FedEx Web Services 2021

Address Validation Service Guide

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Disclaimer

All Improper Transaction scenarios are for example only. They do not reflect all error condition scenarios.

About This Guide

This guide describes how to integrate with FedEx Web Services. It is written for the application developer who uses web services to design and deploy applications enabled by FedEx. It describes how to get started with application development and how to use the Application Programming Interface (API). It also describes each available service in addition to the business logic that drives each FedEx process.

Resources

- FedEx Developer Resource Center: fedex.com/developer
- FedEx Services At-a-Glance: fedex.com/us/services
- FedEx Service Guide available at fedex.com/us/service-guide
- World Wide Web Consortium XML: https://www.w3.org/XML
- World Wide Web Consortium XML Schema: https://www.w3.org/XML/Schema
- Microsoft Web Services: msdn.microsoft.com/en-us/library/ms950421.aspx
- O'Reilly XML.com: http://www.xml.com
- Secure Socket Layer Certificates: fedex.com/us/developer/downloads/dev_cert.zip
- Web Services working group: https://www.w3.org/2000/xp/Group/

Support

If you have questions or need technical assistance:

- United States and Canada: call **1.877.339.2774**. Support hours are 7 a.m. to 9 p.m. CT Monday through Friday and 9 a.m. to 3 p.m. CT Saturday.
- Europe: email emeawebservices@fedex.com
- The Indian Subcontinent, the Middle East and Africa: email meisawebservices@fedex.com
- Asia-Pacific: email apacwebservices@fedex.com
- Brazil: email ct-brazil@corp.ds.fedex.com
- The rest of Latin America and the Caribbean: click here for your country's dedicated support phone number.
- Customers using a FedEx® Compatible Solutions Program automation solution should contact their software provider for support.

1 Introduction

FedEx Web Services gives you the tools to build custom platform- and interface-independent applications that access FedEx features. You can use FedEx Web Services in a variety of ways to create customized integration solutions for your specific shipping needs. Here are just a few of the ways a company can use web services to streamline operations, improve visibility, and provide more choices to clients:

- **Give Customers More Options:** Help customers learn about all the available shipping options and rates with Ship Service WSDL, Open Ship WSDL, and Rate Services WSDL. You can also extend this service to your shopping cart and website, allowing customers to access money- saving information firsthand.
- **More Convenience:** Use the Locations Service WSDL to find the FedEx pickup location nearest your customer. Or, send an email to your customers with a link to this service as part of your standard order-receipt process.
- **Offer Global Shipping Options:** Create shipping labels for worldwide locations. Improve customer service by offering more shipping options to customers in more countries with the consolidated Sip Service WSDL.
- **Reduce Customer Service Costs:** Decrease phone traffic from customers checking the status of their shipments and cut customer service costs. FedEx provides online Tracking and Visibility Services that allow you to provide customers with the status of shipments, Signature Proof of Delivery (SPOD), and Shipment Notification in the Ship Request.
- **Simplify Processes and Improve Satisfaction:** In addition to Express Tag Availability, provide a simple way to allow customers to return an order with Email Labels. This service sends an email with the address (URL) of a website where the recipient can log in and print a return label.

Why should developers be interested in web services?

- Interoperability:

  Any system can interact with any other system using web services, regardless of the languages in which those systems are written. In other words, web services are language-neutral. Programming language supported are Perl, PL/SQL and UNIX C.

- Ubiquity:

  Web services communicate using HTTPS and XML. Any connected device that supports these technologies can both host and access web services.

- Low Barrier to Entry:

  The concepts behind web services are easy to understand, and developers can quickly create and deploy them using many toolkits available on the web.

- Industry Support:

  Major content providers and vendors support the web services movement.

Any application running on any platform can interact with a web service by using the Simple Object Access Protocol (SOAP) and Web Services Description Language (WSDL) standards for message transfer and service discovery. By following the standards, applications can seamlessly communicate with platform services.

1.1 Document Overview

This guide provides instructions for coding the functions you need to develop FedEx supported applications. The following chapters make up this guide:

- Documentation overview and guidelines, including how to use the Help application and howto print this guide.
- Overview information about web services, including a high-level description of FedExWeb Services methods.
- Coding basics.
- Overview information about testing and certifying your application.

Each chapter covering FedEx Web Services coding includes:

- Service Details: Business rules for using the FedEx service.
- Service Options: Links to additional services that can be added to the basic web service.
- Coding Details: Best practices information, basic request and reply elements, and a link toerror messages.
- XML Schema: A link to the layout for the service. This layout provides coding requirements forall elements in the schema.

1.2 Printing All or Part of This Guide

You can print all or part of this guide from the PDF version.

2 Web Services, WSDL, and SOAP Overview

This section describes the standard coding technologies used in FedEx Web Services.

2.1 Web Services

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

Web services are, by definition, platform independent. FedEx Web Services allow developers to build custom applications that are independent of changes to the FedEx interface. Web services are consumed by many different applications across many platforms. They are based on the basic principles that govern XML standards, one of which is how Namespaces can be declared and applied.

Namespaces are declared as an attribute of an element. It is not mandatory to declare namespaces only at the root element; rather it can be declared for any element in the XML document. The scope of a declared namespace begins for the element where it is declared. This is applicable to the entire content of that element, unless overridden by another namespace declaration with the same prefix name. The content of an element is the content between the <opening-tag> and </closing-tag> of that element. So essentially, XML namespace declarations are scoped, indicating that the declared prefix (or default namespace) is in force for the element on which the declaration occurs (as well as its descendant elements).

A namespace declared as follows:

```
<v12:RateReply xmlns:v12="http://fedex.com/rate/v12">
```

is semantically the same as

```
<RateReply xmlns="http://fedex.com/ws/rate/v12">
```

or even the same as

```
<foo:RateReply xmlns:foo="http://fedex.com/ws/rate/v12">
```

Note: The information here is for reference only. You may choose alternate approaches that are also available for coding/integration with web services.

2.2 Web Services Description Language (WSDL)

A SOAP request to, or response from a service is generated according to the service's WSDL definition. A WSDL is an XML document that provides information about what the service does, the methods that are available, their parameters, and parameter types. It describes how to communicate with theservice in order to generate a request to, or decipher a response from, the service.

The purpose of a WSDL is to completely describe a web service to a client. A WSDL generally defines where the service is available and which communication protocol is used to talk to the service. It

defines everything required to write a program that will work with an XML web service. A WSDL document describes a web service using seven major elements. The elements can be abstract or concrete.

Abstract XML elements that describe the web service are: <types>, <message>, <operation>,

<portType>.

Concrete XML elements that provide connection details are: <service>, <port>, <binding>.

Table 1 : WSDL Elements

Element	Definition
<definitions>	The root element contains name space definitions.
<portType>	The most important WSDL element. It is a set of all operations that a web service can accept and is a container for <operation> elements. This WSDL element describes a web service, the operations that can be performed, and the messages that are involved. It can be compared to a function library (or a module or a class) in a traditional programming language.
<types>	Defines variable types used in the web service (both the parameters passed to a function and the type of the value passed back via the response). The data types are described by XML schema. This element contains user-defined data types (in the form of XML schema). For maximum platform neutrality, WSDL uses XML schema syntax to define data types.
<message>	Defines the data elements of an operation. Each message can consist of one or more parts that can be compared to the parameters of a function call in a traditional programming language.
<operation>	Child of the <binding> element that defines each operation that the port exposes. This element allows only three messages: Message - Definition Input Message - Data web services receive Output Message - Data web services send Fault Message - Error messages from web services
<service>	Contains a <port> child element that describes the URL where the service is located. This is the location of the ultimate web service.
<binding>	Defines the message format and protocol details for each port. The binding element has two attributes: the name attribute and the type attribute. This element Specify how the client and the web service should send messages to one another.

Note: For more information about the WSDL standard, refer to World Wide Web Consortium (W3C) Website.

2.3 Simple Object Access Protocol (SOAP)

- SOAP is a simple XML-based protocol that allows applications to exchange information over HTTP.
- Built on open standards supported by numerous development tools on various platforms.
- It is a request interface object in your application programming language.
- Provides a way to communicate between applications running on different operating systems, with different technologies and programming languages.
- Enables the data to pass through layers of intermediaries and arrive at the ultimate receiver the way it was intended.

Note: You can construct the SOAP messages by yourself using one of the many development tools available today.

2.4 SOAP Message

A SOAP message is an XML document that can be a Request for a web service from a client or a Reply from a web service to a client.

- Required <SOAP:Envelope>
- Optional <SOAP:Header>
- Required <SOAP:Body>

Example 1: DeleteTagRequest (SOAP Message)

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:v23="http://fedex.com/ws/ship/v23">
	<soapenv:Header/>
	<soapenv:Body>
		<v23:DeleteTagRequest>
			<v23:WebAuthenticationDetail>
				<v23:ParentCredential>
					<v23:Key>INPUT YOUR INFORMATION</v23:Key>
					<v23:Password>INPUT YOUR INFORMATION</v23:Password>
				</v23:ParentCredential>
				<v23:UserCredential>
					<v23:Key>INPUT YOUR INFORMATION</v23:Key>
					<v23:Password>INPUT YOUR INFORMATION</v23:Password>
				</v23:UserCredential>
			</v23:WebAuthenticationDetail>
			<v23:ClientDetail>
				<v23:AccountNumber>INPUT YOUR INFORMATION</v23:AccountNumber>
				<v23:MeterNumber>INPUT YOUR INFORMATION</v23:MeterNumber>
				<v23:IntegratorId>12345</v23:IntegratorId>
```

```
                        <v23:Localization>
                              <v23:LanguageCode>EN</v23:LanguageCode>
                              <v23:LocaleCode>ES</v23:LocaleCode>
                        </v23:Localization>
                  </v23:ClientDetail>
                  <v23:TransactionDetail>
                        <v23:CustomerTransactionId>v23_Delete
Tag</v23:CustomerTransactionId>
                        <v23:Localization>
                              <v23:LanguageCode>EN</v23:LanguageCode>
                              <v23:LocaleCode>ES</v23:LocaleCode>
                        </v23:Localization>
                  </v23:TransactionDetail>
                  <v23:Version>
                        <v23:ServiceId>ship</v23:ServiceId>
                        <v23:Major>23</v23:Major>
                        <v23:Intermediate>0</v23:Intermediate>
                        <v23:Minor>0</v23:Minor>
                  </v23:Version>
                  <v23:DispatchLocationId>NQAA</v23:DispatchLocationId>
                  <v23:DispatchDate>2017-12-11</v23:DispatchDate>
                  <v23:Payment>
                        <v23:PaymentType>SENDER</v23:PaymentType>
                        <v23:Payor>
                              <v23:ResponsibleParty>
                                    <v23:AccountNumber>INPUT YOUR
INFORMATION</v23:AccountNumber>
                                    <v23:Tins>
                                          <v23:TinType>BUSINESS_NATIONAL</v23:TinType>
                                          <v23:Number>123456</v23:Number>
                                    </v23:Tins>
                                    <v23:Contact>
                                          <v23:ContactId>123</v23:ContactId>
                                    </v23:Contact>
                              </v23:ResponsibleParty>
                        </v23:Payor>
                  </v23:Payment>
                  <v23:ConfirmationNumber>997038000027311</v23:ConfirmationNumber>
            </v23:DeleteTagRequest>
      </soapenv:Body>
</soapenv:Envelope>
```

2.5 Plain XML Web Services

FedEx offers a plain XML web services solution that you can use to send transactions without having to use tools that provide SOAP protocol support for web services. This may be convenient for developers using environments that do not provide support for SOAP. With this interface, XML documents are sent directly to the FedEx servers via the HTTP POST command. FedEx provides a set of specifications and examples to help with the development of this type of communications method.

To use the plain XML web service solution, you must have a working knowledge of HTTPS and Secure Socket Layering (SSL) encryption, the ability to provide a secure SSL connection to FedEx and the ability to code to an operation interface using XML.

The interfaces used in the SOAP and plain XML web services are defined in WSDL files. The WSDL files contain schemas that define the layout of the operations. The same WSDL file is used for both theSOAP and plain XML web service users.

Plain XML users are concerned only with the schema definitions and not the other WSDL components that are SOAP-specific. The XML data that is sent via the non-SOAP interface looks almost identical to the data that is sent via the SOAP interface. The only difference is that the data sent via the plain XML interface does not contain the wrapping Envelope and Body tags that are specific to SOAP.

2.6 Error Handling of SOAP Requests

The SOAP specification provides an error handling mechanism that is not present for non-SOAP operations. For a SOAP operation, a fault is returned as a SOAP exception. For a non-SOAP request, the contents of the SOAP fault are returned as an XML document. These SOAP fault documents are returned in situations such as schema validation failures or when operation types are unrecognized.

In the following example, a SOAP fault document is returned from a schema validation failure in which the AccountNumber element was incorrectly sent as the AccountNumberx element:

Example 2: Error Handling

```
<soapenv:Fault xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
       <faultcode>soapenv:Server</faultcode>
       <faultstring>5: Schema validation failed for request.</faultstring>
       <detail>
              <con:fault xmlns:con="http://www.bea.com/wli/sb/context">
                     <con:errorCode>5</con:errorCode>
                     <con:reason>Schema validation failed for request.</con:reason>
                     <con:details>
                            <con1:ValidationFailureDetail
xmlns:con1="http://www.bea.com/wli/sb/stages/transform/config">
                                   <con1:message>Expected element
'AccountNumber@http://fedex.com/ws/ship/v8' instead of
```

```
'AccountNumberx@http://fedex.com/ws/ship/v8' here in element
clientDetail@http://fedex.com/ws/ship/v8</con1:message>
                                    <con1:xmlLocation>
                                          <ship:AccountNumberx
xmlns:ship="http://fedex.com/ws/ship/v8">000000000</ship:AccountNumberx>
                                    </con1:xmlLocation>
                                    <con1:message>Expected element
'AccountNumber@http://fedex.com/ws/ship/v1' before the end of the content in element
ClientDetail@http://fedex.com/ws/ship/v8</con1:message>
                                    <con1:xmlLocation>
                                          <ship:ClientDetail
xmlns:ship="http://fedex.com/ws/ship/8">

       <ship:AccountNumberx>00000000000000000</ship:AccountNumberx>
                                                <ship:MeterNumber>0000000</ship:MeterNumber>
                                          </ship:ClientDetail>
                                    </con1:xmlLocation>
                              </con1:ValidationFailureDetail>
                        </con:details>
                        <con:location>
                              <con:node>Validate</con:node>
                              <con:pipeline>Validate_request</con:pipeline>
                              <con:stage>ValidateRequest</con:stage>
                              <con:path>request-pipeline</con:path>
                        </con:location>
                  </con:fault>
       </detail>
</soapenv:Fault>
```

Each reply must be checked for the Fault element to indicate failure in processing the message.

Note: Normal error processing still applies; this is an additional error check for incorrect syntax in XML documents

Keep in mind that if you use either the SOAP or non-SOAP version of FedEx Web Services, labels are returned as Base64 encoded. To print shipping labels, you must decode labels before sending them to your printer. For more information on Base64 decoding, see *Create a Label* chapter of the Web Services Developer Guide.

Example 3: HTTP POST

The following HTTP POST example is a valid working example. It is not guaranteed to work for all programming languages, applications, and host systems:

```
POST /xml HTTP/1.0
Referrer: YourCompanyNameGoesHere Host: ws.fedex.com
Port: 443
```

