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<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<sbe:messageSchema xmlns:sbe="http://fixprotocol.io/2016/sbe"
                    xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
                    xsi:schemaLocation="http://fixprotocol.io/2016/sbe
http://fixprotocol.io/2016/sbe/sbe.xsd"
                    package="com.thsmallexchange.feed.sbe"
                    id="2" version="1">
  <types>
    <composite name="messageHeader" description="Template ID and
length of message root">
      <type name="blockLength" primitiveType="uint16"/>
      <type name="templateId" primitiveType="uint16"/>
      <type name="schemaId" primitiveType="uint16"/>
      <type name="version" primitiveType="uint16"/>
    </composite>

    <type name="ChannelId" primitiveType="uint8"
semanticType="int"/>
    <type name="Incarnation" primitiveType="uint16" minValue="1"
semanticType="int"/>
    <type name="MessageSequence" primitiveType="uint32"
minValue="1" maxValue="4294967295" nullValue="0"
      presence="optional" semanticType="SeqNum"/>
    <type name="MessageCount" primitiveType="uint8"
semanticType="int"/>
    <type name="RateLimitTimeout" primitiveType="int64"
minValue="0" semanticType="int"/>

    <composite name="VarText" semanticType="data">
      <type name="length" primitiveType="uint16"/>
      <type name="varData" primitiveType="char" length="0"/>
    </composite>

    <composite name="PacketHeader" description="Header of data
packet" semanticType="data">
      <ref name="channelId" type="ChannelId"/>
      <ref name="incarnation" type="Incarnation"/>
      <ref name="source" type="Source"/>
      <ref name="flags" type="Flags"/>
      <ref name="messageSequence" type="MessageSequence"/>
      <ref name="messageCount" type="MessageCount"/>
    </composite>

    <composite name="FramingHeader" semanticType="data">
      <type name="frameLength" primitiveType="uint16"
semanticType="Length"/>
    </composite>

    <composite name="RetransmissionRequest" semanticType="data">

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        <ref name="channelId" type="ChannelId"/>
        <ref name="incarnation" type="Incarnation"/>
        <ref name="source" type="Source"/>
        <ref name="messageSequence" type="MessageSequence"/>
        <ref name="messageCount" type="MessageCount"/>
    </composite>

    <enum name="Source" encodingType="char" semanticType="char">
        <validValue name="INCREMENTAL"
description="Incremental">I</validValue>
        <validValue name="SNAPSHOT" description="Snapshot">S</
validValue>
        <validValue name="INDEX_SNAPSHOT" description="Index
Snapshot" sinceVersion="1">X</validValue>
    </enum>

    <set name="Flags" encodingType="uint8"
semanticType="MultipleCharValue">
        <choice name="incarnationEnd">0</choice>
        <choice name="retransmission">1</choice>
        <choice name="admin">2</choice>
    </set>

    <enum name="AdminResponseCode" encodingType="uint8"
semanticType="int">
        <validValue name="UNKNOWN_SOURCE"
description="No messages found for requested
channel, incarnation and source">1</validValue>
        <validValue name="REQUESTED_SEQUENCE_TOO_LOW"
description="Requested messages are behind of
available message range">2</validValue>
        <validValue name="REQUESTED_SEQUENCE_TOO_HIGH"
description="Requested messages are ahead of
available message range">3</validValue>
        <validValue name="RATE_LIMIT_VIOLATION"
description="Request rate limit violation">4</validValue>
        <validValue name="REQUEST_DROP" description="Service
cannot serve the request">5</validValue>
    </enum>
</types>

<sbe:message name="Packet" id="10001" description="Packet layout">
    <field name="packetHeader" type="PacketHeader" id="10000"/>
</sbe:message>

<sbe:message name="FramedData" id="10002" description="Framed data
layout">
    <field name="framingHeader" type="FramingHeader" id="10001"/>
</sbe:message>

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<sbe:message name="RetransmissionRequestMessage" id="10003">
  <field name="request" type="RetransmissionRequest" id="10002"/>
>
</sbe:message>

<sbe:message name="AdminResponse" id="1">
  <field id="1" name="requestedMessageSequence"
type="MessageSequence"/>
  <field id="2" name="requestedMessageCount"
type="MessageCount"/>
  <field id="3" name="responseCode" type="AdminResponseCode"/>
  <field id="4" name="rateLimitTimeout" type="RateLimitTimeout"/>
>
  <data id="5" name="description" type="VarText"/>
</sbe:message>
</sbe:messageSchema>
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