsd:element name="Name" type="ComName_Type"/>
      <xsd:element name="AddrISO" type="AddrISO_CType" minOccurs="0"/>
      <xsd:element name="InstBIC" type="InstBIC_Type" minOccurs="0"/>
      <xsd:element name="InstEntityInfoArray" type="InstEntityInfoArray_AType"/>
      <xsd:element name="InstLegalEntityId" type="InstLegalEntityId_Type" minOccurs="0"/>
      <xsd:element name="InstEntityIssr" type="InstEntityIssr_Type" minOccurs="0"/>
      <xsd:element name="PersonIdInfo" type="PersonIdInfo_CType" minOccurs="0"/>
      <xsd:element name="ResCntryType" type="CntryType_Type" minOccurs="0"/>
      <xsd:element name="CancelRsRsnType" type="CancelRsRsnType_Type"/>
      <xsd:element name="CancelRsRsnDesc" type="CancelRsRsnDesc_Type"/>

      <xsd:element name="CancelRsRmkArray" type="Rmk_AType" minOccurs="0"/>
      <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
      <xsd:sequence minOccurs="0">
        <xsd:element name="Ver_1" type="Ver_1_CType"/>
        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
          maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:sequence>
  </xsd:complexType>
```

Array Element Definitions

```
<xsd:complexType name="WireTrnStatArray_AType">
        <xsd:annotation>
            <xsd:documentation xml:lang="en"> An array of statuses as related to wire transactions
            </xsd:documentation>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element name="WireTrnStatInfoRec" type="WireTrnStatInfoRec_CType" minOccurs="0"
                maxOccurs="unbounded" nillable="true"/>
        </xsd:sequence>
    </xsd:complexType>

<xsd:complexType name="RptEntryArray_AType">
        <xsd:annotation>
            <xsd:documentation xml:lang="en"> An array of entries for reporting
            </xsd:documentation>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element name="RptEntryRec" type="RptEntryRec_CType" minOccurs="0"
                maxOccurs="unbounded" nillable="true"/>
        </xsd:sequence>
    </xsd:complexType>

<xsd:complexType name="TrnSumArray_AType">
        <xsd:annotation>
            <xsd:documentation xml:lang="en"> An array of transaction summaries
            </xsd:documentation>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element name="TrnSumRec" type="TrnSumRec_CType" minOccurs="0"
                maxOccurs="unbounded" nillable="true"/>
        </xsd:sequence>
    </xsd:complexType>


    <xsd:complexType name="RptBalTypeArray_AType">
        <xsd:annotation>
            <xsd:documentation xml:lang="en"> An array of different account balance reports
            </xsd:documentation>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element name="RptBalTypeRec" type="RptBalTypeRec_CType" minOccurs="0"
                maxOccurs="unbounded" nillable="true"/>
        </xsd:sequence>
    </xsd:complexType>

<xsd:complexType name="FedLOCArray_AType">
        <xsd:annotation>
            <xsd:documentation xml:lang="en"> An array of fed line of credits
            </xsd:documentation>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element name="FedLOCRec" type="FedLOCRec_CType" minOccurs="0"
                maxOccurs="unbounded" nillable="true"/>
        </xsd:sequence>
    </xsd:complexType>

  <xsd:complexType name="CancelRsInfoArray_AType">
     <xsd:annotation>
        <xsd:documentation xml:lang="en"> An array of cancellation reasons specific to wires
        </xsd:documentation>
     </xsd:annotation>
     <xsd:sequence>
        <xsd:element name="CancelRsInfo" type="CancelRsInfo_CType" minOccurs="0"
          maxOccurs="unbounded" nillable="true"/>
     </xsd:sequence>
  </xsd:complexType>
```

```
<xsd:complexType name="ISOGapRptArray_AType">
        <xsd:annotation>
            <xsd:documentation xml:lang="en"> An array of reports related to the ISO gap report
            </xsd:documentation>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element name="ISOGapRptInfo" type="ISOGapRptInfo_CType" minOccurs="0"
                maxOccurs="unbounded" nillable="true"/>
        </xsd:sequence>
    </xsd:complexType>
```

JHA Consumer Extensions

Canonical Element Values

Element Name	Value	Value	Value	Value
WireTrnStat	Pend	Fail	Success	
RetRqStat	Pend	Rej	Apprv	PartApprv
CancelRsRsnType	AcctCls	PendCustAuth	AgentDiscr	NSF
	RetProc	PendReply	PendCustRs	PendLegal
	Misc	NoCustRs	MissingOrigTrn	TrfAgent
	RqDrAuth	InvalidSeq		
LastPgType	true	false		
RptBalType	AcctBal	AvlBal	DayODAvlBal	DayODBal
	FinalOpenBal	OpenBal	PriorDayOpenBal	
LOCInclType	true	false		
PingAckType	Success	Fail	Pending	
AcctBalRptType	MasterAcctBal	Final	Interim	Open
	Periodic	Provisional		

Instance Document(s):

Wire Suite of Services to ISO Format

Description:	Iteration to the wire suite of services to bring inline with ISO formatting		
Architect:	Mike DeNicola		
Committed Service Provider(s):	SilverLake		
Potential Consumer Stakeholder(s):			
Potentially Impacted Service Provider(s):	CIF 20/20 Core Director		
Container(s):	TPG_WireMaster.xsd		
EICC Request Id:	390599		
Message(s)/Tracking Id(s)/Approval(s):	WireTrnInq	391344	
	WireTrnISOMod	391346	
Action Taken:	The Wire Transaction Inquiry root response (WireTrnInqRs_MType) was updated with the complexes Wire Transaction ISO Inquiry Record (WireTrnISOInqRec_CType), Wire Transaction Financial Institution ISO Inquiry Record		

(WireTrnFinInstISOInqRec_CType), and Wire Transaction Drawdown Inquiry Record (WireTrnDrwdwnInqRec_CType)

Created new message for WireTrnISOMod,

The Service Dictionary Name element <SvcDictName> was update with the [WireTrnISOMod]

The Wire Type <WireType> element canonical values were updated.

Behavior Diagrams:

Behavior:

The Wire Transaction Modification services root request message (WireTrnISOModRq_Mtype, WireTrnFinInstISOModRq_MType, and WireDrwdwnTrnModRq_MType) requires Transaction Receipt Identifier <TrnRcptId> and Activity Intention key <ActIntentKey>.

The Wire Transaction Modification services root request message (WireTrnISOModRq_Mtype, WireTrnFinInstISOModRq_MType, and WireDrwdwnTrnModRq_MType) optionally includes Wire Transaction Information Record complex (WireTrnISOInfoRec_Ctype, WireTrnFinInstISOModRec_CType, and WireTrnDrwdwnModRec_Ctype), Wire User Identifier <WireUsrId>, Wire Verification Identifier <WireVerifId>, Delete <Dlt>, and Modification Remark Array (ModRmkArray_AType).

The Delete Element <Dlt>true</Dlt> should convey to the service provider to delete the Wire transaction as related to the key included in the request.

The standard tenets for modification services are applicable Adhere to the tenets for fault reporting

Adhere to the tenets related to the Concurrency model

Adhere to the tenets related to the correlation identifications

Adhere to the tenets related to the JHANull attribute

XSD Schema:

Simple Elements

```
<xsd:complexType name="WireType_Type">
  <xsd:annotation>
    <xsd:documentation>
      <Jx>
        <ElemDesc>Identifies the type of the Fedwire Funds Transfer message as related
          to FRB operating procedures</ElemDesc>
<CanonicalVal>10,15,16,CustTrf,CustDrwdwn,AcctCustTrf,FinInstTrf,FinInstDrwdwn,AcctFinInstTrf,CustCoverPmt,AcctCoverPmt,
FinInstDrwdwnRq,CustDrwdwnRq</CanonicalVal>
      </Jx>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:simpleContent>
    <xsd:extension base="ClosedEnum_Type"> </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="WireCrtTimeDt_Type">
  <xsd:annotation>
    <xsd:documentation>
      <Jx>
        <ElemDesc>The time and date the wire transaction was created. Expressed in ISO
          8601 time format and should contain either Zulu time or local time and the
          UTC offset. Format: [-]CCYY-MM-DDThh:mm:ss[Z|(+|-)hh:mm] Valid values
          include: 2001-10-26T21:32:52, 2001-10-26T21:32:52+02:00,
```

```
                2001-10-26T19:32:52Z, 2001-10-26T19:32:52+00:00, -2001-10-26T21:32:52, or
                2001-10-26T21:32:52.12679. Examles of same moment: "18:30Z", "22:30+04",
                "1130-0700", and "15:00-03:30 see [ https://www.w3.org/TR/NOTE-datetime or
                http://en.wikipedia.org/wiki/ISO_8601 ] for further reference </ElemDesc>
            </Jx>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
        <xsd:extension base="xsd:dateTime">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

 <xsd:complexType name="WireCorrelId_Type">
    <xsd:annotation>
        <xsd:documentation>
            <Jx>
                <ElemDesc>The client assigned correlation identification for wire
                activities</ElemDesc>
            </Jx>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
        <xsd:extension base="xsd:string">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

     <xsd:complexType name="WireTrnType_Type">
    <xsd:annotation>
        <xsd:documentation>
            <Jx>
                <ElemDesc>Identifies the wire transactional activity</ElemDesc>
                <CanonicalVal>Incoming,Outgoing,Both</CanonicalVal>
            </Jx>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
        <xsd:extension base="xsd:string">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

 <xsd:complexType name="WireAnlysCode_Type">
    <xsd:annotation>
        <xsd:documentation>
            <Jx>
                <ElemDesc>The code identifies the behavior for account analysis activity for the
                transaction</ElemDesc>
            </Jx>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
        <xsd:extension base="xsd:string">
            <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

<xsd:complexType name="WireStat_Type">
    <xsd:annotation>
        <xsd:documentation>
            <Jx>
```

```
            <ElemDesc>Identifies the status of the wire transaction</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="OpenEnum_Type">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
  </xsd:complexType>

<xsd:complexType name="WireNotType_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>Identifies the behavior for wire notification for a
            transaction</ElemDesc>
          <CanonicalVal>Email,Prt,Fax,None,EmailFax,EmailPrt</CanonicalVal>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="ClosedEnum_Type">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

<xsd:complexType name="WireSrc_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>Identifies the source entry of the wire transaction</ElemDesc>
          <CanonicalVal>FIClerk,Intnet,DirectLine</CanonicalVal>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="ClosedEnum_Type">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

