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Service Availability Web Service 2.0

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Revision Notes

Revision	Date	Change Description
1.0	04/23/2009	Version 1.0 Created.
1.1	05/25/2009	Enumeration tables for ServiceID and Characteristic names as well as error lists have been updated.
1.1.1	11/27/2009	URL for endpoints has been modified. Version allowed value has been updated.
1.1.2	02/24/2010	Update to the Introduction. Update to Implementation Considerations. Addition of error # 1001171
1.2.0	09/27/2010	Shipment date added to schema and field list. Additional error codes.
1.3.0	07/07/2014	Update to the introduction. Additional Field in the request context.
1.3.1	08/07/2015	APPENDIX B – Allowed Code List - Updated "Street Type" list to ensure that all valid and active Street Type names are displayed.
1.3.2	05/01/2017	Appendix B - Product List (ServiceID) - added 4 new Products (Express 12PM)
2.0	07/13/2017	Section 2.4.3.2. Response Diagrams - GetServiceRules - Add new tags under <ServiceRule> tag Section 2.6 Error Messages and Codes – Added the following Codes: 3002041 Appendix A - Complete Field List (Input) Field Name "Version" - Updated Version Number to 2.0 Appendix B – Allowed Code List - Product List (ServiceID) - Removed "PurolatorGroundDistribution" Appendix B – Piece Level Characteristics – Added Special Handling Type Characteristic and its values. Appendix B – Shipment Level Characteristics – Removed Special Handling Characteristic.

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Legal and Copyright Notices

1   Getting Started

1.1   Introduction

To help you integrate Purolator E-Ship Web Services into your website or application, Purolator provides technical documentation and sample code for each Web Service. The documents include detailed technical information for each Web Service and detail Purolator's service offerings. Additional information and support is available on the Purolator EShip Developer Forum http://www.purolatorwebservices.com, on the E-Ship Web Services Wiki http://www.purolatorwebservices.com/wiki2, and through the Support section of the E-Ship Resource Centre http://www.purolator.com/eship.

The following documents can be downloaded in the Documentation and Sample Code section.

Introduction
Introduction to Purolator E-Ship Web Services

Service Availability Web Service
Validate origin and destination addresses and receive all available Purolator services, products, options and associated rules.

Estimates Web Service
Receive estimates based on origin and destination addresses as well as package and service inputs. Estimates are available as quick estimates using list prices or detailed estimates for customers with negotiated pricing.

Shipping Web Service
Create domestic, U.S. and International shipments. Please note that shipping labels and documents are created using the Get Documents Web Service.

Returns Management Web Service
Create domestic Returns Management shipments. Please note that shipping labels and documents are created using the Get Documents Web Service.

Get Documents Web Service
Retrieve shipment labels and documentation for shipments.

Tracking Web Service
Get detailed tracking information in real-time using a Purolator PIN / tracking number or shipment reference.

Pickup Web Service
Schedule, modify, validate and void pickups. View your pickup history and upcoming pickups.

Soap UI Project File
Example use cases and sample results for all Purolator E-Ship Web Services.

Certification
Guidelines to help ensure your Purolator E-Ship Web Services integration is ready to promote into Purolator's production environment.

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Security Options (if applicable)

Security options available for your Purolator E-Ship Web Services implementation. This document will be provided when you are ready to take your website or application into Purolator's production environment. The availability of this document will depend on the type of web service integration you are executing.

1.2   Document Overview

This document is a technical specification that describes the Purolator Service Availability Web Service. It is geared towards developers whose application requires a list of valid Purolator Service Offerings. For a given origin and destination, the Purolator Service Availability Web Service returns a list of all services, special services and options that are available. This includes premium Express and Ground services, U.S. and International Services, ExpressCheque and Dangerous Goods Options. This web services also performs postal code and zip code validation and can also return the rules associated with each service - for example, the minimum and maximum allowed shipment weights.

This document uses the following structure to explain our Service Availability Web Service:

Introduction (this chapter)
- Web Services overview
- Specification compliance
- Development platform compatibility
- Related resources
- Web services development process

Web Services
- Explanations of the characteristics of calls, as well as data types used
- Security information
- Service details for the Service Availability service
- Implementation considerations
- Error details and error codes and descriptions

Appendix
- Complete field listing
- Enumeration and expected values

1.3   Specification Compliance

The Web Services are designed to comply with the following specifications:

Specification Name	Website
Simple Object Access Protocol (SOAP) 1.1	http://www.w3.org/TR/2000/NOTE-SOAP-20000508/
Web Service Description Language (WSDL) 1.1	http://www.w3.org/TR/2001/NOTE-wsdl-20010315

Please visit the websites listed above for detailed information regarding SOAP and WSDL technologies.

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1.4   Development Platforms

The Web Services work with any current SOAP/XML development environments.

> **Note:** Development platforms vary in their SOAP/XML implementations. Please refer to your platform's documentation for more information.

1.5   Related Resources

The Purolator E-Ship Resource Centre provides a full suite of documentation, sample code, sample SOAP messages, community-based support, and other resources to help you with your development projects. Be sure to visit www.purolator.com/eship to access all of the resources available to you and get support with your integration.

1.6   Purolator E-Ship Web Services Development Process

To integrate Purolator E-Ship Web Services within your application, follow the steps outlined below.
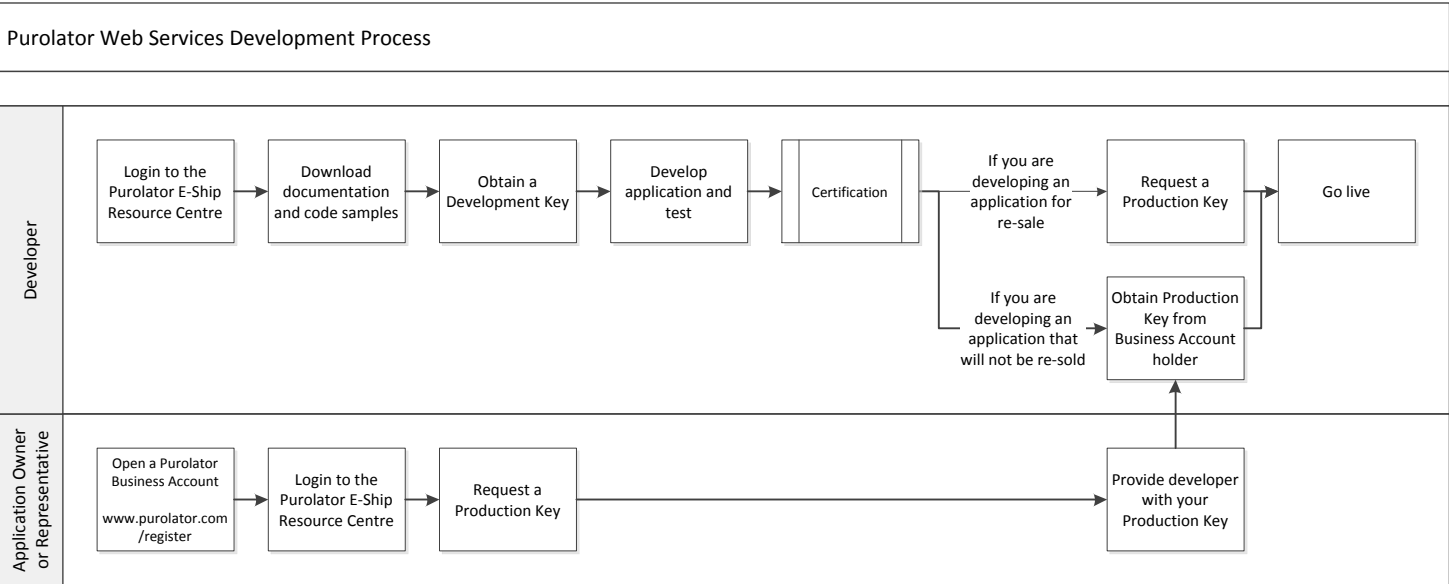
Follow these steps if you're a developer that will be integrating Purolator E-Ship Web Services.

Step 1: **Download Documentation and Code Samples**
View code samples and documentation for the Purolator E-Ship Web Service(s) you will be using.

Documentation and sample code, such as WSDL, is available in the Documentation and Sample Code section of the E-Ship Resource Centre at www.purolator.com/eship.

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Step 2: **Obtain a Development Key**

Obtain a Development Key. This will allow you to test your code in the Purolator E-Ship Test Environment.

Note: Your Development Key, password, and test account number will be used to access the development environment.

Step 3: **Develop**

Develop your application using the code samples and documentation.

Step 4: **Test**

Test your application in the Purolator E-Ship Test Environment. Data in the Test Environment is sample data and should be used for testing purposes only.

