



Web Service Design Specification

Dispatch Service (DS)

Issue 5.0

This document provides the design specification for the Dispatch Service (DS) web service.

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Issue 5.0

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Document Change History

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0.3	Added information for XML header under Login request section. Updated filters and responses for retrieveDispatch request. Added Dispatch Service WDSL & endpoint URLs.	Nov. 8, 2017
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4.0	Changes made for the Market Renewal Program	March 31, 2023
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Dispatch Service (DS)

1. Introduction

1 Introduction

1.1 Purpose

The purpose of this document is to provide design specification for the Dispatch Service (DS) web service.

2 These specifications and requirements are reviewed by relevant information solution stewards and infrastructure solutions SMEs and approved by relevant infrastructure solution steward.

1.2 Assumptions and Limitations

- 3 The design specification document only describes the Dispatch Service Web Service module hosted by the IESO for instruction retrieval.
- 4 The design specification document is a living document.

1.3 Conventions

- 5 The standard conventions followed for this document are as follows:
 - Quotation marks are used to highlight process or component names;
 - Italics are used to highlight publication, titles of procedures, letters and forms; and
 - All time mentioned in this document is in East Standard Time (EST).

1.4 Glossary

This glossary does not repeat terms or roles defined in guide IESO GDE 0308 Alter IESO Glossary.

Standard Infrastructure Solution Requirements Glossary

- Load Testing is the process of putting demand on a system or device and measuring its response. Load testing is performed to determine a system's behaviour under both normal and anticipated peak load conditions. It helps to identify the maximum operating capacity of an application as well as any bottlenecks and determine which element is causing degradation. When the load placed on the system is raised beyond normal usage patterns, in order to test the system's response at unusually high or peak loads, it is known as stress testing. The load is usually so great that error conditions are the expected result, although no clear boundary exists when an activity ceases to be a load test and becomes a stress test.
- Non-functional requirements are requirements which specify criteria that can be used to judge the operation of a system, rather than specific behaviours. This should be contrasted with functional requirements that specify set behaviour or functions. In general, functional requirements define what a system is supposed to do whereas non-functional requirements

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- define how a system is supposed to be. Non-functional requirements are often called qualities of a system.
- 8 **Non-functional requirements categories** provide a framework for identifying, and structure in documenting non-functional requirements.
- 9 **Reliability** includes aspects such as availability, mean time before failure, and recoverability.
- 10 **Performance** involves things such as throughput of information through the system, system response time (for GUI or API), batch cycle time, and start-up time. For convenience, the performance category is defined to include capacity.
- 11 **Security** protects information as well as functions and specifies who has access under identified scenarios. Security includes privacy issues.
- 12 **Supportability** specifies a number of other requirements. For information solution requirements this includes adaptability and configurability.
- Performance Test is used to determine the speed or effectiveness of a computer, network, software program, or device. This process can involve quantitative tests done in a lab, such as measuring the response time or the number of MIPS (millions of instructions per second) at which a system functions. Qualitative attributes such as reliability, scalability and Interoperability may also be evaluated. Performance testing is often done in conjunction with stress testing.
- 14 **Stress Testing** see Load Testing.
- 15 **System specifications** detail the attributes, design and Interfaces for a solution designed to meet one or multiple information solution requirement documents. A system specification may address portions of multiple information solution requirement documents.

1.5 How This Document Is Organized

- 16 Section 2 describes the web service operations provided by the module
- 17 Section 3 describes the simple and complex types used in the web service operations

- End of Section -

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2 Web Service Operations

2.1 Operation: login

Description

The Login operation allows user to authenticate against IESO's external Active Directory.

It provides users a unique authentication token to be used in subsequent web service calls.

The Login operation also returns the list of permissions the user has.