   <xsd:complexType name="WireSchedStat_Type">
    <xsd:annotation>
      <xsd:documentation>
        <ElemDesc> Identifies the status of the future transfer schedule</ElemDesc>
        <CanonicalVal>Active,Expired,Suspended</CanonicalVal>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="ClosedEnum_Type">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="WireInitDt_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc> The date a wire entry was initated</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
```

```
        <xsd:extension base="xsd:date">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

<xsd:complexType name="WireInitTime_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc> The time a wire entry was initated </ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:time">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

<xsd:complexType name="WireRefId_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>The wire reference identification provided to a transaction</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>

    <xsd:complexType name="WireAmt_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>The transactional amount of the wire transfer</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:decimal">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="CurrType_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>The alphanumeric ISO 4217 currency code </ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="ClosedEnum_Type">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="CurrExchRate_Type">
```

```
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>The exchange rate for a specific currency </ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:decimal">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

<xsd:complexType name="EntityId_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc> The identification given to an entity </ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>

    <xsd:complexType name="IdVal_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>The identification value </ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

<xsd:complexType name="DocDt_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>Document Date</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:date">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="PmtDueDt_Type">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">The date established for a scheduled
          payment</xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:date">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
```

```
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

<xsd:complexType name="WireProcActType_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc> The action as related to a wire process</ElemDesc>
            <CanonicalVal>Cmplt,Send,Reset,Resend</CanonicalVal>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="ClosedEnum_Type">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>
```

Complex Element Definitions

```
<xsd:complexType name="WireTrnInqRs_MType">
                    <xsd:sequence>
                    <xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
                    <xsd:element name="TrnRcptId" type="TrnRcptId_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="WireTrnInqRec" type="WireTrnInqRec_CType" minOccurs="0" nillable="true"/>
                    <xsd:element name="ActIntent" type="ActIntent_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="ActIntentKey" type="ActIntentKey_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                    <xsd:sequence minOccurs="0">
                    <xsd:element name="Ver_1" type="Ver_1_CType"/>
                    <xsd:element name="WireTrnISOInqRec" type="WireTrnISOInqRec_CType" minOccurs="0" nillable="true"/>
                    <xsd:element name="WireTrnFinInstISOInqRec" type="WireTrnFinInstISOInqRec_CType" minOccurs="0" nillable="true"/>
                     <xsd:element name="WireTrnDrwdwnInqRec" type="WireTrnDrwdwnInqRec_CType" minOccurs="0" nillable="true"/>
                                <xsd:sequence minOccurs="0">
                                        <xsd:element name="Ver_2" type="Ver_2_CType"/>
                                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                                                maxOccurs="unbounded"/>
                                </xsd:sequence>
                        </xsd:sequence>
                    </xsd:sequence>
            </xsd:complexType>

            <xsd:complexType name="WireTrnISOInqRec_CType">
                    <xsd:sequence>
                            <xsd:element name="OrignFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
                            <xsd:element name="DestFinInstRtId" type="InstRtId_Type" minOccurs="0" />
                            <xsd:element name="SndrFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
                            <xsd:element name="RecvFinInstRtId" type="InstRtId_Type" minOccurs="0" />
                            <xsd:element name="WireCrtTimeDt" type="WireCrtTimeDt_Type" minOccurs="0"/>
                            <xsd:element name="WirePurpCode" type="WirePurpCode_Type" minOccurs="0"  />
                            <xsd:element name="WirePurpInfo" type="WirePurpInfo_Type" minOccurs="0" />
                            <xsd:element name="WireIMAD" type="WireIMAD_Type" minOccurs="0"/>
                            <xsd:element name="WireOMAD" type="WireOMAD_Type" minOccurs="0"/>
                            <xsd:element name="WireStatDesc" type="WireStatDesc_Type" minOccurs="0"/>
                            <xsd:element name="WireRegPrxyType" type="WireRegPrxyType_Type" minOccurs="0"/>
                            <xsd:element name="WireSvcPrvdInfo" type="WireSvcPrvdInfo_CType"/>
                            <xsd:element name="WirePmtTypeInfo" type="WirePmtTypeInfo_CType"/>
                            <xsd:element name="WireChgInfo" type="WireChgInfo_CType" minOccurs="0"/>
                            <xsd:element name="WireAgentInfoArray" type="WireAgentInfoArray_AType" minOccurs="0" />
                            <xsd:element name="WireEntityInfoArray" type="WireEntityInfoArray_AType"  />
                            <xsd:element name="WireRemitInfo" type="WireRemitInfo_CType" minOccurs="0"/>
                            <xsd:element name="Custom" type="Custom_CType" minOccurs="0" />
                            <xsd:sequence minOccurs="0">
                                    <xsd:element name="Ver_1" type="Ver_1_CType"/>
```

```
                        <xsd:any namespace="##targetNamespace" processContents="lax"
                                minOccurs="0" maxOccurs="unbounded"/>
                </xsd:sequence>
        </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="WireTrnFinInstISOInqRec_CType">
        <xsd:sequence>
                <xsd:element name="OrignFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
                <xsd:element name="DestFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
                <xsd:element name="SndrFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
                <xsd:element name="RecvFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
                <xsd:element name="WireCrtTimeDt" type="WireCrtTimeDt_Type" minOccurs="0"/>
                <xsd:element name="InstrId" type="WireInstrId_Type" minOccurs="0"  />
                <xsd:element name="WireRefId" type="WireRefId_Type" minOccurs="0" />
                <xsd:element name="InstrTrnId" type="WireInstrTrnId_Type" minOccurs="0"  />
                <xsd:element name="HighPryType" type="WireHighPryType_Type" minOccurs="0"  />
                <xsd:element name="SvcLvlInfoArray" type="SvcLvlInfoArray_AType" minOccurs="0" />
                <xsd:element name="LocalTrfType" type="WireLocalTrfType_Type" minOccurs="0" />
                <xsd:element name="CatPurpType" type="WireCatPurpType_Type" minOccurs="0" />
                <xsd:element name="CatPurpDesc" type="WireCatPurpDesc_Type" minOccurs="0" />
                <xsd:element name="WireAmt" type="WireAmt_Type" minOccurs="0"/>
                <xsd:element name="WireIMAD" type="WireIMAD_Type" minOccurs="0"/>
                <xsd:element name="WireOMAD" type="WireOMAD_Type" minOccurs="0"/>
                <xsd:element name="WireStatDesc" type="WireStatDesc_Type" minOccurs="0"/>
                <xsd:element name="WireRegPrxyType" type="WireRegPrxyType_Type" minOccurs="0"/>
                <xsd:element name="WireSvcPrvdInfo" type="WireSvcPrvdInfo_CType" minOccurs="0"/>
                <xsd:element name="WireAgentInfoArray" type="WireAgentInfoArray_AType" minOccurs="0" />
                <xsd:element name="DrFinInstInfo" type="WireFinInstInfo_CType" minOccurs="0"/>
                <xsd:element name="DrFinInstAcctInfo" type="WireFinInstAcctInfo_CType" minOccurs="0"  />
                <xsd:element name="CrFinInstInfo" type="WireFinInstInfo_CType" minOccurs="0"/>
                <xsd:element name="CrFinInstAcctInfo" type="WireFinInstAcctInfo_CType" minOccurs="0"  />
                <xsd:element name="CrAgentInstrInfoArray" type="InstrInfoArray_AType" minOccurs="0"  />
                <xsd:element name="WirePurpCode" type="WirePurpCode_Type" minOccurs="0" />
                <xsd:element name="WirePurpInfo" type="WirePurpInfo_Type" minOccurs="0" />
                <xsd:element name="FreeFormRemitInfo" type="FreeFormRemitInfo_Type" minOccurs="0" />
                <xsd:element name="UndrlygCustCrInfo" type="UndrlygCustCrInfo_CType" minOccurs="0" />
                <xsd:element name="Custom" type="Custom_CType" minOccurs="0" />
                <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax"
                                minOccurs="0" maxOccurs="unbounded"/>
                </xsd:sequence>
        </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="WireTrnDrwdwnInqRec_CType">
        <xsd:sequence>
                <xsd:element name="OrignFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
                <xsd:element name="DestFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
                <xsd:element name="WireCrtTimeDt" type="WireCrtTimeDt_Type" minOccurs="0"/>
                <xsd:element name="RecvFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
                <xsd:element name="WireIMAD" type="WireIMAD_Type" minOccurs="0"/>
                <xsd:element name="WireOMAD" type="WireOMAD_Type" minOccurs="0"/>
                <xsd:element name="WireStatDesc" type="WireStatDesc_Type" minOccurs="0"/>
                <xsd:element name="WireRegPrxyType" type="WireRegPrxyType_Type" minOccurs="0"/>
                <xsd:element name="WireDrwdwnCrFinInstAcctId" type="AcctId_Type" minOccurs="0"/>
                <xsd:element name="DrwdwnPmtInfo" type="DrwdwnPmtInfo_CType" minOccurs="0"/>
                <xsd:element name="WireSvcPrvdInfo" type="WireSvcPrvdInfo_CType" minOccurs="0"/>
                <xsd:element name="WireDrwdwnEntityInfoArray" type="WireDrwdwnEntityInfoArray_AType" minOccurs="0" />
                <xsd:element name="WirePurpCode" type="WirePurpCode_Type" minOccurs="0" />
                <xsd:element name="WirePurpInfo" type="WirePurpInfo_Type" minOccurs="0" />
                <xsd:element name="WireRemitInfo" type="WireRemitInfo_CType" minOccurs="0"/>
                <xsd:element name="OrigDrwdwnInfoRec" type="OrigDrwdwnInfoRec_CType" minOccurs="0"/>
                <xsd:element name="WireDrwdwnStat" type="WireTrnStat_Type" minOccurs="0" />
                <xsd:element name="Custom" type="Custom_CType" minOccurs="0" />
                <xsd:sequence minOccurs="0">
```

```
                                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                        <xsd:any namespace="##targetNamespace" processContents="lax"
                                                minOccurs="0" maxOccurs="unbounded"/>
                                </xsd:sequence>
                        </xsd:sequence>
                </xsd:complexType>