Step 5: **Certification**

Based on qualification criteria, some applications may be required to go through Certification before moving to production. A Purolator representative will inform you of whether your application will be required to complete this step. Certification documentation is available in the Documentation and Sample Code section.

Step 6: **Request a Production Key**

Request a Production Key once your development and testing are complete. You will receive an inactive Production Key until we review your request.

If you're integrating Purolator E-Ship Web Services into an application that won't be re-sold, the Purolator Business Account holder must request the Production Key.

Replace the Development Key with the Production Key, and replace the development WSDL with the production WSDL. The Production Key will allow you to access account-specific shipping, tracking, estimates and returns information. Once activated, you will then be ready to use Purolator E-Ship Web Services.

Note: Your Production Key, password, and account number will be used to access the production environment.

Application Owner or Representative Process

Follow these steps if you have development resources and want to integrate Purolator E-Ship Web Services into your website or application that won't be re-sold.

Step 1: **Open a Purolator Business Account**

If you do not already have a Purolator Business Account, please visit www.purolator.com/register to get started.

Step 2: **Request a Production Key**

Login to the Purolator E-Ship Resource Centre and request a Production Key. The Production Key will allow you to access shipping, tracking, estimates and returns information specific to your Purolator Business Account.

You will receive an inactive Production Key until we review your request. A Purolator representative may contact you for security purposes before your Production Key is activated. Optional security features are available through consultation with Purolator.

Step 3: **Provide your developer with the Production Key**

Ask your developer to replace their Development Key with your Production Key. You will then be ready to use Purolator E-Ship Web Services.

2   Web Services

Web Services is a collection of programming technologies, including XML, Web Services Description Language (WSDL) and SOAP, which allow you to build programming solutions for specific messaging and application integration.

Web Services are, by definition, platform independent. Purolator Web Services allow developers to build custom applications that are independent of changes to the Purolator interface. This is achieved through backwards compatibility support for all versions of the web services.

2.1   Characteristics of Calls

All Web Service calls are:
*   **Service Requests and Responses**—your client application prepares and submits a service request to Purolator E-Ship Web Services, which is processed and a response is returned, and the client application handles the response.

*   **Synchronous**—once the API call is invoked, your client application waits until it receives a response from the service. Asynchronous calls are not supported.

2.2   Data Types

Value	Description
String	Character strings. Fields that are of data type string contain text and some have length restrictions. Please see the field reference list for format and restrictions.
Decimal	Decimal represents a subset of the real numbers, which can be represented by decimal numerals. The ·value space· of decimal is the set of numbers that can be obtained by dividing an integer by a non-negative power of ten, i.e., expressible as i / 10^n where i and n are integers and $n \geq 0$. Precision is not reflected in this value space; the number 2.0 is not distinct from the number 2.00. (The datatype precisionDecimal may be used for values in which precision is significant.) The order relation on decimal is the order relation on real numbers, restricted to this subset.
Int	The precisionDecimal datatype represents the numeric value and (arithmetic) precision of decimal numbers which retain precision; it also includes values for positive and negative infinity and for "not a number", and it differentiates between "positive zero" and "negative zero". This datatype is introduced to provide a variant of decimal that closely corresponds to the floating-point decimal datatypes described by the expected forthcoming revision of IEEE/ANSI 754. Precision of values is retained and values are included for two zeroes, two infinities, and not-a-number.
Enumeration	Enumeration constrains the ·value space· to a specified set of values. Enumeration does not impose an order relation on the ·value space· it creates; the value of the ·ordered· property of the derived datatype remains that of the datatype from which it is derived.

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2.3   Security

Purolator E-Ship Web Services authentication uses the standard HTTP Basic Authentication method allowing client programs to provide credentials in the form of a user name and password when making an HTTP request. Purolator EShip Web Services uses the standard HTTP protocol and in our case the username corresponds to the Development and Production Key that is issued to you by Purolator when you signed up for Purolator E-Ship Web Services. These credentials are sent from your client programs to our Purolator E-Ship Web Services servers securely using SSL.

2.4   Service Methods and Objects

The following section will highlight the various methods associated with the shipment service. As well, visual representations will depict the XML schema of both the requests, and the responses of the service calls.

2.4.1   Validate City/Postal Code/Zip Code

The ValidateCityPostalCodeZip method validates that the city/province (state)/postal (zip) code entered is correct. Should the combination be incorrect, the response message will return suggested values, based on the information entered.

2.4.1.1   Request Diagrams – ValidateCityPostalCodeZip
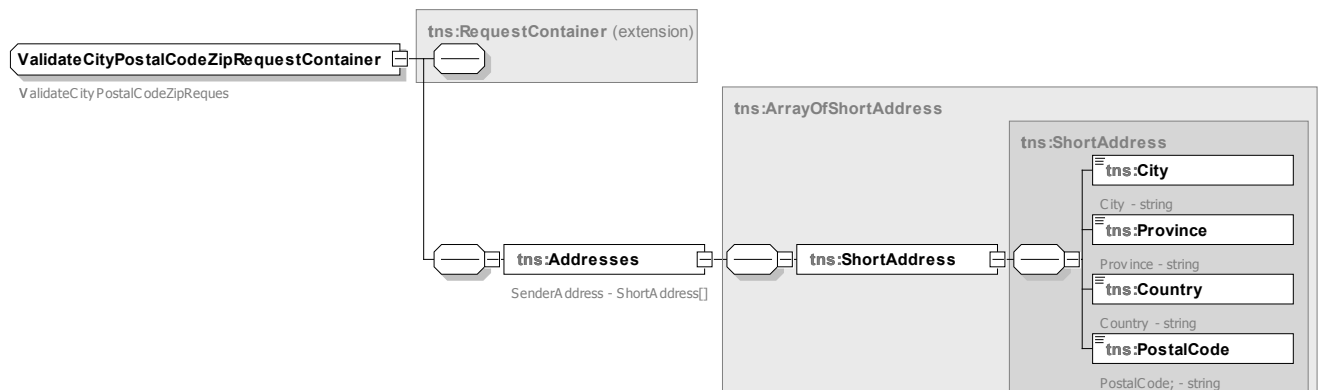
2.4.1.2   Response Diagrams – ValidateCityPostalCodeZip
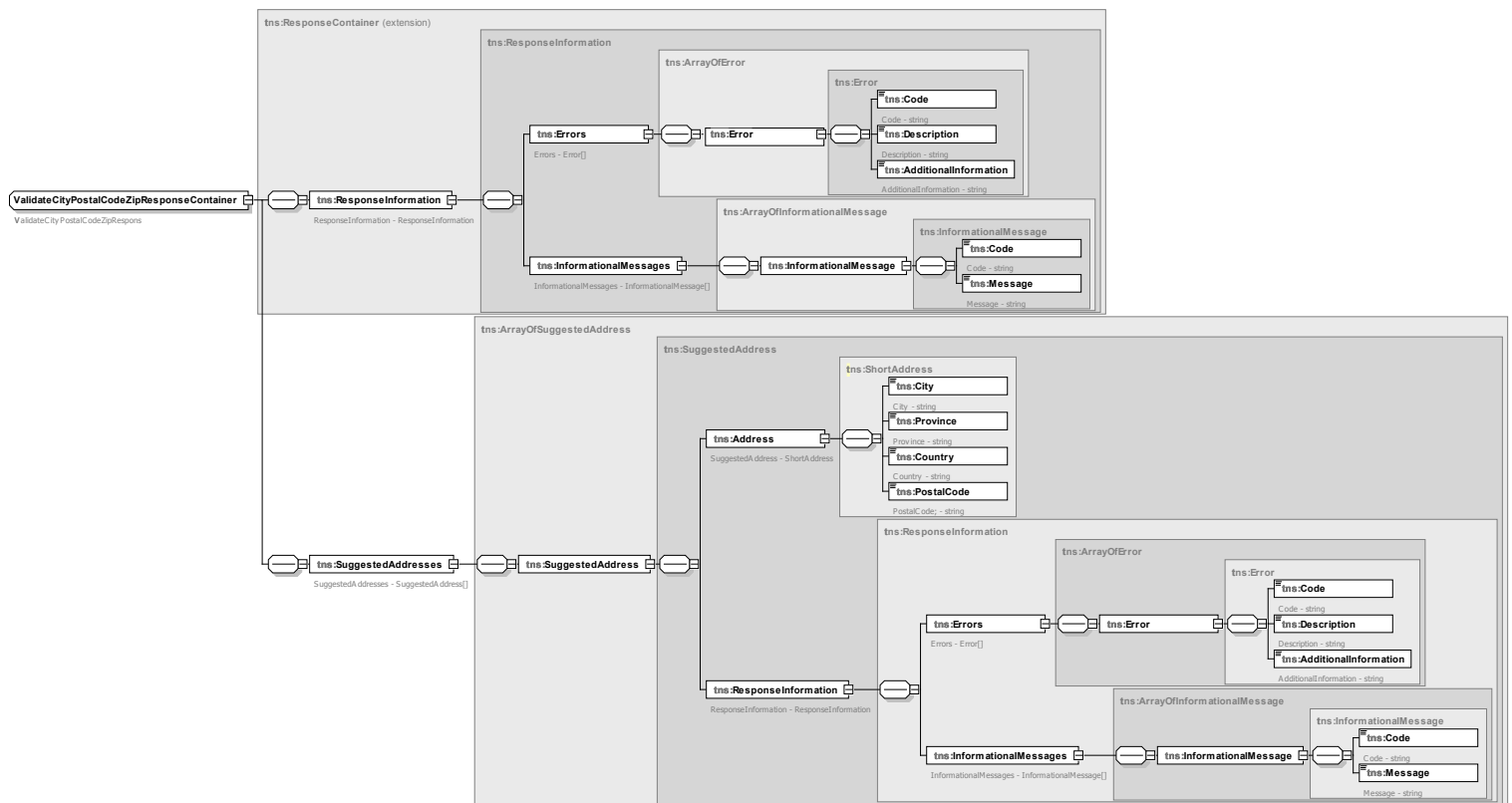
2.4.2   Get Services Options

