

**Oracle® Communications Interactive
Session Recorder**

Remote Archival Web Services Reference Guide

Release 5.1

Formerly Net-Net Interactive Session Recorder

January 2016

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About this Guide

Overview

The *Interactive Session Recorder Remote Archival Web Services Reference Guide* provides information including:

- What is the Remote Archival Web Service
- The Web Service Control methods, their request parameters, return results, and return code
- WSDL definitions
- DataType Definitions
- Sample getAdministrativeData Response
- Sample siprecDataSets Response
- Importing the Remote Archival Webservice's certificate into the client keystore

Note: This document covers the Server-side Web Service functions only and is in no way intended to represent a complete solution. This guide documents the SOAP functions that are available on the ISR for users looking to integrate the Remote Archival Web Service to retrieve recordings from the ISR.

Use this document in conjunction with the following documents:

- *Interactive Session Recorder Administrator's Guide*
 - User and Server Configuration
 - Running the Client
- *Interactive Session Recorder Release Notes Release 5.1*
 - SSL Configuration
- *Interactive Session Recorder Maintenance Release Guide Release 5.1*
 - Multiple Client Support

Related Documentation

The following table lists related documents.

Document Name	Document Description
Oracle Communications Interactive Session Recorder Release Notes	Contains information about new ISR features and fixed issues in each release of the ISR.
Oracle Communications Interactive Session Recorder Installation Guide	Provides an overview of the ISR, hardware/software requirements and recommendations, storage considerations, pre-installation information, CIS and RSS installation procedures, post-install verification and configuration procedures, setting up and making a test call, and additional advanced topics about the ISR.
Oracle Communications Interactive Session Recorder User's Guide	Contains information about using the ISR Dashboard for all levels of users. Provides information about viewing, playing, deleting recordings, running reports, managing user profiles (Super User, Account Administrator, and Tenant Administrator only).
Oracle Communications Interactive Session Recorder Administrator Guide	Contains information about using the ISR Dashboard for the Administrator level user (Super User, Account Administrator, and Tenant Administrator). Provides information about creating and managing accounts, routes, and users. Also provides information about configuring the ISR, running reports, and viewing active calls.
Oracle Communications Interactive Session Recorder API Reference Guide	Contains information about Methods for Recording, VoiceXML Commands, representational state transfer (REST) application programming interface (API), Recording File Types/Formats Supported, Return Codes, sendIPCRCommand.jsp Subdialog, Advanced Options, and Troubleshooting.
Oracle Communications Interactive Session Recorder Monitoring Guide	Contains information about installing and configuring the ISR Monitor. It also includes the Monitor database schema as well as the Monitor MIB.

Revision History

This section contains the revision history for this document.

Date	Revision Number	Description
December 23, 2015	Revision 1.00	Initial release of the <i>Oracle Communications Interactive Session Recording Remote Archival Web Services Reference Guide</i>

1 About the Remote Archival Web Service

Introduction

ISR Remote Archival (RA) allows customers to pull their recordings, in bulk, to a premise location. The RA Client (not provided) connects to the Remote Archival Web Service (RAWS) and retrieves all recordings for a single account configured on the host platform.

Remote Archiver Web Service Control Methods

The following are the supported Web Service control methods:

- **getNewAdministrativeData**—Retrieves account and route configuration information
- **getList**—Retrieves a list of the recordings that have not yet been moved to the remote site
- **getFile**—Retrieves the file and metadata for the requested recording
- **statusUpdate**—Updates the server with the status of a retrieval
- **getSessionStats**—Returns the call statistics configuration used by the ISR Dashboard reports, allowing the client application to offer historical reporting.

Note: All RAWS control methods require authorization using the email address and password of the RA User of the account associated with the IP of the originating request.

To use the RAWS efficiently, attempt the file retrieval process in the following order:

- Retrieve the list of recordings with **getList**
- For each item in the returned list, **getFile** is called to retrieve the file
- Upon completion (or failure) of the file retrieval, **statusUpdate** is called to update the ISR's data so that successfully retrieved recordings (as well as those that have failed the 'Max Allowed Attempts') no longer appear in the **getList** response.

getNewAdministrative Data

To facilitate account and user segregation, the Client application may require the account and route hierarchy used to generate recordings. The **getNewAdministrativeData** method returns the account configuration for each account associated with the IP address of the originating request, as well as all route configurations and metadata parameters for those accounts.

Request Parameters

Name	Type	Description
lastRunTime	xs:dateTime	Date and Time of the last getNewAdministrative Data Request Note: If this value is null, all administrative data for the account is returned. If this value is a valid date, only administrative data that has changed since the date is returned.

Return Results

Name	Type	Description
returnCode	xs:int	Return code
returnString	xs:string	Return message
currentRunTime	xs:dateTime	The time of the run for the data currently being returned. Note: This value should be used as the lastRunTime value for the next run.
account[]	Account Data Set	* See Appendix B for contents
route[]	Route Data Set	* See Appendix B for contents
memberRoute[]	Member Route Data Set	* See Appendix B for contents
metadataType[]	Metadata Type Data Set	* See Appendix B for contents

Note: Arrays are omitted if empty and are detailed in Appendix B.

Return Codes

Return Code	Return String
0	
1	No provisioned accounts for IP address
2	Error determining provisioned accounts for IP address
3	Error retrieving accounts
4	Error retrieving routes
5	Error retrieving member routes
6	Error retrieving metadata types

getList

The RA Client calls the **getList** method. Upon receipt, the RA Server authorizes the user, queries the CIS database for the account(s) associated with the user and originating IP address, and returns a list of completed recordings that have not been marked as already received by the RA Client.

The **getList** request requires no arguments.

Request Parameters

None

Return Results

Name	Type	Description
cdrPid	xs:long	Unique CDR ID
recordingId	xs:long	Unique Recording ID
fileName	xs:string	Recording File Name

Return Codes

Return Code	Return String
0	<null>
-1	No provisioned accounts for IP address
-1	GetList: error querying record details %SQL_Exception%
-1	GetList Exception: %Exception%

getFile

For each recording returned in response to a **getList** request, the RA Client initiates a **getFile** request to retrieve the recording metadata and file.

Request Parameters

Name	Type	Description
recordingId	xs:long	Unique Recording ID
fileName	xs:string	Recording File Name

Return Results

Name	Type	Description
cdrId	xs:long	Unique CDR ID
downloadable	xs:boolean	File downloadable
fileNotFound	xs:boolean	File Not Found on last playback
splitFile	xs:boolean	Recording made in two separate files (one for each channel)
recordingId	xs:long	Unique Recording ID
fileName	xs:string	Recording File Name
ani	xs:string	Calling Party Number
dnis	xs:string	Called Party Number
accountId	xs:int	Account ID for Recording
duration	xs:long	Recording duration; ms
timestamp	xs:dateTime	Date/Time recording started
vmgId	xs:int	ID of RSS server that completed recording
agentId	xs:string	Value added to Agent ID field by Dashboard user/third party application
custom1	xs:string	Value added to Custom 1 field by Dashboard user/third party application
custom2	xs:string	Value added to Custom 2 field by Dashboard user/third party application
custom3	xs:string	Value added to Custom 3 field by Dashboard user/third party application
custom4	xs:string	Value added to Custom 4 field by Dashboard user/third party application

Name	Type	Description
fileStatus	xs:int	Recording File Status
directory	xs:string	Directory of the Recording File
archivalFailCount	xs:int	Count of failed Archival attempts
agentTerminal	xs:string	Value added to Agent Terminal field by Dashboard user/third-party application
sensitive	xs:int	Sensitive
lastPauseTime	xs:dateTime	Date/Time of last unresumed pause
pauseLength	xs:int	Total length (ms) of pauses, without silence padding during recording
deleteFlag	xs:boolean	Delete flag
previousFileName	xs:string	Previous Recording File Name, used if file name change is pending
archiverAction	xs:int	Archiver action
conversionStatus	xs:int	Conversion status
isrUcid	xs:string	ISR UCID
ingressCallId	xs:string	Ingress Call ID
egressCallId	xs:string	Egress Call ID
dtmfEntry[]	DTMF Entry Data Sets	* See Appendix B for details
archived	xs:int	Archival Status
routeId	xs:long	Original Route ID
archiverMode	xs:string	Primary/Secondary Archiver
archivalRemarks	xs:string	Archival Remarks
siprecData[]	SIPREC Metadata Data Sets	* See Appendix B for details
return	xs:base64Binary	Recording File
returnCode	xs:int	Recording File Stream Return Code
returnString	xs:string	Recording File Stream Return String

Return Codes

Return Code	Return String
0	<null>
-1	File Not Found
-1	Unable to retrieve recording detail

statusUpdate

Once the RA Client successfully receives the recording file and metadata for each **getFile** command, it initiates a **statusUpdate** to alert the RA Server that it has successfully received the information. This triggers the RA server to update the database, marking the record as already sent, and delete the recording and data from the hosted instance, if enabled.