<xsd:complexType name="WireTrnISOModRec_CType">
                        <xsd:sequence>
                                <xsd:element name="OrignFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
                                <xsd:element name="DestFinInstRtId" type="InstRtId_Type" minOccurs="0" />
                                <xsd:element name="SndrFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
                                <xsd:element name="RecvFinInstRtId" type="InstRtId_Type" minOccurs="0" />
                                <xsd:element name="WireCrtTimeDt" type="WireCrtTimeDt_Type" minOccurs="0"/>
                                <xsd:element name="WirePurpCode" type="WirePurpCode_Type" minOccurs="0"  />
                                <xsd:element name="WirePurpInfo" type="WirePurpInfo_Type" minOccurs="0" />
                                 <xsd:element name="WireProcActType" type="WireProcActType_Type" minOccurs="0" />
                                <xsd:element name="WireSvcPrvdInfo" type="WireSvcPrvdInfo_CType" minOccurs="0"/>
                                <xsd:element name="WirePmtTypeInfo" type="WirePmtTypeInfo_CType" minOccurs="0"/>
                                <xsd:element name="WireChgInfo" type="WireChgInfo_CType" minOccurs="0"/>
                                <xsd:element name="WireAgentInfoArray" type="WireAgentInfoArray_AType" minOccurs="0" />
                                <xsd:element name="WireEntityInfoArray" type="WireEntityInfoArray_AType" minOccurs="0" />
                                <xsd:element name="WireRemitInfo" type="WireRemitInfo_CType" minOccurs="0"/>
                                <xsd:element name="Custom" type="Custom_CType" minOccurs="0" />
                                <xsd:sequence minOccurs="0">
                                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                        <xsd:any namespace="##targetNamespace" processContents="lax"
                                                minOccurs="0" maxOccurs="unbounded"/>
                                </xsd:sequence>
                        </xsd:sequence>
                </xsd:complexType>


                <xsd:complexType name="WireTrnISOModRs_MType">
                        <xsd:sequence>
                                <xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
                                <xsd:element name="RsStat" type="RsStat_Type" minOccurs="0" nillable="true"/>
                                <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                                <xsd:sequence minOccurs="0">
                                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                                                maxOccurs="unbounded"/>
                                </xsd:sequence>
                        </xsd:sequence>
                </xsd:complexType>

<xsd:complexType name="WireTrnFinInstISOModRq_MType">
                        <xsd:sequence>
                        <xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
                        <xsd:element name="ErrOvrRdInfoArray" type="ErrOvrRdInfoArray_AType" minOccurs="0" nillable="true"/>
                        <xsd:element name="TrnRcptId" type="TrnRcptId_Type"/>
                        <xsd:element name="WireTrnFinInstISOModRec" type="WireTrnFinInstISOModRec_CType" minOccurs="0" nillable="true"/>
                        <xsd:element name="WireUsrId" type="WireUsrId_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="WireVerifId" type="WireVerifId_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="ActIntentKey" type="ActIntentKey_Type"/>
                        <xsd:element name="Dlt" type="Dlt_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="ModRmkArray" type="Rmk_AType" minOccurs="0" nillable="true"/>
                                <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                                <xsd:sequence minOccurs="0">
                                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                                                maxOccurs="unbounded"/>
                                </xsd:sequence>
                        </xsd:sequence>
                </xsd:complexType>
```

```
<xsd:complexType name="WireTrnFinInstISOModRec_CType">
		<xsd:sequence>
			<xsd:element name="OrignFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
			<xsd:element name="DestFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
			<xsd:element name="SndrFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
			<xsd:element name="RecvFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
			<xsd:element name="WireCrtTimeDt" type="WireCrtTimeDt_Type" minOccurs="0"/>
			<xsd:element name="InstrId" type="WireInstrId_Type" minOccurs="0"  />
			<xsd:element name="WireRefId" type="WireRefId_Type" minOccurs="0" />
			<xsd:element name="InstrTrnId" type="WireInstrTrnId_Type" minOccurs="0"  />
			<xsd:element name="HighPryType" type="WireHighPryType_Type" minOccurs="0"  />
			<xsd:element name="SvcLvlInfoArray" type="SvcLvlInfoArray_AType" minOccurs="0" />
			<xsd:element name="LocalTrfType" type="WireLocalTrfType_Type" minOccurs="0" />
			<xsd:element name="CatPurpType" type="WireCatPurpType_Type" minOccurs="0" />
			<xsd:element name="CatPurpDesc" type="WireCatPurpDesc_Type" minOccurs="0" />
			 <xsd:element name="WireProcActType" type="WireProcActType_Type" minOccurs="0" />
			<xsd:element name="WireAmt" type="WireAmt_Type" minOccurs="0"/>
			<xsd:element name="WireSvcPrvdInfo" type="WireSvcPrvdInfo_CType" minOccurs="0"/>
			<xsd:element name="WireAgentInfoArray" type="WireAgentInfoArray_AType" minOccurs="0" />
			<xsd:element name="DrFinInstInfo" type="WireFinInstInfo_CType" minOccurs="0"/>
			<xsd:element name="DrFinInstAcctInfo" type="WireFinInstAcctInfo_CType" minOccurs="0"  />
			<xsd:element name="CrFinInstInfo" type="WireFinInstInfo_CType" minOccurs="0"/>
			<xsd:element name="CrFinInstAcctInfo" type="WireFinInstAcctInfo_CType" minOccurs="0"  />
			<xsd:element name="CrAgentInstrInfoArray" type="InstrInfoArray_AType" minOccurs="0"  />
			<xsd:element name="WirePurpCode" type="WirePurpCode_Type" minOccurs="0" />
			<xsd:element name="WirePurpInfo" type="WirePurpInfo_Type" minOccurs="0" />
			<xsd:element name="FreeFormRemitInfo" type="FreeFormRemitInfo_Type" minOccurs="0" />
			<xsd:element name="UndrlygCustCrInfo" type="UndrlygCustCrInfo_CType" minOccurs="0" />
			<xsd:element name="Custom" type="Custom_CType" minOccurs="0" />
			<xsd:sequence minOccurs="0">
				<xsd:element name="Ver_1" type="Ver_1_CType"/>
				<xsd:any namespace="##targetNamespace" processContents="lax"
					minOccurs="0" maxOccurs="unbounded"/>
			</xsd:sequence>
		</xsd:sequence>
	</xsd:complexType>

<xsd:complexType name="WireTrnFinInstISOModRs_MType">
		<xsd:sequence>
			<xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
			<xsd:element name="RsStat" type="RsStat_Type" minOccurs="0" nillable="true"/>
			<xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
			<xsd:sequence minOccurs="0">
				<xsd:element name="Ver_1" type="Ver_1_CType"/>
				<xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
					maxOccurs="unbounded"/>
			</xsd:sequence>
		</xsd:sequence>
	</xsd:complexType>

<xsd:complexType name="WireDrwdwnTrnModRq_MType">
		<xsd:sequence>
		<xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
		<xsd:element name="ErrOvrRdInfoArray" type="ErrOvrRdInfoArray_AType" minOccurs="0" nillable="true"/>
		<xsd:element name="TrnRcptId" type="TrnRcptId_Type"/>
		<xsd:element name="WireTrnDrwdwnModRec" type="WireTrnDrwdwnModRec_CType" minOccurs="0" nillable="true"/>
		<xsd:element name="WireUsrId" type="WireUsrId_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="WireVerifId" type="WireVerifId_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="ActIntentKey" type="ActIntentKey_Type"/>
		<xsd:element name="Dlt" type="Dlt_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="ModRmkArray" type="Rmk_AType" minOccurs="0" nillable="true"/>
			<xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
			<xsd:sequence minOccurs="0">
				<xsd:element name="Ver_1" type="Ver_1_CType"/>
				<xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
					maxOccurs="unbounded"/>
			</xsd:sequence>
```

```
                </xsd:sequence>
        </xsd:complexType>


<xsd:complexType name="WireTrnDrwdwnModRec_CType">
                <xsd:sequence>
                        <xsd:element name="OrignFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
                        <xsd:element name="DestFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
                        <xsd:element name="WireCrtTimeDt" type="WireCrtTimeDt_Type" minOccurs="0"/>
                        <xsd:element name="RecvFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
                        <xsd:element name="WireDrwdwnCrFinInstAcctId" type="AcctId_Type" minOccurs="0"/>
                         <xsd:element name="WireProcActType" type="WireProcActType_Type" minOccurs="0" />
                        <xsd:element name="DrwdwnPmtInfo" type="DrwdwnPmtInfo_CType" minOccurs="0"/>
                        <xsd:element name="WireSvcPrvdInfo" type="WireSvcPrvdInfo_CType" minOccurs="0"/>
                        <xsd:element name="WireEntityInfoArray" type="WireEntityInfoArray_AType"  minOccurs="0"/>
                        <xsd:element name="WirePurpCode" type="WirePurpCode_Type" minOccurs="0" />
                        <xsd:element name="WirePurpInfo" type="WirePurpInfo_Type" minOccurs="0" />
                        <xsd:element name="WireRemitInfo" type="WireRemitInfo_CType" minOccurs="0"/>
                        <xsd:element name="Custom" type="Custom_CType" minOccurs="0" />
                        <xsd:sequence minOccurs="0">
                                <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                <xsd:any namespace="##targetNamespace" processContents="lax"
                                        minOccurs="0" maxOccurs="unbounded"/>
                        </xsd:sequence>
                </xsd:sequence>
        </xsd:complexType>