Request

Field	Туре	Cardinality	Examples/Explanations
Username	String	1	The username to access the web service
Password	String	1	The corresponding password

Response

Field	Туре	Cardinality	Examples/Explanations
authToken	String	1	Must be passed in as a header on all subsequent web service requests.
			It is only valid for one client (IP address) and username, and expires after 15 minutes of inactivity.
			If the Authentication Token expires, user will have to call the Login request again to refresh the token.
accessPermissions	AccessPermissions	0*	List of Access Permission the user has been granted
permission	AccessPermission		Access Permission the user has been granted for the Market Participant specified

Field	Туре	Cardinality	Examples/Explanations
participantName	String		Market Participant Short name as registered with the IESO in the registration system
Role	<u>AccessRole</u>	Access role the user has on the Market Participant.	
			• API
			Operator
			Viewer

Fault

Field	Туре	Cardinality	Examples/Explanations
ErrorCodes	<u>ErrorWarningCode</u>	0*	
Code	Integer	1	Unique identifier of the Error/Warning Code
Description	String	1	Description of the Error/Warning Code
MessageId	String	01	MessageId the error applies to

XML Header

An XML header named "ws-auth-token" with authorization token string (authToken) as its value must be passed with all subsequent web service requests.

2.2 Operation: retrieveDispatch

Description

The retrieve Dispatch operation allows for users to retrieve dispatch instructions from the Dispatch Service system.

Users can utilize the filtering capabilities to narrow down their result.

Up to 60 days of historical dispatch instructions will be stored in the Dispatch Service System for retrieval.

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Request

Field	Туре	Cardinality	Examples/Explanations
Filters	<u>Filters</u>		
MESSAGE_ID	String	0*	List of MESSAGE_IDs to retrieve
DATE_SENT	DateTime	0*	List of dates the dispatch instruction is sent
			Date must be submitted in the following format:
			YYYY-MM-DD
DISPATCH_TYPE	<u>DispatchType</u>	05	ENG - Energy
			ORA – Reserve Activation
			ORD – Reserve De-Activation
			RESV - Reserve
			RGR – Regulation with Regulation Range
			RGS – Regulation with Set Point
			START – Binding Start-Up for Commitment
			EXTEND – Extension for Commitment
			DECOM – De-commitment for Commitment
PARTICIPANT_NAME	String	0*	List of PARTICIPANT_NAMEs to retrieve
STATE	<u>DispatchState</u>	0*	List of dispatch instruction states
			 New - Dispatch initial state denoting a new dispatch that requires an accept/reject response from the Participant
			Timed Out - If a dispatch has not been accepted or rejected within the active window
			Accepted - The dispatch has been accepted
			Rejected - The dispatch has been rejected
ACTIVE	Boolean	01	The last confirmed dispatch for each unique Resource
			• true
			• false

Field	Туре	Cardinality	Examples/Explanations
RESOURCE_ID	String	0*	List of RESOURCE_IDs to retrieve
DELIVERY_DATE	Date	0*	List of DELIVERY_DATEs, DELIVERY_HOURs and/or DELIVERY_INTERVALs the
DELIVERY_HOUR	Integer	0*	dispatch instruction is sent for.
DELIVERY_INTERVAL	Integer	0*	
DELIVERY_START_TIME	DateTime	01	Start/Stop time requests are associated with dispatches for regulation if a
DELIVERY_STOP_TIME	DateTime	01	stop time has been provided
RESPONDER	String	0*	List of RESPONDERs to dispatch instructions
LAST_UPDATED_SINCE	DateTime	01	Date and time since which (greater than the time) dispatch instruction was last updated. This filter corresponds to LAST_UPDATED field in the response. The LAST_UPDATED field will get updated when: 1. User Accept, Reject or leave dispatch instruction to be timed out via Dispatch Service Web UI or API 2. ConfirmReceipt is sent via web UI or API 3. IESO control room Accept or Reject dispatch instruction on behalf of MP after dispatch instructions time out 4. Dispatch Service application changes ACTIVE flag for dispatch instruction (this can happen when there's an updated dispatch which gets accepted, thereby changing the prior dispatch ACTIVE flag to 0 and setting the prior dispatch LAST_UPDATE value to the current time) The following will generate a change in LAST_UPDATED field: 1. Dispatch Created (STATE=NEW) 2. ConfirmReceipt 3. ActionDispatch (STATE=ACCEPT or STATE=REJECT) - Caused by MP or IESO control room 4. Timed Out (STATE=TIMEDOUT) 5. ACTIVE flag is Set 6. ACTIVE flag is Cleared

