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<?xml version = "1.0" encoding = "ISO-8859-1"?>

<!-- Complex Types Schema for GISB v1.0 Draft 2001/05/28 -->

<xsd:schema xmlns:xsd = "http://www.w3.org/2000/10/XMLSchema"
            xmlns = "http://www.gisb.org/"
            targetNamespace = "http://www.gisb.org/">

    <xsd:include schemaLocation = "GISBSimpleTypes.xsd"/>

<!-- -->
    <xsd:complexType name = "Address">
        <xsd:sequence>
            <xsd:element name = "StreetAddress" type =
"lengthFiftyFive" minOccurs = "1" maxOccurs = "2"/>
            <xsd:element name = "UnitNumber" type = "lengthTen"
minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "City" type =
"lengthThirty"/>
            <xsd:element name = "State" type =
"lengthTwo"/>
            <xsd:element name = "PostalCode" type =
"lengthTen"/>
            <xsd:element name = "County" type =
"lengthThirty" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "CountryCode" type =
"lengthThree" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "AddressAttention" type =
"lengthThirty" minOccurs = "0" maxOccurs = "1"/>
        </xsd:sequence>
    </xsd:complexType>

<!-- -->
    <xsd:complexType name = "Amount">
        <xsd:simpleContent>
            <xsd:extension base = "xsd:decimal">
            </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>

<!-- -->
    <xsd:complexType name = "AttributeInformation">
        <xsd:sequence>
            <xsd:element name = "Name" type = "lengthThirty"/>
            <xsd:element name = "Value" type = "lengthEighty"/>
        </xsd:sequence>
    </xsd:complexType>

<!-- -->
    <xsd:complexType name = "BillingCycle">
        <xsd:simpleContent>
            <xsd:extension base = "lengthThree">
                <xsd:attribute name = "SenderReceiverType"
type = "SenderReceiverType"/>
            </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>

<!-- -->
    <xsd:complexType name = "ConsumerAccountNumber">
        <xsd:simpleContent>

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        <xsd:extension base = "lengthThirty">
            <xsd:attribute name = "SenderReceiverType"
                type = "SenderReceiverType"/>
            <xsd:attribute name = "OldAccountNumber" type =
"lengthThirty" use = "optional"/>
            <xsd:attribute name = "AccountNumberSwitchDate"
                type = "date" use = "optional"/>
        </xsd:extension>
    </xsd:simpleContent>
</xsd:complexType>

<!-- -->
    <xsd:complexType name = "ConsumerInformationStandard">
        <xsd:sequence>
            <xsd:element name = "FullName" type
="lengthSixty"/>
            <xsd:element name = "LastName" type
="lengthTwenty" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "FirstName" type
="lengthTwenty" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "MiddleName" type
="lengthTwenty" minOccurs = "0" maxOccurs = "1"/>
        </xsd:sequence>
    </xsd:complexType>

<!-- -->
    <xsd:complexType name = "ConsumerInformationWithContact">
        <xsd:sequence>
            <xsd:element name = "FullName" type
="lengthSixty"/>
            <xsd:element name = "LastName" type
="lengthTwenty" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "FirstName" type
="lengthTwenty" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "MiddleName" type
="lengthTwenty" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "ContactInformation" type =
"ContactInformationConsumer" minOccurs = "0" maxOccurs = "1"/>
        </xsd:sequence>
    </xsd:complexType>

<!-- -->
    <xsd:complexType name = "ContactInformationWithAddress">
        <xsd:sequence>
            <xsd:element name = "FullName" type
="lengthSixty"/>
            <xsd:element name = "LastName" type
="lengthTwenty" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "FirstName" type
="lengthTwenty" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "MiddleName" type
="lengthTwenty" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "Prefix" type
="lengthTen" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "Suffix" type
="lengthTen" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "Title" type
="lengthTwenty" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "TelephoneNumber" type
="lengthFifteen" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "Email" type