<xsd:complexType name="WireTrnDrwdwnModRs_MType">
                <xsd:sequence>
                        <xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
                        <xsd:element name="RsStat" type="RsStat_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                        <xsd:sequence minOccurs="0">
                                <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                                        maxOccurs="unbounded"/>
                        </xsd:sequence>
                </xsd:sequence>
        </xsd:complexType>
```

Array Element Definitions

JHA Consumer Extensions

Canonical Element Values

Element Name	Value	Value	Value	Value
WireType	CustTrf	CustDrwdwn	AcctCustTrf	FinInstTrf
	FinInstDrwdwn	AcctFinInstTrf	CustCoverPmt	AcctCoverPmt
	FinInstDrwdwnRq	CustDrwdwnRq		
WireProcActType	Cmplt	Send	Reset	Resend

Instance Document(s):

Wire Fraud Service Adoption to ISO Format

Description:	Create a new set of wire fraud activity services in con junction with the migration to the ISO format

Architect:	Mike DeNicola		
Committed Service Provider(s):	Defender Yellow Hammer Fraud Dectective		
Potential Consumer Stakeholder(s):	SilverLake CIF 20/20 Core Director		
Potentially Impacted Service Provider(s):			
Container(s):	TPG_WireMaster.xsd		
EICC Request Id:	390600		
Message(s)/Tracking Id(s)/Approval(s):	WireTrnISOActFraudInq WireTrnFinInstISOActFraudInq	393525 393526	
Action Taken:	Created new services The Service Dictionary Name canonical values were updated with [WireTrnISOActFraudInq] and [WireTrnFinInstISOActFraudInq]		

Behavior Diagrams:

Behavior:

WireTrnISOActFraudInq

The Wire Transaction ISO Activity Fraud Inquiry root request (WireTrnISOActFraudInqRq_MType) requires element Wire Account Identification <WireAcctId> and Transaction ISO Information Record complex (TrnISOInfoRec_CType).

Wire Transaction ISO Activity Fraud Inquiry root request (WireTrnISOActFraudInqRq_MType) optionally includes Error Override Information Array (ErrOvrRdInfoArray_AType), Transaction Receipt Identifier <TrnRcptId>, Fraud Reference Identifier <FraudRefId>, Wire Account Type <WireAcctType>, Original Consumer Product <OrigConsmProd> and Fed Wire Package <FedWirePkg>.

The Wire Transaction ISO Activity Fraud Inquiry root response (WireTrnISOActFraudInqRs_MType) returns Transaction Receipt <TrnRcptId>, Wire Account Identifier <WireAcctId>, Wire Account Type <WireAcctType>, Fraud Reference Identifier <FraudRefId>, Fraud Suspect Type <FraudSusType>, and Fraud Suspect Remark Array (FraudSusRmkArray_AType).

WireTrnFinInstISOActFraudInq

The Wire Transaction Financial Institution ISO Activity Fraud Inquiry root request (WireTrnFinInstISOActFraudInqRq_MType) requires element Wire Account Identification <WireAcctId> and Transaction Financial Institution ISO Information Record complex (TrnFinInstISOInfoRec_CType)

The Wire Transaction Financial Institution ISO Activity Fraud Inquiry root request WireTrnFinInstISOActFraudInqRq_MType) optionally includes Error Override Information Array (ErrOvrRdInfoArray_AType), Transaction Receipt Identifier <TrnRcptId>, Fraud Reference Identifier <FraudRefId>, Wire Account Type <WireAcctType>, Original Consumer Product <OrigConsmProd>, and Fed Wire Package <FedWirePkg>.

The Wire Transaction Financial Institution ISO Activity Fraud Inquiry root response (WireTrnFinInstISOActFraudInqRs_MType) returns Transaction Receipt <TrnRcptId>, Wire Account Identifier <WireAcctId>, Wire Account Type <WireAcctType>, Fraud Reference Identifier <FraudRefId>, Fraud Suspect Type <FraudSusType>, and Fraud Suspect Remark Array (FraudSusRmkArray_AType).

XSD Schema:

Simple Elements

Complex Element Definitions

```
<xsd:complexType name="WireTrnISOActFraudInqRq_MType">
	<xsd:sequence>
		<xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
		<xsd:element name="ErrOvrRdInfoArray" type="ErrOvrRdInfoArray_AType" minOccurs="0" nillable="true"/>
		<xsd:element name="TrnRcptId" type="TrnRcptId_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="FraudRefId" type="FraudRefId_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="WireAcctId" type="WireAcctId_Type"/>
		<xsd:element name="WireAcctType" type="AcctType_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="OrigConsmProd" type="OrigConsmProd_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="FedWirePkg" type="FedWirePkg_Type" />
		<xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
		<xsd:sequence minOccurs="0">
			<xsd:element name="Ver_1" type="Ver_1_CType"/>
			<xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
				maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:sequence>
</xsd:complexType>


<xsd:complexType name="WireTrnISOActFraudInqRs_MType">
	<xsd:sequence>
		<xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
		<xsd:element name="TrnRcptId" type="TrnRcptId_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="WireAcctId" type="WireAcctId_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="WireAcctType" type="AcctType_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="FraudRefId" type="FraudRefId_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="FraudSusType" type="FraudSusType_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="FraudSusRmkArray" type="Rmk_AType" minOccurs="0" nillable="true"/>
		<xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
		<xsd:sequence minOccurs="0">
			<xsd:element name="Ver_1" type="Ver_1_CType"/>
			<xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
				maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="WireTrnFinInstISOActFraudInqRq_MType">
	<xsd:sequence>
		<xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
		<xsd:element name="ErrOvrRdInfoArray" type="ErrOvrRdInfoArray_AType" minOccurs="0" nillable="true"/>
		<xsd:element name="TrnRcptId" type="TrnRcptId_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="FraudRefId" type="FraudRefId_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="WireAcctId" type="WireAcctId_Type"/>
		<xsd:element name="WireAcctType" type="AcctType_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="OrigConsmProd" type="OrigConsmProd_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="FedWirePkg" type="FedWirePkg_Type" />
		<xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
		<xsd:sequence minOccurs="0">
			<xsd:element name="Ver_1" type="Ver_1_CType"/>
			<xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
				maxOccurs="unbounded"/>
		</xsd:sequence>
	</xsd:sequence>
</xsd:complexType>


<xsd:complexType name="WireTrnFinInstISOActFraudInqRs_MType">
	<xsd:sequence>
		<xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
		<xsd:element name="TrnRcptId" type="TrnRcptId_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="WireAcctId" type="WireAcctId_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="WireAcctType" type="AcctType_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="FraudRefId" type="FraudRefId_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="FraudSusType" type="FraudSusType_Type" minOccurs="0" nillable="true"/>
		<xsd:element name="FraudSusRmkArray" type="Rmk_AType" minOccurs="0" nillable="true"/>
```

```
                    <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                    <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                            maxOccurs="unbounded"/>
                    </xsd:sequence>
                </xsd:sequence>
            </xsd:complexType>
```

Array Element Definitions

JHA Consumer Extensions

Canonical Element Values

Element Name	Value	Value	Value	Value

Instance Document(s):

Wire Integration to pain.014

Description:	Adoption of the ISO pain.014 message		
Architect:	Mike DeNicola		
Committed Service Provider(s):	SilverLake		
Potential Consumer Stakeholder(s):	SilverLake Xperience		
Potentially Impacted Service Provider(s):	CIF 20/20 Core Director		
Container(s):	TPG_WireMaster.xsd		
EICC Request Id:	381974		
Message(s)/Tracking Id(s)/Approval(s):	WireDrwdwnTrnReply	394736	
Action Taken:	Created new service The Service Dictionary Name canonical values were updated with [WireDrwdwnTrnReply]		

Behavior Diagrams:

Behavior:

The Wire Drawdown Transaction Reply root request (WireDrwdwnTrnReplyRq_MType) requires Originating Financial Institution Routing Identifier <OrignFinInstRtId>, Destination Financial Institution Routing Identifier <DestFinInstRtId>, Message Id <MsgId>, IMAD, Wire Create Time Date <WireCrtTimeDt>, Originating Drawdown Information Record complex (OrigDrwdwnInfoRec_Ctype), Receiving Financial Institution Routing Identifier <RecvFinInstRtId>, Wire Drawdown Credit Financial Institution Account Identifier <WireDrwdwnCrFinInstAcctId>, Wire Drawdown Status <WireDrwdwnStat>, and Wire Drawdown Status Code <WireDrwdwnStatCode>.

The Wire Drawdown Transaction Reply root request (WireDrwdwnTrnReplyRq_MType) optionally includes Wire Drawdown Entity Information Array (WireDrwdwnEntityInfoArray_Atype).

Originating Drawdown Information record complex (OrigDrwdwnInfoRec_CType) requires Wire Message Identifier <WireMsgId>, Wire Create Time Date <WireCrtTimeDt>, Wire Payment Identifier <WirePmtId>, and Wire UETR <WireUETR>

The Originating Drawdown Information record complex (OrigDrwdwnInfoRec_CType) optionally includes Instruction Identifier <InstrId> and Wire Refence Identifier <WireRefId>

Wire Drawdown Transaction Reply root response (WireDrwdwnTrnReplyRs_MType) optionally includes Response Status <RsStat>

XSD Schema:

Simple Elements

```
<xsd:complexType name="WireDrwdwnStatCode_Type">
  <xsd:annotation>
    <xsd:documentation>
      <Jx>
        <ElemDesc> The code that defines status given to a drawdown request</ElemDesc>
      </Jx>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:simpleContent>
    <xsd:extension base="OpenEnum_Type">
      <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
      <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="WireDrwdwnStatDesc_Type">
  <xsd:annotation>
    <xsd:documentation>
      <Jx>
        <ElemDesc> The description of the code that defines status given to a drawdown request</ElemDesc>
      </Jx>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:simpleContent>
    <xsd:extension base="OpenEnum_Type">
      <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
      <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

Complex Element Definitions

```
<xsd:complexType name="WireDrwdwnTrnReplyRq_MType">
<xsd:sequence>
<xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
<xsd:element name="OrignFinInstRtId" type="InstRtId_Type"/>
<xsd:element name="DestFinInstRtId" type="InstRtId_Type" />
<xsd:element name="MsgId" type="MsgId_Type" minOccurs="0" nillable="true"/>
<xsd:element name="IMAD" type="MAD_Type" minOccurs="0" nillable="true"/>
<xsd:element name="WireCrtTimeDt" type="WireCrtTimeDt_Type"/>
<xsd:element name="WireDrwdwnEntityInfoArray" type="WireDrwdwnEntityInfoArray_AType" minOccurs="0"
nillable="true"/>
<xsd:element name="OrigDrwdwnInfoRec" type="OrigDrwdwnInfoRec_CType" />
<xsd:element name="RecvFinInstRtId" type="InstRtId_Type" />
<xsd:element name="WireDrwdwnCrFinInstAcctId" type="AcctId_Type" />
<xsd:element name="WireDrwdwnStat" type="WireTrnStat_Type" />
<xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
<xsd:sequence minOccurs="0">
<xsd:element name="Ver_1" type="Ver_1_CType"/>
<xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
maxOccurs="unbounded"/>
</xsd:sequence>
</xsd:sequence>
</xsd:complexType>
```

```
<xsd:complexType name="WireDrwdwnTrnReplyRs_MType">
        <xsd:sequence>
            <xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
            <xsd:element name="TrnRcptId" type="TrnRcptId_Type" minOccurs="0" nillable="true"/>
            <xsd:element name="RsStat" type="RsStat_Type" minOccurs="0" nillable="true"/>
            <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
            <xsd:sequence minOccurs="0">
                <xsd:element name="Ver_1" type="Ver_1_CType"/>
                <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                    maxOccurs="unbounded"/>
            </xsd:sequence>
        </xsd:sequence>
    </xsd:complexType>
```

Array Element Definitions

JHA Consumer Extensions

Canonical Element Values

Element Name	Value	Value	Value	Value

Instance Document(s):

