

WEIS TECHNICAL DATA EXCHANGE PREVIEW

By IT Applications

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REVISION HISTORY

DATE OR VERSION NUMBER	AUTHOR	CHANGE DESCRIPTION	COMMENTS
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PURPOSE

The purpose of this document is to provide a preview of the technical specifications for exchanging data with the SPP Energy Imbalance Service systems. This document as well as the links provided in this document are not final and should not be used for development purposes.

SYSTEM CONNECTIVITY

www.spp.org > SPP Documents > Org Group Documents > Change Working Group > Reference Documents > Technical Reference Documents > SPP Environments

File to download:

[Integrated Marketplace Connectivity Spec 20181213.zip](#)

This document provides the basic technical information required to establish connectivity to the systems of the Integrated Marketplace.

Connectivity information is divided into three sections based on the target audience:

1. End User Connectivity – Main URL and general information for end users to access the Integrated Marketplace environments.
2. Programmatic (API) Connectivity – Detailed list of service endpoints for programs accessing Integrated Marketplace systems. Exhaustive list of potential network names required to access Integrated Marketplace systems in all scenarios.
3. XML Notification Connectivity – Client and root certificate information for systems receiving Integrated Marketplace XML Notifications. Exhaustive list of potential network names required to access Integrated Marketplace systems in all scenarios.

MARKET DATA EXCHANGE

MARKETS API SPECIFICATIONS

Note: Changes to these specifications for WEIS are TBD. SPP will publish the final specifications for WEIS later in the program.

www.spp.org > SPP Documents > Org Group Documents > Change Working Group > Reference Documents > Technical Reference Documents > Technical Specifications > Tech Specs > Current Tech Specs

File to download:

Marketplace Market Web Service 32 (Release 1.29) 20190917.zip

The zip file contains the following information for exchanging data with the Markets system.

Markets Web Service Manifest

This document provides a brief summary of the Markets Data Exchange Guide, Web Service specifications as well as the XSD and WSDL documents provided to members for the SPP Integrated Marketplace Markets system.

IM Markets Data Exchange Guide

The purpose of this document is to describe the Market Participant's (MP's) XML-based external interface to the SPP Integrated Marketplace's Day-Ahead (DAMKT) and Real-Time Balancing Markets (RTBM).

The Market Participant uses this document to guide in the formulation of messages to be sent to the Markets system and the interpretation of messages received from the system. This document describes the addressing, exchange protocol, data, and XML formulation for all defined messages.

The reader of this document is assumed to be a software engineer whose intent is to understand the requirements of the participant's interface to the system and to implement the software necessary to exchange data.

WSDL/XSD

Each folder within the Web Services folder contains the wsdl/xsd for each service type.

MARKETS API WEIS OPERATIONS

The list of operations below is a draft of what SPP expects will be used for WEIS.

EnergyWebService

GetEnergyAuditDataSetByDay

GetEnergyAuditDataSetByDayResponse

GetEnergyDispatchSetByDayResponse
GetEnergyDispatchSetByIntervalResponse
GetEnergyDispatchSetResponse
GetEnergyDRRLoadForecastSetByDayResponse
GetEnergyDRRLoadForecastSetResponse
GetEnergyOfferVerificationStatusSetByDayResponse
GetEnergyOverrideSetByDayResponse
GetEnergyResourceForecastSetByDayResponse
GetEnergyResourceForecastSetResponse
PostEnergyDRRLoadForecastSet
PostEnergyMitigatedResourceOfferSet
PostEnergyResourceOfferSet

LoadForecastWebService

PostLoadforecastSet

MarketWebService

GetMarketApprovedStatusByIntervalSetByDayResponse
GetMarketBindingLimitByIntervalSetResponse
GetMarketDemandCurveSetByDayResponse
GetMarketLMPSummaryByIntervalSetByDayResponse
GetMarketLMPSummaryByIntervalSetResponse
GetMarketMessageSetByDayResponse
GetMarketNodeSetByDayResponse
GetMarketVRLByIntervalSetByDayResponse
GetMarketVRLByIntervalSetResponse
GetMarketWindForecastSetByDayResponse

TransactionWebService

GetTransaction
GetTransactionResponse
GetTransactionSummarySetByDay
GetTransactionSummarySetResponse