Request Parameters

Name	Type	Description
cdrId	xs:long	Unique CDR ID
recordingId	xs:long	Unique Recording ID
status	xs:int	Status Code; 0 = successful receipt, -1 = receipt failed
reason	xs:string	Status Comment

Return Results

Name	Type	Description
returnCode	xs:int	Return code
returnString	xs:string	Return message

Return Codes

Return Code	Return String
0	ACK
-1	Invalid Parameters

getSessionStats

The ISR maintains session statistics to be used for ISR Dashboard reports, which can also be useful for RA Client applications to provide similar reports. The **getSessionStats** method retrieves the call statistics for the accounts associated with the user and IP address of the originating request.

Request Parameters

Name	Type	Description
date	xs:dateTime	Date for which statistics are requested. If null, all statistics are returned.

Return Results

Name	Type	Description
returnCode	xs:int	Return code
returnString	xs:string	Return message
sessionStats[]	Session Stats Data Set	* See Appendix B for contents

Return Codes

Return Code	Return String
0	<null>
1	No provisioned accounts for IP address
2	Error determining provisioned accounts for IP address
3	Error retrieving session statistics

This appendix provides the WSDL definitions used by the RAWs.

```
<?xml version="1.0" encoding="UTF-8"?>
<definitions

  targetNamespace="http://www.acmepacket.com/NNISR/RemoteArchiverWS"
  "
    xmlns="http://schemas.xmlsoap.org/wsdl/"
    xmlns:tns1="http://www.acmepacket.com/NNISR/RemoteArchiverWS"
    xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
    xmlns:impl="http://www.acmepacket.com/NNISR/RemoteArchiverWS"
    xmlns:apachesoap="http://xml.apache.org/xml-soap"
    xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:wsdlsoap="http://schemas.xmlsoap.org/wsdl/soap/"
    xmlns:intf="http://www.acmepacket.com/NNISR/RemoteArchiverWS"
    xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
  >
  <types>
    <schema
      targetNamespace="http://www.acmepacket.com/NNISR/RemoteArchiverWS"
      " xmlns="http://www.w3.org/2001/XMLSchema"

      xmlns:ns0="http://www.acmepacket.com/NNISR/RemoteArchiverWS"
      xmlns:ns1="http://www.acmepacket.com/NNISR/RemoteArchiverWS"

      xmlns:ns2="http://www.acmepacket.com/NNISR/RemoteArchiverWS"
      xmlns:ns3="http://www.acmepacket.com/NNISR/RemoteArchiverWS"

      xmlns:ns4="http://www.acmepacket.com/NNISR/RemoteArchiverWS"
      xmlns:ns5="http://www.acmepacket.com/NNISR/RemoteArchiverWS"

      xmlns:ns6="http://www.acmepacket.com/NNISR/RemoteArchiverWS"
      xmlns:ns7="http://www.acmepacket.com/NNISR/RemoteArchiverWS"

      xmlns:ns8="http://www.acmepacket.com/NNISR/RemoteArchiverWS"
      xmlns:ns9="http://www.acmepacket.com/NNISR/RemoteArchiverWS">
      <import
        namespace="http://schemas.xmlsoap.org/soap/encoding/" />
      <complexType name="account">
        <xs:sequence>
          <xs:element name="action" type="xs:int"/>
          <xs:element name="accountId" type="xs:int"/>
          <xs:element name="accountName" type="xs:string"/>
        </xs:sequence>
      </complexType>
    </schema>
  </types>

```

```

        <xs:element name="accountDescription"
type="xs:string"/>
        <xs:element name="accountMisc" type="xs:string"/>
        <xs:element name="percentToRecord" type="xs:int"/>
        <xs:element name="recordingEnabled"
type="xs:int"/>
        <xs:element name="callMetaDataSource" type="xs:int"/>
        <xs:element name="announceEnabled"
type="xs:boolean"/>
        <xs:element name="defaultAnnounceAudioFile"
nillable="true" type="xs:string"/>
        <xs:element name="defaultAnnounceAudioText"
nillable="true" type="xs:string"/>
        <xs:element name="defaultOptOutVxmlFile"
nillable="true" type="xs:string"/>
        <xs:element name="optOutEnabled"
type="xs:boolean"/>
        <xs:element name="recorderState" type="xs:int"/>
        <xs:element name="defaultRecordingType"
type="xs:int"/>
        <xs:element name="customDataLabelsSource"
type="xs:int"/>
        <xs:element name="agentIdEditableFlag"
type="xs:boolean"/>
        <xs:element name="ratingEditableFlag"
type="xs:boolean"/>
        <xs:element name="completedEditableFlag"
type="xs:boolean"/>
        <xs:element name="notesEditableFlag"
type="xs:boolean"/>
        <xs:element name="customData1Name" nillable="true"
type="xs:string"/>
        <xs:element name="customData1FriendlyName"
type="xs:string"/>
        <xs:element name="customData1EditableFlag"
type="xs:boolean"/>
        <xs:element name="customData2Name" nillable="true"
type="xs:string"/>
        <xs:element name="customData2FriendlyName"
type="xs:string"/>
        <xs:element name="customData2EditableFlag"
type="xs:boolean"/>
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type="xs:string"/>
        <xs:element name="customData3FriendlyName"
type="xs:string"/>
        <xs:element name="customData3EditableFlag"
type="xs:boolean"/>
        <xs:element name="customData4Name" nillable="true"
type="xs:string"/>
        <xs:element name="customData4FriendlyName"
type="xs:string"/>
        <xs:element name="customData4EditableFlag"
type="xs:boolean"/>

```

```

        <xs:element name="application" nillable="true"
type="xs:string"/>
        <xs:element name="playBeepBeforeRecord"
type="xs:boolean"/>
        <xs:element name="terminateOnDtmf"
type="xs:boolean"/>
        <xs:element name="terminateOnEos" type="xs:int"/>
        <xs:element name="recurringBeepEnabled"
type="xs:boolean"/>
        <xs:element name="recurringBeepInterval"
type="xs:int"/>
        <xs:element name="recurringBeepFile"
nillable="true" type="xs:string"/>
        <xs:element name="recordSaveDtmf"
type="xs:string"/>
        <xs:element name="maximumNumberOfPorts"
type="xs:int"/>
        <xs:element name="numberOfBurstPorts"
type="xs:int"/>
        <xs:element name="acctPortLimit" type="xs:int"/>
        <xs:element name="showApplianceTabInRouteView"
type="xs:boolean"/>
        <xs:element name="storeDtmfSetting"
type="xs:int"/>
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<complexType name="route">
    <xs:sequence>
        <xs:element name="action" type="xs:int"/>
        <xs:element name="routeId" type="xs:int"/>
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type="xs:int"/>
        <xs:element minOccurs="0" name="routePattern"
type="xs:string"/>
        <xs:element minOccurs="0" name="label"
type="xs:string"/>
        <xs:element minOccurs="0" name="accountId"
type="xs:int"/>
        <xs:element minOccurs="0" name="percentToRecord"
type="xs:int"/>
        <xs:element minOccurs="0" name="recordingEnabled"
type="xs:int"/>
        <xs:element minOccurs="0"
name="defaultRecordingType" type="xs:int"/>
        <xs:element minOccurs="0"
name="virtualRoutePattern" type="xs:string"/>
        <xs:element minOccurs="0" name="announceAudioFile"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="announceAudioText"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="optOutVxmlFile"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="optOutEnabled"
type="xs:boolean"/>
    </xs:sequence>
</complexType>