The GetServiceOptions method returns all available Purolator services for the specified origin and destination addresses.

2.4.2.1   Request Diagrams – GetServiceOptions
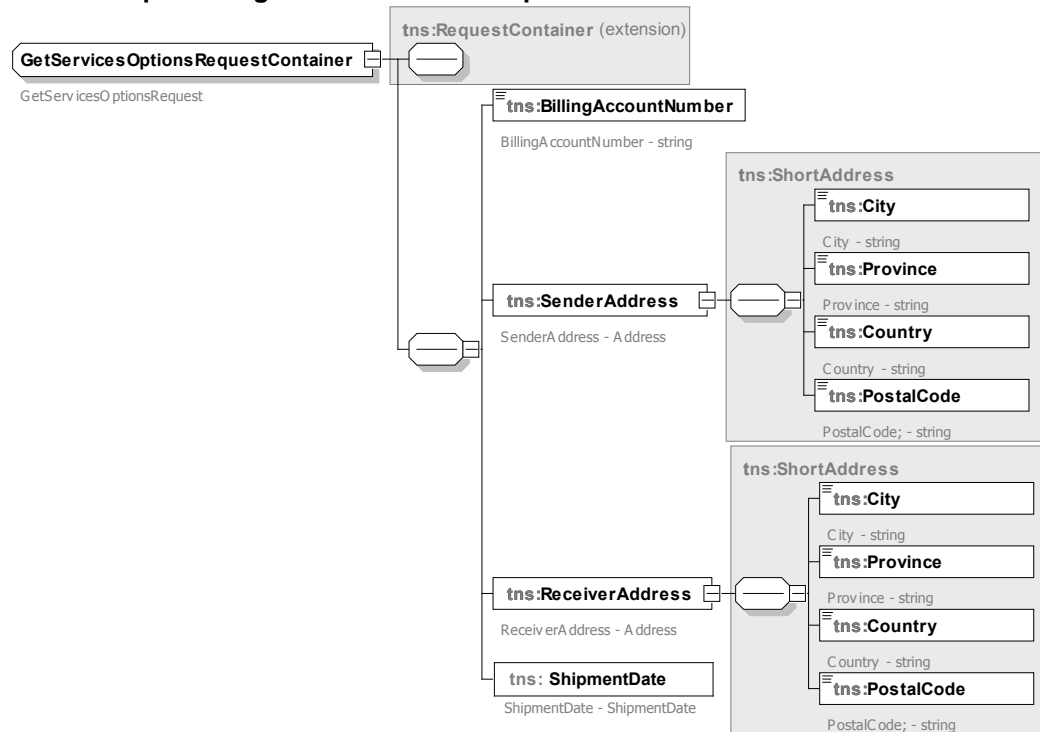
2.4.2.2   Response Diagrams – GetServiceOptions
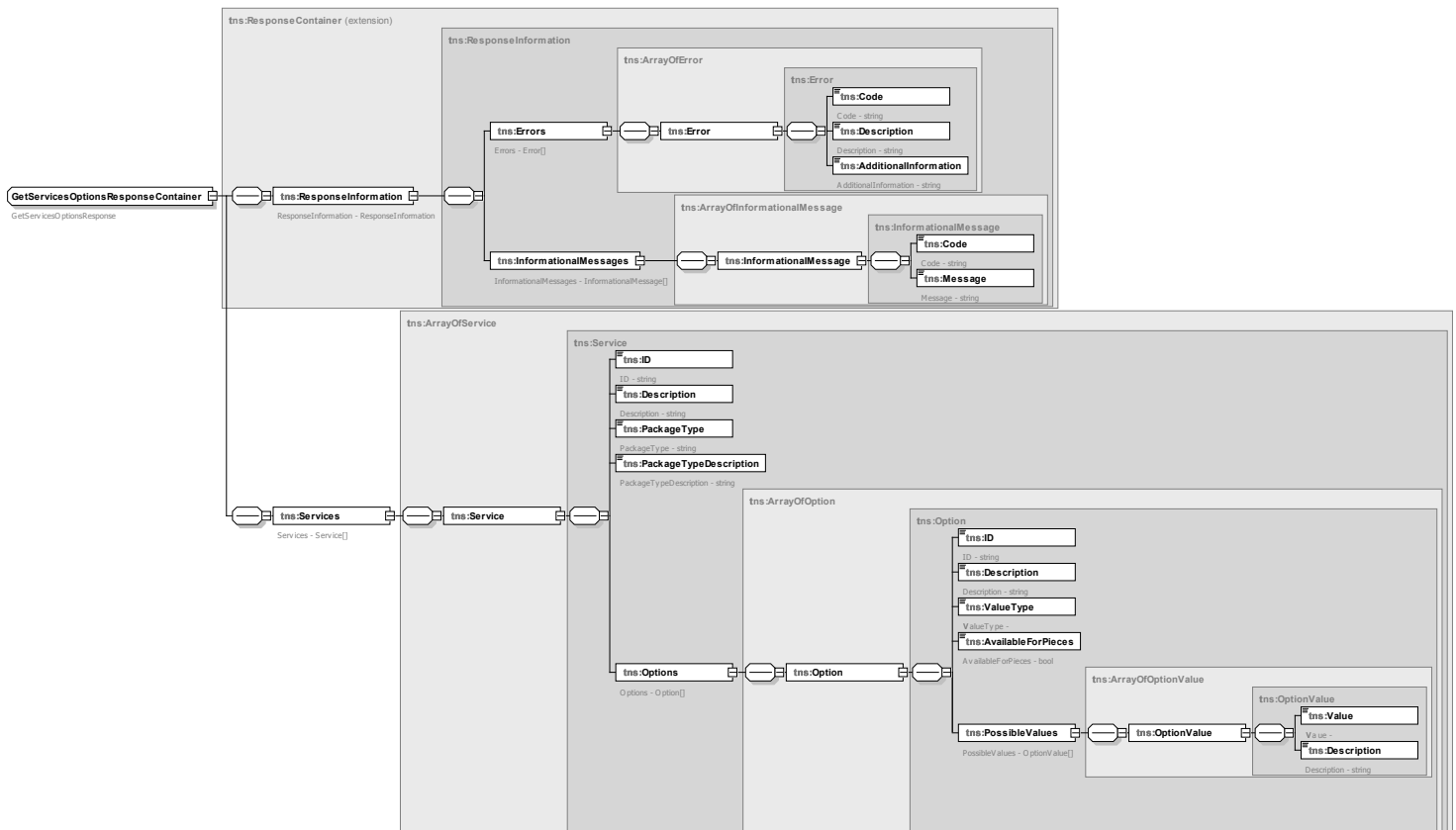
2.4.3   Get Service Rules

The GetServiceRules method returns all available Purolator products and options, as well as all the rules associated with the products and options. This includes all product min/max weights and dimensions, min/max pieces, product inclusions and exclusions, as well as option inclusions and exclusions.