```
Accept: image/gif, image/jpeg, image/pjpeg, text/plain, text/html, */* Content-Type: text/xml
Content-length: %d Your FedEx Transaction
```

Each line is followed by one new line character except Content-length and the FedEx transaction. Two new line characters follow the Content-length line. The FedEx transaction has no extra characters. The Content-length line should have the length of the FedEx transaction in place of the %d variable.

Note: Port 443 must be opened for bi-directional communication on your firewall.

After formatting your non-SOAP transaction and placing it in a HTTP POST request, you will need to open an SSL connection to the FedEx test server and send the request through FedEx by using your SSL connection. Next, parse the HTTPS response to determine if there were any errors. Examine the HTTP header to determine if any HTTP or Web Server errors were encountered. If you received a 200 status code, parse the reply to determine if there were any processing problems.

2.7 Visual Basic Project Error

You may receive an error indicating that an element is not set, even after setting it in the code. When you set a Boolean type element to true, you may also need to set the specified element to true.

Refer to FedEx Web Services Coding Best Practices Guidelines for more information.

For error messages, see Appendix O: Error Code Messages section of the FedEx Web Services, Developer Guide.

3 Understanding the XML Schema

The XML schema defines the messages that you can use to access the FedEx services. You can create a request that contains business data and other instructions before sending it to FedEx. FedEx replies with a response that contains the data resulting from the instructions you sent in. The XML schema provides a means for defining the structure and content of XML documents.

Note: The schema diagrams are conveniently linked to help you find information and child values.

The XML schema provides a means for defining the structure, content, and semantics of XML documents.

An XML schema defines:

- Elements and attributes that can appear in a document
- Child/nested elements
- Order and number of child elements
- Enumerated or text elements
- Data types, default values, and fixed values for elements and attributes

Some important facts about the XML schema:

- Elements that contain sub-elements or carry attributes have complex types.
- Elements that are defined as not containing any sub-elements have simple types. Some elements have attributes. Attributes always have simple types.
- Complex types in the instance document, and some of the simple types, are defined in the schema associated with a FedEx Web Service. Other simple types are defined as part of XML schema's repertoire of built-in simple types.
- XML schema built-in simple types are in the namespace "http://www.w3.org/2001/XMLSchema".

3.1 Guide to the XML Schema

The XML schema for each WSDL provides details about the structure, content, and semantics of the request XML document sent to a FedEx Web Service and the XML document returned bythat FedEx Web Service.

The top of each service schema includes:

- Schema location and schema filename with an ".xsd" extension.
- Alphabetical listing of complex types for the documented service.
- Alphabetical listing of schema simple types for the documented service.
- Input or request data type for the documented service.

- Output or reply data type for the documented service.

The remainder of the service schema contains tables of information about each element, complex type, and simple type. Each table consists of some or all of the following sections: diagram, namespace, children, type, properties, used by, facets, and source.

4 Implementing FedEx Web Services

Before you begin implementing FedEx Web Services, note the following guidelines:

FedEx Web Services are designed to support any operating system and coding language. Downloadable sample code is available in Java, C#, VB, .Net and PHP languages from the FedEx Developer Resource Center Technical Resources.

Transactions submitted to FedEx using FedEx Web Services are required to have a minimum of 128-bit encryption to complete the request.

4.1 Implementation Process

Planning your integration and organizing your application data to address your shipping needs can sometimes take more time than the actual implementation of the integration. FedEx Web Services conform to industry standards and are compatible with a comprehensive array of developers' tools. This ensures the fastest time-to-market with maximum flexibility to integrate FedEx transactions and information into your applications. FedEx WSDLs are fully interoperable with any product or developer's tool that also conforms to the WS-I Basic Profile. For details, see ws-i.org/Profiles/BasicProfile-1.1- 2004-08-24.

To begin integrating your application with FedEx Web Services, you need to access documentation, sample code, sample service requests/replies and WSDLs from the FedEx Developer Resource Center. Also, obtain a test meter number to engage in real-time online testing in the FedEx hosted test environment. You will need a Test Key, Test Password, Test Account, and Test Meter Number, all of which can be obtained at the Developer Resource Center.

Note: Not all services are available outside the U.S.

4.2 Testing

FedEx supplies a complete online operating environment with which to test your applications against live FedEx servers. To execute test interactions, you must first obtain a test account number, test meter number, authentication key, and password. These credentials are provided to registered developers at the FedEx Developer Resource Center.

Production credentials can be obtained prior to the certification process. Advanced services are not automatically enabled, but standard services are enabled. For more information on support from FedEx, refer to Preproduction Assistance.

4.2.1 Preproduction Assistance

Preproduction assistance is available via the FedEx Web Integrated Solutions Consultation (WISC) team. If you are in the preproduction stages of implementing a FedEx web integrated solution and would like to speak with a FedEx integration consultant who can assist you in understanding FedEx Web Services, contact your FedEx sales executive or technical support at **1.877.339.2774** Monday

thru Friday, 7 a.m. to 9 p.m. and Saturday 9 a.m. to 3 p.m. (CST). Both your FedEx sales executive and technical support can request a WISC team member to contact you within 3 business days.

Corporate developers may find that solutions to their needs have already been implemented by a software vendor that is FedEx® Compatible. If improved time-to-market, cost containment, or specialized knowledge is needed, corporate development planners may want to review the available third-party solutions. To see a list of the solutions provided by the FedEx Compatible providers, go to the available FedEx Compatible Solutions page at fedex.com/compatible.

4.3 Certification

Certification is the process of ensuring that your implementation meets a number of requirements for safe, secure, and effective operation of your solution in the FedEx production environment. Certification requirements differ based on whether you are a corporate or commercial developer, and whether you are implementing using the advanced or standard services. The FedEx Web Integrated Solutions Consultation (WISC) team member assigned to support you will assist you with the certification process.

Note: Certification is not required for any Standard Services.

4.4 Go To Production

Once an application has passed certification, the developer must replace the test credentials with the production credentials issued by FedEx. The application connection is then directed to the production servers, and the application is live.

4.4.1 Requirements for Corporate and Non-Commercial Developers

here are some differences in how support is provided and, in the approvals, required to go into production that depend on whether you are creating an application for use by your own company or if you are planning to resell your solution to others.

4.4.2 Requirements and Resources for Corporate Developers

Corporate developers are typically part of a dedicated development team at a single company. This category also includes third-party developers (consultants) hired by the company to work on its behalf. In all cases, the integration will be used by the company itself and will not be resold or distributed outside of its own footprint. In this situation, FedEx can support the customer directly.

Table 2: Requirements and Resources for Corporate Developers

Requirements and Resources for Corporate Developers	
Must be accepted into the FedEx® Compatible	No

Certification needed for implementations using standard services.	No
Certification needed for implementations using advanced services.	Yes
Certification assistance	Yes (via WISC team)
FedEx supports the customer directly	Yes

4.4.2.1 Requirements for Consultants

Consultants developing on behalf of a corporate customer must ensure that their client provides their account information and a signed End User License Agreement (EULA) to FedEx to obtain a production test meter.

4.4.2.2 Requirements and Resources for Commercial Developers

Commercial developers create solutions with the intent of distributing and/or reselling them to their customers. Because they are deployed in a variety of situations, commercial integrations generally require a higher attention to detail. Commercial developers are responsible for supporting their products for their customers. FedEx has a dedicated team of professionals to help developers commercialize their products and to coordinate the three-way interplay between the developer, the end customer, and FedEx.

If you are a commercial developer interested in becoming a FedEx Compatible provider, go to fedex.com/compatible for more information about the FedEx Compatible Program.

4.5 URL Errors with Visual Studio

If a VB.NET or C# project still sends transactions to the test server after changing the URL in the WSDLs to production, perform the following:

- Make sure permissions are already activated in the production environment.
- Copy the WSDL files to a different folder.
- Follow the directions on changing the new WSDL files to point to production, as described in the FedEx Developer Resource Center in the “Move to Production” topic.
- Remove existing web services references from your project that point to old WSDLs containing the URLs to the test environment.
- Create new web references that point to the modified WSDLs. Use the same names as the old references.
- Compile and test the project. Your new production credentials should work for standard web services, such as rating or tracking without extra permissions. Advanced web services require permissions to be active before they will work. Test keys will no longer work with production server addresses.

5 Address Validation Service

Use the Address Validation Service (AVS) to validate or complete recipient addresses. This service properly formats an input (where the input address information closely resembles a valid address), and returns (if found) a real-world address that is fairly likely to be the one intended, with some annotations about deficiencies in or changes that were made to the input to arrive at that real-world address.

Note: Do not use this service to determine the deliver-ability of an address. FedEx does not offer delivery service to every valid address. However, FedEx does not deliver to PO Boxes (except via SmartPost).

5.1 The Address Validation Operation

The Address Validation operation defined in the Address Validation WSDL *AddressValidationRequest* allows you to validate recipient address information before you ship a package. Correct addresses on the shipping label will help eliminate delivery delays and additional service fees (due to malformed addresses).

Note:

- The Address Validation Service is an advanced service and must be enabled by FedEx Customer Support for production use. Contact your FedEx account executive for more information.
- Address resolution results vary by country.

Table 3. Countries/Territories that support Address Validation

Countries/Territories that supports Address Validation				
Antilles	Canada	Finland	Mexico	Spain
Argentina	Cayman Islands	France	Netherlands	Sweden
Aruba	Chile	Germany	New Zealand	Switzerland
Australia	Columbia	Greece	Norway	Trinadad and Tobago
Austria	Costa Rica	Guatemala	Panama	United Kingdom
Bahamas	Czech Republic	Hong Kong SAR, China	Peru	United States
Barbados	Denmark	Italy	Portugal	Uruguay
Belgium	Dominican Republic	Jamaica	Singapore	Venezuela
Bermuda	Estonia	Malaysia	South Africa	Virgin Islands
Brazil				

Use the Address Validation request to perform the following:

- Complete incomplete recipient addresses. In some cases, AVS may be able to add missing information, depending on the verification of the provided information against reference data. AVS cannot add missing secondary information (i.e. apartment or suite) at this time.
- Correct invalid recipient addresses. For example, correction of an incorrect postal code to agree with the remainder of the input.
- Determine whether an address is business or residential to increase the accuracy of courtesy rate quotes. Applies to U.S. and Canada addresses only.
- Confirm the validity and completeness of addresses in many countries in these regions - U.S., Canada, Latin America, Europe and Middle East and Asia Pacific. You are now able to validate domestic and international address information in the following countries before shipping a package, eliminating unnecessary delivery delays and additional service fees.

Note: The information returned by AddressValidationRequest is for suggested use only.

Legal Disclaimer:

The data provided herein is FedEx proprietary and confidential information, provided as a courtesy at your request. No part of this data may be distributed or disclosed in any form to any third party without the written permission of FedEx. It reflects the current FedEx address-level business/residential classification in the FedEx delivery address database, and is subject to change. In furnishing this information, FedEx does not guarantee its present or future accuracy, and does not guarantee that packages shipped to these addresses will be invoiced according to the business/residential classification provided herein. Providing this information shall not be deemed to alter the terms of the relationship between the parties. See the FedEx Service Guide and any applicable account pricing agreement for terms and conditions governing FedEx shipping and charges.

5.2 Address Validation Service Details

The followings service details apply to Address Validation:

- Provides street level matches.
- Receives monthly updates to its address database.
- Checks addresses in several countries in these regions - U.S., Canada, Latin America, Europe and Middle East and Asia Pacific.
- Can distinguish between business and residential addresses (for U.S. and Canada only).
- Does not match addresses based upon individual/personal names or company.
- FedEx does not normally deliver to P.O. box addresses for U.S. or U.S. inbound shipments. However, FedEx may deliver to post office boxes in some rural locations if the P.O. box is associated with an address. You may also use P.O. box addresses for certain international locations, including shipments to Puerto Rico, but you must include a valid phone, fax or telex number on the label.
- Up to 100 addresses can be checked in one Web Service request.

For more detailed information about the services offered by FedEx, see the electronic FedEx Service Guide.

5.3 How FedEx Address Validation Works

The Address Validation Service performs the following tasks:

- As the first step, the service attempts to normalize the input 'address'. This can include replacing common roadway identifiers such as Street and Parkway with their standard abbreviations such as ST and PKWY, as well as reordering components of the address. If an input 'address' cannot be normalized, the EffectiveAddress returned will be the input 'address', with a State of RAW. Non address values are discarded. If needed by the user, they should be stored prior to submission. Refer to the attributes returned to help determine the problems with the address submitted.
- In the second step, the service attempts to standardize the normalized address, by finding a possible or actual address that is likely the one intended by the submitted 'address'. If that standardization does not succeed, the EffectiveAddress returned will be the normalized form of the input 'address', with a State of NORMALIZED. Refer to the attributes returned to help determine the problems with the address submitted.
- Certain Attributes of that normalized 'address' will also be returned. If standardization does succeed, the EffectiveAddress returned will be that real-world address, with a State of STANDARDIZED. In this case, various additional Attributes of the standardized address and how it was derived from the normalized address will be returned.

5.4 Tips for Using the Address Validation Tool

- Use correct spacing: Make sure spaces are placed correctly and avoid unnecessary spaces.
- Use correct spelling: Eliminate spelling and typographic errors. Make sure you have the correct usage of the number zero (0) and letter O.
- Avoid special characters: Refrain from using special characters not required for the address, such as periods after abbreviations (Ave vs. Ave.)
- Provide additional address and street information: Providing additional address information can increase the accuracy of address results.

  For example:

  - Building or house number such as 1, 1A, One
  - Street name such as Main, George Washington, 42nd
  - Street Suffix such as Road, Avenue, Rd, Ave
- Enter city, state/province and postal code: Providing all address information will increase the accuracy of your results. The ZIP+4 portion of the postal code is not necessary to check an address.
- Use correct abbreviations: The United States Postal Service and postal authorities in other countries define standard abbreviations for state/province, street suffix, and apartment/unit designations. A nonstandard abbreviation may cause poor search results. If you are unsure about an abbreviation, do not use it.
- If Address Validation is used during the checkout process in a ecommerce setting then you should consider not allowing a failed AV request to stop that process.

- Consider returning the AV response feedback to the user in order to give them the option to choose the most correct address for them.

5.5 Address Results

If the address returned includes the address state of "Standardized" and also if the attributes of Resolved = True, DPV = True are present, then the address is likely a valid one. If these values are not seen then use the additional attributes to determine to possible problems with the address values.

If InterpolatedStreetAddress = True then there is a chance that the address is not valid.

Urbanization (Puerto Rico only): This descriptor, commonly used in urban areas of Puerto Rico, is an important part of the address format as it describes the location of a given street. In Puerto Rico, repeated street names and address number ranges can be found within the same postal code. These streets can have the same house number ranges. In these cases, the urbanization name is needed to correctly identify the location of a particular address.

For example: Sr Pedro Rivera Urb Hermosillo 123 Calle 1 Bayamon, PR 00961-1212

5.6 Address Classification

Address Validation uses reference data to determine the classification of a given address. The classification is calculated as part of the address validation process. The classification for a functional address is calculated independently of the address validation process and is based on feedback by operational personnel, with commercial data sources used for confirmation only.

Address Validation has only four possible classifications for addresses: unknown, business, residential and mixed. All addresses begin with an “unknown” classification and stay that way until Address Validation business rules determine that their classifications should change. A location only gets a “mixed” classification if it is a multi-tenant based address and contains both business and residential units.

5.6.1 Residential Address Classification

Residential address relates to a home or private residence, including locations where a business is operated from the home.

5.7 Address Matching Results

Table 4. Address Matching Results

Address Matching Results	Description
Resolved	The input address was matched with an acceptable level of confidence to a record in a reference data set. Note that the level to which an address has been resolved is described separately by other flags and indicators. See notes.
Not Resolved	The input address was not matched to a reference data set, but it was parsed and normalized (standard abbreviations applied).
Country Not Supported	Address Validation Service does not currently include reference data to support the country of the input address. The raw address is stored and the Address Validation Service ID is assigned, but no additional processing is applied.
Country Unknown	The country of the address could not be determined. The raw address is stored and the Address Validation Service ID is assigned, but no additional processing is applied.
Not Processed	The address could not be processed because of internal errors. The raw address is stored and the Address Validation Service ID is assigned, but no additional processing is applied.
Blank	The input address in the request contained no data (blank). No data will be stored in Address Validation Service and no Address Validation Service ID will be assigned.

5.7.1 Address Type

- RAW: The address as submitted in the request. This is returned when that address could not be normalized or if the country is not supported.
- NORMALIZED: A formatted version of the address where elements are parsed and standard abbreviations are applied. The Normalized address is returned when the Address Validation Service supports a country for address validation but cannot match the address against reference data. Reference data include postal data (and map data, for the US only).
- STANDARDIZED: A formatted and validated version of the address. The standardized address is returned when the Address Validation Service can match the address against reference data. Note that the Address Validation Service may make slight changes to the address in order to find a match.

5.8 Address Validation Coding Details

The following information is the minimum required to check an address:

- Street Lines (at least one line is required)
- City
- State/Province (if applicable)
- Postal (if country is postal aware)
- Country

Note: The minimum required fields vary among countries. For example, for US addresses, at least one address line and either a postal code or a city and a state code are required, but for AU addresses, the state code may be omitted even without a postal code.

5.8.1 AddressValidationRequest Elements

Given a raw address the Address Validation system responds with all of the information it can determine about that address including the Business Residential classification that was in effect at the time, including information on how the classification was calculated.

Table 5. AddressValidationRequest Elements

Element	Description
InEffectAsOfTimestamp	Optional. Unused. This can be used to request the characteristics an address had at a particular time in history. This defaults to current date time (of the Address Validation System). This is useful because the Address Validation database is dynamic and stores historical data. Characteristics such as Business/Residential indicator may change over time.

Element	Description
	Ex: 2013-01-11 T 07:52:56
AddressesToValidate	Specifies an address to validate. Up to 100 of these can be submitted in a single request.
AddressToValidate /ClientReferenceId	A reference ID provided by the client.
AddressToValidate/Contact	The descriptive data for a point-of-contact person.
AddressToValidate/Contact /ContactId	Optional. Ignored. Client provided identifier corresponding to this contact information.
AddressToValidate/Contact /PersonName	Optional. Unused. The contact's name.
AddressToValidate/Contact /Title	Optional. Unused. Specifies the contact person's title. The title of the person may change from time to time but the AV service will not validate the change of titles.
AddressToValidate/Contact /CompanyName	Optional. Unused. The company this contact is associated with.
AddressToValidate/Contact /PhoneNumber	Optional. Unused. The phone number associated with this contact.
AddressToValidate/Contact /PhoneExtension	Optional. Unused. The phone extension associated with this contact.
AddressToValidate/Contact /TollFreePhoneNumber	Optional. Unused. The contact's toll free phone number.
AddressToValidate/Contact /PagerNumber	Optional. Unused. The pager number associated with this contact.
AddressToValidate/Contact /FaxNumber	Optional. Unused. The fax number associated with this contact.
AddressToValidate/Contact /EMailAddress	Optional. Unused. The email address associated with this contact.

Element	Description
AddressToValidate/Address	Descriptive data for a physical location. May be used as an actual physical address (place to which one could go), or as a container of "address parts" which should be handled as a unit (such as a city-state-ZIP combination within the US).
AddressToValidate/Address /StreetLines	Combination of number, street name, etc. At least two lines are required for a valid physical address; empty lines should not be included. *Note: For Express shipment, use can use third street line to provide more accurate address details*
AddressToValidate/Address /City	Required. The name of city, town, etc.
AddressToValidate/Address /StateOrProvinceCode	Required. Identifying abbreviation for US state, Canada province, etc. Format and presence of this field will vary, depending on country.
AddressToValidate/Address /PostalCode	Required. Identification of a region (usually small) for mail/package delivery. Format and presence of this field will vary, depending on country.
AddressToValidate/Address /UrbanizationCode	Optional. Unused. Relevant only to addresses in Puerto Rico.
AddressToValidate/Address /CountryCode	The two-letter code used to identify a country.
AddressToValidate/Address /CountryName	Optional. Unused. Specify the complete name of a country instead of abbreviations.
AddressToValidate/Address /Residential	Optional. Unused. Indicates whether this address residential (as opposed to commercial).

Example 1:AddressValidationRequest

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:v4="http://fedex.com/ws/addressvalidation/v4">
   <soapenv:Header/>
   <soapenv:Body>
      <v4:AddressValidationRequest>
         <v4:WebAuthenticationDetail>
            <v4:ParentCredential>
               <v4:Key>A4YlC6CtrGp0oAv7</v4:Key>
```

```
               <v4:Password>GMd9tbHm3tDLUKuYkQQUJAI1a</v4:Password>
            </v4:ParentCredential>
            <v4:UserCredential>
               <v4:Key>MzFgqt08rlRz8WAB</v4:Key>
               <v4:Password>i9yy72V1TfLQfr8gO6wB3Wgsw</v4:Password>
            </v4:UserCredential>
         </v4:WebAuthenticationDetail>
         <v4:ClientDetail>
            <v4:AccountNumber>150067600</v4:AccountNumber>
            <v4:MeterNumber>7003043</v4:MeterNumber>
            <v4:Localization>
               <v4:LanguageCode>EN</v4:LanguageCode>
               <v4:LocaleCode>EN</v4:LocaleCode>
            </v4:Localization>
         </v4:ClientDetail>
         <v4:TransactionDetail>

<v4:CustomerTransactionId>AddressValidationRequest_v54534</v4:CustomerTransactionId>
            <v4:Localization>
               <v4:LanguageCode>EN</v4:LanguageCode>
               <v4:LocaleCode>EN</v4:LocaleCode>
            </v4:Localization>
         </v4:TransactionDetail>
         <v4:Version>
            <v4:ServiceId>aval</v4:ServiceId>
            <v4:Major>4</v4:Major>
            <v4:Intermediate>0</v4:Intermediate>
            <v4:Minor>0</v4:Minor>
         </v4:Version>
         <v4:InEffectAsOfTimestamp>2020-02-25T12:34:56-06:00</v4:InEffectAsOfTimestamp>
         <v4:AddressesToValidate>
            <v4:ClientReferenceId>Shelby Drive</v4:ClientReferenceId>
            <v4:Contact>
               <v4:ContactId>12345</v4:ContactId>
               <v4:PersonName>Shreyo</v4:PersonName>
               <v4:CompanyName>10 Fedex Pkwy</v4:CompanyName>
               <v4:PhoneNumber>9158855481</v4:PhoneNumber>
               <v4:EMailAddress>sb@gmail.com</v4:EMailAddress>
            </v4:Contact>
            <v4:Address>
               <v4:StreetLines>10 Fedex Pkwy</v4:StreetLines>
               <v4:City>COLORADO SPRINGS</v4:City>
               <v4:StateOrProvinceCode>TN</v4:StateOrProvinceCode>
               <v4:PostalCode>38017</v4:PostalCode>
               <v4:UrbanizationCode>CO</v4:UrbanizationCode>
               <v4:CountryCode>US</v4:CountryCode>
               <v4:Residential>0</v4:Residential>
            </v4:Address>
         </v4:AddressesToValidate>
      </v4:AddressValidationRequest>
```

```
    </soapenv:Body>
</soapenv:Envelope>
```