```

```

        <xs:element minOccurs="0" name="announceEnabled"
type="xs:boolean"/>
        <xs:element minOccurs="0" name="customData1Name"
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        <xs:element minOccurs="0"
name="customData1FriendlyName" type="xs:string"/>
        <xs:element minOccurs="0"
name="customData1EditableFlag" type="xs:boolean"/>
        <xs:element minOccurs="0" name="customData2Name"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0"
name="customData2FriendlyName" type="xs:string"/>
        <xs:element minOccurs="0"
name="customData2EditableFlag" type="xs:boolean"/>
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nillable="true" type="xs:string"/>
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name="customData3FriendlyName" type="xs:string"/>
        <xs:element minOccurs="0"
name="customData3EditableFlag" type="xs:boolean"/>
        <xs:element minOccurs="0" name="customData4Name"
nillable="true" type="xs:string"/>
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name="customData4FriendlyName" type="xs:string"/>
        <xs:element minOccurs="0"
name="customData4EditableFlag" type="xs:boolean"/>
        <xs:element minOccurs="0" name="application"
nillable="true" type="xs:string"/>
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name="playBeepBeforeRecord" type="xs:boolean"/>
        <xs:element minOccurs="0" name="terminateOnDtmf"
type="xs:boolean"/>
        <xs:element minOccurs="0" name="terminateOnEos"
type="xs:int"/>
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type="xs:float"/>
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name="maximumNumberOfPorts" type="xs:int"/>
        <xs:element minOccurs="0"
name="minimumStorageDays" type="xs:int"/>
        <xs:element minOccurs="0"
name="numberOfBurstPorts" type="xs:int"/>
        <xs:element minOccurs="0"
name="storageGracePeriod" type="xs:int"/>
        <xs:element minOccurs="0"
name="recurringBeepEnabled" type="xs:boolean"/>
        <xs:element minOccurs="0"
name="recurringBeepInterval" type="xs:int"/>
        <xs:element minOccurs="0" name="recurringBeepFile"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="recordSaveDtmf"
type="xs:string"/>
        <xs:element minOccurs="0" name="callMetaDataSrc"
type="xs:int"/>
        <xs:element minOccurs="0"
name="agentIdEditableFlag" type="xs:boolean"/>

```

```

        <xs:element minOccurs="0"
name="ratingEditableFlag" type="xs:boolean"/>
        <xs:element minOccurs="0"
name="completedEditableFlag" type="xs:boolean"/>
        <xs:element minOccurs="0" name="notesEditableFlag"
type="xs:boolean"/>
        <xs:element name="storeDtmfSetting"
type="xs:int"/>
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</complexType>
<complexType name="memberRoute">
    <xs:sequence>
        <xs:element name="action" type="xs:int"/>
        <xs:element name="routeGroupMemberId"
type="xs:int"/>
        <xs:element minOccurs="0"
name="routeGroupMasterId" type="xs:int"/>
        <xs:element minOccurs="0" name="routePattern"
type="xs:string"/>
        <xs:element minOccurs="0"
name="virtualRoutePattern" type="xs:string"/>
    </xs:sequence>
</complexType>
<complexType name="metadataType">
    <xs:sequence>
        <xs:element name="action" type="xs:int"/>
        <xs:element name="metadataTypeId" type="xs:int"/>
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type="xs:string"/>
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name="sessionCorrelationNumber" nillable="true" type="xs:int"/>
        <xs:element minOccurs="0" name="nodeType"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="srcTypeId"
type="xs:int"/>
        <xs:element minOccurs="0" name="searchable"
nillable="true" type="xs:boolean"/>
        <xs:element minOccurs="0" name="isDisplayed"
nillable="true" type="xs:boolean"/>
    </xs:sequence>
</complexType>
<complexType name="getNewAdministrativeDataReqObject">
    <xs:sequence>
        <xs:element minOccurs="0" name="lastRunTime"
nillable="true" type="xs:dateTime"/>
    </xs:sequence>
</complexType>
<complexType name="getNewAdministrativeDataRespObject">
    <xs:sequence>
        <xs:element name="returnCode" type="xs:int"/>
        <xs:element name="returnString" nillable="true"
type="xs:string"/>

```

```

        <xs:element minOccurs="0" name="currentRunTime"
type="xs:dateTime"/>
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name="accounts" type="tns1:account"/>
        <xs:element maxOccurs="unbounded" minOccurs="0"
name="routes" type="tns1:route"/>
        <xs:element maxOccurs="unbounded" minOccurs="0"
name="memberRoutes" type="tns1:memberRoute"/>
        <xs:element maxOccurs="unbounded" minOccurs="0"
name="metadataTypes" type="tns1:metadataType"/>
    </xs:sequence>
</complexType>
<complexType name="sessionStats">
    <xs:sequence>
        <xs:element name="routeId" type="xs:int"/>
        <xs:element name="sessionDate"
type="xs:dateTime"/>
        <xs:element name="totalNumberOfSessions"
type="xs:int"/>
        <xs:element name="peakNumberOfSessions"
type="xs:int"/>
        <xs:element name="numberOfSessionsRejected"
type="xs:int"/>
        <xs:element name="numberOfBurstSessions"
type="xs:int"/>
        <xs:element name="recordingLengthMs"
type="xs:long"/>
        <xs:element name="numberOfSessionsRecorded"
type="xs:int"/>
        <xs:element name="systemCapacityReached"
type="xs:int"/>
        <xs:element name="routeCapacityReached"
type="xs:int"/>
        <xs:element name="accountCapacityReached"
type="xs:int"/>
    </xs:sequence>
</complexType>
<complexType name="getSessionStatsReqObject">
    <xs:sequence>
        <xs:element name="date" nillable="true"
type="xs:dateTime"/>
    </xs:sequence>
</complexType>
<complexType name="getSessionStatsRespObject">
    <xs:sequence>
        <xs:element name="returnCode" type="xs:int"/>
        <xs:element name="returnString" nillable="true"
type="xs:string"/>
        <xs:element maxOccurs="unbounded" minOccurs="0"
name="sessionStatsArray" nillable="true"
type="tns1:sessionStats"/>
    </xs:sequence>
</complexType>

```

```

    <complexType name="reqObject">
      <xs:sequence>
        <xs:element name="recordingId" type="xs:long"/>
        <xs:element name="fileName" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </complexType>
    <complexType name="respObject">
      <xs:sequence>
        <xs:element minOccurs="0" name="cdrId"
type="xs:long"/>
        <xs:element name="recordingId" type="xs:long"/>
        <xs:element name="fileName" type="xs:string"/>
        <xs:element minOccurs="0" name="fileStatus"
type="xs:int"/>
        <xs:element minOccurs="0" name="ani"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="dnis"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="accountId"
type="xs:int"/>
        <xs:element minOccurs="0" name="duration"
type="xs:long"/>
        <xs:element minOccurs="0" name="timestamp"
type="xs:dateTime"/>
        <xs:element minOccurs="0" name="directory"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="vmgId"
type="xs:int"/>
        <xs:element minOccurs="0" name="custom1"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="custom2"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="custom3"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="custom4"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="archived"
type="xs:int"/>
        <xs:element minOccurs="0" name="routeId"
type="xs:long"/>
        <xs:element minOccurs="0" name="archivalRemarks"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="archivalFailCount"
type="xs:int"/>
        <xs:element minOccurs="0" name="agentId"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="agentTerminal"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="archiverMode"
type="xs:string"/>
        <xs:element minOccurs="0" name="sensitive"
type="xs:int"/>

```

```

        <xs:element minOccurs="0" name="lastPauseTime"
nillable="true" type="xs:dateTime"/>
        <xs:element minOccurs="0" name="pauseLength"
type="xs:int"/>
        <xs:element minOccurs="0" name="deleteFlag"
type="xs:boolean"/>
        <xs:element minOccurs="0" name="previousFileName"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="archiverAction"
type="xs:int"/>
        <xs:element minOccurs="0" name="conversionStatus"
type="xs:int"/>
        <xs:element minOccurs="0" name="isrUcid"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="ingressCallId"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="egressCallId"
nillable="true" type="xs:string"/>
        <xs:element maxOccurs="unbounded" minOccurs="0"
name="siprecDataSets" type="tns1:siprecData"/>
        <xs:element maxOccurs="unbounded" minOccurs="0"
name="dtmfEntries" type="tns1:dtmfEntry"/>
        <xs:element name="returnCode" type="xs:int"/>
        <xs:element name="returnString" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="downloadable"
type="xs:boolean"/>
        <xs:element minOccurs="0" name="fileNotFound"
type="xs:boolean"/>
        <xs:element minOccurs="0" name="splitFile"
type="xs:boolean"/>
        <xs:element maxOccurs="2" minOccurs="0"
name="return" nillable="true" type="xs:base64Binary"/>
    </xs:sequence>
</complexType>
<complexType name="metadataCorrelationSet">
    <xs:sequence>
        <xs:element name="mcsId" type="xs:long"/>
        <xs:element name="metadataTypeId1" type="xs:int"/>
        <xs:element name="metadataValue1"
type="xs:string"/>
        <xs:element name="metadataTypeId2" type="xs:int"/>
        <xs:element name="metadataValue2"
type="xs:string"/>
    </xs:sequence>
</complexType>
<complexType name="extensionData">
    <xs:sequence>
        <xs:element name="extensionDataId"
type="xs:long"/>
        <xs:element name="nodeId" type="xs:long"/>
        <xs:element name="metadataTypeId" type="xs:int"/>