Wire Transaction Exceptions

Description:	Provide a suite of services that allows for the processing of wire transaction exceptions		
Architect:	Mike DeNicola		
Committed Service Provider(s):	SilverLake		
Committed Responsible Party:	John England		
Potential Consumer Stakeholder(s):	SilverLake Xperience		
Potentially Impacted Service Provider(s):	CIF 20/20 Core Director		
Container(s):	TPG_WireMaster.xsd		
EICC Request Id:	395714		
Message(s)/Tracking Id(s)/Approval(s):		Certification Id	Provider Id
	WireExcTrnMod	397065	397066
	WireExcTrnSrch	397067	397068
Action Taken:	Created new services The Financial Institution Name element <FinInstName> was updated with the SrchType attribute The Service Dictionary Name canonical values were updated with [WireExcTrnMod] and [WireExcTrnSrch]		
Behavior Diagrams:			
Behavior:			

Wire Exception Transaction Search

Wire Exception Transaction Search root request (WireExcTrnSrchRq_MType) contains the following optional elements whereas all are optional but at least one is required Wire Account Identifier complex <WireAcctId_CType>, Wire Correlation Identifier <WireCorrelId>, Wire ISO Type <WireISOType>, Wire Exception Resolve Type <WireExcResolveType>, Low Wire Amount <LowWireAmt>, High Wire Amount <HighWireAmt>, Wire Transaction Type <WireTrnType>, Wire Exception Code <WireExcCode>, Credit Agent Name <CrAgentName> [@SrchType Canonical values supported Exact, StartsWith, Contains], Debit Agent Name <DrAgentName> [@SrchType Canonical values supported Exact, StartsWith, Contains], Credit Entity Name <CrEntityName> [@SrchType Canonical values supported Exact, StartsWith, Contains], Debit Entity Name <DrEntityName> [@SrchType Canonical values supported Exact, StartsWith, Contains], Wire Exception State Array (WireExcStateArray_AType) which encapsulates Wire Exception State Code <WireExcStateCode> which contains Wire Exception State Code <WireExcStateCode>, Wire Exception State Description <WireExcStateDesc>, Sender Financial Institution Identifier <SndrFinInstRtId>, Receiving Financial Insitution Identifier <RecvFinInstRtId>, and Activity Intention <ActIntent>.

Wire Exception Transaction Search root response (WireExcTrnSrchRs_MType) echo backs all the request elements and encapsulates Wire Exception Transaction Search Array (WireExcTrnSrchArray_AType) which encapsulates the Wire Exception Transaction Search Record complex (WireExcTrnSrchRec_CType) which encapsulates Transaction Receipt Identifier <TrnRcptId>, Wire Exception Item Identifier <WireExcItemId>, Wire Exception Transfer Record complex (WireExcTrnRec_CType), Wire Correlation Identifier <WireCorrelId>, Wire ISO Type <WireISOType>, Wire Amount <WireAmt>, Wire Transaction Type <WireTrnType>, Wire Exception Code <WireExcCode>, Credit Agent Name <CrAgentName>, Debit Agent Name <DrAgentName>, Debit Entity Name <DrEntityName>, Sender Financial Institution Identifier <SndrFinInstRtId>, Receiving Financial Insitution Identifier <RecvFinInstRtId>, Wire Source <WireSrc>, Activity Intention Key <ActIntentKey>, and Wire Exception State Array (WireExcStateArray_AType).

A request with a Low Wire Amount <LowWireAmt> value and the High Wire Amount <HighWireAmt> is null / zero should return all wire exceptions whose Wire Amount <WireAmt> is greater than or equal to the Low Wire Amount <LowWireAmt>.

A request with a High Wire Amount <HighWireAmt> value and the Low Wire Amount <LowWireAmt> is null / zero should return all wire exceptions whose Wire Amount <WireAmt> is less than or equal to the High Wire Amount <HighWireAmt>.

A request with a Low Wire Amount <LowWireAmt> value and the High Wire Amount <HighWireAmt> value should return all wire exceptions whose Wire Amount <WireAmt> is greater than or equal to the Low Wire Amount <LowWireAmt> and less than or equal to the High Wire Amount <HighWireAmt>.

A request with a Low Wire Amount <LowWireAmt> that is null/zero and the High Wire Amount <HighWireAmt> that is null/zero should ignore the amount filter.

Adhere to the Search Message Behaviors

Wire Exception Transaction Modification
Wire Exception Transaction Modification root request (WireExcTrnModRq_MType) requires a valid Wire Exception Item Identifier <WireExcItemId> and Activity Intention Key <ActIntentKey>.

Wire Exception Transaction Modification root request (WireExcTrnModRq_MType) optionally includes Wire Exception Transaction Record complex (WireExcTrnRec_CType) which encapsulates Wire Account Identifier complex <WireAcctId_CType>, Credit Entity Account Identifier <CrEntityAcctId>, Wire Exception Resolve Type <WireExcResolveType>, Wire Exception Approval Type <WireExcApprvType>, Wire Exception Approval Remark <WireExcApprvRmk>, Delete <Dlt> and Modification Remark Array (ModRmkArray_AType).

A delete <Dlt> whose value is [true] conveys to the provider to delete the wire transaction as an exception

Wire Exception Transaction Modification root response (WireExcTrnSrchRs_MType) returns Response Status <RsStat>

XSD Schema:

Simple Elements

```
<xsd:complexType name="WireExcApprvType_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>Has the wire exception transaction been approved for processing? </ElemDesc>
          <CanonicalVal>true,false</CanonicalVal>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="ClosedEnum_Type">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="WireExcCode_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc> The code for a wire exception</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="OpenEnum_Type">
        <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
        <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="WireExcDesc_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>The description of the code for a wire exception</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

  <xsd:complexType name="WireExcStateCode_Type">
    <xsd:annotation>
      <xsd:documentation>
        <Jx>
          <ElemDesc>The exception state for a wire exception</ElemDesc>
        </Jx>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
```

```
        <xsd:extension base="OpenEnum_Type">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

    <xsd:complexType name="WireExcStateDesc_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>The description of the exception state for a wire exception</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>

<xsd:complexType name="WireExcResolveType_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>Has the wire exception item been resolved?</ElemDesc>
            <CanonicalVal>true,false</CanonicalVal>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="ClosedEnum_Type">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>


  <xsd:complexType name="FinInstName_Type">
      <xsd:annotation>
        <xsd:documentation>
          <Jx>
            <ElemDesc>The depository financial institution name</ElemDesc>
          </Jx>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:simpleContent>
        <xsd:extension base="xsd:string">
          <xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
          <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
          <xsd:attribute name="SrchType" type="SrchType_Type" use="optional"/>
        </xsd:extension>
      </xsd:simpleContent>
    </xsd:complexType>
```

Complex Element Definitions

```
<xsd:complexType name="WireExcTrnSrchRq_MType">
                    <xsd:sequence>
                                <xsd:element name="SrchMsgRqHdr" type="SrchMsgRqHdr_CType"/>
                                <xsd:element name="WireAcctId" type="WireAcctId_CType" minOccurs="0" nillable="true"/>
                                <xsd:element name="WireCorrelId" type="WireCorrelId_Type" minOccurs="0" nillable="true"/>
                                <xsd:element name="WireISOType" type="WireISOType_Type" minOccurs="0" nillable="true"/>
                                <xsd:element name="WireExcResolveType" type="WireExcResolveType_Type" minOccurs="0" nillable="true"/>
                                <xsd:element name="LowWireAmt" type="WireAmt_Type" minOccurs="0" nillable="true"/>
                                <xsd:element name="HighWireAmt" type="WireAmt_Type" minOccurs="0" nillable="true"/>
```

```
                    <xsd:element name="WireTrnType" type="WireTrnType_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="WireExcCode" type="WireExcCode_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="CrAgentName" type="FinInstName_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="DrAgentName" type="FinInstName_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="CrEntityName" type="ComName_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="DrEntityName" type="ComName_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="SndrFinInstRtId" type="InstRtId_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="RecvFinInstRtId" type="InstRtId_Type" minOccurs="0" nillable="true" />
                    <xsd:element name="WireExcStateArray" type="WireExcStateArray_AType" minOccurs="0" nillable="true"/>
                    <xsd:element name="ActIntent" type="ActIntent_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                    <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                            maxOccurs="unbounded"/>
                    </xsd:sequence>
                </xsd:sequence>
            </xsd:complexType>

                <xsd:complexType name="WireExcTrnSrchRec_CType">
                <xsd:sequence>
                    <xsd:element name="TrnRcptId" type="TrnRcptId_Type" minOccurs="0" />
                    <xsd:element name="WireExcItemId" type="ExcItemId_Type" minOccurs="0"/>
                    <xsd:element name="WireExcTrnRec" type="WireExcTrnRec_CType" minOccurs="0"/>
                    <xsd:element name="WireCorrelId" type="WireCorrelId_Type" minOccurs="0" />
                    <xsd:element name="WireISOType" type="WireISOType_Type" minOccurs="0" />
                    <xsd:element name="WireAmt" type="WireAmt_Type" minOccurs="0" />
                    <xsd:element name="WireTrnType" type="WireTrnType_Type" minOccurs="0" />
                    <xsd:element name="WireExcCode" type="WireExcCode_Type" minOccurs="0"/>
                    <xsd:element name="CrAgentName" type="FinInstName_Type" minOccurs="0" />
                    <xsd:element name="DrAgentName" type="FinInstName_Type" minOccurs="0" />
                    <xsd:element name="DrEntityName" type="ComName_Type" minOccurs="0" />
                    <xsd:element name="SndrFinInstRtId" type="InstRtId_Type" minOccurs="0" />
                    <xsd:element name="RecvFinInstRtId" type="InstRtId_Type" minOccurs="0"/>
                    <xsd:element name="WireSrc" type="WireSrc_Type" minOccurs="0"/>
                    <xsd:element name="WireExcStateArray" type="WireExcStateArray_AType" minOccurs="0" />
                    <xsd:element name="ActIntentKey" type="ActIntentKey_Type" minOccurs="0"/>
                    <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
                    <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                            maxOccurs="unbounded"/>
                    </xsd:sequence>
                </xsd:sequence>
            </xsd:complexType>

            <xsd:complexType name="WireExcStateRec_CType">
                <xsd:sequence>
                    <xsd:element name="WireExcStateCode" type="WireExcStateCode_Type"/>
                    <xsd:element name="WireExcStateDesc" type="WireExcStateDesc_Type" minOccurs="0"/>
                    <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
                    <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                            maxOccurs="unbounded"/>
                    </xsd:sequence>
                </xsd:sequence>
            </xsd:complexType>


            <xsd:complexType name="WireExcTrnSrchRs_MType">
                <xsd:sequence>
                    <xsd:element name="SrchMsgRsHdr" type="SrchMsgRsHdr_CType"/>
                    <xsd:element name="WireAcctId" type="WireAcctId_CType" minOccurs="0" nillable="true"/>
                    <xsd:element name="WireCorrelId" type="WireCorrelId_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="WireISOType" type="WireISOType_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="WireExcResolveType" type="WireExcResolveType_Type" minOccurs="0" nillable="true"/>
```

```
                    <xsd:element name="LowWireAmt" type="WireAmt_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="HighWireAmt" type="WireAmt_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="WireTrnType" type="WireTrnType_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="WireExcCode" type="WireExcCode_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="CrAgentName" type="FinInstName_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="DrAgentName" type="FinInstName_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="CrEntityName" type="ComName_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="DrEntityName" type="ComName_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="SndrFinInstRtId" type="InstRtId_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="RecvFinInstRtId" type="InstRtId_Type" minOccurs="0" nillable="true" />
                    <xsd:element name="WireExcStateArray" type="WireExcStateArray_AType" minOccurs="0" nillable="true"/>
                    <xsd:element name="WireExcTrnSrchArray" type="WireExcTrnSrchArray_AType" minOccurs="0" />
                    <xsd:element name="ActIntent" type="ActIntent_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                    <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                            maxOccurs="unbounded"/>
                    </xsd:sequence>
                </xsd:sequence>
            </xsd:complexType>

            <xsd:complexType name="WireExcTrnRec_CType">
                <xsd:sequence>
                    <xsd:element name="WireAcctId" type="WireAcctId_CType" minOccurs="0"/>
                    <xsd:element name="CrEntityAcctId" type="AcctId_Type" minOccurs="0"/>
                    <xsd:element name="CrEntityName" type="ComName_Type" minOccurs="0" />
                    <xsd:element name="WireExcResolveType" type="WireExcResolveType_Type" minOccurs="0" />
                    <xsd:element name="WireExcApprvType" type="WireExcApprvType_Type" minOccurs="0" />
                    <xsd:element name="WireExcApprvRmk" type="Rmk_Type" minOccurs="0" />
                    <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
                    <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                            maxOccurs="unbounded"/>
                    </xsd:sequence>
                </xsd:sequence>
            </xsd:complexType>

            <xsd:complexType name="WireExcTrnModRq_MType">
                <xsd:sequence>
                    <xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
                    <xsd:element name="WireExcItemId" type="ExcItemId_Type" />
                    <xsd:element name="WireExcTrnRec" type="WireExcTrnRec_CType" minOccurs="0" nillable="true"/>
                    <xsd:element name="Dlt" type="Dlt_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="ModRmkArray" type="Rmk_AType" minOccurs="0" nillable="true"/>
                    <xsd:element name="ActIntentKey" type="ActIntentKey_Type"/>
                    <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                    <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                            maxOccurs="unbounded"/>
                    </xsd:sequence>
                </xsd:sequence>
            </xsd:complexType>

            <xsd:complexType name="WireExcTrnModRs_MType">
                <xsd:sequence>
                    <xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
                    <xsd:element name="RsStat" type="RsStat_Type" minOccurs="0" nillable="true"/>
                    <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                    <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                            maxOccurs="unbounded"/>
                    </xsd:sequence>
```

```
            </xsd:sequence>
        </xsd:complexType>
```