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="lengthSixty"      minOccurs = "0" maxOccurs = "1"/>
                    <xsd:element name = "FaxNumber"      type
="lengthFifteen"    minOccurs = "0" maxOccurs = "1"/>
                    <xsd:element name = "Address"        type
="Address"          minOccurs = "0" maxOccurs = "1"/>
                    </xsd:sequence>
                    <xsd:attribute name = "TypeOfContact" type =
"TypeOfContact"    use = "required"/>
                    </xsd:complexType>

<!-- -->
    <xsd:complexType name = "ContactInformationConsumer">
        <xsd:sequence>
            <xsd:element name = "FullName"                type
="lengthSixty"/>
            <xsd:element name = "LastName"                type
="lengthTwenty"    minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "FirstName"               type
="lengthTwenty"    minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "MiddleName"              type
="lengthTwenty"    minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "TelephoneNumber"         type
="lengthTwenty"    minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "Email"                   type
="lengthSixty"     minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "FaxNumber"                type
="lengthTwenty"    minOccurs = "0" maxOccurs = "1"/>
            </xsd:sequence>
        </xsd:complexType>

<!-- -->
    <xsd:complexType name = "ContactInformationMarketParticipant">
        <xsd:sequence>
            <xsd:element name = "FullName"                type
="lengthSixty"/>
            <xsd:element name = "TelephoneNumber"         type
="lengthTwenty"    minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "Email"                   type
="lengthSixty"     minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "FaxNumber"                type
="lengthTwenty"    minOccurs = "0" maxOccurs = "1"/>
            </xsd:sequence>
            <xsd:attribute name = "SenderReceiverType"    type =
"SenderReceiverType"/>
        </xsd:complexType>

<!-- -->
    <xsd:complexType name = "BuyerInformation">
        <xsd:sequence>
            <xsd:element name = "BuyerData"
            type = "BuyerData"/>
            <xsd:element name = "ContactInformationWithAddress"
            type = "ContactInformationWithAddress"    minOccurs = "0"
maxOccurs = "unbounded"/>
            <xsd:element name = "Transporter"
            type = "Transporter"    minOccurs = "0" maxOccurs = "1"/>
        </xsd:sequence>
    </xsd:complexType>

<!-- -->
    <xsd:complexType name = "BuyerData">

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                <xsd:sequence>
                    <xsd:element name = "BuyerName"           type =
"lengthSixty"/>
                    <xsd:element name = "ContractNumber"    type =
"ContractNumber"/>
                    <xsd:element name = "DUNSNumber"        type =
"lengthThirteen"/>
                    <xsd:element name = "FederalTaxId"      type =
"lengthNine"/>
                </xsd:sequence>
            </xsd:complexType>

<!-- -->
    <xsd:complexType name = "SellerInformation">
        <xsd:sequence>
            <xsd:element name = "SellerData"
type = "SellerData"/>
            <xsd:element name = "ContactInformationWithAddress"
type = "ContactInformationWithAddress" minOccurs = "0"
maxOccurs = "unbounded"/>
            <xsd:element name = "Transporter"
type = "Transporter" minOccurs = "0" maxOccurs = "1"/>
        </xsd:sequence>
    </xsd:complexType>

<!-- -->
    <xsd:complexType name = "SellerData">
        <xsd:sequence>
            <xsd:element name = "SellerName"           type =
"lengthSixty"/>
            <xsd:element name = "ContractNumber"    type =
"ContractNumber"/>
            <xsd:element name = "DUNSNumber"        type =
"lengthThirteen"/>
            <xsd:element name = "FederalTaxId"      type =
"lengthNine"/>
        </xsd:sequence>
    </xsd:complexType>

<!-- -->
    <xsd:complexType name = "Transporter">
        <xsd:simpleContent>
            <xsd:extension base = "lengthThirty">
                <xsd:attribute name =
"TransporterContractNumber" use = "optional" type =
"TransporterContractNumber"/>
            </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>

<!-- -->
    <xsd:complexType name = "ContractNumber" mixed = "true">
        <xsd:choice/>
        <xsd:attribute name = "ContractType" use = "required" type =
="ContractType">
            <xsd:simpleType>
                <xsd:restriction base = "xsd:NMTOKEN">
                    <xsd:enumeration value = "Sales"/>
                    <xsd:enumeration value = "Base"/>
                    <xsd:enumeration value = "Transportation"/>
                </xsd:restriction>
            </xsd:simpleType>
        </xsd:attribute>
    </xsd:complexType>