```

```

        <xs:element minOccurs="0" name="value"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="indexedValue"
nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="mcs"
nillable="true" type="impl:metadataCorrelationSet"/>
    </xs:sequence>
</complexType>
<complexType name="siprecParticipant">
    <xs:sequence>
        <xs:element name="participantId" type="xsd:long"/>
        <xs:element name="siprecParticipantId"
nillable="true" type="xsd:string"/>
        <xs:element name="participantAor" nillable="true"
type="xsd:string"/>
        <xs:element name="participantName" nillable="true"
type="xsd:string"/>
        <xs:element name="participantStart"
nillable="true" type="xsd:dateTime"/>
        <xs:element name="participantEnd" nillable="true"
type="xsd:dateTime"/>
        <xs:element maxOccurs="unbounded" minOccurs="0"
name="participantExtensionData"
type="impl:extensionData"/>
    </xs:sequence>
</complexType>
<complexType name="siprecSession">
    <xs:sequence>
        <xs:element name="sessionId" type="xsd:long"/>
        <xs:element name="siprecSessionId" nillable="true"
type="xsd:string"/>
        <xs:element name="sessionStart" nillable="true"
type="xsd:dateTime"/>
        <xs:element name="sessionEnd" nillable="true"
type="xsd:dateTime"/>
        <xs:element maxOccurs="unbounded" minOccurs="0"
name="sessionExtensionData" type="impl:extensionData"/>
    </xs:sequence>
</complexType>
<complexType name="siprecStream">
    <xs:sequence>
        <xs:element name="streamId" type="xsd:long"/>
        <xs:element name="siprecStreamId" nillable="true"
type="xsd:string"/>
        <xs:element name="streamLabel" nillable="true"
type="xsd:string"/>
        <xs:element name="streamMode" nillable="true"
type="xsd:string"/>
        <xs:element name="participantId" nillable="true"
type="xsd:long"/>
        <xs:element name="streamStart" nillable="true"
type="xsd:dateTime"/>

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        <xs:element name="streamEnd" nillable="true"
type="xsd:dateTime"/>
        <xs:element maxOccurs="unbounded" minOccurs="0"
name="streamExtensionData" type="impl:extensionData"/>
    </xs:sequence>
</complexType>
<complexType name="siprecData">
    <xs:sequence>
        <xs:element maxOccurs="unbounded" minOccurs="0"
name="siprecParticipants" nillable="true"
type="impl:siprecParticipant"/>
        <xs:element name="siprecSession" nillable="true"
type="impl:siprecSession"/>
        <xs:element maxOccurs="unbounded" minOccurs="0"
name="siprecStreams" nillable="true"
type="impl:siprecStream"/>
    </xs:sequence>
</complexType>
<complexType name="dtmfEntry">
    <xs:sequence>
        <xs:element minOccurs="0" name="msOffset"
type="xs:long"/>
        <xs:element minOccurs="0" name="originSource"
type="xs:int"/>
        <xs:element minOccurs="0" name="dtmfDigit"
type="xs:int"/>
    </xs:sequence>
</complexType>
<complexType name="reqObject_Array">
    <xs:sequence>
        <xs:element maxOccurs="unbounded" minOccurs="0"
name="gfRequest" nillable="true" type="tns1:reqObject"/>
    </xs:sequence>
</complexType>
<complexType name="respObject_Array">
    <xs:sequence>
        <xs:element maxOccurs="unbounded" minOccurs="0"
name="gfResponse" nillable="true" type="tns1:respObject"/>
    </xs:sequence>
</complexType>
<complexType name="getListReqObj">
    <xs:sequence/>
</complexType>
<complexType name="recordItem">
    <xs:sequence>
        <xs:element name="cdrId" type="xs:long"/>
        <xs:element name="recordingId" type="xs:long"/>
        <xs:element name="fileName" nillable="true"
type="xs:string"/>
    </xs:sequence>

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</complexType>
<complexType name="recordItem_array">
  <xs:sequence>
    <xs:element maxOccurs="unbounded" minOccurs="0"
name="recordItemArray" nillable="true"
      type="tns1:recordItem"/>
  </xs:sequence>
</complexType>
<complexType name="getListRespObj">
  <xs:sequence>
    <xs:element name="recordingList" nillable="true"
type="tns1:recordItem_array"/>
    <xs:element name="returnCode" type="xs:int"/>
    <xs:element name="returnString" nillable="true"
type="xs:string"/>
  </xs:sequence>
</complexType>
<complexType name="statusUpdateReqObj">
  <xs:sequence>
    <xs:element name="cdrId" type="xs:long"/>
    <xs:element name="recordingId" type="xs:long"/>
    <xs:element name="status" type="xs:int"/>
    <xs:element name="reason" nillable="true"
type="xs:string"/>
  </xs:sequence>
</complexType>
<complexType name="statusUpdateRespObj">
  <xs:sequence>
    <xs:element name="returnCode" type="xs:int"/>
    <xs:element name="returnString" nillable="true"
type="xs:string"/>
  </xs:sequence>
</complexType>
<xsd:element name="getNewAdministrativeData">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element form="unqualified"
name="parameters" type="ns0:getNewAdministrativeDataReqObject"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="statusUpdate">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element form="unqualified"
name="parameters" type="ns1:statusUpdateReqObj"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