Array Element Definitions

```
<xsd:complexType name="WireExcTrnSrchArray_AType">
            <xsd:annotation>
                <xsd:documentation xml:lang="en"> An Array of Wire exception transactions</xsd:documentation>
            </xsd:annotation>
            <xsd:sequence>
                <xsd:element name="WireExcTrnSrchRec" type="WireExcTrnSrchRec_CType" minOccurs="0"
                    maxOccurs="unbounded"/>
            </xsd:sequence>
        </xsd:complexType>

<xsd:complexType name="WireExcStateArray_AType">
            <xsd:annotation>
                <xsd:documentation xml:lang="en"> An array of exception states as related to a wire
                </xsd:documentation>
            </xsd:annotation>
            <xsd:sequence>
                <xsd:element name="WireExcStateRec" type="WireExcStateRec_CType" minOccurs="0"
                    maxOccurs="unbounded" nillable="true"/>
            </xsd:sequence>
        </xsd:complexType>
```

JHA Consumer Extensions

Canonical Element Values

Element Name	Value	Value	Value	Value
WireExcApprvType	true	false		
WireExcResolveType	true	false		

Instance Document(s):

Wire History Search ISO Format

Description:	Re-design the wire history search service inline with the ISO wire formats for pacs.008, pacs.009, pain.13, and pain.14. [Note: Wire History Search was first published in release 2017.2.02 however; it was determined that the service did not have any consumer usage nor provider support thereby allowing for an unmarked re-design]		
Architect:	Mike DeNicola		
Committed Service Provider(s):	SilverLake		
Committed Responsible Party:	John England		
Potential Consumer Stakeholder(s):	SilverLake Xperience		
Potentially Impacted Service Provider(s):	N/A		
Container(s):	TPG_WireMaster.xsd		
EICC Request Id:	381974_405458		
Message(s)/Tracking Id(s)/Approval(s):		Certification Id	Provider Id
	WireHistSrch	404520	404521

Action Taken:	Redesign message

Behavior Diagrams:

Behavior:

Wire History Search root request (WireHistSrchRq_MType) optionally includes Wire Account Identifier (WireAcctId_CType), Transaction Reciept Id <TrnRcptId>, Wire Transaction Type <WireTrnType>, Wire ISO Type <WireISOType>, Wire Status <WireStat>, Wire Processing State <WireProcState>, Start Date <StartDt>, End Date <EndDt>, Low Amount <LowAmt>, and High Amount <HighAmt>.

The Wire History Search Start Date <StartDt> and Wire History End Date <EndDate> are compared to element Wire Create Time Date <WireCrtTimeDt>.

A consumer request with a Start Date <StartDt>, without an End Date <EndDate> will return all of the qualified Wire History records with a date equal to and greater than the Wire Create Time Date <WireCrtTimeDt>.
A consumer request with an End Date <EndDt>, without a Start Date <StartDt>, will return all of the qualified Wire History records with a date equal to and less than the Wire Create Time Date <WireCrtTimeDt>.
A consumer request with a Start Date <StartDt> and an End Date <EndDt> will return all of the qualified Wire History records with a date equal to and greater than the Wire Create Time Dt <WireCrtTimeDt> and a date equal to and less than the Wire Create Time Date <WireCrtTimeDt>.

The provider will return all of the qualified history records when the Wire Transaction Type <WireTrnType> is null/absent.

The provider will return all of the qualified history records when the Wire ISO Type <WireISOType> is null/absent.

The provider will return all of the qualified history records when the Wire Processing State <WireProcState> is null/absent.

A consumer request with a Low Amount <LowAmt>, without a High Amount <HighAmt> will return all of the qualified Wire History records with an amount equal to and greater than the Wire Amount <WireAmt>

A consumer request with a High Amount <HighAmt>, without a Low Amount <LowAmt>, will return all of the qualified Wire History records with an amount equal to and less than the Wire Amount <WireAmt>.
A consumer request with a Low Amount <LowAmt> and a High Amount <HighAmt> will return all of the qualified Wire History records with an amount equal to and greater than the Wire Amount <WireAmt> and the amount equal to and less than the Wire Amount <WireAmt>.

Wire History Search root response (WireHistSrchRs_MType) echoes back the request elements and Wire History Search Record Array (WireHistSrchRecArray_AType) which encapsulates Wire History Search Record complex (WireHistSrchRec_CType) which encapsulates Wire Transaction Type <WireTrnType> Wire ISO Type <WireISOType>, Wire Status <WireStat>, Wire Status Description <WireStatDesc>, Wire Processing State <WireProcState>, Credit Entity Name <CrEntityName>, Credit Entity Account Id <CrEntityAcctId>, Debit Entity Name <DrEntityName>, Debit Entity Account Id <DrEntityAcctId>, Credit Agent Name <CrAgentName>, Debit Agent Name <DrAgentName>, Wire Amount <WireAmt>, Wire Correlation Id <WireCorrelId>, Transaction Receipt <TrnRcptId>, and Wire Create Time/Date <WireCrtTimeDt>

Adhere to the behavior as related to search service

XSD Schema:

Simple Elements

```
<xsd:complexType name="WireISOType_Type">
   <xsd:annotation>
      <xsd:documentation>
         <Jx>
            <ElemDesc>Identifies the type of ISO wire</ElemDesc>
            <CanonicalVal>CustXfer,FinInstXfer,DrwdwnRq,DrwdwnReply</CanonicalVal>
         </Jx>
      </xsd:documentation>
   </xsd:annotation>
   <xsd:simpleContent>
      <xsd:extension base="ClosedEnum_Type"> </xsd:extension>
   </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="WireProcState_Type">
   <xsd:annotation>
      <xsd:documentation>
         <Jx>
            <ElemDesc>Identifies the state of the process for a wire</ElemDesc>
            <CanonicalVal>Cmplt,Pend</CanonicalVal>
         </Jx>
      </xsd:documentation>
   </xsd:annotation>
   <xsd:simpleContent>
      <xsd:extension base="ClosedEnum_Type"> </xsd:extension>
   </xsd:simpleContent>
</xsd:complexType>
```