Field	Туре	Cardinality	Examples/Explanations
SENT_SINCE	DateTime	01	Date and time since which (equal or greater than the time) dispatch instruction was sent. This filter corresponds to DATE_SENT field in the response.
HISTORY_DAYS	Integer	01	Number of historical days of dispatch instructions to retrieve
EFFECTIVE_TIME	DateTime	01	Time associated with the Product (START, EXTEND, and DECOM)
MLP_TIME	DateTime	01	First date and time at which a Resource is scheduled for a Commitment at or above the Minimum Load Point (MLP)
SYNC_TIME	DateTime	01	Resource scheduled to synchronize
offset		01	Offset the results returned by the number specified. Usually used along with the limit filter.
			E.g. There are a total of 100 results returned, to retrieve only results 10-30, a limit of 20 and an offset of 10 should be specified.
			Min Inclusive: 0
limit		01	Limit the number of results returned
			Min Inclusive: -1

Response

Field	Туре	Cardinality	Examples/Explanations
Dispatch Instructions	DispatchInstructions	0*	
Dispatch Instruction	DispatchInstruction	0*	
MESSAGE_ID	String	01	Unique identifier assigned to the dispatch instruction
PARTICIPANT_NAME	String	01	Market Participant Short Name
DATE_SENT	DateTime	01	Date/time the dispatch was issued by the IESO.
LAST_UPDATED	DateTime	01	Date/time the dispatch was last updated.
DISPATCH_TYPE	<u>DispatchType</u>	01	Type of dispatch. See <u>DispatchType</u> for list of Dispatch Types.

Field	Туре	Cardinality	Examples/Explanations
STATE	<u>DispatchState</u>	01	Dispatch status. See <u>DispatchState</u> for list of Dispatch States.
ACTIVE	Boolean	01	Whether or not the dispatch is the last confirmed dispatch for the resource per dispatch type.
RESOURCE_ID	String	01	Name of the resource being dispatched
DELIVERY_DATE	DateTime	01	Date the dispatch instruction applies to
			YYYY-MM-DD
DELIVERY_HOUR	Integer	01	Hour the dispatch instruction applies to
			Min Inclusive: 1
			Max Inclusive: 24
DELIVERY_INTERVAL	Integer	01	The five-minute interval the dispatch applies to.
			Min Inclusive: 1
			Max Inclusive: 12
DELIVERY_START_TIME	DateTime	01	Start time of the dispatch request.
			Start time requests are associated with dispatches for contract activation. YYYY-MM-DDTHH:MM:SS
DELIVERY_STOP_TIME	DateTime	01	Stop time of the dispatch request.
			Stop time requests are associated with dispatches for contract activation YYYY-MM-DDTHH:MM:SS
AMOUNT	Double	01	Value assigned to the dispatch (content is dependent on dispatch type)
			(floating point number)
LIMIT_TYPE	<u>LimitType</u>	01	Type of manual limit applied to the resource. See <u>LimitType</u> for list of limit types.
			FIX – Resource is manually set
			MAX – Resource limited to maximum energy output
			MIN – Resource limited to minimum energy output
			OTD – Manual, on-demand, one time dispatch
VG_OI	String	01	Variable Generation Obligation Indicator for the dispatch instruction.
			Mandatory
			<u> </u>