```

```

<xsd:element name="getFile">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element form="unqualified"
name="parameters" type="ns2:reqObject_Array"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="getSessionStats">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element form="unqualified"
name="parameters" type="ns3:getSessionStatsReqObject"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="getList">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element form="unqualified"
name="parameters" type="ns4:getListReqObj"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="getNewAdministrativeDataResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element form="unqualified"
name="parameters" type="ns5:getNewAdministrativeDataRespObject"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="statusUpdateResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element form="unqualified"
name="parameters" type="ns6:statusUpdateRespObj"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="getFileResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element form="unqualified"
name="parameters" type="ns7:respObject_Array"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

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        <xsd:element name="getSessionStatsResponse">
            <xsd:complexType>
                <xsd:sequence>
                    <xsd:element form="unqualified"
name="parameters" type="ns8:getSessionStatsRespObject"/>
                </xsd:sequence>
            </xsd:complexType>
        </xsd:element>
        <xsd:element name="getListResponse">
            <xsd:complexType>
                <xsd:sequence>
                    <xsd:element form="unqualified"
name="parameters" type="ns9:getListRespObj"/>
                </xsd:sequence>
            </xsd:complexType>
        </xsd:element>
    </schema>
</types>
    <message name="getNewAdministrativeDataRequest">
        <part name="parameters"
type="tns1:getNewAdministrativeDataReqObject"/>
    </message>
    <message name="getNewAdministrativeDataResponse">
        <part name="parameters"
type="tns1:getNewAdministrativeDataRespObject"/>
    </message>
    <message name="getSessionStatsRequest">
        <part name="parameters"
type="tns1:getSessionStatsReqObject"/>
    </message>
    <message name="getSessionStatsResponse">
        <part name="parameters"
type="tns1:getSessionStatsRespObject"/>
    </message>
    <message name="getFileRequest">
        <part name="parameters" type="tns1:reqObject_Array"/>
    </message>
    <message name="getFileResponse">
        <part name="parameters" type="tns1:respObject_Array"/>
    </message>
    <message name="getListRequest">
        <part name="parameters" type="tns1:getListReqObj"/>
    </message>
    <message name="getListResponse">
        <part name="parameters" type="tns1:getListRespObj"/>
    </message>
    <message name="statusUpdateRequest">
        <part name="parameters" type="tns1:statusUpdateReqObj"/>
    </message>

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</message>
<message name="statusUpdateResponse">
  <part name="parameters" type="tns1:statusUpdateRespObj"/>
</message>
<portType name="RemoteArchiverWSPortType">
  <operation name="getNewAdministrativeData">
    <input name="getNewAdministrativeDataRequest"
message="tns1:getNewAdministrativeDataRequest"/>
    <output name="getNewAdministrativeDataResponse"
message="tns1:getNewAdministrativeDataResponse"/>
  </operation>
  <operation name="getSessionStats">
    <input name="getSessionStatsRequest"
message="tns1:getSessionStatsRequest"/>
    <output name="getSessionStatsResponse"
message="tns1:getSessionStatsResponse"/>
  </operation>
  <operation name="getFile">
    <input name="getFileRequest"
message="tns1:getFileRequest"/>
    <output name="getFileResponse"
message="tns1:getFileResponse"/>
  </operation>
  <operation name="getList">
    <input name="getListRequest"
message="tns1:getListRequest"/>
    <output name="getListResponse"
message="tns1:getListResponse"/>
  </operation>
  <operation name="statusUpdate">
    <input name="statusUpdateRequest"
message="tns1:statusUpdateRequest"/>
    <output name="statusUpdateResponse"
message="tns1:statusUpdateResponse"/>
  </operation>
</portType>
<binding name="RemoteArchiverWSSoapBinding"
type="tns1:RemoteArchiverWSPortType">
  <wsdlsoap:binding style="rpc"
transport="http://schemas.xmlsoap.org/soap/http"/>
  <operation name="getNewAdministrativeData">
    <wsdlsoap:operation soapAction="">
      <input name="getNewAdministrativeDataRequest">
        <wsdlsoap:body use="literal"
namespace="http://www.acmepacket.com/NNISR/RemoteArchiverWS"
encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
      </input>
      <output name="getNewAdministrativeDataResponse">
        <wsdlsoap:body use="literal"
namespace="http://www.acmepacket.com/NNISR/RemoteArchiverWS"

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encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
    </output>
</operation>
<operation name="getSessionStats">
    <wsdlsoap:operation soapAction=""/>
    <input name="getSessionStatsRequest">
        <wsdlsoap:body use="literal"
namespace="http://www.acmepacket.com/NNISR/RemoteArchiverWS"
encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
    </input>
    <output name="getSessionStatsResponse">
        <wsdlsoap:body use="literal"
namespace="http://www.acmepacket.com/NNISR/RemoteArchiverWS"
encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
    </output>
</operation>
<operation name="getFile">
    <wsdlsoap:operation soapAction=""/>
    <input name="getFileRequest">
        <wsdlsoap:body use="literal"
namespace="http://www.acmepacket.com/NNISR/RemoteArchiverWS"
encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
    </input>
    <output name="getFileResponse">
        <wsdlsoap:body use="literal"
namespace="http://www.acmepacket.com/NNISR/RemoteArchiverWS"
encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
    </output>
</operation>
<operation name="getList">
    <wsdlsoap:operation soapAction=""/>
    <input name="getListRequest">
        <wsdlsoap:body use="literal"
namespace="http://www.acmepacket.com/NNISR/RemoteArchiverWS"
encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
    </input>
    <output name="getListResponse">
        <wsdlsoap:body use="literal"
namespace="http://www.acmepacket.com/NNISR/RemoteArchiverWS"
encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
    </output>
</operation>
<operation name="statusUpdate">
    <wsdlsoap:operation soapAction=""/>

```

```
        <input name="statusUpdateRequest">
            <wsdlsoap:body use="literal"
namespace="http://www.acmepacket.com/NNISR/RemoteArchiverWS"

encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
        </input>
        <output name="statusUpdateResponse">
            <wsdlsoap:body use="literal"
namespace="http://www.acmepacket.com/NNISR/RemoteArchiverWS"

encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
        </output>
    </operation>
</binding>
<service name="RemoteArchiverWS">
    <port name="RemoteArchiverWSService"
binding="tns1:RemoteArchiverWSSoapBinding">
        <wsdlsoap:address
location="http://169.254.1.30:8080/RemoteArchiver/services/Remote
ArchiverWS/">
    </port>
</service>
</definitions>
```

B

DataType Definitions

This appendix provides the ISR RAWS DataType definitions.

Account Data Set

FieldName	FieldType	Supported Values	Description
action	int	0=add 1=update 2=delete	
accountId	int(10) unsigned		Primary key
accountName	varchar(45)	Text	Name of the account
accountDescription	varchar(45)	Text	Description of the account
accountMisc	varchar(45)	Text	Miscellaneous field for account identification
percentToRecord	smallint(5)	0-100	Default recording percentage for routes created under this account
recordingEnabled	tinyint(3)	0=recording disabled 1=recording enabled	Whether recording is enabled by default for routes created under this account
callMetaDataSrc	tinyint(1)	0=none 1=TSPAI	Reserved for future use
announceEnabled	tinyint(1)	0=announcement disabled 1=announcement enabled	Whether announcements are enabled by default for routes created under this account
defaultAnnounceAudioFile	varchar(100)	Text	Default announcement audio file for routes created under this account
defaultAnnounceAudioText	varchar(200)	Text	Default announcement text for routes created under this account
defaultOptOutVxmlFile	varchar(100)	Text	Default VXML file for implementing opt-out on routes created under this account
optOutEnabled	tinyint(1)	0=disabled 1=enabled	Whether opt out is enabled by default for routes created under this account
recorderState	smallint(5) unsigned	0=disabled 1=enabled	Whether calls are recorded by default for routes under this account
defaultRecordingType	tinyint(3) unsigned	See the <i>Oracle Communications Interactive Session Recorder Administrator Guide</i> for supported recording formats	The default recording format used for all routes under this account
customDataLabelsSource	tinyint(3) unsigned	0=Route 1=Account	If 0, custom field labels defined at route are shown. If 1, labels defined at account are shown
agentIdEditableFlag	tinyint(3) unsigned	0=not editable 1=editable	Whether users can edit the data in the recordings.agent_id field

FieldName	FieldType	Supported Values	Description
ratingEditableFlag	tinyint(3) unsigned	0=not editable 1=editable	Whether users can edit the data in the Rating field (rec_notes_and_scoring.user_rating)
completeEditableFlag	tinyint(3) unsigned	0=not editable 1=editable	Whether users can edit the data in the Complete Transaction field (rec_notes_and_scoring.complete_status)
notesEditableFlag	tinyint(3) unsigned	0=not editable 1=editable	Whether users can edit the data in the Notes field (rec_notes_and_scoring.notes)
customData1Name	varchar(45)	Text	Name of Custom Data 1 Field (must match API calls)
customData1Friendly Name	varchar(45)	Text	Displayed name of Custom Data 1 Field
customData1Editable Flag	tinyint(3) unsigned	0=not editable 1=editable	Whether users can edit Custom Data 1 Field
customData2Name	varchar(45)	Text	Name of Custom Data 2 Field (must match API calls)
customData2Friendly Name	varchar(45)	Text	Displayed name of Custom Data 2 Field
customData2Editable Flag	tinyint(3) unsigned	0=not editable 1=editable	Whether users can edit CustomData 2 Field
customData3Name	varchar(45)	Text	Name of Custom Data 3 Field (must match API calls)
customData3Friendly Name	varchar(45)	Text	Displayed name of Custom Data 3 Field
customData3Editable Flag	tinyint(3) unsigned	0=not editable 1=editable	Whether users can edit CustomData 3 Field
customData4Name	varchar(45)	Text	Name of Custom Data 4 Field (must match API calls)
customData4Friendly Name	varchar(45)	Text	Displayed name of Custom Data 4 Field
customData4Editable Flag	tinyint(3) unsigned	0=not editable 1=editable	Whether users can edit CustomData 4 Field
application	varchar(45)	passthru, conference, callparking, recordandsave, VAMTest	Default route type used for routes under this account
playBeepBeforeRecord	tinyint(3) unsigned	0=do not play 1=play	Whether the beep tone is played by default on a conference route under this account
terminateOnDtmf	tinyint(3) unsigned	0=do not terminate on dtmf press 1=terminate on dtmf press	Whether a conference mode recording terminates on DTM entry
terminateOnEos	tinyint(4)	0=do not terminate on eos 1=terminate on eos	Whether a conference mode recording terminates on End of Speech*
recurringBeepEnabled	tinyint(3) unsigned	0-disabled 1=enabled	Enables or disables recurring beep played during recording
recurringBeepInterval	int(10) unsigned		If recurringBeepEnabled is enabled, how often the beep is played

FieldName	FieldType	Supported Values	Description
recurringBeepFile	varchar(45)	File Name	Name of file, stored in RSS Cache, that should be played
recordSaveDtmf	varchar(1)	0-9, #, *	Single DTMF digit that saves a recording made on a Record & Save route
maximumNumberOfPorts	int(10) unsigned		Default maximum number of simultaneous sessions a route created on this account is able to support
numberOfBurstPorts	int(10) unsigned		Default number of sessions over maximum that the route is able to use. These sessions are reported separately
acctPortLimit	Int(11)		The maximum number of sessions ALL routes on this account are able to use (-1 for unlimited)
showApplianceTabInRouteView	tinyint(3) unsigned		Whether account's routes are allowed to see and use the Appliance Tab
storeDtmfSetting	tinyint(4)	0=do not store DTMF 1=store DTMF	Whether or not DTMF should be stored for recordings created on this account.