Complex Element Definitions

```
<xsd:complexType name="WireHistSrchRq_MType">
            <xsd:sequence>
                  <xsd:element name="SrchMsgRqHdr" type="SrchMsgRqHdr_CType"/>
                  <!-- This is a documented filter statement - Any or All of the following can be sent -->
                  <xsd:element name="WireAcctId" type="WireAcctId_CType" minOccurs="0" nillable="true"/>
                  <xsd:element name="TrnRcptId" type="TrnRcptId_Type" minOccurs="0" nillable="true"/>
                  <xsd:element name="WireTrnType" type="WireTrnType_Type" minOccurs="0" nillable="true"/>
                  <xsd:element name="WireISOType" type="WireISOType_Type" minOccurs="0" nillable="true"/>
                  <xsd:element name="WireStat" type="WireStat_Type" minOccurs="0" nillable="true"/>
                  <xsd:element name="WireProcState" type="WireProcState_Type" minOccurs="0" nillable="true"/>
                  <xsd:element name="WireCorrelId" type="WireCorrelId_Type" minOccurs="0" nillable="true"/>
                  <xsd:element name="StartDt" type="StartDt_Type" minOccurs="0" nillable="true"/>
                  <xsd:element name="EndDt" type="EndDt_Type" minOccurs="0" nillable="true"/>
                  <xsd:element name="LowAmt" type="LowAmt_Type" minOccurs="0" nillable="true"/>
                  <xsd:element name="HighAmt" type="HighAmt_Type" minOccurs="0" nillable="true"/>
                  <!-- End documented filter statement -->
                  <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                  <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                              maxOccurs="unbounded"/>
                  </xsd:sequence>
            </xsd:sequence>
      </xsd:complexType>

      <xsd:complexType name="WireHistSrchRec_CType">
            <xsd:sequence>
                  <xsd:element name="WireTrnType" type="WireTrnType_Type" minOccurs="0" />
                  <xsd:element name="WireISOType" type="WireISOType_Type" minOccurs="0" />
                  <xsd:element name="WireStat" type="WireStat_Type" minOccurs="0" />
                  <xsd:element name="WireStatDesc" type="WireStatDesc_Type" minOccurs="0" />
                  <xsd:element name="WireProcState" type="WireProcState_Type" minOccurs="0" />
                  <xsd:element name="CrEntityName" type="ComName_Type" minOccurs="0"/>
                  <xsd:element name="CrEntityAcctId" type="AcctId_Type" minOccurs="0"/>
                  <xsd:element name="DrEntityName" type="ComName_Type" minOccurs="0"/>
```

```
                        <xsd:element name="DrEntityAcctId" type="AcctId_Type" minOccurs="0"/>
                        <xsd:element name="CrAgentName" type="ComName_Type" minOccurs="0"/>
                        <xsd:element name="DrAgentName" type="ComName_Type" minOccurs="0"/>
                        <xsd:element name="WireAmt" type="WireAmt_Type" minOccurs="0"/>
                        <xsd:element name="WireCorrelId" type="WireCorrelId_Type" minOccurs="0" />
                        <xsd:element name="TrnRcptId" type="TrnRcptId_Type" minOccurs="0"/>
                        <xsd:element name="WireCrtTimeDt" type="WireCrtTimeDt_Type" minOccurs="0"/>
                        <xsd:sequence minOccurs="0">
                                <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                                        maxOccurs="unbounded"/>
                        </xsd:sequence>
                </xsd:sequence>
        </xsd:complexType>

        <xsd:complexType name="WireHistSrchRs_MType">
                <xsd:sequence>
                        <xsd:element name="SrchMsgRsHdr" type="SrchMsgRsHdr_CType"/>
                        <xsd:element name="WireAcctId" type="WireAcctId_CType" minOccurs="0" nillable="true"/>
                        <xsd:element name="TrnRcptId" type="TrnRcptId_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="WireTrnType" type="WireTrnType_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="WireISOType" type="WireISOType_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="WireStat" type="WireStat_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="WireProcState" type="WireProcState_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="StartDt" type="StartDt_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="EndDt" type="EndDt_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="LowAmt" type="LowAmt_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="HighAmt" type="HighAmt_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="WireHistSrchRecArray" type="WireHistSrchRecArray_AType" minOccurs="0"
                                nillable="true"/>
                        <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                        <xsd:sequence minOccurs="0">
                                <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                                        maxOccurs="unbounded"/>
                        </xsd:sequence>
                </xsd:sequence>
        </xsd:complexType>

<xsd:complexType name="WireAcctId_CType">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">The incoming wire account identification
        information</xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="AcctId" type="AcctId_Type"/>
      <xsd:element name="AcctType" type="AcctType_Type"/>
      <xsd:element name="BrCode" type="BrCode_Type" minOccurs="0" />
      <xsd:element name="GLCostCtr" type="GLCostCtr_Type" minOccurs="0" />
      <xsd:element name="GLProdCode" type="GLProdCode_Type" minOccurs="0" />
      <xsd:sequence minOccurs="0">
        <xsd:element name="Ver_1" type="Ver_1_CType"/>
        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
          maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:sequence>
    <xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
  </xsd:complexType>
```

Array Element Definitions

```
        <xsd:complexType name="WireHistSrchRecArray_AType">
                <xsd:annotation>
                        <xsd:documentation xml:lang="en">An Array of responses for wire history
```

```
                        search.</xsd:documentation>
                </xsd:annotation>
                <xsd:sequence>
                        <xsd:element name="WireHistSrchRec" type="WireHistSrchRec_CType" minOccurs="0"
                                maxOccurs="unbounded"/>
                </xsd:sequence>
        </xsd:complexType>
```

JHA Consumer Extensions

Canonical Element Values

Element Name	Value	Value	Value	Value
WireProcState	Cmplt	Pend		

Instance Document(s):

CPS

Contact Information	
Project Requestor:	Tim Burns Greg Nunn David Schmiedeler Larry Bucey
Project Owner:	Tim Burns Greg Nunn David Schmiedeler
Architect:	Mike DeNicola
Stakeholder(s):	CPS Development David Schmiedeler Mackenzie Kizer Carl Green
Project Manager(s):	Paige Rappe

PSCU Direct

Description:	Provide the adjustments to allow for card services for PSCU Direct Non-CPS Customers		
Architect:	Mike DeNicola		
Committed Service Provider(s):	EI&S behalf of PSCU		
Committed Responsible Party:	Mary Hulett		
Potential Consumer Stakeholder(s):	Banno		
Potentially Impacted Service Provider(s):			
Container(s):	TPG_CrCardMaster.xsd TPG_CustomerMaster.xsd		
EICC Request Id:	403090		
Message(s)/Tracking Id(s)/Approval(s):		Certification Id	Provider Id
	CardAlrtMod	404394	404395
	CrCardProcIdSrch	404396	404397
	CrCardBalXferAdd	404398	404399
	EFTCardMod	405807	405808
Action Taken:	The Card Alert Modification (CardAlrtModRq_MType) was updated with EFT Card Type <EFTCardType>, Card Alert Start		

	Date <CardAlrtStartDt> and Card Alert End Date <CardAlrtEndDt> EFT Card Modification (EFTCardModRec_CType) was updated with the Loss State Code <LossStateCode>. Created new messages Service Dictionary Name canonical value was updated with [CrCardProcIdSrch] and [CrCardBalXferAdd]

Behavior Diagrams:

Behavior:

Credit Card Processor Identifier

The Credit Card Processor Identifier Search root request (CrCardProcIdSrchRq_MType) requires a Card Account Identifier To <CardAcctIdTo>, Card Account Identifier From <CardAcctIdFrom> and Postal Code <PostalCode>

The Credit Card Processor Identifier Search Response (CrCardProcIdSrchRs_MType) returns Card Account Identifier To <CardAcctIdTo>, Card Account Identifier From <CardAcctIdFrom>, Postal Code <PostalCode>, and Credit Card Processor Identifier Array (CrCardProcIdArray_AType)

The Credit Card Processor Identifier Array encapsulates Credit Card Processor Identifier Information Record complex (CrCardProcIdInfoRec_CType) which encapsulates Street Address 1 <StreetAddr1>, Street Address 2 <StreetAddr2>, City <City>, State <StateCode>, Postal Code <PostalCode>, Common Name <ComName>, Card Processor Type <CardProcType>, and Card Remote Payment Identifier <CardRemotePmtId>

The Card Remote Payment Identifier <CardRemotePmtId> should be cached and used for the CrCardBalXferAdd

Adhere to the behavior as related to search service
Search service behavior could be limited based on the integration with PSCU

Credit Card Balance Transfer Addition

The Credit Card Balance Transfer Addition root request (CrCardBalXferAddRq_MType) requires a Card Account Identifier <CardAcctId>, Requestor First Name <ReqFirstName>, Requestor Last Name <ReqLastName>, and Card Holder Information complex (CardHolderInfo_CType)

The Credit Card Balance Transfer Addition root request (CrCardBalXferAddRq_MType) optionally includes Remote Payment Information complex (RemotePmtInfo_CType) and Check Payment Information (ChkPmtInfo_CType). These are part of a documented choice statement whereas at least one complex is required.

The Card Holder Information complex (CardHolderInfo_CType) encapsulates Street Address 1 <StreetAddr1>, Street Address 2 <StreetAddr2>, City <City>, State Code <StateCode>, Postal Code <PostalCode>, First Name <FirstName>, and Last Name <LastName>

The Remote Payment Information complex (RemotePmtInfo_CType) encapsulates Account Identifier <AcctId>, Amount <Amt>, Card Remote Payment Identifier <CardRemotePmtId>, Card Remote Name <CardRemoteName>, State Code <StateCode>, and Postal Code <PostalCode>

The Check Payment Information complex (ChkPmtInfo_CType) encapsulates Account Identifier <AcctId>, Amount <Amt>, Payee Name <PayeeName>, City <City>, State Code <StateCode>, and Postal Code <PostalCode>

The Credit Card Balance Transfer Addition root response (CrCardBalXferAddRs_MType) returns Transaction Receipt Identifier <TrnRcptId>

Adhere to the behavior as related to addition services

XSD Schema:

Simple Elements

```
<xsd:complexType name="CardProcType_Type">
		<xsd:annotation>
			<xsd:documentation xml:lang="en">Identifies the type of card processor type
				<Jx>
					<CanonicalVal>Bank,Retail</CanonicalVal>
				</Jx>
			</xsd:documentation>
		</xsd:annotation>
		<xsd:simpleContent>
			<xsd:extension base="ClosedEnum_Type">
				<xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
				<xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
			</xsd:extension>
		</xsd:simpleContent>
	</xsd:complexType>

	<xsd:complexType name="CardRemotePmtId_Type">
		<xsd:annotation>
			<xsd:documentation xml:lang="en">The identifier given to a remote payment payer.</xsd:documentation>
		</xsd:annotation>
		<xsd:simpleContent>
			<xsd:extension base="xsd:string">
				<xsd:attribute name="JHANull" type="JHANull_Type" use="optional"/>
				<xsd:attribute name="Rstr" type="Rstr_Type" use="optional"/>
			</xsd:extension>
		</xsd:simpleContent>
	</xsd:complexType>
```