5.8.2 AddressValidationReply Elements

Any error conditions or address-checking issues are returned in the Address Validation reply. The following table describes Address Validation Reply elements:

Table 6. AddressValidationReply Elements

Element	Description
highestSeverity	Includes the descriptive data detailing the status of a submitted transaction and the severity of the notification, which indicates success or failure or some other information about the request. Valid values are: • SUCCESS — Your transaction succeeded with no other applicable information. • NOTE — Additional information that may be of interest to you about your transaction. • WARNING — Additional information that you need to know about your transaction that you may need to take action on. • ERROR — Information about an error that occurred while processing your transaction. • FAILURE — FedEx was unable to process your transaction.
Notifications/Severity	The severity of this notification. This can indicate success or failure or some other information about the request. The values that can be returned are: • SUCCESS - Your transaction succeeded with no other applicable information. • NOTE - Additional information that may be of interest to you about your transaction. • WARNING - Additional information that you need to know about your transaction that you may need to take action on. • ERROR - Information about an error that occurred while processing your transaction.

Element	Description
	• FAILURE - FedEx was unable to process your transaction at this time due to a system failure. Please try again later.
Notifications/Source	Indicates the source of this notification. Combined with the Code it uniquely identifies this notification
Notifications/Code	A code that represents this notification. Combined with the Source it uniquely identifies this notification.
Notifications/Message	Human-readable text that explains this notification.
Notifications/localizedMessage	The translated message. The language and locale specified in the ClientDetail. Localization are used to determine the representation. Currently only supported in a TrackReply.
Notifications/MessageParameters	A collection of name/value pairs that provide specific data to help the client determine the nature of an error (or warning, etc.) without having to parse the message string.
ReplyTimestamp	Date and time of Reply
AddressResults	Results of Address Validation request
AddressResults/clientReferenceId	The client reference ID for the validated address.
AddressResults/State	The degree to which the service was able to process the address. Valid values: • NORMALIZED (It is returned when the Address Validation Service supports a country for address validation, but cannot match the address against reference data. Reference data include postal data and map data, for the US only). • RAW (Information is provided by the user and it is returned when the Address Validation Service does not support the country for address validation.) • STANDARDIZED (The standardized address is returned when the Address Validation Service can match the address against reference data.)

Element	Description
AddressResults/Classification	Specifies the classification type of a FedEx address. Valid values: • BUSINESS • RESIDENTIAL • MIXED (If it is a multi-tenant based address and contains both business and residential units.) • UNKNOWN (If just a zip code is provided, Address Validation Service returns 'unknown' for the business/residential classification) *Note that the Address Validation Service may make slight changes to the address in order to find a match.*
AddressResults/EffectiveAddress	Descriptive data for a physical location. May be used as an actual physical address (place to which one could go), or as a container of "address parts" which should be handled as a unit (such as a city-state-ZIP combination within the US).
AddressResults/EffectiveAddress/ StreetLines	Combination of number, street name, etc. At least two lines are required for a valid physical address; empty lines should not be included. *Note: For Express shipment, use can use third street line to provide more accurate address details*
AddressResults/EffectiveAddress/City	The name of city, town, etc.
AddressResultsEffectiveAddress/ StateOrProvinceCode	Identifying abbreviation for US state, Canada province, etc. Format and presence of this field will vary, depending on country.
AddressResults/EffectiveAddress/ PostalCode	Identification of a region (usually small) for mail/package delivery. Format and presence of this field will vary, depending on country.
AddressResults/EffectiveAddress/ UrbanizationCode	Relevant only to addresses in Puerto Rico.
AddressResults EffectiveAddress/CountryCode	The two-letter code used to identify a country.
AddressResults/EffectiveAddress/ CountryName	The fully spelt out name of a country.
AddressResults/EffectiveAddress/ Residential	Indicates whether this address residential (as opposed to commercial).

Element	Description
	Note: This element is usually unused and not populated because the residential-ness of an address is represented instead by the Classification.
AddressResults/ParsedAddressPartsDetail /ParsedStreetLine	The content of all street lines parsed into individual street line components
AddressResults/ParsedStreetLineDetail /houseNumber	House Number resulting from standardization/normalization process, when relevant
AddressResults/ParsedStreetLineDetail /preStreetType	Pre Street Type resulting from standardization/normalization process, when relevant
AddressResults/ParsedStreetLineDetail /leadingDirectional	Leading Directional resulting from standardization/normalization process, when relevant
AddressResults/ParsedStreetLineDetail /streetName	Street Name resulting from standardization/normalization process, when relevant
AddressResults/ParsedStreetLineDetail /streetSuffix	Street Suffix resulting from standardization/normalization process, when relevant
AddressResults/ParsedStreetLineDetail /trailingDirectional	Trailing Directional resulting from standardization/normalization process, when relevant
AddressResults/ParsedStreetLineDetail /unitLabel	Unit Label resulting from standardization/normalization process, when relevant
AddressResults/ParsedStreetLineDetail /unitNumber	Unit Number resulting from standardization/normalization process, when relevant
AddressResults /ParsedStreetLineDetail/RuralRoute	Rural Route (RR) / Highway Contract (HC)
AddressResults /ParsedStreetLineDetail/PoBox	PO Box resulting from standardization/normalization process, when relevant
AddressResults /ParsedStreetLineDetail/Building	Building name
AddressResults /ParsedStreetLineDetai//Organization	
ParsedStreetLineDetail/deliveryStation	DeliveryStation resulting from standardization/normalization process, when relevant

Element	Description
AddressResults/ParsedAddressPartsDetail /ParsedPostalCode	The postal code specified in a form that is supported by USPS as base, secondary and tertiary. • Base • AddOn • DeliveryPoint
AddressResult/Attributes	Specify additional information about the address processed by the system as a key-value pair.
AddressResults/Attribute/Name	Specify the key for the address attribute.
AddressResults/Attribute/Value	The value for the key for address attribute

Example 1: Address Validation Service Reply

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
   <SOAP-ENV:Header/>
   <SOAP-ENV:Body>
      <AddressValidationReply xmlns="http://fedex.com/ws/addressvalidation/v4">
         <HighestSeverity>SUCCESS</HighestSeverity>
         <Notifications>
            <Severity>SUCCESS</Severity>
            <Source>wsi</Source>
            <Code>0</Code>
            <Message>Success</Message>
         </Notifications>
         <TransactionDetail>
            <CustomerTransactionId>AddressValidationRequest_v54534</CustomerTransactionId>
            <Localization>
               <LanguageCode>EN</LanguageCode>
               <LocaleCode>EN</LocaleCode>
            </Localization>
         </TransactionDetail>
         <Version>
            <ServiceId>aval</ServiceId>
            <Major>4</Major>
            <Intermediate>0</Intermediate>
            <Minor>0</Minor>
         </Version>
         <ReplyTimestamp>2020-02-25T05:20:25-06:00</ReplyTimestamp>
         <AddressResults>
            <ClientReferenceId>Shelby Drive</ClientReferenceId>
            <State>STANDARDIZED</State>
            <Classification>BUSINESS</Classification>
            <EffectiveAddress>
```

```
      <StreetLines>10 FED EX PKWY</StreetLines>
      <City>COLLIERVILLE</City>
      <StateOrProvinceCode>TN</StateOrProvinceCode>
      <PostalCode>38017-8711</PostalCode>
      <UrbanizationCode/>
      <CountryCode>US</CountryCode>
   </EffectiveAddress>
   <ParsedAddressPartsDetail>
      <ParsedStreetLine>
         <HouseNumber>10</HouseNumber>
         <StreetName>FED EX</StreetName>
         <StreetSuffix>PKWY</StreetSuffix>
      </ParsedStreetLine>
      <ParsedPostalCode>
         <Base>XXXX</Base>
         <AddOn>XXXX</AddOn>
         <DeliveryPoint>10</DeliveryPoint>
      </ParsedPostalCode>
   </ParsedAddressPartsDetail>
   <Attributes>
      <Name>CountrySupported</Name>
      <Value>true</Value>
   </Attributes>
   <Attributes>
      <Name>ZIP11Match</Name>
      <Value>true</Value>
   </Attributes>
   <Attributes>
      <Name>SuiteRequiredButMissing</Name>
      <Value>false</Value>
   </Attributes>
   <Attributes>
      <Name>InvalidSuiteNumber</Name>
      <Value>false</Value>
   </Attributes>
   <Attributes>
      <Name>MultipleMatches</Name>
      <Value>false</Value>
   </Attributes>
   <Attributes>
      <Name>Resolved</Name>
      <Value>true</Value>
   </Attributes>
   <Attributes>
      <Name>ZIP4Match</Name>
      <Value>true</Value>
   </Attributes>
   <Attributes>
      <Name>DPV</Name>
      <Value>true</Value>
```

```
            </Attributes>
            <Attributes>
               <Name>ValidMultiUnit</Name>
               <Value>false</Value>
            </Attributes>
            <Attributes>
               <Name>POBox</Name>
               <Value>false</Value>
            </Attributes>
            <Attributes>
               <Name>MultiUnitBase</Name>
               <Value>false</Value>
            </Attributes>
            <Attributes>
               <Name>StreetAddress</Name>
               <Value>false</Value>
            </Attributes>
            <Attributes>
               <Name>POBoxOnlyZIP</Name>
               <Value>false</Value>
            </Attributes>
            <Attributes>
               <Name>UniqueZIP</Name>
               <Value>false</Value>
            </Attributes>
            <Attributes>
               <Name>SplitZIP</Name>
               <Value>false</Value>
            </Attributes>
            <Attributes>
               <Name>RRConversion</Name>
               <Value>false</Value>
            </Attributes>
         </AddressResults>
      </AddressValidationReply>
   </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

5.8.3 Address Attributes

Note: Not all attributes are returned for all addresses".

Table 7: List of Address Attributes

Attribute Names	Description
BuildingValidated	Indicates if the Building was validated against reference data.

Attribute Names	Description
DPV	Indicates the presence of a Delivery Point such as a mailbox. • DPV=Delivery Point Valid. • Indicator translated from values provided by the USPS that identify the validity of a postal delivery address. • Provided for US addresses only that can be standardized against Postal Data. • Not provided for US Geo Validated addresses
EncompassingZIP	• TRUE indicates that the current address' zip code encompasses other zip codes • FALSE indicates that the current address' zip code does not encompass other zip codes. (US only)
InterpolatedStreetAddress	• TRUE indicates that the house number of the address is valid within a known range of street numbers, but that the existence of the specific street number could not be confirmed. This usually occurs when postal data can't confirm the address and mapping data is used instead. The house number of the address is included within the matched range, but the reference data does not include the point level address data required to validate that the input street number actually exists within the matched range.
Intersection	• TRUE indicates that the address is an intersection. FALSE indicates that the address is not an intersection.
InvalidSuiteNumber	• TRUE: Suite information was provided and was either incorrect, or was provided for an address that was not recognized as requiring secondary information • FALSE: Suite information was not provided and was not needed, or provided suite information was valid
MissingOrAmbiguousDirectional	Flag only returned when address is not resolved. • TRUE: Address is missing a required leading or trailing directional • FALSE: Address is NOT missing a required leading or trailing directional.
MultiUnitBase	• TRUE indicates that an input address was resolved to a standardized address for the base address of a multi-unit building.

