Sprint Web Services User Guide

QueryCsaService

Version: 2.3

Date: 03/25/2012

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Audience

This document is designed to help Web Services consumers and application developers integrate their applications with Sprint Web Services. It details the functional and technical aspects of the Web Service interface, including the technologies utilized, the security approach, error handling procedures, and available support options.

Revision History

Date	Version	Description	Author
04/05/2010	1.0	EAI Interface Specs	EAI Design Team
04/06/2010	1.0	Web Service User Guide	Karen Kassner
06/07/2011	2.0	Updated Production Support team info	Kedar Deo
06/17/2011	2.1	Updated to 2011 format	Marcos V. Gialdi
11/18/2011	2.2	Added QueryCsaV2 operation	Fernando C. Filho
03/25/2012	2.3	Updated Contact Information	Fernando C. Filho

Contact Information

Source	Description	Email
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1 Service Overview

The QueryCsaService includes the following operations:

Operation	Description
QueryCsa	Provides CSA (Coverage Service Area) information given location information as input
QueryCsaV2	Provides CSA (Coverage Service Area) information for a given location information as input.

2 Web Service Operation Details

The QueryCsaService contains the following operations:

- QueryCsa
- QueryCsaV2

NOTE: Operations with enumerated types are case-sensitive and in some cases restricted. Values must match exactly as documented in the WSDL.

The following sections contain the details of each of these operations, including documentation on every input and output parameter.

They also contain sample SOAP request and response messages. Note that they are filled with test data that is unlikely to be available after publication of this document. Note also that these samples are unsigned (for readability), and actual messages sent to and returned from Sprint's Web Services Gateway should contain the Web Services Security element (<wsse:Security>) inside the SOAP Header (<soapenv:Header>).

2.1 QueryCsa

The queryCsa component provides CSA (Coverage Service Area) information given location information as input.

2.1.1 Input Parameters

The input request to QueryCsa API consists of two parts, the WSMessageHeader V2 and the request data structure

trackingMessageHeader

Name	Details	Descriptions
consumerId	Required	The ID of the corporate entity or business unit from which this message originated (e.g. Corporation code or Portal applId).
applicationId	Required	The ID of the application within the corporate entity from which this message originated.
messageId	Required	A unique identifier for this message, to enable tracking, reporting, and correlation.
conversationId	Optional	Each message is part of a conversation between two or more systems in a given session. The Conversation ID is a UID, which can be used to group all messages exchanged within a session. This is field is primarily used for tracking, reporting, root-cause-analysis, and non-repudiation.
timeToLive	Required	Specifies how long in seconds this message is relevant after the message timestamp. The calling application can time-out after 'timeToLive' seconds.
messageDateTimeStamp	Required	The dateTimeStamp of when the message was created. This can be used for tracking and reporting and also by the consuming application to determine if the message is stale.

All front-ends must send a consistent value in MessageHeader structure in the API request message. This is the only way to identify which application is calling the API. This structure will be used for analysis, reporting and troubleshooting purposes. MessageHeader will start to be validated in future releases.

queryCsaRequest

Field Name	Description	Details
geoCode	Type of geocoding to perform. Valid values are ExactAddress, CrossStreet, Zip, CityState, International	Required
street	Street address (address number may be omitted for cross-street searches)	Optional
xStreet	Cross street of intersection	Optional
city	City name	Optional
state	State abbreviation	Optional
zip.uspsPostalCode	Postal code	Optional
zip.uspsPostalCodeExtension	Postal Code extension	Optional
country	Country	Optional

2.1.2 Output Parameters

Name	Values	Details	Descriptions
Faultcode	Fault code, e.g. “Client.804	20	String
Faultstring	Fault reason text e.g., “Server 804: System Exception”.	100	String
Faultactor	Shall have the MessageNumber returned from Amdocs for an exception	10	String
Detail	Contains the error detail text.	n/a	Structure

queryCsaResponse

Field Name	Description	Details
street	Input street address (address number may be omitted for cross-street searches)	Optional
xStreet	Input cross-street	Optional
city	Input City name	Optional
state	Input State abbreviation	Optional
zip.uspsPostalCode	Postal Code	Optional
zip.uspsPostalCodeExtension	Postal Code Extension	Optional
country	Input Country name	Optional
longitude	Longitude of search result	Optional
latitude	Latitude of search result	Optional
confidence	Indicates level of match that was found searching for the input address	Optional
Csa	CSA located at input address	Optional
is3g	Indicates 3G coverage was found at input address	Optional
Evdo	Indicates EVDO coverage was found at input address	Optional
Iden	Indicates iDEN coverage was found at input address	Optional
Hyrbrid	Indicates PowerSource coverage was found at input address	Optional
coverageQualityCdma	Indicates the strength of CDMA coverage found at the input address	Optional
coverageQualityIden	Indicates the strength of iDEN coverage found at the input address	Optional
roamDigital	Indicates digital roaming coverage was found at input address	Optional
roamAnalog	Indicates analog roaming coverage was found at input address	Optional