Complex Element Definitions

```
<xsd:complexType name="CardAlrtModRq_MType">
		<xsd:sequence>
			<xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
			<xsd:element name="ErrOvrRdInfoArray" type="ErrOvrRdInfoArray_AType" minOccurs="0" nillable="true"/>
			<xsd:element name="CustId" type="CustId_Type"/>
			<xsd:element name="EFTCardNum" type="EFTCardNum_Type"/>
			<xsd:element name="CardAlrtCode" type="CardAlrtCode_Type"/>
			<xsd:element name="AlrtActType" type="AlrtActType_Type" minOccurs="0" nillable="true"/>
			<xsd:element name="CardAlrtUsrDesc" type="CardAlrtUsrDesc_Type" minOccurs="0" nillable="true"/>
			<xsd:element name="CardAlrtRegionUsrDesc" type="CardAlrtRegionUsrDesc_Type" minOccurs="0"
nillable="true"/>
			<xsd:element name="CardAlrtRegionLat" type="GeoLat_Type" minOccurs="0" nillable="true"/>
			<xsd:element name="CardAlrtRegionLong" type="GeoLong_Type" minOccurs="0" nillable="true"/>
			<xsd:element name="CardAlrtRegionRadius" type="CardAlrtRegionRadius_Type" minOccurs="0" nillable="true"/>
			<xsd:element name="CardAlrtThldCode" type="CardAlrtThldCode_Type" minOccurs="0" nillable="true"/>
			<xsd:element name="CardAlrtThldVal" type="CardAlrtThldVal_Type" minOccurs="0" nillable="true"/>
			<xsd:element name="ActIntentKey" type="ActIntentKey_Type"/>
			<xsd:element name="Dlt" type="Dlt_Type" minOccurs="0" nillable="true"/>
			<xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
			<xsd:sequence minOccurs="0">
				<xsd:element name="Ver_1" type="Ver_1_CType"/>
				<xsd:element name="CardAlrtRegionId" type="CardAlrtRegionId_Type" minOccurs="0" nillable="true"/>
			<xsd:sequence minOccurs="0">
				<xsd:element name="Ver_2" type="Ver_2_CType"/>
```

```
                                    <xsd:element name="CardAlrtStartDt" type="StartDt_Type" minOccurs="0" nillable="true"/>
                                    <xsd:element name="CardAlrtEndDt" type="EndDt_Type" minOccurs="0" nillable="true"/>
                                    <xsd:element name="EFTCardType" type="EFTCardType_Type" minOccurs="0" nillable="true"/>
                                    <xsd:sequence minOccurs="0">
                                        <xsd:element name="Ver_3" type="Ver_3_CType"/>
                                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                                            maxOccurs="unbounded"/>
                                    </xsd:sequence>
                                </xsd:sequence>
                                </xsd:sequence>
                        </xsd:sequence>
                </xsd:complexType>

<xsd:complexType name="CrCardProcIdSrchRq_MType">
                        <xsd:sequence>
                                <xsd:element name="SrchMsgRqHdr" type="SrchMsgRqHdr_CType"/>
                                <xsd:element name="CardAcctIdTo" type="AcctId_Type" />
                                <xsd:element name="CardAcctIdFrom" type="AcctId_Type" />
                                <xsd:element name="PostalCode" type="PostalCode_Type" />
                                <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                                <xsd:sequence minOccurs="0">
                                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                                                maxOccurs="unbounded"/>
                                </xsd:sequence>
                        </xsd:sequence>
                </xsd:complexType>

                <xsd:complexType name="CrCardProcIdInfoRec_CType">
                        <xsd:sequence>
                                <xsd:element name="StreetAddr1" type="StreetAddr1_Type" minOccurs="0" />
                                <xsd:element name="StreetAddr2" type="StreetAddr2_Type" minOccurs="0" />
                                <xsd:element name="City" type="City_Type" minOccurs="0"/>
                                <xsd:element name="StateCode" type="StateCode_Type" minOccurs="0"/>
                                <xsd:element name="PostalCode" type="PostalCode_Type" minOccurs="0"/>
                                <xsd:element name="ComName" type="ComName_Type" minOccurs="0"/>
                                <xsd:element name="CardProcType" type="CardProcType_Type" minOccurs="0"/>
                                <xsd:element name="CardRemotePmtId" type="CardRemotePmtId_Type" minOccurs="0"/>
                                <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
                                <xsd:sequence minOccurs="0">
                                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                                                maxOccurs="unbounded"/>
                                </xsd:sequence>
                        </xsd:sequence>
                </xsd:complexType>

                        <xsd:complexType name="CrCardProcIdSrchRs_MType">
                        <xsd:sequence>
                                <xsd:element name="SrchMsgRsHdr" type="SrchMsgRsHdr_CType"/>
                                <xsd:element name="CardAcctIdTo" type="AcctId_Type" minOccurs="0" nillable="true" />
                                <xsd:element name="CardAcctIdFrom" type="AcctId_Type"  minOccurs="0" nillable="true"/>
                                <xsd:element name="PostalCode" type="PostalCode_Type" minOccurs="0" nillable="true"/>
                                <xsd:element name="CrCardProcIdArray" type="CrCardProcIdArray_AType"  minOccurs="0" nillable="true"/>
                                <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                                <xsd:sequence minOccurs="0">
                                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                                                maxOccurs="unbounded"/>
                                </xsd:sequence>
                        </xsd:sequence>
                </xsd:complexType>

                <xsd:complexType name="CrCardBalXferAddRq_MType">
                        <xsd:sequence>
                                <xsd:element name="MsgRqHdr" type="MsgRqHdr_CType"/>
                                <xsd:element name="CrCardAcctId" type="AcctId_Type" />
```

```
                    <xsd:element name="ReqFirstName" type="FirstName_Type" />
                    <xsd:element name="ReqLastName" type="LastName_Type" />
                    <xsd:element name="CardHolderInfo" type="CardHolderInfo_CType" />
                    <!-- This is a documented choice statement - at least one complex is required-->
                    <xsd:element name="RemotePmtInfo" type="RemotePmtInfo_CType" minOccurs="0" nillable="true" />
                    <xsd:element name="ChkPmtInfo" type="ChkPmtInfo_CType" minOccurs="0" nillable="true" />
                    <!-- End of documented choice statement  -->
                    <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                    <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                            maxOccurs="unbounded"/>
                    </xsd:sequence>
            </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="CardHolderInfo_CType">
            <xsd:sequence>
                    <xsd:element name="StreetAddr1" type="StreetAddr1_Type"  />
                    <xsd:element name="StreetAddr2" type="StreetAddr2_Type" minOccurs="0" />
                    <xsd:element name="City" type="City_Type" />
                    <xsd:element name="StateCode" type="StateCode_Type" />
                    <xsd:element name="PostalCode" type="PostalCode_Type" />
                    <xsd:element name="FirstName" type="FirstName_Type" />
                    <xsd:element name="LastName" type="LastName_Type" />
                    <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
                    <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                            maxOccurs="unbounded"/>
                    </xsd:sequence>
            </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="RemotePmtInfo_CType">
            <xsd:sequence>
                    <xsd:element name="AcctId" type="AcctId_Type"  />
                    <xsd:element name="Amt" type="Amt_Type"  />
                    <xsd:element name="CardRemotePmtId" type="CardRemotePmtId_Type" />
                    <xsd:element name="CardRemoteName" type="ComName_Type" />
                    <xsd:element name="StateCode" type="StateCode_Type" />
                    <xsd:element name="PostalCode" type="PostalCode_Type" />
                    <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
                    <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                            maxOccurs="unbounded"/>
                    </xsd:sequence>
            </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="ChkPmtInfo_CType">
            <xsd:sequence>
                    <xsd:element name="AcctId" type="AcctId_Type"  />
                    <xsd:element name="Amt" type="Amt_Type"  />
                    <xsd:element name="StreetAddr1" type="StreetAddr1_Type" />
                    <xsd:element name="PayeeName" type="PayeeName_Type" />
                    <xsd:element name="City" type="City_Type" />
                    <xsd:element name="StateCode" type="StateCode_Type" />
                    <xsd:element name="PostalCode" type="PostalCode_Type" />
                    <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
                    <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_1" type="Ver_1_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                            maxOccurs="unbounded"/>
                    </xsd:sequence>
```

```
                </xsd:sequence>
        </xsd:complexType>


        <xsd:complexType name="CrCardBalXferAddRs_MType">
                <xsd:sequence>
                        <xsd:element name="MsgRsHdr" type="MsgRsHdr_CType"/>
                        <xsd:element name="TrnRcptId" type="TrnRcptId_Type"  minOccurs="0" nillable="true"/>

                        <xsd:element name="Custom" type="Custom_CType" minOccurs="0" nillable="true"/>
                        <xsd:sequence minOccurs="0">
                                <xsd:element name="Ver_1" type="Ver_1_CType"/>
                                <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"
                                        maxOccurs="unbounded"/>
                        </xsd:sequence>
                </xsd:sequence>
        </xsd:complexType>

<xsd:complexType name="EFTCardModRec_CType">
                <xsd:sequence>
                        <xsd:element name="EFTCardStat" type="EFTCardStat_Type" minOccurs="0" nillable="true">
                                <xsd:annotation>
                                        <xsd:documentation>
                                                <Deprecate>
                                                        <Dt>2017-01-01</Dt>
                                                        <Cmnt>The EFT Card Status Type (EFTCardStatType) replaces the
                                                                EFTCardStat element</Cmnt>
                                                </Deprecate>
                                        </xsd:documentation>
                                </xsd:annotation>
                        </xsd:element>
                        <xsd:element name="EmbosName" type="EmbosName_Type" minOccurs="0" nillable="true"/>
                        <xsd:element name="SecdEmbosName" type="SecdEmbosName_Type" minOccurs="0"
                                nillable="true"/>
                        <xsd:element name="EFTCardAcctIdArray" type="EFTCardAcctIdArray_AType" minOccurs="0"/>
                        <xsd:element name="SvcPrvdInfo" type="EFTCardModRec_EType" minOccurs="0"/>
                        <xsd:element name="Custom" type="Custom_CType" minOccurs="0"/>
                        <xsd:sequence minOccurs="0">
                                <xsd:element name="Ver_1" type="Ver_1_CType"/>
```

```
        <xsd:element name="Ver_12" type="Ver_12_CType"/>
        <xsd:element name="LossStateCode" type="StateCode_Type">
        <xsd:annotation>
                <xsd:documentation>The cardholder's resident state can be used for cards lost internationally</xsd:documentation>

        </xsd:annotation>
        </xsd:element>
        <xsd:sequence minOccurs="0">
                        <xsd:element name="Ver_13" type="Ver_13_CType"/>
                        <xsd:any namespace="##targetNamespace" processContents="lax" minOccurs="0"maxOccurs="unbounded"/>
                                                                                                </xsd:sequence>
                                                                                        </xsd:complexType>
```

Array Element Definitions

```
        <xsd:complexType name="CrCardProcIdArray_AType">
                <xsd:annotation>
                        <xsd:documentation xml:lang="en">An Array of credit card processors</xsd:documentation>
                </xsd:annotation>
                <xsd:sequence>
                        <xsd:element name="CrCardProcIdInfoRec" type="CrCardProcIdInfoRec_CType" minOccurs="0"
                                maxOccurs="unbounded"/>
                </xsd:sequence>
        </xsd:complexType>
```

JHA Consumer Extensions

Canonical Element Values

Element Name	Value	Value	Value	Value
CardProdType	Bank	Retail		

Instance Document(s):