Attribute Names	Description
	• FALSE indicates that the address was not resolved to a standardized address for the base address of a multi-unit building.
MultipleMatches	For US Addresses • TRUE: More than one potential match to reference data is available, usually due to a simple difference, such as a leading directional. The address remains not_resolved because there is not a systematic way to determine which candidate is appropriate. • FALSE: No matches (not resolved), or a single match to reference data exists (resolved). For International Addresses • TRUE: More than one potential match to reference data is available (not specific to directional. It could be that another required address element is missing) • FALSE: No matches (not resolved), or a single match to reference data exists (resolved).
OrganizationValidated	• Indicates if the Organization was validated against reference data. • Value returned - NULL
POBox	• TRUE indicates that the input address was recognized as a PO Box address. • FALSE indicates that the input address was not recognized as a PO Box address.
POBoxOnlyZIP	• TRUE indicates that USPS considers this ZIP as a PO Box-only postal code. This means that USPS does not deliver to individual street addresses in the postal code. Valid street addresses may exist in the postal code, but they cannot be validated by the USPS reference data. • FALSE indicates that the USPS does not consider this ZIP as a PO Box only postal code. (US only)
PostalValidated	Indicates if the PostalCode was validated against reference data. For US addresses, this is only returned when address cannot be standardized. Always returned for international addresses
RRConversion	Indicates if a Rural Route conversion was applied to the address during standardization. This flag applies to

Attribute Names	Description
	Canadian and International addresses only. There is a similar flag (standardized.status.name = RRConversion) associated with the standardized address that applies to US addresses. • TRUE indicates that the input address was recognized as a Rural Route or Highway Contract addresses and that it was matched to a standardized address through a conversion to a normal street address • FALSE indicates that the input address was not recognized as a Rural Route or Highway Contract address and was not converted to a street address. (US only.)
Resolved	• Indicates if address can be standardized (resolved)
RuralRoute	• TRUE indicates that the input address was recognized as a Rural Route or Highway Contract addresses. • FALSE indicates that the input address was not recognized as a Rural Route or Highway Contract address.
SplitZIP	• TRUE when the address comes under a new ZIP code that did not previously exist. • FALSE when the address does not come under a new ZIP code that did not previously exist.
StreetAddress	• TRUE indicates that the house number and street name were validated against reference data. • FALSE indicates that the house number and street name were not validated against reference data. (Non-US addresses only, where applicable)
StreetBuildingAddress	• TRUE indicates that the building and street information were validated against reference data, but not house number. • FALSE indicates that the building and street information were not validated against reference data. (Non-US addresses only, where applicable)
StreetNameAddress	• TRUE indicates that the street name was validated against reference data, but not house number. Note that house number may not be applicable for the address.

Attribute Names	Description
	• FALSE indicates that the street name was not validated against reference data. (Non-US addresses only, where applicable)
StreetOrganizationAddress	• TRUE indicates that organization and street information were validated against reference data. • FALSE indicates that organization and street information were not validated against reference data. (Non-US addresses only, where applicable)
StreetPointNotApplicable	• TRUE indicates that house number at the street level is not applicable for this address • FALSE indicates that the house number at the street level is applicable for this address (Non-US addresses only, where applicable)
StreetPointNotValidated	• TRUE indicates that the house number for the street address was not validated against reference data • FALSE indicates that the house number for the street address was either not validated, not provided, or not relevant for the address (Non-US addresses only, where applicable)
StreetRange	• TRUE indicates that the address includes a street number range instead of a single house number. The range is from the input address from which this address was resolved, and that the input range was validated as being included within a known street range segment for the matched street. • FALSE indicates that the address does not include a street number range. (Non-US addresses only, where applicable)
StreetRangeValidated	• TRUE: House number and street were validated against a range of house numbers for that street provided in the reference data • FALSE: House number and street were not validated
StreetValidated	Returned for Canada and Generic Resolver

SuiteNotValidated	• TRUE indicates:
	  ○ input address contains suite information
	  ○ reference data is available and has confirmed that this address is a building base

Attribute Names	Description
	○ reference data is not available to validate the suite information • FALSE indicates either: ○ Suite information was not provided as input • Suite information was provided and reference data is available to validate the suite information
SuiteRequiredButMissing	• TRUE: indicates that an input address was resolved to a building base address and that a suite or unit number is required to achieve a more exact match, but this secondary address information is missing from the input address. • FALSE: Indicates that a suite was either not needed and not provided, or was provided and was valid
ValidMultiUnit	• TRUE indicates that the address includes a validated suite or unit number. • FALSE indicates that the address does not include a validated suite or unit number.
Zip4Match	• TRUE indicates that the input address was resolved to a standardized address based upon at least a ZIP+4 match. • FALSE indicates that the address was not resolved to a standardized address based upon at least ZIP+4 match. (US only)
Zip11Match	• TRUE indicates that the input address was resolved to a standardized address based upon a match at the postal barcode level (i.e. Zip-11 match). This is the highest level of postal code validation. All addresses resolved with the ZIP-11 Match flag set will also have the ZIP-4 Match flag set. • FALSE indicates that the input address was not resolved to a standardized address based upon Zip 11match. (US Only)

5.8.4 Address Validation Sample Codes

Sample codes for transactions are given below.

Example 1: Address Validation Service Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:v4="http://fedex.com/ws/addressvalidation/v4">
  <soapenv:Header/>
  <soapenv:Body>
    <v4:AddressValidationRequest>
      <v4:WebAuthenticationDetail>
        <v4:ParentCredential>
          <v4:Key>INPUT YOUR INFORMATION</v4:Key>
          <v4:Password>INPUT YOUR INFORMATION</v4:Password>
        </v4:ParentCredential>
        <v4:UserCredential>
          <v4:Key>INPUT YOUR INFORMATION</v4:Key>
          <v4:Password>INPUT YOUR INFORMATION</v4:Password>
        </v4:UserCredential>
      </v4:WebAuthenticationDetail>
      <v4:ClientDetail>
        <v4:AccountNumber>INPUT YOUR INFORMATION</v4:AccountNumber>
        <v4:MeterNumber>INPUT YOUR INFORMATION</v4:MeterNumber>
        <v4:Localization>
          <v4:LanguageCode>EN</v4:LanguageCode>
          <v4:LocaleCode>EN</v4:LocaleCode>
        </v4:Localization>
      </v4:ClientDetail>
      <v4:TransactionDetail>
        <v4:CustomerTransactionId>AddressValidationRequest_xxxxx</v4:CustomerTransactionId>
        <v4:Localization>
          <v4:LanguageCode>EN</v4:LanguageCode>
          <v4:LocaleCode>EN</v4:LocaleCode>
        </v4:Localization>
      </v4:TransactionDetail>
      <v4:Version>
        <v4:ServiceId>aval</v4:ServiceId>
        <v4:Major>4</v4:Major>
        <v4:Intermediate>0</v4:Intermediate>
        <v4:Minor>0</v4:Minor>
      </v4:Version>
      <v4:InEffectAsOfTimestamp>2020-02-25T12:34:56-06:00</v4:InEffectAsOfTimestamp>
      <v4:AddressesToValidate>
        <v4:ClientReferenceId>INPUT YOUR INFORMATION</v4:ClientReferenceId>
        <v4:Contact>
          <v4:ContactId>INPUT YOUR INFORMATION</v4:ContactId>
          <v4:PersonName>INPUT YOUR INFORMATION</v4:PersonName>
          <v4:CompanyName>INPUT YOUR INFORMATION</v4:CompanyName>
          <v4:PhoneNumber>INPUT YOUR INFORMATION</v4:PhoneNumber>
          <v4:EMailAddress>INPUT YOUR INFORMATION</v4:EMailAddress>
        </v4:Contact>
        <v4:Address>
          <v4:StreetLines>10 Fedex Pkwy</v4:StreetLines>
          <v4:City>COLORADO SPRINGS</v4:City>
          <v4:StateOrProvinceCode>TN</v4:StateOrProvinceCode>
          <v4:PostalCode>INPUT YOUR INFORMATION</v4:PostalCode>
```