2.4.3.1   Request Diagrams – GetServiceRules

Purolator E-Ship® Web Services
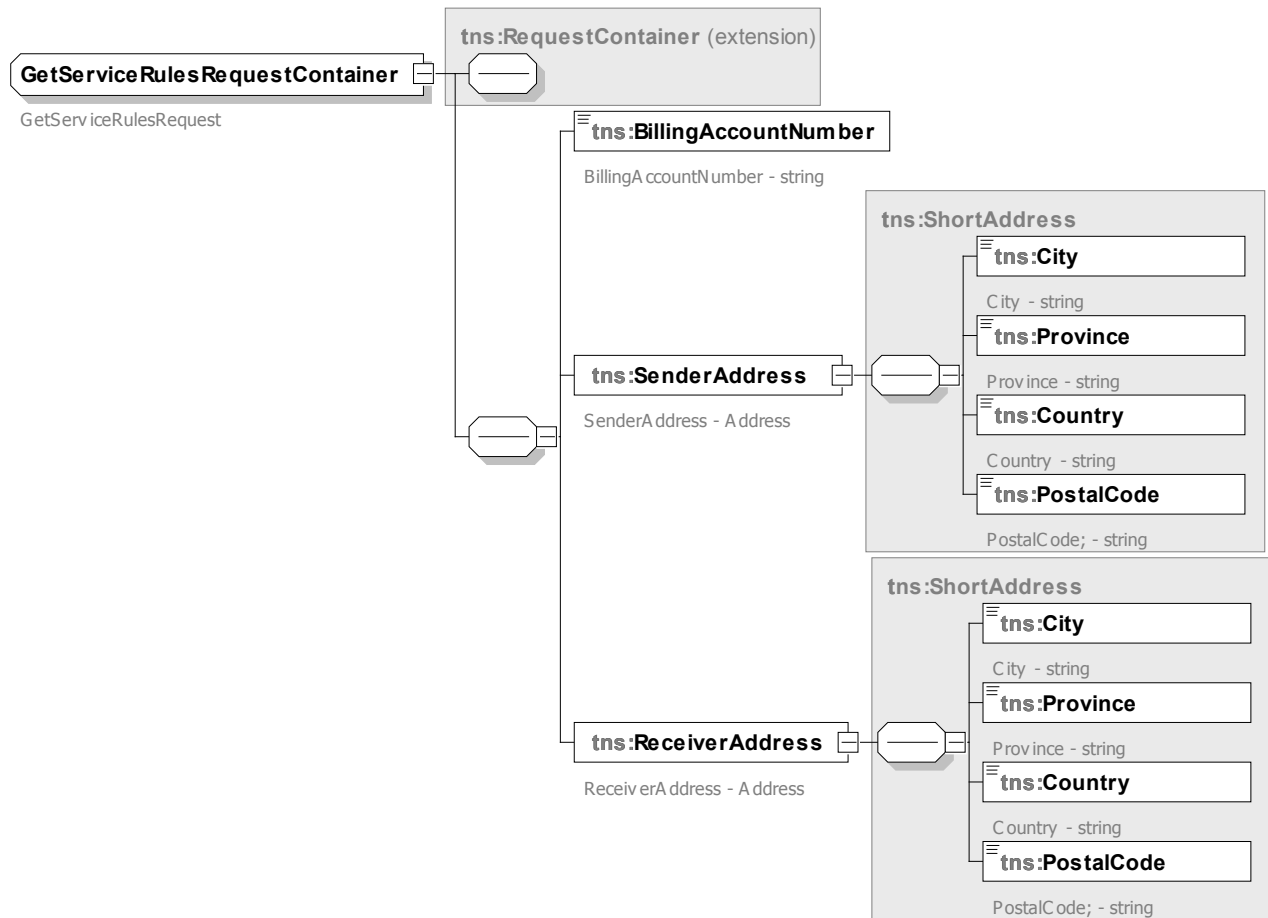
2.4.3.2 **Response Diagrams – GetServiceRules**
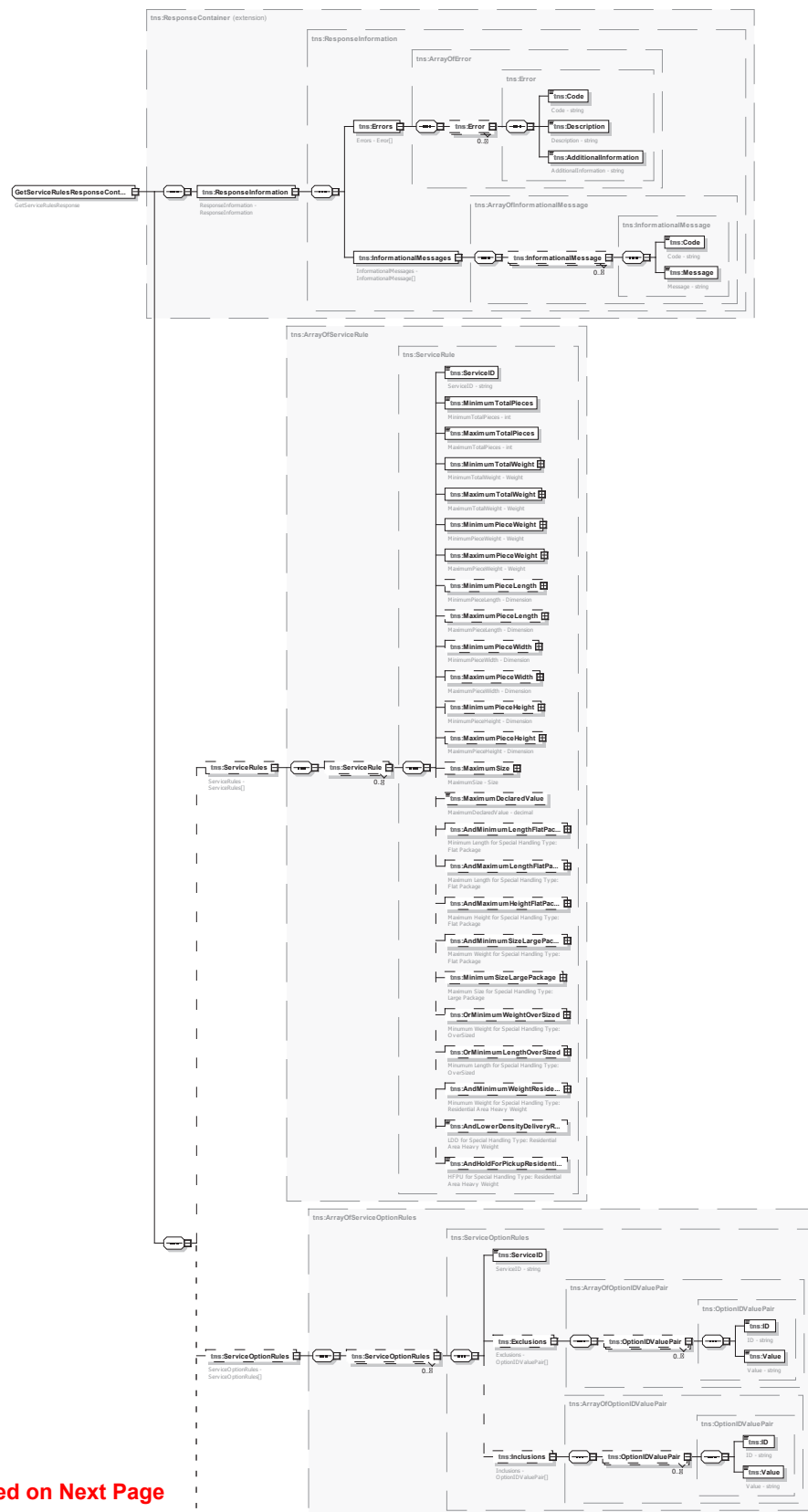
Continued from Previous Page
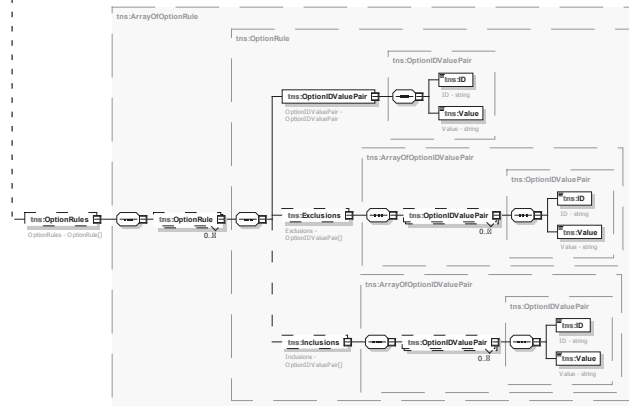
2.5   Error Handling

The Web Service calls return error data that your client application can use to identify and resolve runtime errors. If an error occurs during the invocation of most Web Services calls, then the API provides the following types of error handling:

- For errors resulting from badly formed messages, failed authentication, or similar problems, the Web Services returns a SOAP fault message.
- For errors resulting from a problem with the information sent to Purolator's systems, error codes and error descriptions are returned to the client application.
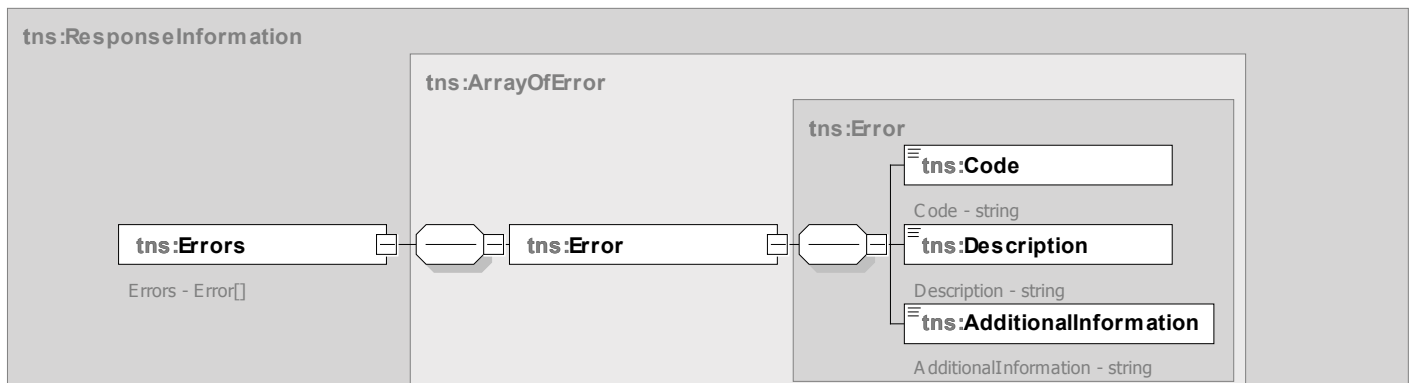
2.6 Implementation Considerations

As Purolator's business changes to meet the on-going needs of its customer, the business rules for certain products may change from time to time. As our business changes, your application doesn't have to. Purolator E-Ship Web Services offers customers an advanced Service Availability service that, when called, will return available products and services for a given origin and destination address. In addition to the available products and services, all business rules as well as product rules, product inclusions and exclusions, and products min/max dimensions and weights.

This can be used to offer your customers a greater experience, and offer all of Purolator's products and services, without needing to submit a request, only to discover that a particular product is not available for a particular address.

As well, additional Purolator E-Ship Web Services can be consumed to offer a richer customer experience. From estimates to tracking to retrieving necessary documentation, Purolator's E-Ship Web Services are designed to offer you the flexibility to consume the services required for your business.

Below is an example of how the all Purolator E-Ship Web Services may be utilized. (Green boxes denote service calls)
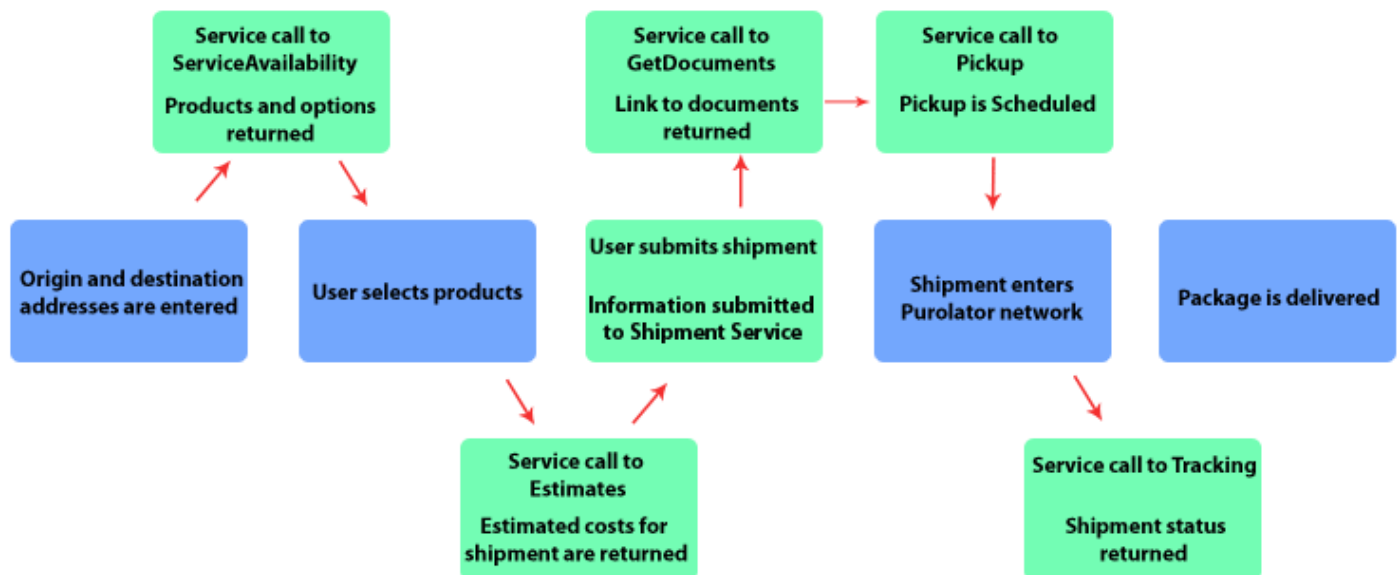
2.7   Error Messages / codes

Below is a list of all the error codes and descriptions.

Web Service Error

Code	Message
9001	Authorization failed -- Service Operation is inactive.
9000-1	Authorization failed -- Daily Threshold limit reached.
9000-2	Authorization failed -- Hourly Threshold limit reached.
9000-3	Authorization failed -- Minute Threshold limit reached.
1100000	One or more errors have occurred.
1100100	Field is missing.
1100101	The Account Number is a mandatory field.
1100102	The Account Name is a mandatory field.
1100103	The Account Number is a mandatory field.
1100104	The City Name is a mandatory field.
1100107	The Country is a mandatory field.
1100110	The Package Type is a mandatory field.
1100115	The Postal Code is a mandatory field.
1100116	The Province is a mandatory field.
1100119	The Service Mode is a mandatory field.
1100123	The State is a mandatory field.
1100128	The User Type is a mandatory field.

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1100131	The Receiver Address is a mandatory field.
1100132	The Receiver City is a mandatory field.
1100133	The Receiver Country is a mandatory field.
1100147	The Zip Code is a mandatory field.

Code	Message
1100200	Field is invalid.
1100202	City is invalid.
1100204	Country is invalid.
1100207	Package is invalid.
1100208	Phone Country Code is invalid.
1100213	Postal Code is invalid.
1100214	Province is invalid.
1100216	Service Mode is invalid.
1100217	State is invalid.
1100226	Country Code is invalid.
1100227	Premium Service Code is invalid.
1100241	Zip Code is invalid.
1100242	Receiver City is invalid.
1100243	Receiver Country is invalid.
1100266	Piece Weight is invalid.
1100275	Product Number is invalid.

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Code	Message
1100285	Number of Shipments is Invalid.
1100400	Account object not initialized.
1100401	Account number is invalid.
1100407	Either both service point hierarchies are provided or none.
1100411	Account Status is invalid.

Code	Message
1100419	Postal Code is invalid.
1100426	Country Code is invalid.
1100427	City is invalid.
1100438	City not found.
1100454	Premium Services are only valid for Domestic shipments.
1100455	The specified Postal Code is valid for the City, Province: %city%, %province%.
1100465	Unable to retrieve Account information for Account %accountNo%.
1100468	Failed to find City Name.
1100491	Product is invalid.
1100497	An error occurred with your request. Please try again later.
1100500	Your request failed. Please call 1-888-SHIP-123 or 1-888-744-7123 for assistance.
1100505	Undefined Account Type for Account %account%.
1100506	%characteristicName% must be numeric.

1100507	%characteristicName% must be one of %validTypes%
1100508	%characteristicName%%characteristicValue% is not valid with %characteristicName2%%characteristicValue2%
1100535	Regrettably we are experiencing technical difficulties and unable to provide all the available statuses on your U.S. shipment. We hope to have the problem rectified ASAP.
1100552	All Shipments must originate in Canada.
1100604	Receiver State is invalid.
1100605	Receiver State is a mandatory field.
1100606	Receiver Zip Code is invalid.
1100607	Receiver Zip Code is a mandatory field.

Code	Message
1100633	Membership Creation Failure.
1100674	Postal Code %postalCode% is only valid for %city%, %province%.
1100675	Zip Code %zipCode% is only valid for %city%, %state%.
1100759	Invalid Shipment Date: Date must be between %FromDate% and %ToDate%.
1100760	Invalid Estimate Date: Date must be between %FromDate% and %ToDate%.
1100761	Future Dating is not allowed.
3001099	Invalid PackageType Code: {0}. Valid values are: {1}.
3001100	Invalid TaxType Code: {0}. Valid values are: {1}.
3001101	Invalid DataType Code: {0}. Valid values are: {1}.
3001102	Invalid ScanType Code: {0}. Valid values are: {1}.