upcomingCoverageCdma	Indicates new CDMA towers are scheduled to be activated in near the input address in the next 120 days	Optional
upcomingCoverageIden	Indicates new iDEN towers are scheduled to be activated in near the input address in the next 120 days	Optional
Npa	Reference land-line NPA	Optional
Nxx	Reference land-line NXX	Optional
affiliateName	Owner of coverage found at input address (name of affiliate if not Sprint PCS)	Optional

2.1.3 Sample Request Message

```
<soapenv:Envelope
   xmlns:soapenv = "http://schemas.xmlsoap.org/soap/envelope/"
   xmlns:v2 = "http://integration.sprint.com/common/header/WSMessageHeader/v2"
   xmlns:quer = "http://integration.sprint.com/interfaces/QueryCsa/v1/QueryCsaEnvelope.xsd">
   <soapenv:Header>
      <v2:wsMessageHeader>
         <v2:trackingMessageHeader>
            <v2:applicationId>7UL</v2:applicationId>
            <v2:applicationUserId>user123</v2:applicationUserId>
            <v2:consumerId>7UL</v2:consumerId>
            <v2:messageId>123</v2:messageId>
            <v2:timeToLive>30</v2:timeToLive>
            <v2:messageDateTimeStamp>2011-06-21T00:10:55.0552-07:00</v2:messageDateTimeStamp>
         </v2:trackingMessageHeader>
      </v2:wsMessageHeader>
   </soapenv:Header>
   <soapenv:Body>
      <quer:queryCsa>
         <quer:geoCode>ExactAddress</quer:geoCode>
         <quer:street>Sprint Parkway</quer:street>
         <quer:city>Overland Park</quer:city>
         <quer:state>KS</quer:state>
         <quer:zip>
            <quer:uspsPostalCd>66211</quer:uspsPostalCd>
         </quer:zip>
         <quer:country>USA</quer:country>
      </quer:queryCsa>
   </soapenv:Body>
</soapenv:Envelope>
```

