 CALIFORNIA ISO <small>California Independent System Operator</small>	Version: 2.0
	Date: 10/3/03
ADS Download API - Draft	D Lassiter

1. Overview

This document explains in detail the semantics of the function calls you can make using the ADS Download API web services. In this document the following are described:

- Syntax of requests.
- Format of the response data.

You may also find the following files from the ADS API development kit to be helpful:

- CAISO_ADSDownloadService.wsdl- WSDL description of the ADS download API: (to obtain this document, please select the following link:
<http://www.caiso.com/docs/2003/10/06/2003100611195915903.txt>)
- soap-samples/ - example SOAP messages and responses (not yet available)
- xml schema, including sample xml file
<http://www.caiso.com/docs/2003/02/13/2003021316401625697.html>).

1.1 Request Overview

The following requests are available through the ADS Download Service:


- GetBatchListByDate – retrieves an array of batch headers that fall within a specified date range.
- GetBatchListBySeq – retrieves an array of batch headers dispatched after a specified batch sequence number.
- GetBatchStatus – returns the batch status for a specified batch sequence number.
- GetBatchHeader – returns the batch header for the specified batch sequence number.
- GetInstructionSet – retrieves the client’s set of instructions for the specified batch sequence number.
- isNewTrajData – returns true if new trajectory data has become available since a specified batch sequence number.
- getTrajectoryData – returns all new trajectory data since specified batch sequence number.

1.2 Response Overview

Each request will return a single response that will contain the requested data or a fault condition. The following response types will be described below:

- ArrayOfBatchHeaders– a list of batches and associated information about each batch (e.g. batch sequence number, batch status, etc.)
- BatchStatus– returns the batch status for a specified batch sequence number.
- InstructionSet—an XML representation of the instructions associated with a particular batch.
- TrajectoryData—an XML representation of all trajectory data relevant to a particular client.

All error conditions will be reported as SOAP <fault> elements.

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2. ADS Download Service Operations

2.1 getBatchListByDate (date range)

This request returns an array of batch headers for a specified date-time range.

Input: <StartDate> start date & time of range (inclusive).

<EndDate> end date & time of range (inclusive)

Output: <ArrayOfBatchHeaders>

2.2 getBatchListBySeq (batch sequence)

This request returns an array of batch headers for the set of batches that were dispatched after the specified batch sequence number.

Input: <LastBatchSeq> batch sequence number (exclusive).

Output: <ArrayOfBatchHeaders>

2.3 GetBatchStatus

This request returns the batch status associated with the provided batch sequence number.

Input: <BatchSeq>

Output: <BatchStatus>

2.4 GetInstructionSet

Returns the set of client instructions for a specified batch sequence number.

Input: <BatchSeqNo>

Output: <InstructionSet>

2.5 getBatchHeader

Returns the batch header for the specified batch sequence number.

Input: <BatchSeqNo>

Output: <BatchHeader>

2.6 isNewTrajData

Returns **true** if new trajectory data has become available since the specified batch sequence number.

Input: <BatchSeqNo>

Output: xsd:boolean

2.7 getTrajectoryData


Returns all trajectory data that has been made available since the specified batch sequence number.

Input: <BatchSeqNo>

Output: <TrajectoryData>

3. Data Elements

This section describes the data elements used within the ADS Download Service.

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Element Name	Type	Description
<ArrayOfBatchHeaders>	xs:ComplexType	an array of <BatchHeader>
<BatchDate>	xs:dateTime	START_DT in ADS-DD*.
<BatchHeader>	xs:ComplexType	consists of the following elements: <BatchSeq> <BatchDate> <BatchHour> <BatchMinute> <BatchInterval> <BatchType> <BatchSent> <BatchStatus>
<BatchHour>	xs:int	START_HR in ADS-DD
<BatchInterval>	xs:int	START_INTERVAL in ADS-DD
<BatchMinute>	xs:int	START_MI in ADS-DD
<BatchSent>	xs:dateTime	BATCH_SENT in ADS-DD
<BatchSeq>	xs:int	SEQUENCE_KEY in ADS-DD
<BatchStatus>	xs:int	BATCH_STATUS in ADS-DD
<BatchType>	xs:int	BATCH_TYPE in ADS-DD
<EndDate>	xs:dateTime	
<InstructionSet>	xs:string	See ADSDispatchData.xsd
<LastBatchSeq>	xs:int	SEQUENCE_KEY in ADS-DD
<StartDate>	xs:dateTime	
<TrajectoryData>	xs:string	See ADSTrajectoryData.xsd

*ADS-DD refers to the ADS Data Dictionary.