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Code	Message
3001103	Invalid SignatureImageFormat Code: {0}. Valid values are: {1}.
3001104	Invalid ILLanguage Code: {0}. Valid values are: {1}.
3001105	Invalid ESOLanguage Code: {0}. Valid values are: {1}.
3001106	Invalid ESOYesNo Code: {0}. Valid values are: {1}.
3001107	Invalid Option Code: {0}. Valid values are: {1}.
3001108	Invalid Product Code: {0}. Valid values are: {1}.
3001109	Invalid StreetType Code: {0}. Valid values are: {1}.
3001110	Invalid StreetDir Code: {0}. Valid values are: {1}.
3001111	Invalid StreetSuffix Code: {0}. Valid values are: {1}.
3001112	Invalid Country Code: {0}. Valid values are: {1}.
3001113	Invalid Province/State Code: {0}. Valid values are: {1}.

Code	Message
3001114	Translation Failed.
3001115	Service Call Failed.
3001116	Service Failed
3001117	A Web Service Error has occurred.
3001122	Invalid ChainOfSignature Code: {0}. Valid values are: {1}.
3001123	Invalid DangerousGoods Code: {0}. Valid values are: {1}.

3001124	Invalid DangerousGoodsClassification Code: {0}. Valid values are: {1}.
3001125	Invalid DangerousGoodsMode Code: {0}. Valid values are: {1}.
3001126	Invalid ExpressCheque Code: {0}. Valid values are: {1}.
3001127	Invalid ExpressChequeMethodOfPayment Code: {0}. Valid values are: {1}.
3001128	Invalid HoldForPickup Code: {0}. Valid values are: {1}.
3001129	Invalid SaturdayDelivery Code: {0}. Valid values are: {1}.
3001130	Invalid SaturdayPickup Code: {0}. Valid values are: {1}.
3001131	Invalid SpecialHanding Code: {0}. Valid values are: {1}.
3001132	Invalid TypesOfSpecialHandling Code: {0}. Valid values are: {1}.
3001133	Invalid DocumentType Code: {0}. Valid values are: {1}.
3001134	Invalid ExpressChequeAmount Code: {0}. Valid values are: {1}.
3001136	Service version is invalid
3001137	Invalid Declared Value Code: {0}. Valid values are: {1}.
3001138	Invalid OSNR Value Code: {0}. Valid values are: {1}.
3001139	Invalid registered shipping account specified in shipment

Code	Message
3001140	Invalid registered shipping account specified in return shipment
3001141	Postal / Zip code {0} code is not valid for Canada or U.S.
3001142	Country is not found
3001143	Suggested address is supplied
3001145	Invalid Piece Option Code: {0}. Valid values are: {1}.
3001146	Invalid Printer Type Option Code: {0}. Valid values are: {1}.

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3001147	Invalid Address.
3001148	Postal / Zip Code is required to validate a Canadian / U.S. Address.
3001153	Service Error
3002041	Special Handling not allowed in Shipment level

APPENDIX A – Complete Field List

Elements

ArrayOfError | **ArrayOfInformationalMessage** | **ArrayOfOption** | **ArrayOfOptionIDValuePair** | **ArrayOfOptionRule** | **ArrayOfOptionValue** | **ArrayOfService** | **ArrayOfServiceOptionRules** | **ArrayOfServiceRules** | **ArrayOfShortAddress** | **ArrayOfSuggestedAddress | Dimension | Error | GetServiceRulesRequestContainer | GetServiceRulesResponseContainer | GetServicesOptionsRequestContainer** | **GetServicesOptionsResponseContainer** | **InformationalMessage** | **Language** | **Option** | **OptionIDValuePair** | **OptionRule** | **OptionValue** | **PackageType** | **RequestContext** | **ResponseContext** | **ResponseInformation** | **Service** | **ServiceOptionRules** | **ServiceRules** | **ShortAddress** | **SuggestedAddress** | **ValidateCityPostalCodeZipRequestContainer** | **ValidateCityPostalCodeZipResponseContainer** | **ValueType** | **Weight**

Input

Field Name	Description	Allowed Value
ComplexType RequestContext	**Used by: RequestContext**	
Version	Version Number of the Web Service Request.	2.0
Language	Used to define the Language of the Response text.	Enumeration. en fr
GroupID	For Future Use	
RequestReference	Reference Identifier for the Service Request. Used to aid in Customer Support.	String
UserToken	Activation Key belonging to a Purolator account and customer. The Activation Key is associated with the application that it will be used on and is only required for applications intended for resale.	String
ComplexType GetServiceRulesRequestContainer	**Used by: GetServiceRulesRequest**	
BillingAccountNumber	Required. Registered billing account number	String
SenderAddress		**Complex Type ShortAddress**
ReceiverAddress		**Complex Type ShortAddress**
ComplexType GetServiceOptionsContainer	**Used by: GetServiceRulesRequest**	
BillingAccountNumber	Required. Registered billing account number	String
SenderAddress		**Complex Type ShortAddress**
ReceiverAddress		**Complex Type ShortAddress**

Shipment Date	Date of Shipment	Up to 10 days in advance. Date format: YYYY-MM-DD
ComplexType ValidateCityPostalCodeZipRequestContainer	**Used by: ValidateCityPostalCodeZipRequest**	
ArrayOfShortAddress		**Complex Type ArrayOfShortAddress**

Input

Field Name	Description	Allowed Value
ComplexType ArrayOfShortAddress	**Used by: ValidateCityPostalCodeZipRequest**	
Addresses		**Complex Type Addresses**
ComplexType Addresses	**Used by: ValidateCityPostalCodeZipRequest**	
ShortAddress		**Complex Type ShortAddress**
ComplexType ShortAddress	**Used by: GetServiceRulesRequestContainer/ReceiverAddress GetServicesOptionsRequestContainer/SenderAddress**	
City	Required. City	String Alpha Numeric Maximum character length 30
Province	Required. Province/State	String Enumeration See **Province/State** list
Country	Required. Country name	String Enumeration See **Country** List
PostalCode		

Output

Field Name	Description	Output Values
Element ResponseInformation	**Used by: ResponseInformation**	
ResponseReference		
Errors	Array of errors	**Complex Type ArrayOfError**
InformationalMessages		**Complex Type ArrayOfInformationalMessages**

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ComplexType **ArrayOfError**	**Used by:** **ArrayOfError, ResponseInformation/Errors**	
Error	Error information returned by the service call.	**Complex Type Error**
ComplexType **Error**	**Used by:** **Error, ArrayOfError/Error**	
Code	Error Code	
Description	Error Description	
AdditionalInformation	Additional error information	
ComplexType **ArrayOfInformationalMessage**	**Used by:** **ArrayOfInformationalMessage, ResponseInformation/InformationalMessages**	
InformationalMessage	An array of Informational Messages as part of a response to a service	Array of Strings request.
ComplexType **ArrayOfOption**	**Used by:** **Option/ChildServiceOptions, Service/Options**	
Option	The ArrayOfOptionIDValuePair field is used by both the shipment element, and the piece element. This array is used to input a single or multiple characteristics to the piece and/or shipment level.	**Complex Type Option**
ComplexType Option	**Used by:** **ArrayOfPiece/Piece, Piece**	
ID		
Description		
ValueType		Enumeration: String Decimal DateTime Enumeration
AvailableForPieces		Boolean
PossibleValues		**Complex Type ArrayOfOptionValue**
ChildServiceOptions		**Complex Type ArrayOfOption**
ComplexType **ArrayOfOptionValue**	**Used by:** **Option/PossibleValues**	
OptionValue		**Cmplex Type OptionValue**

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Output

Field Name	Description	Output Values
ComplexType OptionValue	**Used by: Option/PossibleValues**	
Value Description		
ComplexType ArrayOfOptionIDValuePair	**Used by: Piece/Options, OptionsInformation/Options**	
OptionIDValuePair		**Complex Type OptionIDValuePair**
ComplexType OptionIDValuePair	**Used by: ArrayOfOptionIDValuePair/OptionIDValuePair, OptionRule/OptionIDValuePair**	
ID		
Value		
ComplexType ArrayOfOptionRule	**Used by: GetServiceRulesResponseContainer/OptionRules**	
OptionRule	Array or option rules for a specified product/service.	**Complex Type OptionRule**
ComplexType OptionRule	**Used by: GetServiceRulesResponseContainer/OptionRules**	
OptionIDValuePair		**Complex Type OptionIDValuePair**
Exclusions		**Complex Type OptionIDValuePair**
Inclusions		**Complex Type OptionIDValuePair**
ComplexType ArrayOfService	**Used by: GetServicesOptionsResponseContainer/Services**	
Service	Array used to return all Purolator services available for the specified and destination addresses	**Complex Type Service** origin
ComplexType Service	**Used by: GetServicesOptionsResponseContainer/Services**	
ID	Nillable	String
Description	Nillable	String
PackageType		Enumeration: ExpressEnvelope ExpressPack CustomerPackaging ExpressBox
PackageTypeDescription	Nillable	String
Options	Nillable	**Complex Type ArrayOfOption**