Field	Туре	Cardinality	Examples/Explanations
			Release
			• <i>null</i> for non-Variable Generators.
RESERVE_CLASS	String	01	Class of reserve being requested in the in a RESV type dispatch request.
			• 10S – 10 minute spinning
			10N – 10 minute non-spinning
			30R – 30 minute reserve
REGULATION_RANGE	Double	01	Regulation range dispatch specified for regulation dispatches
RESPONDER	String	01	Username of the user that responded to the dispatch instruction
EXPIRES_AT	DateTime	01	End of the active window/when the dispatch instruction expires.
EFFECTIVE_TIME	DateTime	01	Time associated with the Product (START, EXTEND, and DECOM)
MLP_TIME	DateTime	01	First date and time at which a Resource is scheduled for a Commitment at or above the Minimum Load Point (MLP)
SYNC_TIME	DateTime	01	Resource scheduled to synchronize
ALT_SYNC_TIME	DateTime	01	Alternate synchronization time to Commitment Dispatch
LAST_UPDATED	DateTime	01	Date/time the dispatch was last updated.

Fault

Field	Туре	Cardinality	Examples/Explanations
ErrorCodes	<u>ErrorWarningCode</u>	0*	
Code	Integer	1	Unique identifier of the Error/Warning Code
Description	String	1	Description of the Error/Warning Code
MessageId	String	01	MessageId the error applies to

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Business/Validation Rules

- 1. Same filters are ORed together. E.g. Specifying multiple DELIVERY_DATE will return results for all DELIVERY_DATEs specified
- 2. Different filters are ANDed together. E.g. Specifying a DELIVERY_DATE and a DELIVERY_HOUR will only return results that satisfy both filtering criteria.

Message ID Format

The format of Message ID is as following:

RD_txxxxxmmddyhhiiz

Where the fields are described as:

t - dispatch type (1 character, one of the following: REA. R for OR dispatch, E for Energy dispatch, A for activation) xxxxxx - 6 digit cycling sequence, incrementing by 1

mm - month (2 digits)

dd - day (2 digits)

y - year (1 digit)

hh - hour (2 digits)

ii - interval (2 digits)

z - resource type (1 character, one of the following: GL. G for generator, L for load)

2.3 Operation: confirmReceipt

Description

The confirmReceipt operation should be used after the retrieveDispatch operation to notify the IESO that the user has received the dispatch instruction sent by the IESO.

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Request

Field	Туре	Cardinality	Examples/Explanations
MESSAGE_ID	String	0*	Send a list of MESSAGE_IDs to the Dispatch Service to confirm receipt

Response

Field	Туре	Cardinality	Examples/Explanations
MESSAGE_ID	String	0*	List of MESSAGE_IDs that have successfully confirmed the receipt
ErrorCodes	ErrorWarningCode	0*	
Code	Integer	1	Unique identifier of the Error/Warning Code
Description	String	1	Description of the Error/Warning Code
MessageId	String	01	MessageId the error applies to

Fault

Field	Туре	Cardinality	Examples/Explanations
ErrorCodes	<u>ErrorWarningCode</u>	0*	
Code	Integer	1	Unique identifier of the Error/Warning Code
Description	String	1	Description of the Error/Warning Code
MessageId	String	01	MessageId the error applies to

Business/Validation Rules

- 1. If multiple MESSAGE_IDs are provided in the request, the ones confirmed successfully will be returned in the response.
- 2. If some of the MESSAGE_IDs cannot be confirmed, the confirmed ones will be returned in the response while the unconfirmed ones will be returned as part of the ErrorCodes section in the response.
- 3. If all of the MESSAGE IDs cannot be confirmed, a fault will be returned with the appropriate error codes and descriptions.

4. confirmReceipt can be called on the same Message_ID multiple times without producing an error or warning. However, the timestamp for the first confirmReceipt operation will be saved; subsequence calls will not change the timestamp.

2.4 Operation: dispatchAction

Description

Once a dispatch instruction has been retrieved and receipt confirmation has been sent back to the Dispatch Service web service. User is allowed to respond to the dispatch.