NotifyWebService

GetNotifyServiceEndpointSetByAllResponse
GetNotifyServiceEndpointSetResponse
PostNotifyPingServiceEndpointSetByAllResponse

EnergyNotifyService

PostEnergyCommitmentStatusConflictSet
PostEnergyDispatchSet
PostEnergyOfferVerificationStatusSet
PostEnergyOverrideSet

PostEnergyPing

MarketNotifyService

PostMarketMessageSet

PostMarketPing

PostMarketVRLByIntervalSet

MARKETS DATA EXCHANGE VALIDATIONS

Changes to these specifications for WEIS are TBD. SPP will publish the final specifications for WEIS later in the program.

www.spp.org > SPP Documents > Org Group Documents > Change Working Group > Reference Documents > Technical Reference Documents > Business Rule Guides

File to download:

[Integrated Marketplace Market User Interface Business Validations v16.0 20171117.pdf](#)

The purpose of this document is to describe the business validations associated with Market Participant data submissions to the SPP Integrated Marketplace Day-Ahead (DAMKT) and Real-Time Balancing Markets (RTBM) via the Market User Interface (UI) and Markets Web Services (API). This document, along with the corresponding XSDs, fully describes the validations of the SPP Integrated Marketplace Markets UI and Markets Web Services.

SETTLEMENT DATA EXCHANGE

SETTLEMENT API SPECIFICATIONS

Changes to these specifications for WEIS are TBD. SPP will publish the final specifications for WEIS later in the program.

www.spp.org > SPP Documents > Org Group Documents > Change Working Group > Reference Documents > Technical Reference Documents > Technical Specifications > Tech Specs > Future Tech Specs

File to download:

Settlement management system api xml specifications v1.0_20190501.zip

The zip file contains the following information for exchanging data with the Markets system.

Settlements External API Manifest

This document provides a brief summary of the Settlements Data Exchange Guide, Web service specifications as well as the XSD and WSDL documents provided to members for the SPP Settlement Management System (SMS).

Settlements Member Data Exchange Guide

This document describes the SPP Settlement Web services. It, along with the Web service specifications and corresponding WSDLs and XSDs, describes the set of available Web services provided by SPP to members for interacting with the SMS. It also describes the XML and CSV formats members may opt to use to upload data via the SPP portal.

Web Service Specifications

Within each Web services folder, SPP provides the following information to aid members in their programmatic data exchange with the SMS.

- Specifications - The purpose of the Web service specifications documents is to provide detailed information about each Web service version such as descriptions of each service and operation as well as examples of the request and response for each.
- XSDs and WSDL – Required specifications that define with Web service and describe the elements in the XML.

- Difference Reports - The difference reports highlight the changes made between the supported versions of the WSDLs/XSDs. Only those WSDLs and XSDs changed from the Production APIs are included in the difference reports.
- Sample XML and CSV – Sample files are provided for each API operation and CSV available for member submissions, queries and notifications.

SETTLEMENT API WEIS OPERATIONS

The list of operations below is a draft of what SPP expects will be used for WEIS.

MeterDataService

PostMeterData
GetCalibrationReport
GetInterchangeReport
GetMeterReportCard

CalendarService

GetCalendarByCalendarDateRequest
GetCalendarByCalendarMonthRequest
GetCalendarByOperatingDateRequest

SettlementReportsService

GetDeterminantReport
GetInvoice
GetStatement
GetSettlementData

NotificationService

CalendarNotificationType
InvoiceNotification
MeterDataMissingNotification
MeterDataReportsUpdatedNotification
MeterDataSubmittalProcessingCompleteNotification
MeterDataUnscheduledConsumptionNotification
StatementNotification

SETTLEMENT DATA EXCHANGE VALIDATIONS

Changes to these specifications for WEIS are TBD. SPP will publish the final specifications for WEIS later in the program.

www.spp.org > SPP Documents > Org Group Documents > Change Working Group > Reference Documents > Technical Reference Documents > Business Rule Guides

File to download:

Settlement Member Data Exchange Validations 20190923.pdf

The purpose of this document is to describe the validations associated with user submissions and queries available in the Settlements UI and API for Market and Transmission Settlements.

This document, along with the corresponding XSDs, fully describes the validations of the Settlements Web Services.