2.1.4 Sample Response Message

```
<SOAP-ENV:Envelope
   xmlns:SOAP-ENC = "http://schemas.xmlsoap.org/soap/encoding/"
   xmlns:SOAP-ENV = "http://schemas.xmlsoap.org/soap/envelope/"
   xmlns:xsd = "http://www.w3.org/2001/XMLSchema"
   xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance">
   <SOAP-ENV:Header>
      <m:wsMessageHeader xmlns:m = "http://integration.sprint.com/common/header/WSMessageHeader/v2">
         <m:trackingMessageHeader>
            <m:applicationId>7UL</m:applicationId>
            <m:applicationUserId>user123</m:applicationUserId>
            <m:consumerId>7UL</m:consumerId>
            <m:messageId>123</m:messageId>
            <m:conversationId/>
            <m:timeToLive>30</m:timeToLive>
            <m:replyCompletionCode>0</m:replyCompletionCode>
            <m:messageDateTimeStamp>2011-11-18T16:52:22-06:00</m:messageDateTimeStamp>
         </m:trackingMessageHeader>
      </m:wsMessageHeader>
   </SOAP-ENV:Header>
   <SOAP-ENV:Body
      wsu:Id = "Body-602999b2-95a3-41bd-816c-585f086e661f"
      xmlns:wsu = "http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
      <ns0:queryCsaResponse xmlns:ns0 =
"http://integration.sprint.com/interfaces/QueryCsa/v1/QueryCsaEnvelope.xsd">
         <ns0:street>Sprint Parkway</ns0:street>
         <ns0:city>Overland Park</ns0:city>
         <ns0:state>KS</ns0:state>
         <ns0:zip>
            <ns0:uspsPostalCd>66211</ns0:uspsPostalCd>
         </ns0:zip>
         <ns0:country>USA</ns0:country>
         <ns0:longitude>-94.654995</ns0:longitude>
         <ns0:latitude>38.920717</ns0:latitude>
         <ns0:confidence>S4HPNTS-ZA</ns0:confidence>
         <ns0:csa>KCYKCK913</ns0:csa>
         <ns0:is3g>true</ns0:is3g>
         <ns0:evdo>true</ns0:evdo>
         <ns0:iden>true</ns0:iden>
         <ns0:hybrid>true</ns0:hybrid>
         <ns0:coverageQualityCdma>Best Coverage</ns0:coverageQualityCdma>
         <ns0:coverageQualityIden>Best Coverage</ns0:coverageQualityIden>
         <ns0:roamDigital>true</ns0:roamDigital>
         <ns0:UpcomingCoverageCdma>false</ns0:UpcomingCoverageCdma>
         <ns0:UpcomingCoverageIden>false</ns0:UpcomingCoverageIden>
         <ns0:npa>913</ns0:npa>
         <ns0:nxx>253</ns0:nxx>
         <ns0:affiliateName>Sprint PCS</ns0:affiliateName>
      </ns0:queryCsaResponse>
   </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.2 QueryCsaV2

This API provides CSA (Coverage Service Area) information for a given location information as input.

2.2.1 Input Parameters

The input request to QueryCsaV2 API consists of two parts, the WSMessageHeader V2 and the request data structure

trackingMessageHeader

Name	Details	Descriptions
consumerId	Required	The ID of the corporate entity or business unit from which this message originated (e.g. Corporation code or Portal applId).
applicationId	Required	The ID of the application within the corporate entity from which this message originated.
messageId	Required	A unique identifier for this message, to enable tracking, reporting, and correlation.
conversationId	Optional	Each message is part of a conversation between two or more systems in a given session. The Conversation ID is a UID, which can be used to group all messages exchanged within a session. This is field is primarily used for tracking, reporting, root-cause-analysis, and non-repudiation.
timeToLive	Required	Specifies how long in seconds this message is relevant after the message timestamp. The calling application can time-out after 'timeToLive' seconds.
messageDateTimeStamp	Required	The dateTimeStamp of when the message was created. This can be used for tracking and reporting and also by the consuming application to determine if the message is stale.

All front-ends must send a consistent value in MessageHeader structure in the API request message. This is the only way to identify which application is calling the API. This structure will be used for analysis, reporting and troubleshooting purposes. MessageHeader will start to be validated in future releases.

queryCsaV2

Field Name	Description	Details
geoCode	Type of Geo Coding to perform.	String enum ExactAddress, CrossStreet, Zip, CityState, International Required
street	Street address (address number may be omitted for cross-street searches)	35 String Optional
xStreet	Cross street of intersection	99 String Optional
city	City name	49 String Optional
state	State abbreviation	2 String Optional
zip	Structure holding the zip code 5+4	Structure Optional
country	Country	40 String Optional

zip

Field Name	Description	Details
uspsPostalCode	Postal code	5 String Required
uspsPostalCodeExtension	Postal Code extension (Plus 4)	4 String Optional

2.2.2 Output Parameters

Name	Values	Details	Descriptions
Faultcode	Fault code, e.g. “Client.804	20	String
Faultstring	Fault reason text e.g., “Server 804: System Exception”.	100	String
Faultactor	Shall have the MessageNumber returned from Amdocs for an exception	10	String
Detail	Contains the error detail text.	n/a	Structure

queryCsaV2Response

Field Name	Description	Details
street	Street address (address number may be omitted for cross-street searches)	35 String Optional
xStreet	Cross street of intersection	99 String Optional
city	City name	49 String Optional
state	State abbreviation	2 String Optional
zip	Structure holding the zip code 5+4	structure Optional
country	Country	40 String Optional
longitude	Longitude of search result	totalDig: 17 fracDig:14 Decimal -180 to 180 Optional
latitude	Latitude of search result	totalDig: 17 fracDig:14 Decimal -90 to 90 Optional
confidence	Indicates level of match that was found	15

	searching for the input address	String Optional
csa	CSA located at input address	10 string Optional
cdmaInd	Indicated CDMA coverage was found at the input address	5 Boolean true, false Optional
wiMaxInd	Indicates WiMAX coverage was found at input address	5 Boolean true, false Optional
lteInd	Indicates LTE coverage was found at input address	5 Boolean true, false Optional
evdoInd	Indicates EVDO coverage was found at input address	5 Boolean true, false Optional
idenInd	Indicates iDEN coverage was found at input address	5 Boolean true, false Optional
hppttInd	Indicates qchat (Direct Connect on Sprint) coverage was found at input address	5 Boolean true, false Optional
airaveConsumerInd	Indicates input address is within the coverage area for consumer Airave devices	5 Boolean true, false Optional
airaveEnterpriseInd	Indicates input address is within the coverage area for enterprise Airave (eFemto) devices	5 Boolean true, false Optional
hyrbridInd	Indicates PowerSource coverage was found at input address	5 Boolean true, false Optional
coverageQualityCdma	Indicates the strength of CDMA coverage found at the input address	String enum

		Best Coverage, Good Coverage, Fair Coverage, No Coverage Optional
coverageQualityIden	Indicates the strength of iDEN coverage found at the input address	String Enum Best Coverage, Good Coverage, Fair Coverage No Coverage Optional
coverageQualityWiMax	Indicates the strength of 4G coverage found at the input address	20 String in building on street no Optional
coverageQualityLte	Indicates the strength of 4G coverage found at the input address	20 String in building on street no Optional
roamDigitalInd	Indicates digital roaming coverage was found at input address	5 Boolean true, false Optional
upcomingCoverageCdmaInd	Indicates new CDMA towers are scheduled to be activated in near the input address in the next 120 days	5 Boolean true, false Optional
upcomingCoverageIdenInd	Indicates new iDEN towers are scheduled to be activated in near the input address in the next 120 days	5 Boolean true, false Optional
npa	Reference land-line NPA	3 string Optional
nxx	Reference land-line NXX	3 string Optional
affiliateName	Owner of coverage found at input address (name of affiliate if not Sprint PCS)	60 string Optional

zip

Field Name	Description	Details
uspsPostalCode	Postal code	5 String Required
uspsPostalCodeExtension	Postal Code extension (Plus 4)	4 String Optional

2.2.3 Sample Request Message