Route Data Set

FieldName	FieldType	Supported Values	Description
action	int	0=add 1=update 2=delete	
routeId	int(10) unsigned	Auto increment	Primary key
routeType	tinyint(3) unsigned	0=DNIS 1=ANI 2=ANI/DNIS	Type of route
routePattern	varchar(100)		Value to be evaluated
label	varchar(100)		Value to be shown as DNIS in recording list
accountId	int(10) unsigned		accounts.account_id to which the route belongs
percentToRecord	smallint(5)	0-100	Percentage of sessions to record
recordingEnabled	tinyint(3)	0=recording disabled 1=recording enabled	Whether recording is enabled for this route
defaultRecordingType	tinyint(3) unsigned	See the <i>Oracle Communications Interactive Session Recorder Administrator Guide</i> for supported recording formats	The default recording format used for this route
virtualRoutePattern	varchar(100)		User value that is set in the SIP URI on call leg from the RSS
announceAudioFile	varchar(100)	Text	Announcement to be played on this route
announceAudioText	varchar(200)	Text	TTS fallback in the event the announcement file is not available
optOutVxmlFile	varchar(100)	Text	VXML file for implementing opt-out on this route

FieldName	FieldType	Supported Values	Description
optOutEnabled	boolean	0=disabled 1=enabled	Whether opt out is enabled
announceEnabled	boolean	0=announcement disabled 1=announcement enabled	Whether announcements are enabled for this route
customData1Name	varchar(45)	Text	Name of Custom Data 1 Field (must match API calls)
customData1Friendly Name	varchar(45)	Text	Displayed name of Custom Data 1 Field
customData1Editable Flag	boolean	0=not editable 1=editable	Whether users can edit Custom Data 1 Field
customData2Name	varchar(45)	Text	Name of Custom Data 2 Field (must match API calls)
customData2Friendly Name	varchar(45)	Text	Displayed name of Custom Data 2 Field
customData2Editable Flag	boolean	0=not editable 1=editable	Whether users can edit CustomData 2 Field
customData3Name	varchar(45)	Text	Name of Custom Data 3 Field (must match API calls)
customData3Friendly Name	varchar(45)	Text	Displayed name of Custom Data 3 Field
customData3Editable Flag	boolean	0=not editable 1=editable	Whether users can edit CustomData 3 Field
customData4Name	varchar(45)	Text	Name of Custom Data 4 Field (must match API calls)
customData4Friendly Name	varchar(45)	Text	Displayed name of Custom Data 4 Field
customData4Editable Flag	boolean	0=not editable 1=editable	Whether users can edit CustomData 4 Field
application	varchar(45)	passthru, conference, callparking, recordandsave, VAMTest	Route type used for this route
playBeepBeforeRecord	boolean	0=do not play 1=play	Whether the beep tone is played on route
terminateOnDtmf	boolean	0=do not terminate on DTMF 1=terminate on DTMF	Whether a conference mode recording terminates on DTMF entry
terminateOnEos	tinyint(4)		Whether a conference mode recording terminates on End of Speech
priority	float		Order in which routes are evaluated
maximumNumberOfPorts	int(11) unsigned		Maximum number of simultaneous sessions this route is able to support
minimumStorageDays	int(10)		Minimum number of days recordings are kept
numberOfBurstPorts	int(10) unsigned		Default number of ports over maximum that the route is able to use. These ports are reported separately
storageGracePeriod	int(10) unsigned		Number of days over minimumStorageDays that archiver should keep the recording before deleting

FieldName	FieldType	Supported Values	Description
recurringBeepEnabled	boolean	0=disabled 1=enabled	Enables or disables recurring beep played during recording
recurringBeepInterval	int(10) unsigned		If recurringBeepEnabled is enabled, how often should the beep be played
recurringBeepFile	varchar(45)	File Name	Name of file, stored in RSS Cache, that should be played
recordSaveDtmf	varchar(1)		Single-digit DTMF that saves a recording made on a Record & Save route
callMetaDataSrc			Reserved for future use
agentIdEditableFlag	boolean	0=not editable 1=editable	Whether users can edit the data in the agent_id field
ratingEditableFlag	boolean	0=not editable 1=editable	Whether users can edit the data in the Rating field
completedEditableFlag	boolean	0=not editable 1=editable	Whether users can edit the data in the Complete Transaction field
notesEditableFlag	boolean	0=not editable 1=editable	Whether users can edit the Notes field
storeDtmfSetting	tinyint(4)	0=do not store DTMF 1=store DTMF	Whether or not DTMF should be stored for recordings created on this route.

Member Route Data Set

FieldName	FieldType	Supported Values	Description
action	int	0=add 1=update 2=delete	
routeGroupMemberId	int(10) unsigned	Auto increment	Primary key
routeGroupMasterId	int(10) unsigned		RouteId of Master Route
routePattern	varchar(100)		Value to be evaluated
virtualRoutePattern	varchar(100)		User value set in the SIP URI on the call leg from the RSS

Metadata Type Data Set

FieldName	FieldType	Supported Values	Description
action	int	0=add 1=update 2=delete	
metadataTypeId	int	Auto increment	Primary key

FieldName	FieldType	Supported Values	Description
name	string	Parameter Name	Metadata field name
sessionCorrelationNumber	int		
nodeType	string	session, participant, stream	Identifies which extension data node the value is found in
srcTypeid	int	1 2	
searchable	boolean	0=not searchable in Dashboard 1=searchable in Dashboard	
isDisplayed	boolean	0=not displayed in recording details 1=is displayed in recording details	

Siprecdata Data Sets

FieldName	FieldType	Supported Values	Description
siprecSession	SiprecSession		SiprecSession data element
siprecParticipants	SiprecParticipant		SiprecParticipant data element(s)
siprecStreams	SiprecStream		SiprecStream data element(s)

SiprecSession Data Sets

FieldName	FieldType	Supported Values	Description
sessionId	Long	Auto increment	Primary key
sipredSessionId	String		SIPREC Session ID
sessionStart	Calendar		Session Start Date and Time
sessionEnd	Calendar		Session End Date and Time
sessionExtensionData	ExtensionData		ExtensionData element(s)

SiprecParticipant Data Sets

FieldName	FieldType	Supported Values	Description
participantId	Long	Auto increment	Primary key
siprecParticipantId	String		SIPREC Participant ID
participantName	String		Participant's CID name

FieldName	FieldType	Supported Values	Description
participantAor	String		Participant's AOR
participantStart	Calendar		Date and Time Participant joined session
participantEnd	Calendar		Date and Time Participant exited session
participantExtensionData	ExtensionData		ExtensionData element(s)

SiprecStream Data Sets

FieldName	FieldType	Supported Values	Description
streamId	Long	Auto increment	Primary key
siprecStreamId	String		SIPREC Stream ID
streamLabel	String		Stream Label
streamMode	String		Stream Mode
participantId	Long		Participant ID associated with this Stream
streamStart	Calendar		Date and Time Stream started
streamEnd	Calendar		Date and Time Stream ended
streamExtensionData	ExtensionData		ExtensionData element(s)

ExtensionData Data Sets

FieldName	FieldType	Supported Values	Description
extensionDataId	Long	Auto increment	Primary key
nodeId	Long		Associated Session, Stream, or Participant ID
metadataTypeId	int		MetadataType ID
value	String		The non-searchable value associated with the Metadata Type. Only one of value or indexedValue is filled.
indexedValue	String		The searchable value associated iwth the Metadata Type. Only one of value or indexedValue is filled.
mcs	MetadataCorrelationSet		MetadataCorrelationSet element(s)