ComplexType ArrayOfServiceOptionRules	Used by: GetServiceRulesResponseContainer/ ServiceOptionRules	
ServiceOptionRules	Nillable	Complex Type ServiceOptionRules
ComplexType ServiceOptionRules	Used by: GetServiceRulesResponseContainer/ServiceOptionRules	
ServiceID	Nillable	String
Exclusions		Complex Type **OptionIDValuePair**
Inclusions		Complex Type **OptionIDValuePair**

Output

Field Name	Description	Output Values
ComplexType ArrayOfServiceRules	Used by: GetServiceRulesResponseContainer/ServiceRules	
ServiceRules	Nillable	Complex Type **ServiceRules**
ComplexType ServiceRules	Used by: GetServiceRulesResponseContainer/ServiceRules	
ServiceID		String
MinimumTotalPieces		Int
MaximumTotalPieces		Int
MinimumTotalWeight		Complex Type **Weight**
MaximumTotalWeight		Complex Type **Weight**
MinimumPieceWeight		Complex Type **Weight**
MaximumPieceWeight		Complex Type **Weight**
MinimumPieceLength		Complex Type **Dimension**
MaximumPieceLength		Complex Type **Dimension**
MinimumPieceWidth		Complex Type **Dimension**
MaximumPieceWidth		Complex Type **Dimension**
MinimumPieceHeight		Complex Type **Dimension**
MaximumPieceHeight		Complex Type **Dimension**
MaximumSize		Complex Type **Dimension**
MaximumDeclaredValue		Decimal
ComplexType ArrayOfSuggestedAddress	Used by: ValidateCityPostalCodeZipResponseContainer/SuggestedAddresses	
SuggestedAddress		Complex Type SuggestedAddress
ComplexType SuggestedAddress	Used by: ValidateCityPostalCodeZipResponseContainer/SuggestedAddresses	
Address		Complex Type **ShortAddress**
ResponseInformation		Complex Type **ResponseInformation**
ComplexType ShortAddress	Used by: GetServiceRulesRequestContainer/ReceiverAddress GetServicesOptionsRequestContainer/SenderAddress	
City	City	String
Province	Province/State	String
Country	Country name	String

PostalCode	Postal/Zip Code	String
ComplexType ResponseContext	**Used by:** GetServiceRulesRequestContainer/ReceiverAddress GetServicesOptionsRequestContainer/SenderAddress	
ResponseReference		
ComplexType Weight	**Used by:** ServiceRules/MaximumPieceWeight ServiceRules/MaximumTotalWeight ServiceRules/MinimumPieceWeight ServiceRules/MinimumTotalWeight Weight	
Value		Decimal
WeightUnit		Enumeration: Lb kg

Output

Field Name	Description	Output Values
ComplexType Dimension	**Used by:** Dimension ServiceRules/MaximumPieceHeight ServiceRules/MaximumPieceLength ServiceRules/MaximumPieceWidth ServiceRules/MaximumSize ServiceRules/MinimumPieceHeight ServiceRules/MinimumPieceLength ServiceRules/MinimumPieceWidth	
Value		Decimal
DimensionUnit		Enumeration: in cm
ComplexType ValidateCityPostalCodeZipResponseContainer		
ResponseInformation		**Complex Type ResponseInformation**
SuggestedAddresses		**Complex Type SuggestedAddresses**
ComplexType GetServiceRulesResponseContainer		
ResponseInformation		**Complex Type ResponseInformation**
ServiceRules		**Complex Type ServiceRules**
ServiceOptionRules		**Complex Type ServiceOptionRules**
OptionRules		**Complex Type OptionRules**
ComplexType GetServicesOptionsResponseContainer		
ResponseInformation		**Complex Type ResponseInformation**
Services		**Complex Type Services**

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APPENDIX B – Allowed Code List

Province/State

Province/ State Code	Description	Province/ State Code	Description
AB	Alberta	NL	Newfoundland
AK	Alaska	NM	New Mexico
AL	Alabama	NS	Nova Scotia
AR	Arkansas	NT	Northwest Territories
AZ	Arizona	NU	Nunavut
BC	British Columbia	NV	Nevada
CA	California	NY	New York
CO	Colorado	OH	Ohio
CT	Connecticut	OK	Oklahoma
DC	District of Columbia	ON	Ontario
DE	Delaware	OR	Oregon
FL	Florida	PA	Pennsylvania
GA	Georgia	PE	Prince Edward Island
HI	Hawaii	QC	Quebec
IA	Iowa	RI	Rhode Island
ID	Idaho	SC	South Carolina
IL	Illinois	SD	South Dakota
IN	Indiana	SK	Saskatchewan
KS	Kansas	TN	Tennessee
KY	Kentucky	TX	Texas
LA	Louisiana	UT	Utah
MA	Massachusetts	VA	Virginia
MB	Manitoba	VT	Vermont
MD	Maryland	WA	Washington
ME	Maine	WI	Wisconsin
MI	Michigan	WV	West Virginia
MN	Minnesota	WY	Wyoming
MO	Missouri	YT	Yukon
MS	Mississippi		
MT	Montana		
NB	New Brunswick		
NC	North Carolina		
ND	North Dakota		
NE	Nebraska		
NH	New Hampshire		
NJ			

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Piece level Characteristics

Characteristic Value (ID field)	Allowed Value (Value field)
SpecialHandling	Enumeration: true false
SpecialHandlingType	Enumeration: AdditionalHandling FlatPackage LargePackage Oversized ResidentialAreaHeavyweight

Shipment level Characteristic

Characteristic Value (ID field)	Allowed Value (Value field)
DangerousGoods	Enumeration: TRUE FALSE
DangerousGoodsClass (required if sending Dangerous Goods)	Enumeration: FullyRegulated UN3373 UN1845 LessThan500kgExempt LimitedQuantities
DangerousGoodsMode (required if sending Dangerous Goods)	Enumeration: Air Ground
DeclaredValue	String Numeric xxxxx.xx
ChainOfSignature	Enumeration: TRUE FALSE
SaturdayPickup	Enumeration: TRUE FALSE
SaturdayDelivery	Enumeration: TRUE FALSE
ExpressCheque	Enumeration: TRUE FALSE
HoldForPickup	Enumeration: TRUE FALSE

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ExpressChequeMethodOfPayment	Enumeration: Cheque PostDatedCheque CertifiedCheque MoneyOrder BankDraft
ExpressChequeAmount	String Numeric xxxxx.xx
OriginSignatureNotRequired	Enumeration: TRUE FALSE
ResidentialSignatureDomestic	Enumeration: TRUE FALSE
ResidentialSignatureIntl	Enumeration: TRUE FALSE

Product List (ServiceID)

PurolatorExpress9AM	PurolatorExpressPackU.S.
PurolatorExpress10:30AM	PurolatorExpressU.S.Pack9AM
PurolatorExpress	PurolatorExpressU.S.Pack10:30AM
PurolatorExpressEvening	PurolatorExpressU.S.Pack12:00
PurolatorExpressEnvelope9AM	PurolatorExpressBoxU.S.
PurolatorExpressEnvelope10:30AM	PurolatorExpressU.S.Box9AM
PurolatorExpressEnvelope	PurolatorExpressU.S.Box10:30AM
PurolatorExpressEnvelopeEvening	PurolatorExpressU.S.Box12:00
PurolatorExpressPack9AM	PurolatorGroundU.S.
PurolatorExpressPack10:30AM	PurolatorExpressInternational
PurolatorExpressPack	PurolatorExpressInternational9AM
PurolatorExpressPackEvening	PurolatorExpressInternational10:30AM
PurolatorExpressBox9AM	PurolatorExpressInternational12:00
PurolatorExpressBox10:30AM	PurolatorExpressEnvelopeInternational
PurolatorExpressBox	PurolatorExpressInternationalEnvelope9AM
PurolatorExpressBoxEvening	PurolatorExpressInternationalEnvelope10:30AM
PurolatorGround	PurolatorExpressInternationalEnvelope12:00
PurolatorGround9AM	PurolatorExpressPackInternational
PurolatorGround10:30AM	PurolatorExpressInternationalPack9AM
PurolatorGroundEvening	PurolatorExpressInternationalPack10:30AM
PurolatorExpressU.S.	PurolatorExpressInternationalPack12:00
PurolatorExpressU.S.9AM	PurolatorExpressBoxInternational
PurolatorExpressU.S.10:30AM	PurolatorExpressInternationalBox9AM
PurolatorExpressU.S.12:00	PurolatorExpressInternationalBox10:30AM