```
        <v4:UrbanizationCode>CO</v4:UrbanizationCode>
        <v4:CountryCode>US</v4:CountryCode>
        <v4:Residential>0</v4:Residential>
      </v4:Address>
    </v4:AddressesToValidate>
  </v4:AddressValidationRequest>
 </soapenv:Body>
</soapenv:Envelope>
```

Example 2: Address Validation Service Reply

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
 <SOAP-ENV:Header/>
 <SOAP-ENV:Body>
  <AddressValidationReply xmlns="http://fedex.com/ws/addressvalidation/v4">
   <HighestSeverity>SUCCESS</HighestSeverity>
   <Notifications>
    <Severity>SUCCESS</Severity>
    <Source>wsi</Source>
    <Code>0</Code>
    <Message>Success</Message>
   </Notifications>
   <TransactionDetail>
    <CustomerTransactionId>AddressValidationRequest_v54534</CustomerTransactionId>
    <Localization>
     <LanguageCode>EN</LanguageCode>
     <LocaleCode>EN</LocaleCode>
    </Localization>
   </TransactionDetail>
   <Version>
    <ServiceId>aval</ServiceId>
    <Major>4</Major>
    <Intermediate>0</Intermediate>
    <Minor>0</Minor>
   </Version>
   <ReplyTimestamp>2020-02-25T05:20:25-06:00</ReplyTimestamp>
   <AddressResults>
    <ClientReferenceId>Shelby Drive</ClientReferenceId>
    <State>STANDARDIZED</State>
    <Classification>BUSINESS</Classification>
    <EffectiveAddress>
     <StreetLines>10 FED EX PKWY</StreetLines>
     <City>COLLIERVILLE</City>
     <StateOrProvinceCode>TN</StateOrProvinceCode>
     <PostalCode>38017-8711</PostalCode>
     <UrbanizationCode/>
     <CountryCode>US</CountryCode>
    </EffectiveAddress>
    <ParsedAddressPartsDetail>
```

```
    <ParsedStreetLine>
      <HouseNumber>10</HouseNumber>
      <StreetName>FED EX</StreetName>
      <StreetSuffix>PKWY</StreetSuffix>
    </ParsedStreetLine>
    <ParsedPostalCode>
      <Base>XXXX</Base>
      <AddOn>XXXX</AddOn>
      <DeliveryPoint>10</DeliveryPoint>
    </ParsedPostalCode>
  </ParsedAddressPartsDetail>
  <Attributes>
    <Name>CountrySupported</Name>
    <Value>true</Value>
  </Attributes>
  <Attributes>
    <Name>ZIP11Match</Name>
    <Value>true</Value>
  </Attributes>
  <Attributes>
    <Name>SuiteRequiredButMissing</Name>
    <Value>false</Value>
  </Attributes>
  <Attributes>
    <Name>InvalidSuiteNumber</Name>
    <Value>false</Value>
  </Attributes>
  <Attributes>
    <Name>MultipleMatches</Name>
    <Value>false</Value>
  </Attributes>
  <Attributes>
    <Name>Resolved</Name>
    <Value>true</Value>
  </Attributes>
  <Attributes>
    <Name>ZIP4Match</Name>
    <Value>true</Value>
  </Attributes>
  <Attributes>
    <Name>DPV</Name>
    <Value>true</Value>
  </Attributes>
  <Attributes>
    <Name>ValidMultiUnit</Name>
    <Value>false</Value>
  </Attributes>
  <Attributes>
    <Name>POBox</Name>
    <Value>false</Value>
  </Attributes>
```

```
        <Attributes>
          <Name>MultiUnitBase</Name>
          <Value>false</Value>
        </Attributes>
        <Attributes>
          <Name>StreetAddress</Name>
          <Value>false</Value>
        </Attributes>
        <Attributes>
          <Name>POBoxOnlyZIP</Name>
          <Value>false</Value>
        </Attributes>
        <Attributes>
          <Name>UniqueZIP</Name>
          <Value>false</Value>
        </Attributes>
        <Attributes>
          <Name>SplitZIP</Name>
          <Value>false</Value>
        </Attributes>
        <Attributes>
          <Name>RRConversion</Name>
          <Value>false</Value>
        </Attributes>
      </AddressResults>
    </AddressValidationReply>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

6 Address Validation Service Schema Details

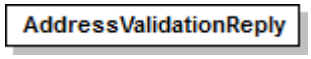
The following section provides a list of Elements, Complex Types and Simple Types associated with Address Validation Service. Description for each of these elements and types have been explained in separate tables in this section.

Table 8: Address Validation Schema Details

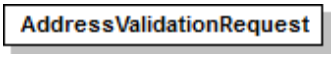
Elements	Complex types	Simple types
AddressValidationReply	Address	AutoConfigurationType
AddressValidationRequest	AddressAttribute	FedExAddressClassificationType
	AddressToValidate	NotificationSeverityType
	AddressValidationReply	OperationalAddressStateType
	AddressValidationRequest	
	AddressValidationResult	
	ClientDetail	
	Contact	
	Localization	
	Notification	
	NotificationParameter	
	ParsedAddressPartsDetail	
	ParsedPostalCodeDetail	
	ParsedStreetLineDetail	
	TransactionDetail	
	VersionId	
	WebAuthenticationCredential	
	WebAuthenticationDetail	

6.1 Element Types

6.1.1 element AddressValidationReply

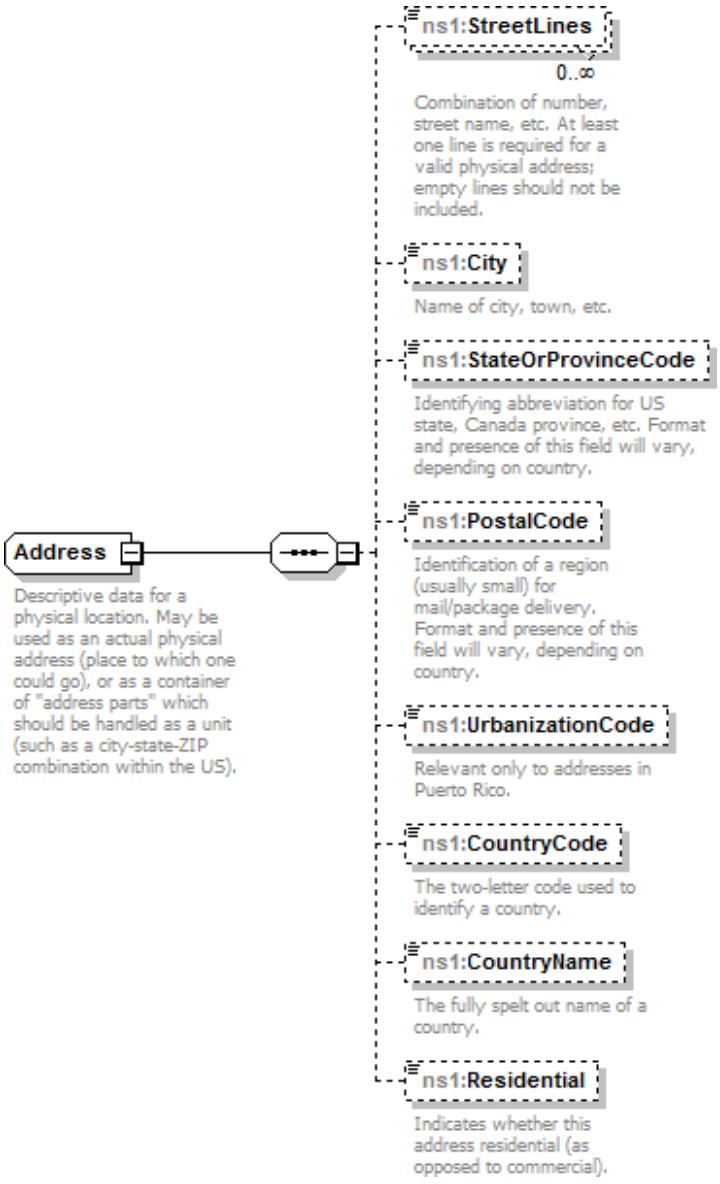
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:AddressValidationReply
source	<xs:element name="AddressValidationReply" type="ns:AddressValidationReply"/>

6.1.2 element AddressValidationRequest

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:AddressValidationRequest
source	<xs:element name="AddressValidationRequest" type="ns:AddressValidationRequest"/>

6.2 Complex Types

6.2.1 complexType Address

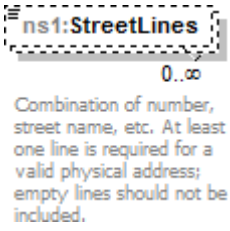
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
children	ns1:StreetLines ns1:City ns1:StateOrProvinceCode ns1:PostalCode ns1:UrbanizationCode ns1:CountryCode ns1:CountryName ns1:Residential

annotation	documentation Descriptive data for a physical location. May be used as an actual physical address (place to which one could go), or as a container of "address parts" which should be handled as a unit (such as a city-state- ZIP combination within the US).
source	<xs:complexType name="Address"> <xs:annotation> <xs:documentation>Descriptive data for a physical location. May be used as an actual physical address (place to which one could go), or as a container of "address parts" which should be handled as a unit (such as a city-state-ZIP combination within the US).</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="StreetLines" type="xs:string" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Combination of number, street name, etc. At least one line is required for a valid physical address; empty lines should not be included.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="City" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Name of city, town, etc.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="StateOrProvinceCode" type="xs:string" minOccurs="0"> <xs:annotation>

	<xs:documentation>Identifying abbreviation for US state, Canada province, etc. Format and presence of this field will vary, depending on country.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="PostalCode" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Identification of a region (usually small) for mail/package delivery. Format and presence of this field will vary, depending on country.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="UrbanizationCode" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Relevant only to addresses in Puerto Rico.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="CountryCode" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>The two-letter code used to identify a country.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="CountryName" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>The fully spelt out name of a country.</xs:documentation> </xs:annotation> </xs:element>

	<xs:element name="Residential" type="xs:boolean" minOccurs="0"> <xs:annotation> <xs:documentation>Indicates whether this address residential (as opposed to commercial).</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

6.2.2 element Address/StreetLines

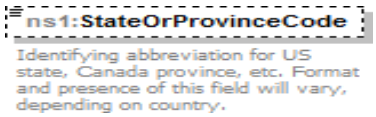
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc unbounded content simple
annotation	documentation Combination of number, street name, etc. At least one line is required for a valid physical address; empty lines should not be included.
source	<xs:element name="StreetLines" type="xs:string" minOccurs="0" maxOccurs="unbounded"> <xs:annotation>

	<xs:documentation>Combination of number, street name, etc. At least one line is required for a valid physical address; empty lines should not be included.</xs:documentation> </xs:annotation> </xs:element>

6.2.3 element Address/City

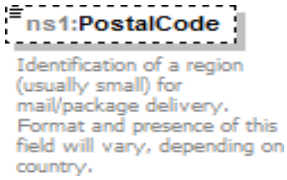
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Name of city, town, etc.
source	<xs:element name="City" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Name of city, town, etc.</xs:documentation> </xs:annotation> </xs:element>

6.2.4 element Address/StateOrProvinceCode

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation

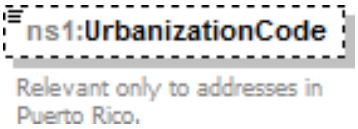
	Identifying abbreviation for US state, Canada province, etc. Format and presence of this field will vary, depending on country.
source	<xs:element name="StateOrProvinceCode" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Identifying abbreviation for US state, Canada province, etc. Format and presence of this field will vary, depending on country.</xs:documentation> </xs:annotation> </xs:element>

6.2.5 element Address/PostalCode

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Identification of a region (usually small) for mail/package delivery. Format and presence of this field will vary, depending on country.
source	<xs:element name="PostalCode" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Identification of a region (usually small) for mail/package delivery. Format and presence of this field will vary, depending on country.</xs:documentation>

	</xs:annotation> </xs:element>

6.2.6 element Address/UrbanizationCode

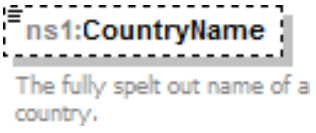
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Relevant only to addresses in Puerto Rico.
source	<xs:element name="UrbanizationCode" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Relevant only to addresses in Puerto Rico.</xs:documentation> </xs:annotation> </xs:element>

6.2.7 element Address/CountryCode

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4

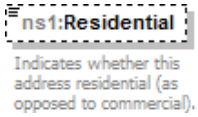
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The two-letter code used to identify a country.
source	<xs:element name="CountryCode" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>The two-letter code used to identify a country.</xs:documentation> </xs:annotation> </xs:element>

6.2.8 element Address/CountryName

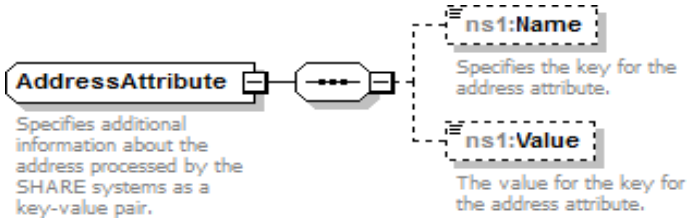
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The fully spelt out name of a country.

source	<xs:element name="CountryName" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>The fully spelt out name of a country.</xs:documentation> </xs:annotation> </xs:element>

6.2.9 element Address/Residential

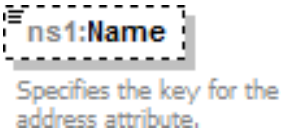
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:boolean
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Indicates whether this address residential (as opposed to commercial).
source	<xs:element name="Residential" type="xs:boolean" minOccurs="0"> <xs:annotation> <xs:documentation>Indicates whether this address residential (as opposed to commercial).</xs:documentation> </xs:annotation> </xs:element>

6.2.10 complexType AddressAttribute

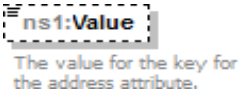
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
children	ns1:Name ns1:Value
annotation	documentation Specifies additional information about the address processed by the SHARE systems as a key-value pair.
source	<xs:complexType name="AddressAttribute"> <xs:annotation> <xs:documentation>Specifies additional information about the address processed by the SHARE systems as a key-value pair.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="Name" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Specifies the key for the address attribute.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Value" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>The value for the key for the address attribute.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence>

	</xs:complexType>

6.2.11 element AddressAttribute/Name

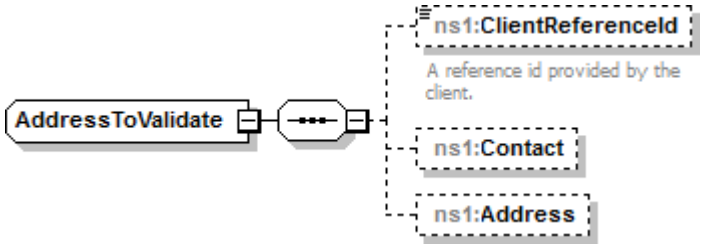
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Specifies the key for the address attribute.
source	<xs:element name="Name" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Specifies the key for the address attribute.</xs:documentation> </xs:annotation></xs:element>

6.2.12 element AddressAttribute/Value

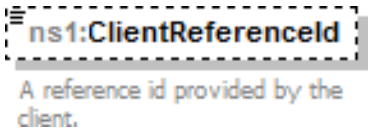
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4

type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The value for the key for the address attribute.
source	<xs:element name="Value" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>The value for the key for the address attribute.</xs:documentation> </xs:annotation> </xs:element>

6.2.13 complexType AddressToValidate

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
children	ns1:ClientReferenceId ns1:Contact ns1:Address
source	<xs:complexType name="AddressToValidate"> <xs:sequence> <xs:element name="ClientReferenceId" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>A reference id provided by the client.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Contact" type="ns:Contact" minOccurs="0"/> <xs:element name="Address" type="ns:Address" minOccurs="0"/> </xs:sequence> </xs:complexType>

6.2.14 element AddressToValidate/ClientReferenceId

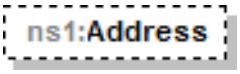
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0

	maxOcc 1 content simple
annotation	documentation A reference id provided by the client.
source	<xs:element name="ClientReferenceId" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>A reference id provided by the client.</xs:documentation> </xs:annotation> </xs:element>

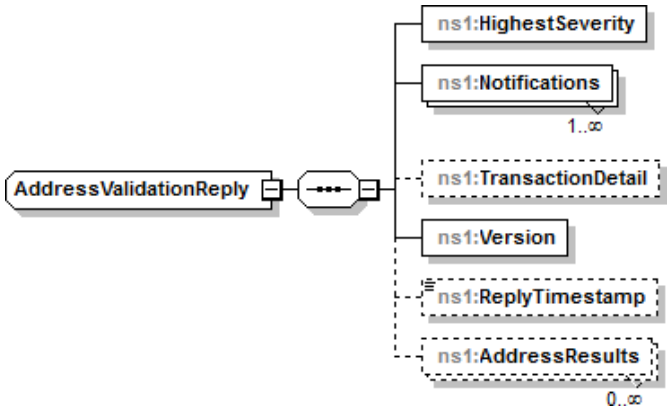
6.2.15 element AddressToValidate/Contact

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:Contact
properties	minOcc 0 maxOcc 1
source	<xs:element name="Contact" type="ns:Contact" minOccurs="0"/>

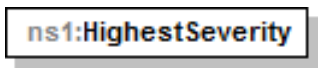
6.2.16 element AddressToValidate/Address

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:Address
properties	minOcc 0 maxOcc 1
source	<xs:element name="Address" type="ns:Address" minOccurs="0"/>

6.2.17 complexType AddressValidationReply

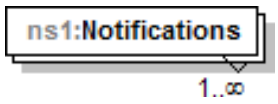
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
children	ns1:HighestSeverity ns1:Notifications ns1:TransactionDetail ns1:Version ns1:ReplyTimestamp ns1:AddressResults
source	<xs:complexType name="AddressValidationReply"> <xs:sequence> <xs:element name="HighestSeverity" type="ns:NotificationSeverityType" minOccurs="1"/> <xs:element name="Notifications" type="ns:Notification" minOccurs="1" maxOccurs="unbounded"/> <xs:element name="TransactionDetail" type="ns:TransactionDetail" minOccurs="0"/> <xs:element name="Version" type="ns:VersionId" minOccurs="1"/> <xs:element name="ReplyTimestamp" type="xs:dateTime" minOccurs="0"/> <xs:element name="AddressResults" type="ns:AddressValidationResult" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType>

6.2.18 element AddressValidationReply/HighestSeverity

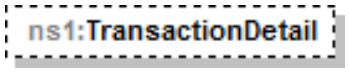
diagram	

namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:NotificationSeverityType
source	<xs:element name="HighestSeverity" type="ns:NotificationSeverityType" minOccurs="1"/>

6.2.19 element AddressValidationReply/Notifications

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:Notification
properties	minOcc 1 maxOcc unbounded
source	<xs:element name="Notifications" type="ns:Notification" minOccurs="1" maxOccurs="unbounded"/>

6.2.20 element AddressValidationReply/TransactionDetail

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:TransactionDetail
properties	minOcc 0 maxOcc 1
source	<xs:element name="TransactionDetail" type="ns:TransactionDetail" minOccurs="0"/>

6.2.21 element AddressValidationReply/Version

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4

type	ns:VersionId
source	<xs:element name="Version" type="ns:VersionId" minOccurs="1"/>

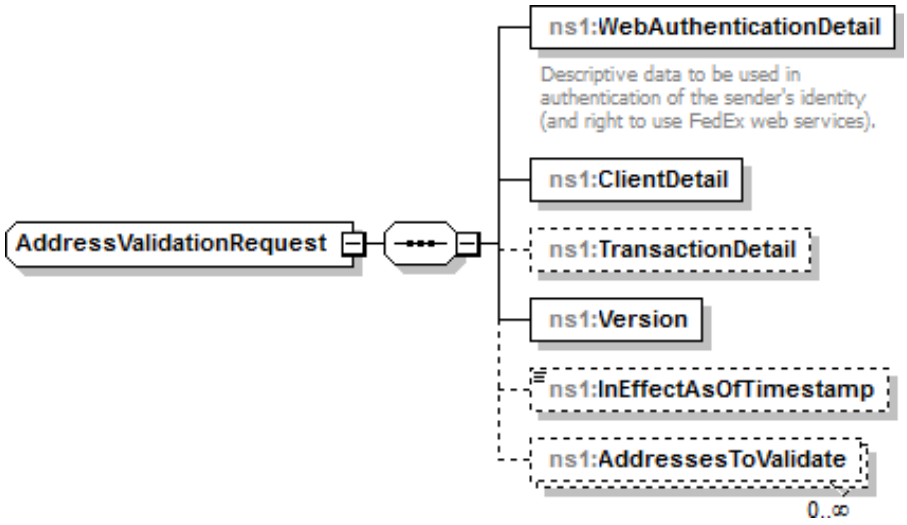
6.2.22 element AddressValidationReply/ReplyTimestamp

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:dateTime
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="ReplyTimestamp" type="xs:dateTime" minOccurs="0"/>

6.2.23 element AddressValidationReply/AddressResults

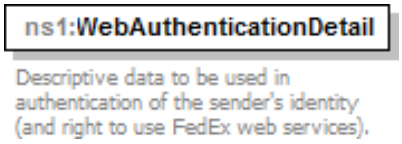
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:AddressValidationResult
properties	minOcc 0 maxOcc unbounded
source	<xs:element name="AddressResults" type="ns:AddressValidationResult" minOccurs="0" maxOccurs="unbounded"/>

6.2.24 complexType AddressValidationRequest

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
children	ns1:WebAuthenticationDetail ns1:ClientDetail ns1:TransactionDetail ns1:Version ns1:InEffectAsOfTimestamp ns1:AddressesToValidate
source	<xs:complexType name="AddressValidationRequest"> <xs:sequence> <xs:element name="WebAuthenticationDetail" type="ns:WebAuthenticationDetail" minOccurs="1"> <xs:annotation> <xs:documentation>Descriptive data to be used in authentication of the sender's identity (and right to use FedEx web services).</xs:documentation> </xs:annotation> </xs:element> <xs:element name="ClientDetail" type="ns:ClientDetail" minOccurs="1"/> <xs:element name="TransactionDetail" type="ns:TransactionDetail" minOccurs="0"/> <xs:element name="Version" type="ns:VersionId" minOccurs="1"/> <xs:element name="InEffectAsOfTimestamp" type="xs:dateTime" minOccurs="0"/> <xs:element name="AddressesToValidate" type="ns:AddressToValidate" minOccurs="0" maxOccurs="unbounded"/>

	</xs:sequence> </xs:complexType>

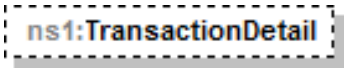
6.2.25 element AddressValidationRequest/WebAuthenticationDetail

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:WebAuthenticationDetail
annotation	documentation Descriptive data to be used in authentication of the sender's identity (and right to use FedEx web services).
source	<xs:element name="WebAuthenticationDetail" type="ns:WebAuthenticationDetail" minOccurs="1"> <xs:annotation> <xs:documentation>Descriptive data to be used in authentication of the sender's identity (and right to use FedEx web services).</xs:documentation> </xs:annotation> </xs:element>

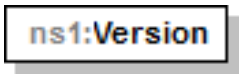
6.2.26 element AddressValidationRequest/ClientDetail

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:ClientDetail
source	<xs:element name="ClientDetail" type="ns:ClientDetail" minOccurs="1"/>

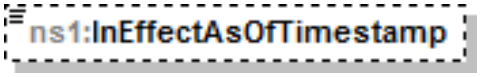
6.2.27 element AddressValidationRequest/TransactionDetail

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:TransactionDetail
properties	minOcc 0 maxOcc 1
source	<xs:element name="TransactionDetail" type="ns:TransactionDetail" minOccurs="0"/>

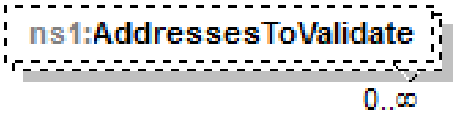
6.2.28 element AddressValidationRequest/Version

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:VersionId
source	<xs:element name="Version" type="ns:VersionId" minOccurs="1"/>

6.2.29 element AddressValidationRequest/InEffectAsOfTimestamp

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:dateTime
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="InEffectAsOfTimestamp" type="xs:dateTime" minOccurs="0"/>

6.2.30 element AddressValidationRequest/AddressesToValidate

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:AddressToValidate
properties	minOcc 0 maxOcc unbounded
source	<xs:element name="AddressesToValidate" type="ns:AddressToValidate" minOccurs="0" maxOccurs="unbounded"/>

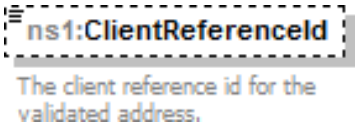
6.2.31 complexType AddressValidationResult

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
children	ns1:ClientReferenceId ns1:State ns1:Classification ns1:EffectiveContact ns1:EffectiveAddress ns1:ParsedAddressPartsDetail ns1:Attributes

source	<xs:complexType name="AddressValidationResult"> <xs:sequence> <xs:element name="ClientReferenceId" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>The client reference id for the validated address.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="State" type="ns:OperationalAddressStateType" minOccurs="0"> <xs:annotation> <xs:documentation>Specifies the degree to SHARE service was able to cannonicalise the address provided, as per USPS standards and match it to an address already in the internal FedEx address repository.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Classification" type="ns:FedExAddressClassificationType" minOccurs="0"/> <xs:element name="EffectiveContact" type="ns:Contact" minOccurs="0"/> <xs:element name="EffectiveAddress" type="ns:Address" minOccurs="0"/> <xs:element name="ParsedAddressPartsDetail" type="ns:ParsedAddressPartsDetail" minOccurs="0"/> <xs:element name="Attributes" type="ns:AddressAttribute" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Additional attributes about the validated address from FedEx address respository..</xs:documentation> </xs:annotation> </xs:element> </xs:sequence>

	</xs:complexType>

6.2.32 element AddressValidationResult/ClientReferenceId

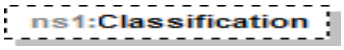
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The client reference id for the validated address.
source	<xs:element name="ClientReferenceId" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>The client reference id for the validated address.</xs:documentation> </xs:annotation> </xs:element>

6.2.33 element AddressValidationResult/State

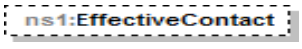
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:OperationalAddressStateType
properties	minOcc 0

	maxOcc 1
annotation	documentation Specifies the degree to SHARE service was able to cannonicalise the address provided, as per USPS standards and match it to an address already in the internal FedEx address repository.
source	<xs:element name="State" type="ns:OperationalAddressStateType" minOccurs="0"> <xs:annotation> <xs:documentation>Specifies the degree to SHARE service was able to cannonicalise the address provided, as per USPS standards and match it to an address already in the internal FedEx address repository.</xs:documentation> </xs:annotation> </xs:element>

6.2.34 element AddressValidationResult/Classification

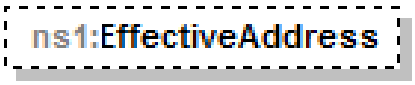
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:FedExAddressClassificationType
properties	minOcc 0 maxOcc 1
source	<xs:element name="Classification" type="ns:FedExAddressClassificationType" minOccurs="0"/>

6.2.35 element AddressValidationResult/EffectiveContact

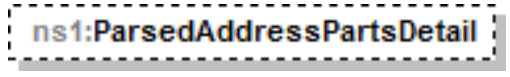
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:Contact
properties	minOcc 0 maxOcc 1

source	<xs:element name="EffectiveContact" type="ns:Contact" minOccurs="0"/>

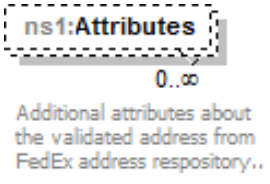
6.2.36 element AddressValidationResult/EffectiveAddress

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:Address
properties	minOcc 0 maxOcc 1
source	<xs:element name="EffectiveAddress" type="ns:Address" minOccurs="0"/>

6.2.37 element AddressValidationResult/ParsedAddressPartsDetail

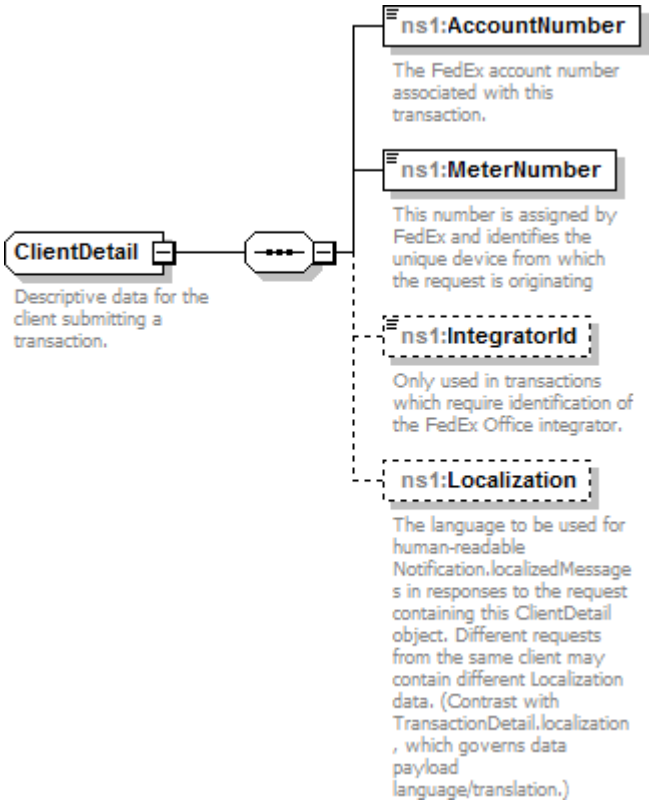
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:ParsedAddressPartsDetail
properties	minOcc 0 maxOcc 1
source	<xs:element name="ParsedAddressPartsDetail" type="ns:ParsedAddressPartsDetail" minOccurs="0"/>

6.2.38 element AddressValidationResult/Attributes

diagram	

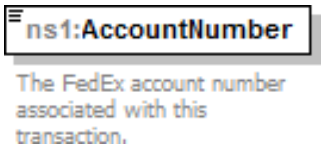
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:AddressAttribute
properties	minOcc 0 maxOcc unbounded
annotation	documentation Additional attributes about the validated address from FedEx address respository..
source	<xs:element name="Attributes" type="ns:AddressAttribute" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Additional attributes about the validated address from FedEx address respository..</xs:documentation> </xs:annotation> </xs:element>

6.2.39 complexType ClientDetail

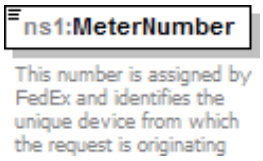
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
children	ns1:AccountNumber ns1:MeterNumber ns1:IntegratorId ns1:Localization
annotation	documentation Descriptive data for the client submitting a transaction.
source	<xs:complexType name="ClientDetail"> <xs:annotation> <xs:documentation>Descriptive data for the client submitting a transaction.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="AccountNumber" type="xs:string" minOccurs="1"> <xs:annotation>

	<xs:documentation>The FedEx account number associated with this transaction.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="MeterNumber" type="xs:string" minOccurs="1"> <xs:annotation> <xs:documentation>This number is assigned by FedEx and identifies the unique device from which the request is originating</xs:documentation> </xs:annotation> </xs:element> <xs:element name="IntegratorId" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Only used in transactions which require identification of the FedEx Office integrator.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Localization" type="ns:Localization" minOccurs="0"> <xs:annotation> <xs:documentation>The language to be used for human-readable Notification.localizedMessages in responses to the request containing this ClientDetail object. Different requests from the same client may contain different Localization data. (Contrast with TransactionDetail.localization, which governs data payload language/translation.)</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

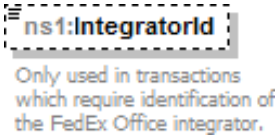
6.2.40 element ClientDetail/AccountNumber

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	content simple
annotation	documentation The FedEx account number associated with this transaction.
source	<xs:element name="AccountNumber" type="xs:string" minOccurs="1"> <xs:annotation> <xs:documentation>The FedEx account number associated with this transaction.</xs:documentation> </xs:annotation> </xs:element>

6.2.41 element ClientDetail/MeterNumber

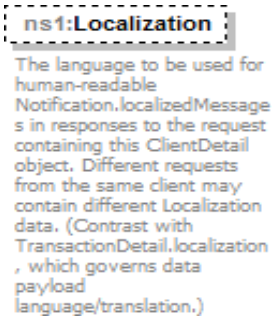
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	content simple
annotation	documentation This number is assigned by FedEx and identifies the unique device from which the request is originating
source	<xs:element name="MeterNumber" type="xs:string" minOccurs="1"> <xs:annotation> <xs:documentation>This number is assigned by FedEx and identifies the unique device from which the request is originating</xs:documentation> </xs:annotation> </xs:element>

6.2.42 element ClientDetail/IntegratorId

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation

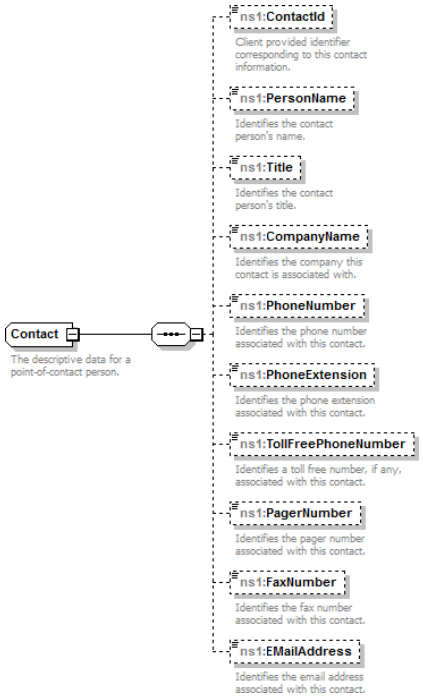
	Only used in transactions which require identification of the FedEx Office integrator.
source	<xs:element name="IntegratorId" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Only used in transactions which require identification of the FedEx Office integrator.</xs:documentation> </xs:annotation> </xs:element>

6.2.43 element ClientDetail/Localization

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:Localization
properties	minOcc 0 maxOcc 1
annotation	documentation The language to be used for human-readable Notification.localizedMessages in responses to the request containing this ClientDetail object. Different requests from the same client may contain different Localization data. (Contrast with TransactionDetail.localization, which governs data payload language/translation.
source	<xs:element name="Localization" type="ns:Localization" minOccurs="0"> <xs:annotation> <xs:documentation>The language to be used for human-readable Notification.localizedMessages in responses to the request containing this ClientDetail object. Different requests from the same client may contain different

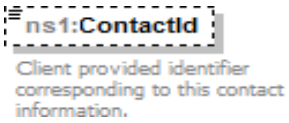
	Localization data. (Contrast with TransactionDetail.localization, which governs data payload language/translation.)</xs:documentation> </xs:annotation> </xs:element>

6.2.44 complexType Contact

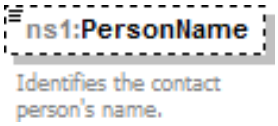
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
children	ns1:ContactId ns1:PersonName ns1:Title ns1:CompanyName ns1:PhoneNumber ns1:PhoneExtension ns1:TollFreePhoneNumber ns1:PagerNumber ns1:FaxNumber ns1:EMailAddress
annotation	documentation The descriptive data for a point-of-contact person.
source	<xs:complexType name="Contact"> <xs:annotation>

	<xs:documentation>The descriptive data for a point-of-contact </xs:element> <xs:element name="EMailAddress" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Identifies the email address associated with this contact.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

6.2.45 element Contact/ContactId

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Client provided identifier corresponding to this contact information.
source	<xs:element name="ContactId" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Client provided identifier corresponding to this contact information.</xs:documentation> </xs:annotation> </xs:element>

6.2.46 element Contact/PersonName

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Identifies the contact person's name.
source	<xs:element name="PersonName" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Identifies the contact person's name.</xs:documentation> </xs:annotation> </xs:element>

6.2.47 element Contact/Title

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation

	Identifies the contact person's title.
source	<xs:element name="Title" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Identifies the contact person's title.</xs:documentation> </xs:annotation> </xs:element>

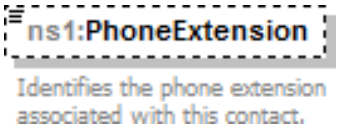
6.2.48 element Contact/CompanyName

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Identifies the company this contact is associated with.
source	<xs:element name="CompanyName" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Identifies the company this contact is associated with.</xs:documentation> </xs:annotation> </xs:element>

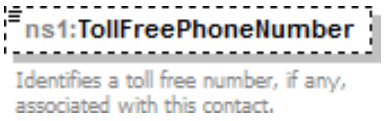
6.2.49 element Contact/PhoneNumber

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Identifies the phone number associated with this contact.
source	<xs:element name="PhoneNumber" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Identifies the phone number associated with this contact.</xs:documentation> </xs:annotation> </xs:element>

6.2.50 element Contact/PhoneExtension