MetadataCorrelationSet Data Sets

FieldName	FieldType	Supported Values	Description
mcsId	Long	Auto increment	Primary key
metadataTypeId1	Int		
metadataValue1	String		
metadataTypeId2	Int		
metadataValue2	String		

DtmfEntry Data Sets

FieldName	FieldType	Supported Values	Description
dtmfDigit	int	0-9, #, *	DTMF digit
msOffset	long		Offset of the DTMF digit in milliseconds from start of recording.
originSource	int		Source of the DTMF digit (1=caller, 2=callee)

C Response

Sample getAdministrativeData

This appendix provides an example response to a getAdministrativeData request.

```
<?xml version='1.0' encoding='utf-8'?>
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Body>
    <ns1:getNewAdministrativeDataResponse

xmlns:ns1="http://www.acmepacket.com/ISR/RemoteArchiverWS">
      <parameters>
        <returnCode>0</returnCode>
        <returnString
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:nil="1" />
        <currentRunTime>2012-08-29T11:36:40.000-
04:00</currentRunTime>
        <accounts>
          <action>0</action>
          <accountId>1</accountId>
          <accountName>System</accountName>
          <accountDescription>Systemic</accountDescription>
          <accountMisc>System</accountMisc>
          <percentToRecord>20</percentToRecord>
          <recordingEnabled>1</recordingEnabled>
          <callMetaDataSrc>0</callMetaDataSrc>
          <announceEnabled>>false</announceEnabled>
          <defaultAnnounceAudioFile></defaultAnnounceAudioFile>
          <defaultAnnounceAudioText></defaultAnnounceAudioText>

          <defaultOptOutVxmlFile>opt_out.jsp</defaultOptOutVxmlFile>
          <optOutEnabled>>false</optOutEnabled>
          <recorderState>1</recorderState>
          <defaultRecordingType>8</defaultRecordingType>
          <customDataLabelsSource>0</customDataLabelsSource>
          <agentIdEditableFlag>>false</agentIdEditableFlag>
          <ratingEditableFlag>>false</ratingEditableFlag>
          <completedEditableFlag>>false</completedEditableFlag>
          <notesEditableFlag>>false</notesEditableFlag>
          <customData1Name></customData1Name>
          <customData1FriendlyName></customData1FriendlyName>
```

```

<customData1EditableFlag>true</customData1EditableFlag>
<customData2Name></customData2Name>
<customData2FriendlyName></customData2FriendlyName>
<customData2EditableFlag>true</customData2EditableFlag>
<customData3Name></customData3Name>
<customData3FriendlyName></customData3FriendlyName>
<customData3EditableFlag>true</customData3EditableFlag>
<customData4Name></customData4Name>
<customData4FriendlyName></customData4FriendlyName>
<customData4EditableFlag>true</customData4EditableFlag>
<application>conference</application>
<playBeepBeforeRecord>false</playBeepBeforeRecord>
<terminateOnDtmf>false</terminateOnDtmf>
<terminateOnEos>-1</terminateOnEos>
<recurringBeepEnabled>false</recurringBeepEnabled>
<recurringBeepInterval>30</recurringBeepInterval>
<recurringBeepFile>beep.wav</recurringBeepFile>
<recordSaveDtmf>#</recordSaveDtmf>
<maximumNumberOfPorts>24</maximumNumberOfPorts>
<numberOfBurstPorts>6</numberOfBurstPorts>
<acctPortLimit>-1</acctPortLimit>

<showApplianceTabInRouteView>false</showApplianceTabInRouteView>
    <storeDtmfSetting>0</storeDtmfSetting>
</accounts>
<routes>
<action>0</action>
<routeId>2</routeId>
<routeType>1</routeType>
<routePattern>blah</routePattern>
<label></label>
<accountId>1</accountId>
<percentToRecord>0</percentToRecord>
<recordingEnabled>1</recordingEnabled>
<defaultRecordingType>0</defaultRecordingType>
<virtualRoutePattern>blah</virtualRoutePattern>
<announceAudioFile></announceAudioFile>
<announceAudioText></announceAudioText>
<optOutVxmlFile></optOutVxmlFile>
<optOutEnabled>true</optOutEnabled>
<announceEnabled>false</announceEnabled>
<customData1Name
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="1"
/>

```

```

    <customData1FriendlyName>Custom Data Field

1</customData1FriendlyName>
    <customData1EditableFlag>true</customData1EditableFlag>
    <customData2Name

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="1"
/>
    <customData2FriendlyName>Custom Data Field

2</customData2FriendlyName>
    <customData2EditableFlag>true</customData2EditableFlag>
    <customData3Name

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="1"
/>
    <customData3FriendlyName>Custom Data Field

3</customData3FriendlyName>
    <customData3EditableFlag>true</customData3EditableFlag>
    <customData4Name

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="1"
/>
    <customData4FriendlyName>Custom Data Field

4</customData4FriendlyName>
    <customData4EditableFlag>true</customData4EditableFlag>
    <application>conference</application>
    <playBeepBeforeRecord>>false</playBeepBeforeRecord>
    <terminateOnDtmf>>false</terminateOnDtmf>
    <terminateOnEos>-1</terminateOnEos>
    <priority>0.5</priority>
    <maximumNumberOfPorts>-1</maximumNumberOfPorts>
    <minimumStorageDays>90</minimumStorageDays>
    <numberOfBurstPorts>6</numberOfBurstPorts>
    <storageGracePeriod>0</storageGracePeriod>
    <recurringBeepEnabled>true</recurringBeepEnabled>
    <recurringBeepInterval>7</recurringBeepInterval>
    <recurringBeepFile>beep.wav</recurringBeepFile>
    <recordSaveDtmf>#</recordSaveDtmf>
    <callMetaDataSrc>0</callMetaDataSrc>
    <agentIdEditableFlag>true</agentIdEditableFlag>
    <ratingEditableFlag>true</ratingEditableFlag>
    <completedEditableFlag>true</completedEditableFlag>
    <notesEditableFlag>true</notesEditableFlag>
    <storeDtmfSetting>0</storeDtmfSetting>

```

```

        </routes>
        <routes>
        <action>0</action>
        <routeId>4</routeId>
        <routeType>0</routeType>
        <routePattern>sdf</routePattern>
        <label></label>
        <accountId>1</accountId>
        <percentToRecord>-1</percentToRecord>
        <recordingEnabled>-1</recordingEnabled>
        <defaultRecordingType>0</defaultRecordingType>
        <virtualRoutePattern></virtualRoutePattern>
        <announceAudioFile

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="1"
/>
        <announceAudioText

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="1"
/>
        <optOutVxmlFile
xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:nil="1" />
        <optOutEnabled>>false</optOutEnabled>
        <announceEnabled>>false</announceEnabled>
        <customData1Name

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="1"
/>
        <customData1FriendlyName>Custom Data Field

1</customData1FriendlyName>
        <customData1EditableFlag>>false</customData1EditableFlag>
        <customData2Name

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="1"
/>
        <customData2FriendlyName>Custom Data Field

2</customData2FriendlyName>
        <customData2EditableFlag>>false</customData2EditableFlag>
        <customData3Name

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="1"
/>
        <customData3FriendlyName>Custom Data Field

```

```

3</customData3FriendlyName>
    <customData3EditableFlag>>false</customData3EditableFlag>
    <customData4Name

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="1"
/>
    <customData4FriendlyName>Custom Data Field

4</customData4FriendlyName>
    <customData4EditableFlag>>false</customData4EditableFlag>
    <application xmlns:xsi="http://www.w3.org/2001/XMLSchema-

instance" xsi:nil="1" />
    <playBeepBeforeRecord>>false</playBeepBeforeRecord>
    <terminateOnDtmf>>false</terminateOnDtmf>
    <terminateOnEos>-1</terminateOnEos>
    <priority>0.5</priority>
    <maximumNumberOfPorts>24</maximumNumberOfPorts>
    <minimumStorageDays>90</minimumStorageDays>
    <numberOfBurstPorts>6</numberOfBurstPorts>
    <storageGracePeriod>0</storageGracePeriod>
    <recurringBeepEnabled>>false</recurringBeepEnabled>
    <recurringBeepInterval>30</recurringBeepInterval>
    <recurringBeepFile>beep.wav</recurringBeepFile>
    <recordSaveDtmf>#</recordSaveDtmf>
    <callMetaDataSrc>0</callMetaDataSrc>
    <agentIdEditableFlag>>true</agentIdEditableFlag>
    <ratingEditableFlag>>true</ratingEditableFlag>
    <completedEditableFlag>>true</completedEditableFlag>
    <notesEditableFlag>>true</notesEditableFlag>
    <storeDtmfSetting>0</storeDtmfSetting>
</routes>
<metadataTypes>
<action>0</action>
<metadataTypeId>1</metadataTypeId>
<name>apkt:ucid</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>1</srcTypeId>
<searchable>true</searchable>
<isDisplayed>false</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>2</metadataTypeId>
<name>apkt:callerOrig</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>