PurolatorExpressEnvelopeU.S.	PurolatorExpressInternationalBox12:00
PurolatorExpressU.S.Envelope9AM	**New Products Added:**
PurolatorExpressU.S.Envelope10:30AM	PurolatorExpress12PM
PurolatorExpressU.S.Envelope12:00	PurolatorExpressEnvelope12PM
	PurolatorExpressPack12PM
	PurolatorExpressBox12PM

Street Suffix

A	P
B	Q
C	R
D	S
E	T
F	U
G	V
H	W
I	X
J	Y
K	Z
L	¼
M	½
N	¾
O	

Street Type

Abbey	End	Montéé	Village
Acres	Esplanade	Mount	Villas
Allée	Estates	Mountain	Vista
Alley	Expressway	Parade	Voie
Autoroute	Extension	Parc	Walk
avenue	Field	Park	Way
Avenue	Forest	Parkway	Wharf
Bay	Freeway	Passage	Wood
Beach	Front	Path	Wynd
Bend	Gardens	Pathway	
Boulevard	Gate	Pines	
Branch	Glade	Place	
By-pass	Glen	Plateau	

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Campus	Green	Plaza
Cape	Grounds	Point
Carré	Grove	Pointe
Carrefour	Harbour	Port
Centre	Heath	Private
Cercle	Height	Promenade
Chase	Heights	Quai
Chemin	Highlands	Quay
Circle	Highway	Ramp
Circuit	Hill	Rang
Close	Hollow	Ridge
Common	Île	Rise
Concession	Impasse	Road
Corners	Inlet	Route
Côte	Island	Row
Cour	Key	Rue
Cours	Knoll	Ruelle
Court	Landing	Run
Cove	Lane	Sentier
Crest	Limits	Square
Crescent	Line	Street
Croissant	Link	Subdivision
Crossing	Lookout	Terrace
Cul-de-sac	Loop	Terrasse
Dale	Mall	Townline
Dell	Manor	Trail
Diversion	Maze	Turnabout
Downs	Meadow	Vale

Drive	Mews	View

Country

Country Code	Country Description	Country Code	Country Description	Country Code	Country Description
AD	Andorra	GN	Guinea	OM	Oman
AE	Utd.Arab Emir.	GP	Guadeloupe	OR	Orange
AF	Afghanistan	GQ	Equatorial Guin	PA	Panama
AG	Antigua/Barbuda	GR	Greece	PE	Peru
AI	Anguilla	GS	S. Sandwich Ins	PF	Frenc.Polynesia
AL	Albania	GT	Guatemala	PG	Pap. New Guinea
AM	Armenia	GU	Guam	PH	Philippines
AN	Dutch Antilles	GW	Guinea-Bissau	PK	Pakistan
AO	Angola	GY	Guyana	PL	Poland
AQ	Antarctica	HK	Hong Kong	PM	St.Pier,Miquel.
AR	Argentina	HM	Heard/McDon.Isl	PN	Pitcairn Islnds
AS	Samoa, America	HN	Honduras	PR	Puerto Rico
AT	Austria	HR	Croatia	PS	Palestine
AU	Australia	HU	Hungary	PT	Portugal
AW	Aruba	IC	Canary Islands	PW	Palau
AX	Aland Islands	ID	Indonesia	PY	Paraguay
AZ	Azerbaijan	IE	Ireland	QA	Qatar
BA	Bosnia-Herz.	IL	Israel	RE	Reunion
BB	Barbados	IM	Isle of Man	RO	Romania
BD	Bangladesh	IN	India	RS	Serbia
BE	Belgium	IO	Brit.Ind.Oc.Ter	RU	Russian Fed.
BF	Burkina Faso	IQ	Iraq	RW	Rwanda
BG	Bulgaria	IR	Iran	SA	Saudi Arabia
BH	Bahrain	IS	Iceland	SB	Solomon Islands
BI	Burundi	IT	Italy	SC	Seychelles
BJ	Benin	JE	Jersey	SD	Sudan
BL	Blue	JM	Jamaica	SG	Singapore
BM	Bermuda	JO	Jordan	SH	Saint Helena
BN	Brunei Daruss.	JP	Japan	SI	Slovenia
BO	Bolivia	KE	Kenya	SJ	Svalbard
BR	Brazil	KG	Kyrgyzstan	SK	Slovakia
BS	Bahamas	KH	Cambodia	SL	Sierra Leone

BT	Bhutan	KI	Kiribati	SM	San Marino
BV	Bouvet Islands	KM	Comoros	SN	Senegal
BW	Botswana	KN	St Kitts&Nevis	SO	Somalia
BY	Belarus	KP	North Korea	SR	Suriname
BZ	Belize	KR	South Korea	ST	S.Tome,Principe
CA	Canada	KW	Kuwait	SV	El Salvador
CC	Coconut Islands	KY	Cayman Islands	SY	Syria
CD	Dem. Rep. Congo	KZ	Kazakhstan	SZ	Swaziland
CF	Central African Republic	LA	Laos	TC	Turksh Caicosin
CG	Rep.of Congo	LB	Lebanon	TD	Chad
CH	Switzerland	LC	St. Lucia	TF	French S.Territ
CI	Cote d'Ivoire	LI	Liechtenstein	TG	Togo
CK	Cook Islands	LK	Sri Lanka	TH	Thailand

Country Code	Country Description	Country Code	Country Description	Country Code	Country Description
CL	Chile	LR	Liberia	TJ	Tajikistan
CM	Cameroon	LS	Lesotho	TK	Tokelau Islands
CN	China	LT	Lithuania	TL	Timor Leste
CO	Colombia	LU	Luxembourg	TM	Turkmenistan
CR	Costa Rica	LV	Latvia	TN	Tunisia
CU	Cuba	LY	Libya	TO	Tonga
CV	Cape Verde	MA	Morocco	TP	East Timor
CX	Christmas Islnd	MC	Monaco	TR	Turkey
CY	Cyprus	MD	Moldova	TT	Trinidad,Tobago
CZ	Czech Republic	ME	Montenegro	TV	Tuvalu
DE	Germany	MG	Madagascar	TW	Taiwan
DJ	Djibouti	MH	Marshall Islnds	TZ	Tanzania
DK	Denmark	MK	Macedonia	UA	Ukraine
DM	Dominica	ML	Mali	UG	Uganda
DO	Dominican Rep.	MM	Burma	UM	Minor Outl.Isl.
DZ	Algeria	MN	Mongolia	UN	United Nations
EC	Ecuador	MO	Macau	US	USA
EE	Estonia	MQ	Martinique	UY	Uruguay
EG	Egypt	MR	Mauretania	UZ	Uzbekistan
EH	West Sahara	MS	Montserrat	VA	Vatican City
ER	Eritrea	MT	Malta	VC	St. Vincent
ES	Spain	MU	Mauritius	VE	Venezuela
ET	Ethiopia	MV	Maldives	VG	Brit.Virgin Is.

EU	European Union	MW	Malawi	VI	Amer.Virgin Is.
FI	Finland	MX	Mexico	VN	Vietnam
FJ	Fiji	MY	Malaysia	VU	Vanuatu
FK	Falkland Islnds	MZ	Mozambique	WF	Wallis,Futuna
FM	Micronesia	NA	Namibia	WS	Samoa
FO	Faroe Islands	NC	New Caledonia	XB	Bonaire
FR	France	NE	Niger	XC	Curacao
GA	Gabon	NF	Norfolk Islands	XM	St. Maarten
GB	United Kingdom	NG	Nigeria	XN	Nevis
GD	Grenada	NI	Nicaragua	XS	Somaliland Republic
GE	Georgia	NL	Netherlands	XY	St. Barthelemy
GF	French Guayana	NO	Norway	YE	Yemen
GG	Guernsey	NP	Nepal	YT	Mayotte
GH	Ghana	NR	Nauru	ZA	South Africa
GI	Gibraltar	NT	Nato	ZM	Zambia
GL	Greenland	NU	Niue	ZW	Zimbabwe
GM	Gambia	NZ	New Zealand	ZZ	Dummy Country

Street Direction

E	S
N	SE
NE	SO
NO	SW
NW	W
O	