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        <xsd:enumeration value = "UpStream"/>
        <xsd:enumeration value = "DownStream"/>
        <xsd:enumeration value = "Service"/>
        <xsd:enumeration value = "Purchase"/>
        <xsd:enumeration value = "Sales"/>
        <xsd:enumeration value = "Confirmation"/>
    </xsd:restriction>
</xsd:simpleType>
</xsd:attribute>
</xsd:complexType>
<!-- -->
    <xsd:complexType name = "SignatureDirectory">
        <xsd:sequence>
            <xsd:element name = "PartyName" type =
"lengthThirty"/>
            <xsd:element name = "FullName" type =
"lengthThirty" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "title" type =
"lengthTwenty" minOccurs = "0" maxOccurs = "1"/>
        </xsd:sequence>
        <xsd:attribute name = "BuySelSigType" type =
"lengthThirty" use = "required"/>
    </xsd:complexType>
<!-- -->
    <xsd:complexType name = "ElementInformation">
        <xsd:sequence>
            <xsd:element name = "Name"
type = "lengthThirty"/>
            <xsd:element name = "Value"
type = "lengthEighty" minOccurs = "0" maxOccurs =
"1"/>
            <xsd:element name = "AttributeInformation" type =
"AttributeInformation" minOccurs = "0" maxOccurs = "1"/>
        </xsd:sequence>
    </xsd:complexType>
<!-- -->
    <xsd:complexType name = "MarketParticipantAccountNumber">
        <xsd:simpleContent>
            <xsd:extension base = "lengthThirty">
                <xsd:attribute name = "SenderReceiverType"
type = "SenderReceiverType"/>
                <xsd:attribute name = "OldAccountNumber" type =
"lengthThirty" use = "optional"/>
                <xsd:attribute name = "AccountNumberSwitchDate"
type = "date" use = "optional"/>
            </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>
<!-- -->
    <xsd:complexType name = "MeterNumber">
        <xsd:simpleContent>
            <xsd:extension base = "lengthThirty">
                <xsd:attribute name = "OldMeterNumber"
type = "lengthThirty" use = "optional"/>
                <xsd:attribute name = "MeterNumberSwitchDate"
type = "date" use = "optional"/>
            </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>

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

<!-- -->
    <xsd:complexType name = "NameWithAddress">
        <xsd:sequence>
            <xsd:element name = "FullName"                type
="lengthSixty"/>
            <xsd:element name = "LastName"                type
="lengthTwenty" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "FirstName"               type
="lengthTwenty" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "MiddleName"              type
="lengthTwenty" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "Address"                  type = "Address"/>
        </xsd:sequence>
    </xsd:complexType>

<!-- -->
    <xsd:complexType name = "NameWithAddressAndContact">
        <xsd:sequence>
            <xsd:element name = "FullName"                type
="lengthSixty"/>
            <xsd:element name = "LastName"                type
="lengthTwenty" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "FirstName"               type
="lengthTwenty" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "MiddleName"              type
="lengthTwenty" minOccurs = "0" maxOccurs = "1"/>
            <xsd:element name = "Address"                  type =
"Address"/>
            <xsd:element name = "ContactInformation" type =
"ContactInformationConsumer" minOccurs = "0" maxOccurs = "1"/>
        </xsd:sequence>
    </xsd:complexType>

<!-- -->

    <xsd:complexType name = "PreviousLocationAccountNumber">
        <xsd:simpleContent>
            <xsd:extension base = "lengthThirty">
                <xsd:attribute name = "SenderReceiverType"
type = "SenderReceiverType"/>
                <xsd:attribute name = "OldAccountNumber"
type = "lengthThirty"/>
                <xsd:attribute name = "AccountNumberSwitchDate"
type = "date" use = "optional"/>
            </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>

<!-- -->
    <xsd:complexType name = "RateAmount">
        <xsd:simpleContent>
            <xsd:extension base = "xsd:decimal">
                <xsd:attribute name = "SenderReceiverType"
type = "SenderReceiverType"/>
            </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>