Request

Field	Туре	Cardinality	Examples/Explanations
action	<u>DispatchActionRow</u>	1*	One of more dispatch instructions to action on
MESSAGE_ID	String	1	MESSAGE_ID of the dispatch instruction to action on
ACTION	<u>DispatchActionType</u>	1	Action user wishes to apply to the dispatch instruction
			Accept
			Reject
ALT_SYNC_TIME	<u>DateTime</u>	01	Option to respond to Commitment Dispatch with an alternate synchronization time

Response

Field	Туре	Cardinality	Examples/Explanations
actionResponse	DispatchActionResponseRow	0*	
MESSAGE_ID	String	1	A unique identifier for the dispatch instruction
PARTICIPANT_NAME	String	1	Registered SHORT_NAME of the Market Participant
STATE	<u>DispatchState</u>	1	Dispatch State of the instruction message
ALT_SYNC_TIME	<u>DateTime</u>	01	Alternate synchronization time to Commitment Dispatch

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Field	Туре	Cardinality	Examples/Explanations
RESPONDER	String	1	User that responded to the dispatch instruction
ErrorCodes	ErrorWarningCode	0*	
Code	Integer	1	Unique identifier of the Error/Warning Code
Description	String	1	Description of the Error/Warning Code
MessageId	String	01	MessageId the error applies to

Fault

Field	Type	Cardinality	Examples/Explanations
ErrorCodes	<u>ErrorWarningCode</u>	0*	
Code	Integer	1	Unique identifier of the Error/Warning Code
Description	String	1	Description of the Error/Warning Code
MessageId	String	01	MessageId the error applies to

Business/Validation Rules

5. If multiple actions are sent for the same MESSAGE_ID within the active window, the last response will overwrite any preceding responses.

- End of Section -

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3 Web Service Types

3.1 Simple Types

AccessRole

Field	Туре	Enumeration
AccessRole	Enumeration (String)	• API
		Operator
		Viewer

DispatchActionType

Field	Туре	Enumeration
DispatchActionType	Enumeration (String)	Accept
		Reject

DispatchState

Field	Туре	Enumeration
DispatchState	Enumeration (String)	• New
		Timed Out
		Accepted
		Rejected

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DispatchType

Field	Туре	Enumeration
DispatchType	Enumeration (String)	• ENG
		• ORA
		RESV
		• RGR
		• RGS
		• START
		• EXTEND
		• DECOM

LimitType

Field	Туре	Enumeration
LimitType	Enumeration (String)	• FIX
		• MAX
		• MIN
		• OTD

3.2 Complex Types

AccessPermission

Field	Туре	Cardinality	Examples/Explanations
participantName	String	1	Market Participant Short name as registered with the IESO in the registration system
role	<u>AccessRole</u>	1	Access role the user has on the Market Participant.

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Field	Туре	Cardinality	Examples/Explanations
			• API
			Operator
			Viewer

AccessPermissions

Field	Туре	Cardinality	Examples/Explanations
AccessPermissions	AccessPermission	0*	List of Access Permission the user has been granted

${\bf Dispatch Action Response Row}$

Field	Туре	Cardinality	Examples/Explanations
MESSAGE_ID	String	1	A unique identifier for the dispatch instruction
PARTICIPANT_NAME	String	1	Registered SHORT_NAME of the Market Participant
STATE	<u>DispatchState</u>	1	Dispatch State of the instruction message
ALT_SYNC_TIME	<u>DateTime</u>	01	Alternate synchronization time to Commitment Dispatch
RESPONDER	String	1	User that responded to the dispatch instruction

DispatchActionRow

Field	Туре	Cardinality	Examples/Explanations
MESSAGE_ID	String	1	Unique identifier assigned to the dispatch instruction
ACTION	<u>DispatchActionType</u>	1	Market Participant's response to the instruction
ALT_SYNC_TIME	<u>DateTime</u>	01	Option to respond to Commitment Dispatch with an alternate synchronization time