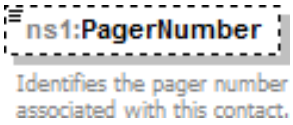
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Identifies the phone extension associated with this contact.
source	<xs:element name="PhoneExtension" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Identifies the phone extension associated with this contact.</xs:documentation> </xs:annotation> </xs:element>

6.2.51 element Contact/TollFreePhoneNumber

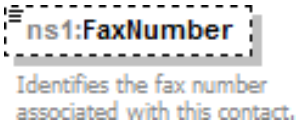
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation

	Identifies a toll free number, if any, associated with this contact.
source	<xs:element name="TollFreePhoneNumber" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Identifies a toll free number, if any, associated with this contact.</xs:documentation> </xs:annotation> </xs:element>

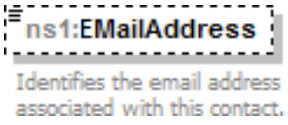
6.2.52 element Contact/PagerNumber

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Identifies the pager number associated with this contact.
source	<xs:element name="PagerNumber" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Identifies the pager number associated with this contact.</xs:documentation> </xs:annotation> </xs:element>

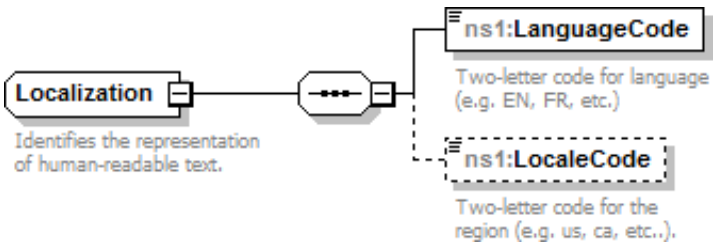
6.2.53 element Contact/FaxNumber

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Identifies the fax number associated with this contact.
source	<xs:element name="FaxNumber" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Identifies the fax number associated with this contact.</xs:documentation> </xs:annotation> </xs:element>

6.2.54 element Contact/EMailAddress

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Identifies the email address associated with this contact.
source	<xs:element name="EMailAddress" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Identifies the email address associated with this contact.</xs:documentation> </xs:annotation> </xs:element>

6.2.55 complexType Localization

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
children	ns1:LanguageCode ns1:LocaleCode
annotation	documentation

	Identifies the representation of human-readable text.
source	<xs:complexType name="Localization"> <xs:annotation> <xs:documentation>Identifies the representation of human-readable text.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="LanguageCode" type="xs:string" minOccurs="1"> <xs:annotation> <xs:documentation>Two-letter code for language (e.g. EN, FR, etc.)</xs:documentation> </xs:annotation> </xs:element> <xs:element name="LocaleCode" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Two-letter code for the region (e.g. us, ca, etc..).</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

6.2.56 element Localization/LanguageCode

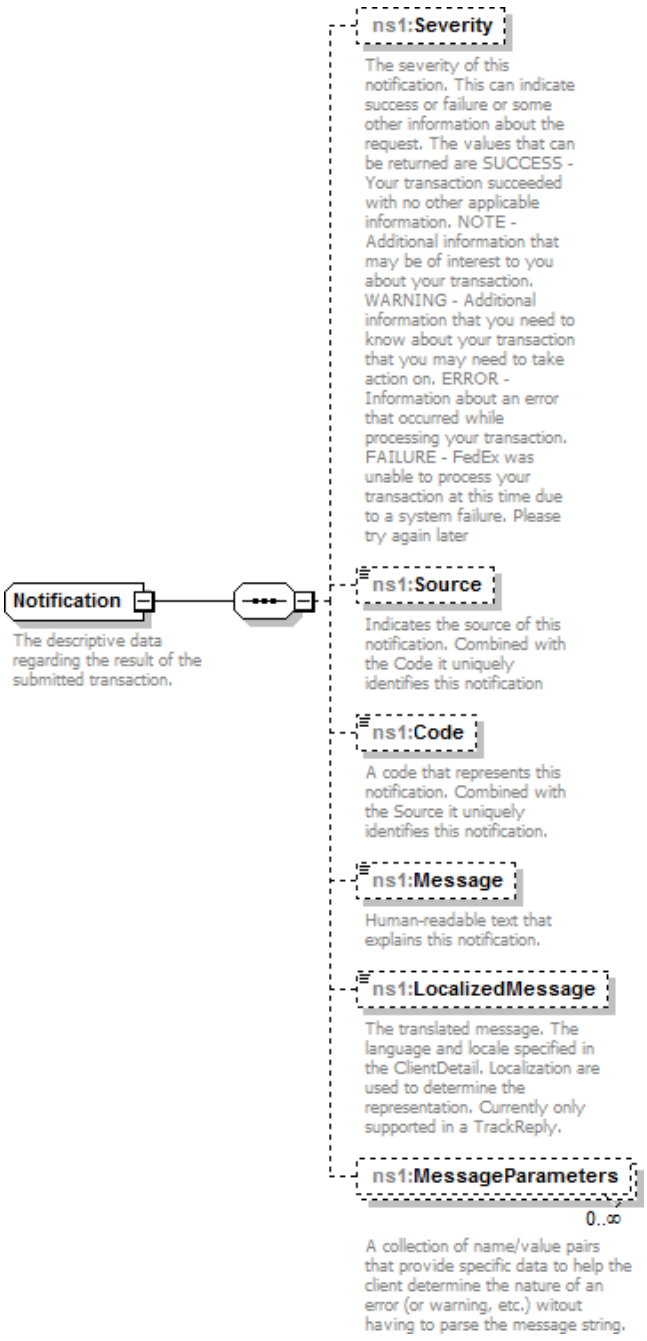
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string

properties	content simple
annotation	documentation Two-letter code for language (e.g. EN, FR, etc.)
source	<xs:element name="LanguageCode" type="xs:string" minOccurs="1"> <xs:annotation> <xs:documentation>Two-letter code for language (e.g. EN, FR, etc.)</xs:documentation> </xs:annotation> </xs:element>

6.2.57 element Localization/LocaleCode

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Two-letter code for the region (e.g. us, ca, etc..).
source	<xs:element name="LocaleCode" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Two-letter code for the region (e.g. us, ca, etc..).</xs:documentation> </xs:annotation> </xs:element>

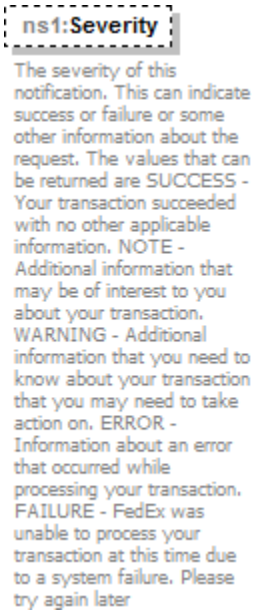
6.2.58 complexType Notification

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
children	ns1:Severity ns1:Source ns1:Code ns1:Message ns1:LocalizedMessage ns1:MessageParameters

annotation	documentation The descriptive data regarding the result of the submitted transaction.
source	<xs:complexType name="Notification"> <xs:annotation> <xs:documentation>The descriptive data regarding the result of the submitted transaction.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="Severity" type="ns:NotificationSeverityType" minOccurs="0"> <xs:annotation> <xs:documentation>The severity of this notification. This can indicate success or failure or some other information about the request. The values that can be returned are SUCCESS - Your transaction succeeded with no other applicable information. NOTE - Additional information that may be of interest to you about your transaction. WARNING - Additional information that you need to know about your transaction that you may need to take action on. ERROR - Information about an error that occurred while processing your transaction. FAILURE - FedEx was unable to process your transaction at this time due to a system failure. Please try again later</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Source" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Indicates the source of this notification. Combined with the Code it uniquely identifies this notification</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Code" type="xs:string" minOccurs="0"> <xs:annotation>

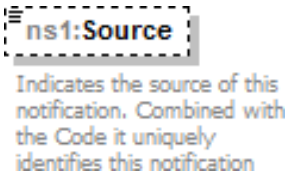
	<xs:documentation>A code that represents this notification. Combined with the Source it uniquely identifies this notification.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Message" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Human-readable text that explains this notification.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="LocalizedMessage" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>The translated message. The language and locale specified in the ClientDetail. Localization are used to determine the representation. Currently only supported in a TrackReply.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="MessageParameters" type="ns:NotificationParameter" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>A collection of name/value pairs that provide specific data to help the client determine the nature of an error (or warning, etc.) witout having to parse the message string.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

6.2.59 element Notification/Severity

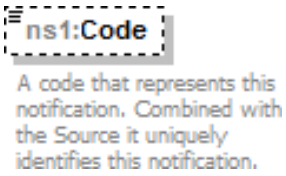
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:NotificationSeverityType
properties	minOcc 0 maxOcc 1
annotation	documentation The severity of this notification. This can indicate success or failure or some other information about the request. The values that can be returned are SUCCESS - Your transaction succeeded with no other applicable information. NOTE - Additional information that may be of interest to you about your transaction. WARNING - Additional information that you need to know about your transaction that you may need to take action on. ERROR - Information about an error that occurred while processing your transaction. FAILURE - FedEx was unable to process your transaction at this time due to a system failure. Please try again later

source	<xs:element name="Severity" type="ns:NotificationSeverityType" minOccurs="0"> <xs:annotation> <xs:documentation>The severity of this notification. This can indicate success or failure or some other information about the request. The values that can be returned are SUCCESS - Your transaction succeeded with no other applicable information. NOTE - Additional information that may be of interest to you about your transaction. WARNING - Additional information that you need to know about your transaction that you may need to take action on. ERROR - Information about an error that occurred while processing your transaction. FAILURE - FedEx was unable to process your transaction at this time due to a system failure. Please try again later</xs:documentation> </xs:annotation> </xs:element>

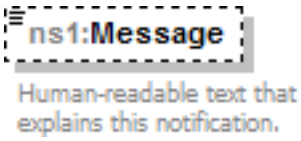
6.2.60 element Notification/Source

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Indicates the source of this notification. Combined with the Code it uniquely identifies this notification

6.2.61 element Notification/Code

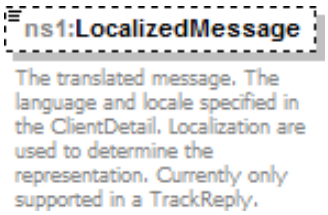
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation A code that represents this notification. Combined with the Source it uniquely identifies this notification.
source	<xs:element name="Code" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>A code that represents this notification. Combined with the Source it uniquely identifies this notification.</xs:documentation> </xs:annotation> </xs:element>

6.2.62 element Notification/Message

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1

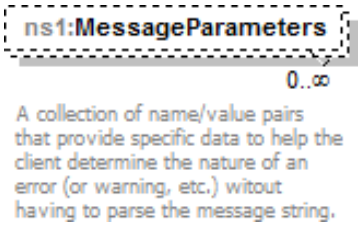
	content simple
annotation	documentation Human-readable text that explains this notification.
source	<xs:element name="Message" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Human-readable text that explains this notification.</xs:documentation> </xs:annotation> </xs:element>

6.2.63 element Notification/LocalizedMessage

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The translated message. The language and locale specified in the ClientDetail. Localization are used to determine the representation. Currently only supported in a TrackReply.

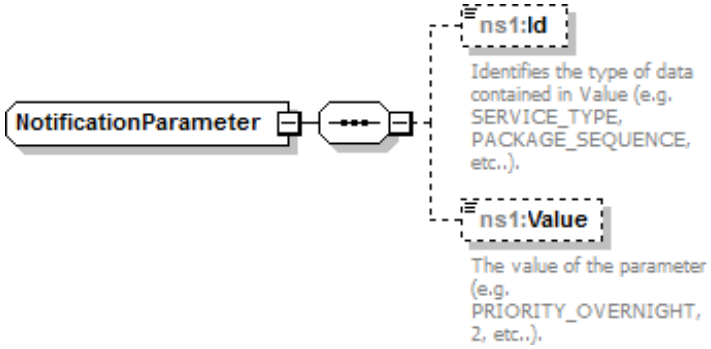
source	<xs:element name="LocalizedMessage" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>The translated message. The language and locale specified in the ClientDetail. Localization are used to determine the representation. Currently only supported in a TrackReply.</xs:documentation> </xs:annotation> </xs:element>

6.2.64 element Notification/MessageParameters

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:NotificationParameter
properties	minOcc 0 maxOcc unbounded
annotation	documentation A collection of name/value pairs that provide specific data to help the client determine the nature of an error (or warning, etc.) witout having to parse the message string.
source	<xs:element name="MessageParameters" type="ns:NotificationParameter" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>A collection of name/value pairs that provide specific data to help the client determine the nature of an error (or warning, etc.) witout having to parse the message string.</xs:documentation> </xs:annotation>

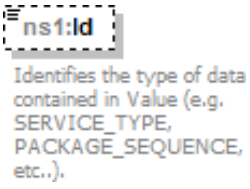
	</xs:element>

6.2.65 complexType NotificationParameter

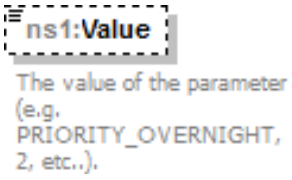
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
children	ns1:Id ns1:Value
source	<xs:complexType name="NotificationParameter"> <xs:sequence> <xs:element name="Id" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Identifies the type of data contained in Value (e.g.SERVICE_TYPE, PACKAGE_SEQUENCE, etc..).</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Value" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>The value of the parameter (e.g. PRIORITY_OVERNIGHT, 2, etc..).</xs:documentation>

	</xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

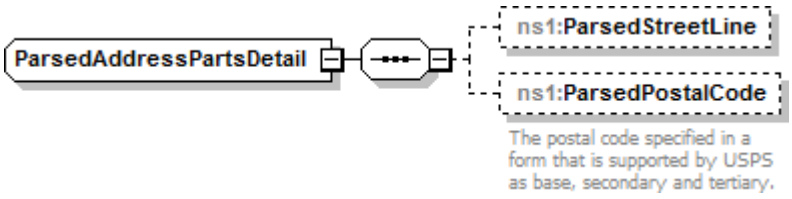
6.2.66 element NotificationParameter/Id

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Identifies the type of data contained in Value (e.g. SERVICE_TYPE, PACKAGE_SEQUENCE, etc..).
source	<xs:element name="Id" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Identifies the type of data contained in Value (e.g. SERVICE_TYPE, PACKAGE_SEQUENCE, etc..).</xs:documentation> </xs:annotation> </xs:element>

6.2.67 element NotificationParameter/Value

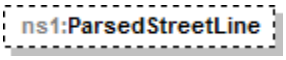
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The value of the parameter (e.g. PRIORITY_OVERNIGHT, 2, etc..).
source	<xs:element name="Value" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>The value of the parameter (e.g. PRIORITY_OVERNIGHT, 2, etc..).</xs:documentation> </xs:annotation> </xs:element>

6.2.68 complexType ParsedAddressPartsDetail

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
children	ns1:ParsedStreetLine ns1:ParsedPostalCode

source	<xs:complexType name="ParsedAddressPartsDetail"> <xs:sequence> <xs:element name="ParsedStreetLine" type="ns:ParsedStreetLineDetail" minOccurs="0"/> <xs:element name="ParsedPostalCode" type="ns:ParsedPostalCodeDetail" minOccurs="0"> <xs:annotation> <xs:documentation>The postal code specified in a form that is supported by USPS as base, secondary and tertiary.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

6.2.69 element ParsedAddressPartsDetail/ParsedStreetLine

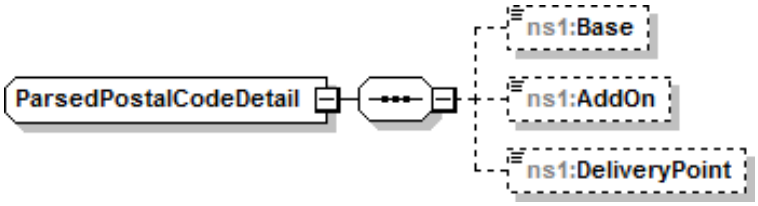
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:ParsedStreetLineDetail
properties	minOcc 0 maxOcc 1
source	<xs:element name="ParsedStreetLine" type="ns:ParsedStreetLineDetail" minOccurs="0"/>

6.2.70 element ParsedAddressPartsDetail/ParsedPostalCode

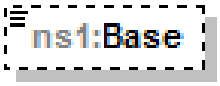
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4

type	ns:ParsedPostalCodeDetail
properties	minOcc 0 maxOcc 1
annotation	documentation The postal code specified in a form that is supported by USPS as base, secondary and tertiary.
source	<xs:element name="ParsedPostalCode" type="ns:ParsedPostalCodeDetail" minOccurs="0"> <xs:annotation> <xs:documentation>The postal code specified in a form that is supported by USPS as base, secondary and tertiary.</xs:documentation> </xs:annotation> </xs:element>

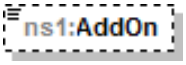
6.2.71 complexType ParsedPostalCodeDetail

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
children	ns1:Base ns1:AddOn ns1:DeliveryPoint
source	<xs:complexType name="ParsedPostalCodeDetail"> <xs:sequence> <xs:element name="Base" type="xs:string" minOccurs="0"/> <xs:element name="AddOn" type="xs:string" minOccurs="0"/> <xs:element name="DeliveryPoint" type="xs:string" minOccurs="0"/> </xs:sequence> </xs:complexType>

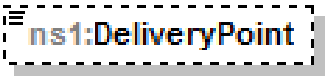
6.2.72 element ParsedPostalCodeDetail/Base

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="Base" type="xs:string" minOccurs="0"/>

6.2.73 element ParsedPostalCodeDetail/AddOn

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="AddOn" type="xs:string" minOccurs="0"/>

6.2.74 element ParsedPostalCodeDetail/DeliveryPoint

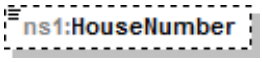
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="DeliveryPoint" type="xs:string" minOccurs="0"/>

6.2.75 complexType ParsedStreetLineDetail

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4

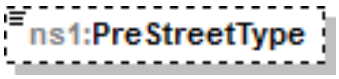
children	ns1:HouseNumber ns1:PreStreetType ns1:LeadingDirectional ns1:StreetName ns1:StreetSuffix ns1:TrailingDirectional ns1:UnitLabel ns1:UnitNumber ns1:RuralRoute ns1:POBox ns1:Building ns1:Organization
source	<xs:complexType name="ParsedStreetLineDetail"> <xs:sequence> <xs:element name="HouseNumber" type="xs:string" minOccurs="0"/> <xs:element name="PreStreetType" type="xs:string" minOccurs="0"/> <xs:element name="LeadingDirectional" type="xs:string" minOccurs="0"/> <xs:element name="StreetName" type="xs:string" minOccurs="0"/> <xs:element name="StreetSuffix" type="xs:string" minOccurs="0"/> <xs:element name="TrailingDirectional" type="xs:string" minOccurs="0"/> <xs:element name="UnitLabel" type="xs:string" minOccurs="0"/> <xs:element name="UnitNumber" type="xs:string" minOccurs="0"/> <xs:element name="RuralRoute" type="xs:string" minOccurs="0"/> <xs:element name="POBox" type="xs:string" minOccurs="0"/> <xs:element name="Building" type="xs:string" minOccurs="0"/> <xs:element name="Organization" type="xs:string" minOccurs="0"/> </xs:sequence> </xs:complexType>