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<!-- -->
  <xsd:complexType name = "RateCode">
    <xsd:simpleContent>
      <xsd:extension base = "lengthTen">
        <xsd:attribute name = "SenderReceiverType"
type = "SenderReceiverType"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

<!-- -->
  <xsd:complexType name = "RejectInformation">
    <xsd:sequence>
      <xsd:element name = "Reason" type =
"lengthThirty"/>
      <xsd:element name = "ReasonText" type =
"length250" minOccurs = "0" maxOccurs = "1"/>
      <xsd:element name = "ElementInformation" type =
"ElementInformation" minOccurs = "0" maxOccurs = "1"/>
    </xsd:sequence>
  </xsd:complexType>

<!-- -->
  <xsd:complexType name = "ServiceAddress">
    <xsd:sequence>
      <xsd:element name = "StreetAddress" type =
"lengthFiftyFive" minOccurs = "1" maxOccurs = "2"/>
      <xsd:element name = "UnitNumber" type = "lengthTen"
minOccurs = "0" maxOccurs = "1"/>
      <xsd:element name = "City" type =
"lengthThirty"/>
      <xsd:element name = "Province" type =
"lengthTwo"/>
      <xsd:element name = "PostalCode" type = "lengthTen"
minOccurs = "0" maxOccurs = "1"/>
      <xsd:element name = "County" type =
"lengthThirty" minOccurs = "0" maxOccurs = "1"/>
      <xsd:element name = "CountryCode" type =
"lengthThree" minOccurs = "0" maxOccurs = "1"/>
    </xsd:sequence>
  </xsd:complexType>

<!-- -->
  <xsd:complexType name = "ServiceLocationInformation">
    <xsd:sequence>
      <xsd:element name = "Address" type =
"ServiceAddress"/>
      <xsd:element name = "ContactInformation" type =
"ContactInformationConsumer" minOccurs = "0" maxOccurs = "1"/>
    </xsd:sequence>
  </xsd:complexType>

<!-- -->
  <xsd:complexType name = "ServicePeriod">
    <xsd:sequence>
      <xsd:element name = "BeginDate" type = "dateTime"/
>
      <xsd:element name = "EndDate" type = "dateTime"/>
    </xsd:sequence>
  </xsd:complexType>

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<!-- -->
  <xsd:complexType name = "Taxes">
    <xsd:sequence>
      <xsd:element name = "Tax" minOccurs = "1" maxOccurs =
"unbounded">
        <xsd:complexType>
          <xsd:attribute name = "TaxType"
type = "taxType"/>
          <xsd:attribute name = "TaxExemptStatus"
type = "yesNo"/>
          <xsd:attribute name = "TaxExemptNumber"
type = "lengthThirty" use = "optional"/>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>

<!-- -->
  <xsd:complexType name = "UsageData">
    <xsd:simpleContent>
      <xsd:extension base = "xsd:decimal">
        <xsd:attribute name = "Measure"
type = "measure" use = "default" value = "Read"/>
        <xsd:attribute name = "MeasurementSignificance"
type = "measurementSignificance" use = "optional"/>
        <xsd:attribute name = "MeterReader" type =
"meterReader" use = "optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

<!-- -->
  <xsd:complexType name = "ValidationInformationFull">
    <xsd:sequence>
      <xsd:element name = "AccountValidator" type =
"lengthThirty"/>
      <xsd:element name = "NameValidator" type =
"nameValLength"/>
      <xsd:element name = "AddressValidator" type =
"addressValLength"/>
    </xsd:sequence>
  </xsd:complexType>

<!-- -->
  <xsd:complexType name = "ValidationInformationStandard">
    <xsd:sequence>
      <xsd:element name = "AccountValidator" type =
"lengthThirty"/>
      <xsd:element name = "NameValidator" type =
"nameValLength" minOccurs = "0" maxOccurs = "1"/>
      <xsd:element name = "AddressValidator" type =
"addressValLength" minOccurs = "0" maxOccurs = "1"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>

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