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3. Web Service Types

DispatchInstruction

Field	Туре	Cardinality	Examples/Explanations
MESSAGE_ID	String	01	Unique identifier assigned to the dispatch instruction
PARTICIPANT_NAME	String	01	Market Participant Short Name
DATE_SENT	DateTime	01	Date/time the dispatch was issued by the IESO
DISPATCH_TYPE	<u>DispatchType</u>	01	Type of dispatch. See <u>DispatchType</u> for list of Dispatch Types.
STATE	<u>DispatchState</u>	01	Dispatch status. See <u>DispatchState</u> for list of Dispatch States.
ACTIVE	Boolean	01	Whether or not the dispatch is the last confirmed dispatch for the resource per dispatch type.
RESOURCE_ID	String	01	Name of the resource being dispatched
DELIVERY_DATE	DateTime	01	Date the dispatch instruction applies to
			YYYY-MM-DD
DELIVERY_HOUR	Integer	01	Hour the dispatch instruction applies to
			Min Inclusive: 1
			Max Inclusive: 24
DELIVERY_INTERVAL	Integer	01	The five-minute interval the dispatch applies to.
			Min Inclusive: 1
			Max Inclusive: 12
DELIVERY_START_TIME	DateTime	01	Start time of the dispatch request.
			Start time requests are associated with dispatches for contract activation.
			YYYY-MM-DDTHH:MM:SS
DELIVERY_STOP_TIME	DateTime	01	Stop time of the dispatch request.
			Stop time requests are associated with dispatches for contract
			activation
			YYYY-MM-DDTHH:MM:SS

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Field	Туре	Cardinality	Examples/Explanations
AMOUNT	Double	01	Value assigned to the dispatch (content is dependent on dispatch type) (floating point number)
LIMIT_TYPE	<u>LimitType</u>	01	Type of manual limit applied to the resource. See <u>LimitType</u> for list of limit types.
VG_OI	String	01	Variable Generation Obligation Indicator for the dispatch instruction. • Mandatory • Release • null for non-Variable Generators.
RESERVE_CLASS	String	01	Class of reserve being requested in the in a RESV type dispatch request. • 10S – 10 minute spinning • 10N – 10 minute non-spinning • 30R – 30 minute reserve
REGULATION_RANGE	Double	01	Regulation range dispatch specified for regulation dispatches
RESPONDER	String	01	Username of the user that responded to the dispatch instruction
EXPIRES_AT	DateTime	01	End of the active window/when the dispatch instruction expires.
EFFECTIVE_TIME	DateTime	01	Time associated with the Product (START, EXTEND, and DECOM)
MLP_TIME	DateTime	01	First date and time at which a Resource is scheduled for a Commitment at or above the Minimum Load Point (MLP)
SYNC_TIME	DateTime	01	Resource scheduled to synchronize
ALT_SYNC_TIME	DateTime	01	Alternate synchronization time to Commitment Dispatch
LAST_UPDATED	DateTime	01	Date/time the dispatch was last updated.

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3. Web Service Types

DispatchInstructions

Field	Туре	Cardinality	Examples/Explanations
DispatchInstruction	<u>DispatchInstruction</u>	01	A list of Dispatch Instructions

ErrorWarningCode

Field	Туре	Cardinality	Examples/Explanations
Code	Integer	1	Unique identifier of the Error/Warning Code
Description	String	1	Description of the Error/Warning Code
MessageId	String	01	MessageId the error applies to

Filters

Field	Туре	Cardinality	Examples/Explanations	
MESSAGE_ID	String	0*	Unique identifier assigned to the dispatch instruction	
DATE_SENT	DateTime	0*	YYYY-MM-DDThh:mm:ss	
DISPATCH_TYPE	<u>DispatchType</u>	0*	Type of dispatch. See <u>DispatchType</u> for list of Dispatch Types.	
PARTICIPANT_NAME	String	0*	Market Participant Short Name	
STATE	<u>DispatchState</u>	0*	Dispatch status. See <u>DispatchState</u> for list of Dispatch States.	
ACTIVE	Boolean	01	Whether or not the dispatch is the last confirmed dispatch for the resource per dispatch type.	
RESOURCE_ID	String	0*	Name of the resource being dispatched	
DELIVERY_DATE	DateTime	0*	Date the dispatch instruction applies to YYYY-MM-DD	