```

```

<nodeType>session</nodeType>
<srcTypeId>1</srcTypeId>
<searchable>false</searchable>
<isDisplayed>false</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>3</metadataTypeId>
<name>apkt:callingParty</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>participant</nodeType>
<srcTypeId>1</srcTypeId>
<searchable>false</searchable>
<isDisplayed>false</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>4</metadataTypeId>
<name>apkt:ReferringParty</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>1</srcTypeId>
<searchable>false</searchable>
<isDisplayed>false</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>5</metadataTypeId>
<name>apkt:ReferredParty</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>1</srcTypeId>
<searchable>false</searchable>
<isDisplayed>false</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>6</metadataTypeId>
<name>apkt:ReferTarget</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>1</srcTypeId>
<searchable>false</searchable>
<isDisplayed>false</isDisplayed>
</metadataTypes>
<metadataTypes>

```

```

<action>0</action>
<metadataTypeId>7</metadataTypeId>
<name>apkt:AttendedRefer</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>1</srcTypeId>
<searchable>false</searchable>
<isDisplayed>false</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>8</metadataTypeId>
<name>extTrackingID</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>2</srcTypeId>
<searchable>true</searchable>
<isDisplayed>true</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>9</metadataTypeId>
<name>serviceProviderID</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>2</srcTypeId>
<searchable>true</searchable>
<isDisplayed>true</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>10</metadataTypeId>
<name>userID</name>
<sessionCorrelationNumber>1</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>2</srcTypeId>
<searchable>true</searchable>
<isDisplayed>true</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>11</metadataTypeId>
<name>groupID</name>
<sessionCorrelationNumber>2</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>2</srcTypeId>

```

```

<searchable>true</searchable>
<isDisplayed>true</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>12</metadataTypeId>
<name>callID</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>2</srcTypeId>
<searchable>true</searchable>
<isDisplayed>true</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>13</metadataTypeId>
<name>callingPartyNumber</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>2</srcTypeId>
<searchable>true</searchable>
<isDisplayed>true</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>14</metadataTypeId>
<name>calledPartyNumber</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>2</srcTypeId>
<searchable>true</searchable>
<isDisplayed>true</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>15</metadataTypeId>
<name>newExtTrackingID</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>2</srcTypeId>
<searchable>true</searchable>
<isDisplayed>true</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>16</metadataTypeId>

```

```

<name>callType</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>2</srcTypeId>
<searchable>false</searchable>
<isDisplayed>true</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>17</metadataTypeId>
<name>dialedDigits</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>2</srcTypeId>
<searchable>false</searchable>
<isDisplayed>true</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>18</metadataTypeId>
<name>recordingType</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>2</srcTypeId>
<searchable>false</searchable>
<isDisplayed>true</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>19</metadataTypeId>
<name>redirectedFromInfo</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>2</srcTypeId>
<searchable>false</searchable>
<isDisplayed>false</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>20</metadataTypeId>
<name>redirectedFromPartyNumber</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>2</srcTypeId>
<searchable>false</searchable>
<isDisplayed>false</isDisplayed>

```

```

</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>21</metadataTypeId>
<name>redirectedToPartyNumber</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>session</nodeType>
<srcTypeId>2</srcTypeId>
<searchable>false</searchable>
<isDisplayed>false</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>22</metadataTypeId>
<name>apkt:in-realm</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>participant</nodeType>
<srcTypeId>1</srcTypeId>
<searchable>true</searchable>
<isDisplayed>true</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>23</metadataTypeId>
<name>apkt:P-Asserted-Identity</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>participant</nodeType>
<srcTypeId>1</srcTypeId>
<searchable>true</searchable>
<isDisplayed>true</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>24</metadataTypeId>
<name>apkt:Diversion</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>
<nodeType>participant</nodeType>
<srcTypeId>1</srcTypeId>
<searchable>true</searchable>
<isDisplayed>true</isDisplayed>
</metadataTypes>
<metadataTypes>
<action>0</action>
<metadataTypeId>25</metadataTypeId>
<name>apkt:request-uri</name>
<sessionCorrelationNumber>0</sessionCorrelationNumber>

```

```
<nodeType>participant</nodeType>
<srcTypeId>1</srcTypeId>
<searchable>true</searchable>
<isDisplayed>true</isDisplayed>
</metadataTypes>
</parameters>
</ns1:getNewAdministrativeDataResponse>
</soapenv:Body>
</soapenv:Envelope>
```


D Exerpt

Sample siprecDataSets Response

This appendix provides the siprecDataSets portion of an example response to a **getFile** request.

```
<siprecDataSets>
  <siprecParticipants>
    <participantId>133</participantId>
    <siprecParticipantId>part1-1-7386@172.30.58.239</siprecParticipantId>

    <participantAor>sip:+sipp@172.30.58.239:5060</participantAor>
    <participantName>+sipp</participantName>
    <participantStart>2012-01-02T13:44:39.000-05:00</participantStart>
    <participantEnd
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="1"
/>
  </siprecParticipants>
  <siprecParticipants>
    <participantId>134</participantId>
    <siprecParticipantId>part2-1-7386@172.30.58.239</siprecParticipantId>

    <participantAor>sip:thisUser@172.30.58.152:5060</participantAor>
    <participantName>thisUser</participantName>
    <participantStart>2012-01-02T13:44:39.000-05:00</participantStart>
    <participantEnd
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="1"
/>
  </siprecParticipants>
  <siprecSession>
    <sessionId>67</sessionId>
    <siprecSessionId>session-1-7386@172.30.58.239</siprecSessionId>
    <sessionStart>2012-01-02T13:44:39.000-05:00</sessionStart>
    <sessionEnd xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="1" />
  </siprecSession>
  <siprecStreams>
    <streamId>133</streamId>
    <siprecStreamId>stream1-1-7386@172.30.58.239</siprecStreamId>
    <streamLabel>l1-1</streamLabel>
    <streamMode></streamMode>
```

```
<participantId>133</participantId>
<streamStart>2012-01-02T13:44:40.000-05:00</streamStart>
<streamEnd xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:nil="1" />
</siprecStreams>
<siprecStreams>
  <streamId>134</streamId>
  <siprecStreamId>stream2-1-
7386@172.30.58.239</siprecStreamId>
  <streamLabel>l2-1</streamLabel>
  <streamMode></streamMode>
  <participantId>134</participantId>
  <streamStart>2012-01-02T13:44:40.000-05:00</streamStart>
  <streamEnd xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:nil="1" />
</siprecStreams>
</siprecDataSets>
```

E

Importing the RAWS Certificate

This appendix describes the process of importing the RAWS certificate into the Client keystore.

1. From the RAWS host, execute the following:

```
keytool -export -keystore <keystore_path> -alias  
<your_certificate_alias> -file raws.crt
```

Note: The keystore path may be your jboss conf directory (for example, C:\jboss-4.0.2\server\default\conf).

2. From the RA Client host, execute the following:

```
keytool -import -alias <your_certificate_alias> -file raws.crt -  
keystore <JAVA_HOME>\jre\lib\security\cacerts
```

Note: You are required to provide the password for the keystore; Java's default password is **changeit**. You may want to change the default password. To change the password, execute the following:

```
keytool -storepasswd -new <new_storepass> -keystore  
<JAVA_HOME>\jre\lib\security\cacerts
```

Troubleshooting Keystore Errors

This section describes two errors you may see in the log, and what they mean.

The following error means your Client keystore path is not valid:

```
Exception: org.apache.axis2.AxisFault:  
java.lang.RuntimeException: Unexpected error:  
java.security.InvalidAlgorithmParameterException: the  
trustAnchors parameter must be non-empty
```

The following error means your keystore path is valid, but the keystore has not been updated with the RAWS exported certificate:

```
Exception: org.apache.axis2.AxisFault:  
sun.security.validator.ValidatorException: PKIX path building  
failed:  
sun.security.provider.certpath.SunCertPathBuilderException:  
unable to find valid certification path to requested target
```