6.2.76 element ParsedStreetLineDetail/HouseNumber

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple

source	<xs:element name="HouseNumber" type="xs:string" minOccurs="0"/>

6.2.77 element ParsedStreetLineDetail/PreStreetType

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="PreStreetType" type="xs:string" minOccurs="0"/>

6.2.78 element ParsedStreetLineDetail/LeadingDirectional

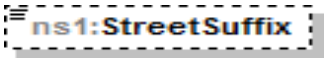
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="LeadingDirectional" type="xs:string" minOccurs="0"/>

6.2.79 element ParsedStreetLineDetail/StreetName

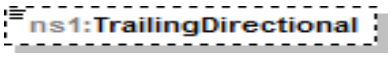
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string

properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="StreetName" type="xs:string" minOccurs="0"/>

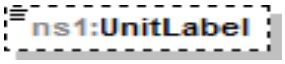
6.2.80 element ParsedStreetLineDetail/StreetSuffix

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="StreetSuffix" type="xs:string" minOccurs="0"/>

6.2.81 element ParsedStreetLineDetail/TrailingDirectional

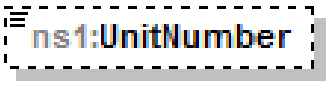
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="TrailingDirectional" type="xs:string" minOccurs="0"/>

6.2.82 element ParsedStreetLineDetail/UnitLabel

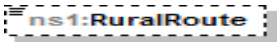
diagram	

namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="UnitLabel" type="xs:string" minOccurs="0"/>

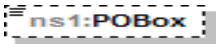
6.2.83 element ParsedStreetLineDetail/UnitNumber

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="UnitNumber" type="xs:string" minOccurs="0"/>

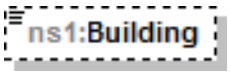
6.2.84 element ParsedStreetLineDetail/RuralRoute

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="RuralRoute" type="xs:string" minOccurs="0"/>

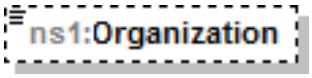
6.2.85 element ParsedStreetLineDetail/POBox

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="POBox" type="xs:string" minOccurs="0"/>

6.2.86 element ParsedStreetLineDetail/Building

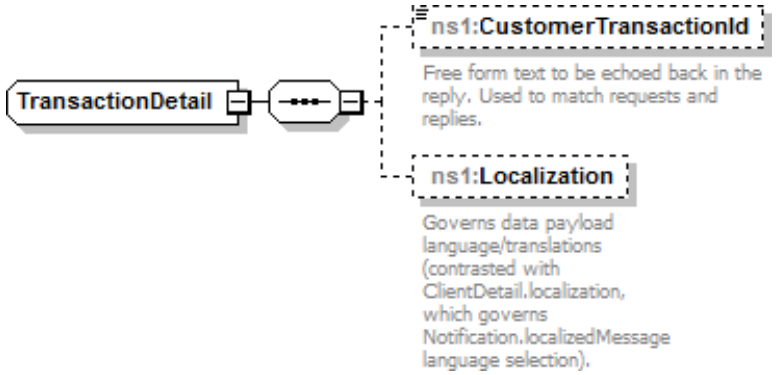
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="Building" type="xs:string" minOccurs="0"/>

6.2.87 element ParsedStreetLineDetail/Organization

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple

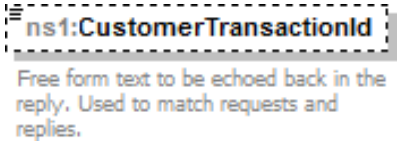
source	<xs:element name="Organization" type="xs:string" minOccurs="0"/>

6.2.88 complexType TransactionDetail

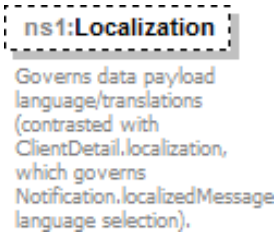
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
children	ns1:CustomerTransactionId ns1:Localization
source	<xs:complexType name="TransactionDetail"> <xs:sequence> <xs:element name="CustomerTransactionId" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Free form text to be echoed back in the reply. Used to match requests and replies.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Localization" type="ns:Localization" minOccurs="0"> <xs:annotation> <xs:documentation>Governs data payload language/translations (contrasted with ClientDetail.localization, which governs Notification.localizedMessage language selection).</xs:documentation> </xs:annotation> </xs:element> </xs:sequence>

	</xs:complexType>

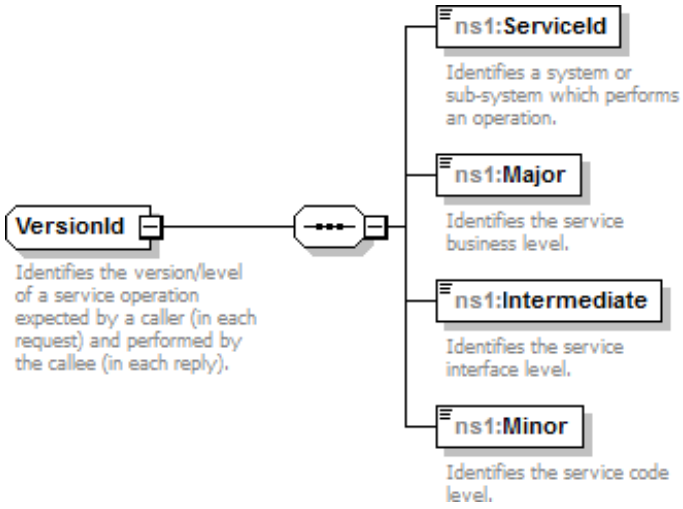
6.2.89 element TransactionDetail/CustomerTransactionId

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Free form text to be echoed back in the reply. Used to match requests and replies.
source	<xs:element name="CustomerTransactionId" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Free form text to be echoed back in the reply. Used to match requests and replies.</xs:documentation> </xs:annotation> </xs:element>

6.2.90 element TransactionDetail/Localization

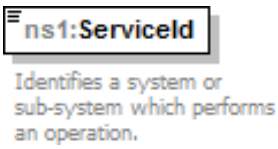
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:Localization
properties	minOcc 0 maxOcc 1
annotation	documentation Governs data payload language/translations (contrasted with ClientDetail.localization, which governs Notification.localizedMessage language selection).
source	<xs:element name="Localization" type="ns:Localization" minOccurs="0"> <xs:annotation> <xs:documentation>Governs data payload language/translations (contrasted with ClientDetail.localization, which governs Notification.localizedMessage language selection).</xs:documentation> </xs:annotation> </xs:element>

6.2.91 complexType VersionId

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
children	ns1:ServiceId ns1:Major ns1:Intermediate ns1:Minor
annotation	documentation Identifies the version/level of a service operation expected by a caller (in each request) and performed by the callee (in each reply).
source	<xs:complexType name="VersionId"> <xs:annotation> <xs:documentation>Identifies the version/level of a service operation expected by a caller (in each request) and performed by the callee (in each reply).</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="ServiceId" type="xs:string" fixed="aval" minOccurs="1"> <xs:annotation> <xs:documentation>Identifies a system or sub-system which performs an operation.</xs:documentation> </xs:annotation> </xs:element>

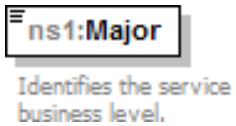
	<xs:element name="Major" type="xs:int" fixed="4" minOccurs="1"> <xs:annotation> <xs:documentation>Identifies the service business level.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Intermediate" type="xs:int" fixed="0" minOccurs="1"> <xs:annotation> <xs:documentation>Identifies the service interface level.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Minor" type="xs:int" fixed="0" minOccurs="1"> <xs:annotation> <xs:documentation>Identifies the service code level.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

6.2.92 element VersionId/ServiceId

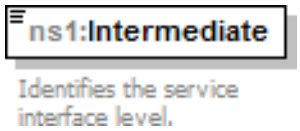
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	content simple fixed aval
annotation	documentation

	Identifies a system or sub-system which performs an operation.
source	<xs:element name="ServiceId" type="xs:string" fixed="aval" minOccurs="1"> <xs:annotation> <xs:documentation>Identifies a system or sub-system which performs an operation.</xs:documentation> </xs:annotation> </xs:element>

6.2.93 element VersionId/Major

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:int
properties	content simple fixed 4
annotation	documentation Identifies the service business level.
source	<xs:element name="Major" type="xs:int" fixed="4" minOccurs="1"> <xs:annotation> <xs:documentation>Identifies the service business level.</xs:documentation> </xs:annotation> </xs:element>

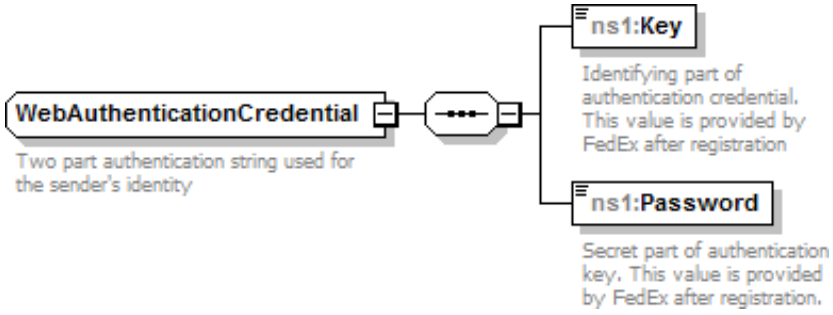
6.2.94 element VersionId/Intermediate

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:int
properties	content simple fixed 0
annotation	documentation Identifies the service interface level.
source	<xs:element name="Intermediate" type="xs:int" fixed="0" minOccurs="1"> <xs:annotation> <xs:documentation>Identifies the service interface level.</xs:documentation> </xs:annotation> </xs:element>

6.2.95 element VersionId/Minor

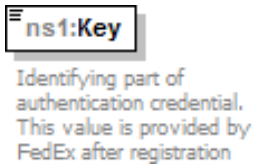
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:int
properties	content simple fixed 0
annotation	documentation Identifies the service code level.
source	<xs:element name="Minor" type="xs:int" fixed="0" minOccurs="1"> <xs:annotation> <xs:documentation>Identifies the service code level.</xs:documentation> </xs:annotation> </xs:element>

6.2.96 complexType WebAuthenticationCredential

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
children	ns1:Key ns1:Password
annotation	documentation Two part authentication string used for the sender's identity

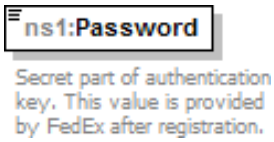
source	<xs:complexType name="WebAuthenticationCredential"> <xs:annotation> <xs:documentation>Two part authentication string used for the sender's identity</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="Key" type="xs:string" minOccurs="1"> <xs:annotation> <xs:documentation>Identifying part of authentication credential. This value is provided by FedEx after registration</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Password" type="xs:string" minOccurs="1"> <xs:annotation> <xs:documentation>Secret part of authentication key. This value is provided by FedEx after registration.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

6.2.97 element WebAuthenticationCredential/Key

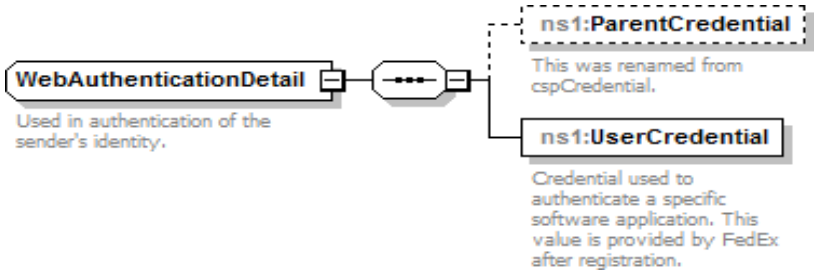
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	content simple

annotation	documentation Identifying part of authentication credential. This value is provided by FedEx after registration
source	<xs:element name="Key" type="xs:string" minOccurs="1"> <xs:annotation> <xs:documentation>Identifying part of authentication credential. This value is provided by FedEx after registration</xs:documentation> </xs:annotation> </xs:element>

6.2.98 element WebAuthenticationCredential/Password

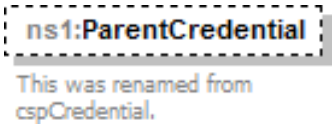
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	xs:string
properties	content simple
annotation	documentation Secret part of authentication key. This value is provided by FedEx after registration.
source	<xs:element name="Password" type="xs:string" minOccurs="1"> <xs:annotation> <xs:documentation>Secret part of authentication key. This value is provided by FedEx after registration.</xs:documentation> </xs:annotation> </xs:element>

6.2.99 complexType WebAuthenticationDetail

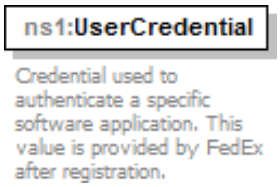
diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
children	ns1:ParentCredential ns1:UserCredential
annotation	documentation Used in authentication of the sender's identity.
source	<xs:complexType name="WebAuthenticationDetail"> <xs:annotation> <xs:documentation>Used in authentication of the sender's identity.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="ParentCredential" type="ns:WebAuthenticationCredential" minOccurs="0"> <xs:annotation> <xs:documentation>This was renamed from cspCredential.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="UserCredential" type="ns:WebAuthenticationCredential" minOccurs="1"> <xs:annotation> <xs:documentation>Credential used to authenticate a specific software application. This value is provided by FedEx after registration.</xs:documentation> </xs:annotation>

	</xs:element> </xs:sequence> </xs:complexType>

6.2.100 element WebAuthenticationDetail/ParentCredential

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:WebAuthenticationCredential
properties	minOcc 0 maxOcc 1
annotation	documentation This was renamed from cspCredential.
source	<xs:element name="ParentCredential" type="ns:WebAuthenticationCredential" minOccurs="0"> <xs:annotation> <xs:documentation>This was renamed from cspCredential.</xs:documentation> </xs:annotation> </xs:element>

6.2.101 element WebAuthenticationDetail/UserCredential

diagram	
namespace	http://fedex.com/ws/addressvalidation/v4
type	ns:WebAuthenticationCredential
annotation	documentation Credential used to authenticate a specific software application. This value is provided by FedEx after registration.
source	<xs:element name="UserCredential" type="ns:WebAuthenticationCredential" minOccurs="1"> <xs:annotation> <xs:documentation>Credential used to authenticate a specific software application. This value is provided by FedEx after registration.</xs:documentation> </xs:annotation> </xs:element>

6.3 Simple Types

6.3.1 simpleType AutoConfigurationType

<table>
<tr><td>namespace</td><td>http://fedex.com/ws/addressvalidation/v4</td></tr>
<tr><td>type</td><td>restriction of xs:string</td></tr>
<tr><td>properties</td><td>base xs:string</td></tr>
<tr><td>facets</td><td>
<table>
<tr><th>KIND</th><th>VALUE</th><th>ANNOTATIONS</th></tr>
<tr><td>enumeration</td><td>ENTERPRISE</td><td></td></tr>
<tr><td>enumeration</td><td>SHIPPIING_SERVICE_PROVIDER</td><td></td></tr>
<tr><td>enumeration</td><td>SOFTWARE_ONLY</td><td></td></tr>
<tr><td>enumeration</td><td>TRADITIONAL</td><td></td></tr>
</table>
</td></tr>
<tr><td>source</td><td><xs:simpleType name="AutoConfigurationType"> <xs:restriction base="xs:string"> <xs:enumeration value="ENTERPRISE"/> <xs:enumeration value="SHIPPING_SERVICE_PROVIDER"/> <xs:enumeration value="SOFTWARE_ONLY"/> <xs:enumeration value="TRADITIONAL"/> </xs:restriction> </xs:simpleType>></td></tr>
</table>

6.3.2 simpleType FedExAddressClassificationType

<table>
<tr><td>namespace</td><td>http://fedex.com/ws/addressvalidation/v4</td></tr>
<tr><td>type</td><td>restriction of xs:string</td></tr>
<tr><td>properties</td><td>base xs:string</td></tr>
<tr><td>facets</td><td>
<table>
<tr><th>KIND</th><th>VALUE</th><th>ANNOTATIONS</th></tr>
<tr><td>enumeration</td><td>BUSINESS</td><td></td></tr>
<tr><td>enumeration</td><td>MIXED</td><td></td></tr>
<tr><td>enumeration</td><td>RESIDENTIAL</td><td></td></tr>
<tr><td>enumeration</td><td>UNKNOWN</td><td></td></tr>
</table>
</td></tr>
<tr><td>annotation</td><td>documentation

Specifies the address classification (Business vs. Residential)</td></tr>
<tr><td>source</td><td><xs:simpleType name="FedExAddressClassificationType"> <xs:annotation> <xs:documentation>Specifies the address classification (business vs. residential)</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="BUSINESS"/> <xs:enumeration value="MIXED"/> <xs:enumeration value="RESIDENTIAL"/>

<xs:enumeration value="UNKNOWN"/> </xs:restriction> </xs:simpleType></td></tr>
</table>

6.3.3 simpleType NotificationSeverityType

namespace	http://fedex.com/ws/addressvalidation/v4
type	restriction of **xs:string**
properties	base xs:string
facets	

KIND	VALUE	ANNOTATIONS
enumeration	ERROR	
enumeration	FAILURE	
enumeration	NOTE	
enumeration	SUCCESS	
enumeration	WARNING	

source

```
<xs:simpleType name="NotificationSeverityType"> <xs:restriction base="xs:string"> <xs:enumeration value="ERROR"/> <xs:enumeration value="FAILURE"/> <xs:enumeration value="NOTE"/> <xs:enumeration value="SUCCESS"/> <xs:enumeration value="WARNING"/> </xs:restriction> </xs:simpleType>
```

6.3.4 simpleType OperationalAddressStateType

namespace	http://fedex.com/ws/addressvalidation/v4
type	restriction of **xs:string**
properties	base xs:string
facets	

KIND	VALUE	ANNOTATIONS
enumeration	NORMALIZED	
enumeration	RAW	
enumeration	STANDARDIZED	

facets	documentation Specifies how different the address returned is from the address provided. This difference can be because the address is cannonialised to match the address specification standard set by USPS.
source	<xs:simpleType name="OperationalAddressStateType"> <xs:annotation> Schema Details FedEx Web Services, Address Validation Service 2018 98 Components Description <xs:documentation>Specifies how different the address returned is from the address provided. This difference can be because the address is cannonialised to match the address specification standard set by USPS.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="NORMALIZED"/> <xs:enumeration value="RAW"/> <xs:enumeration value="STANDARDIZED"/> </xs:restriction> </xs:simpleType>