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Field	Туре	Cardinality	Examples/Explanations	
DELIVERY_HOUR	Integer	0*	Min Inclusive: 1	
			Max Inclusive: 24	
DELIVERY_INTERVAL	Integer	0*	Min Inclusive: 1	
			Max Inclusive: 12	
DELIVERY_START_TIME	DateTime	01	Start time of the dispatch request. Start time requests are associated with dispatches for contract activation. YYYY-MM-DDTHH:MM:SS	
DELIVERY_STOP_TIME	DateTime	01	Stop time of the dispatch request. Stop time requests are associated with dispatches for contract activation YYYY-MM-DDTHH:MM:SS	
RESPONDER	String	0*	Username of the user that responded to the dispatch instruction	
SINCE	DateTime	01	All dispatch instructions since the specified date YYYY-MM-DDTHH:MM:SS	
HISTORY_DAYS	Integer	01	Number of historical days of dispatch instructions to retrieve Min Inclusive: 0	
EFFECTIVE_TIME	DateTime	01	Time associated with the Product (START, EXTEND, and DECOM)	
MLP_TIME	DateTime	01	First date and time at which a Resource is scheduled for a Commitment at or above the Minimum Load Point (MLP)	
SYNC_TIME	DateTime	01	Resource scheduled to synchronize	

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4. Web Service Error Warning Codes

4 Web Service Error Warning Codes

Table 1 - List of possible Error Codes returned by the Web Service

Operation	Error Code	Error Description
Login	-13	Username or Password is invalid
Login	-1	System error has occurred
Login	-12	User <username> authorization failed</username>
Login	-14	User permissions are missing
retrieveDispatch	-1	System error has occurred
retrieveDispatch	-21	Request exceeded maximum number of days allowed. Maximum number of history days allowed = <max_days></max_days>
retrieveDispatch	-23	User does not have permission to retrieve dispatches for one or more of the participants specified.
confirmReceipt	-2	Message ID <message_id> is invalid or user does not have permission to perform an action on it.</message_id>
confirmReceipt	-1	System error has occurred
dispatchAction	-2	Message ID <message_id> is invalid or user does not have permission to perform an action on it.</message_id>
dispatchAction	-35	Multiple actions provided for the same message ID <message_id></message_id>
dispatchAction	-33	Response threshold has expired for <message_id> <action></action></message_id>
dispatchAction	-34	User has not confirmed receipt of MESSAGE_ID < MESSAGE_ID>
dispatchAction	-36	Alternate sync time not between 1 hour prior to the sync time and the MLP time (inclusive) for message ID <message_id></message_id>
dispatchAction	-37,40	Alternate sync time cannot be prior to the current time for message ID <message_id></message_id>
dispatchAction	-38,41	Alternate sync time cannot be later than the MLP Time for message ID <message_id></message_id>
dispatchAction	-39	Alternate sync time not within +/- 1 hour from the sync time for message ID <message_id></message_id>
dispatchAction	-42	Alternate sync time is not a valid input for this action for message ID <message_id></message_id>

5 Web Service WDSL and Endpoint URLs

The following are Dispatch Service web service WDSL and endpoint URLs for different environments.

Production:

Web Service WSDL

Web Service Endpoint

Sandbox:

Web Service WSDL

Web Service Endpoint

- End of Section -

Dispatch Service (DS)

References

References

Document Name	Document ID
Dispatch Notification System Web Service Design Specification	SPEC-155

- End of Document -

Issue -5.0–March 31. 2023 Public References–1