```
<soapenv:Envelope
   xmlns:soapenv = "http://schemas.xmlsoap.org/soap/envelope/"
   xmlns:v2 = "http://integration.sprint.com/common/header/WSMessageHeader/v2"
   xmlns:quer = "http://integration.sprint.com/interfaces/queryCsa/v2/queryCsaV2.xsd">
   <soapenv:Header>
      <v2:wsMessageHeader>
         <v2:trackingMessageHeader>
            <v2:applicationId>7UL</v2:applicationId>
            <v2:applicationUserId>user123</v2:applicationUserId>
            <v2:consumerId>7UL</v2:consumerId>
            <v2:messageId>123</v2:messageId>
            <v2:timeToLive>30</v2:timeToLive>
            <v2:messageDateTimeStamp>2011-06-21T00:10:55.0552-07:00</v2:messageDateTimeStamp>
         </v2:trackingMessageHeader>
      </v2:wsMessageHeader>
   </soapenv:Header>
   <soapenv:Body>
      <quer:queryCsaV2>
         <quer:geoCode>ExactAddress</quer:geoCode>
         <quer:street>Sprint Parkway</quer:street>
         <quer:city>Overland Park</quer:city>
         <quer:state>KS</quer:state>
         <quer:zip>
            <quer:uspsPostalCd>66211</quer:uspsPostalCd>
         </quer:zip>
         <quer:country>USA</quer:country>
      </quer:queryCsaV2>
   </soapenv:Body>
</soapenv:Envelope>
```

2.2.4 Sample Response Message

```
<SOAP-ENV:Envelope
   xmlns:SOAP-ENC = "http://schemas.xmlsoap.org/soap/encoding/"
   xmlns:SOAP-ENV = "http://schemas.xmlsoap.org/soap/envelope/"
   xmlns:xsd = "http://www.w3.org/2001/XMLSchema"
   xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance">
   <SOAP-ENV:Header>
      <m:wsMessageHeader xmlns:m =
"http://integration.sprint.com/common/header/WSMessageHeader/v2">
         <m:trackingMessageHeader>
            <m:applicationId>7UL</m:applicationId>
            <m:applicationUserId>user123</m:applicationUserId>
            <m:consumerId>7UL</m:consumerId>
            <m:messageId>123</m:messageId>
            <m:conversationId/>
            <m:timeToLive>30</m:timeToLive>
            <m:replyCompletionCode>0</m:replyCompletionCode>
            <m:messageDateTimeStamp>2011-11-18T16:24:35-06:00</m:messageDateTimeStamp>
         </m:trackingMessageHeader>
      </m:wsMessageHeader>
   </SOAP-ENV:Header>
   <SOAP-ENV:Body
      wsu:Id = "Body-e57c60f2-9404-4800-982b-33f6060b20aa"
      xmlns:wsu = "http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
      <qryCsaV2:queryCsaV2Response xmlns:qryCsaV2 =
"http://integration.sprint.com/interfaces/queryCsa/v2/queryCsaV2.xsd">
         <qryCsaV2:street>Sprint Parkway</qryCsaV2:street>
         <qryCsaV2:city>Overland Park</qryCsaV2:city>
         <qryCsaV2:state>KS</qryCsaV2:state>
         <qryCsaV2:zip>
            <qryCsaV2:uspsPostalCd>66211</qryCsaV2:uspsPostalCd>
         </qryCsaV2:zip>
         <qryCsaV2:country>USA</qryCsaV2:country>
         <qryCsaV2:longitude>-94.654995</qryCsaV2:longitude>
         <qryCsaV2:latitude>38.920717</qryCsaV2:latitude>
         <qryCsaV2:confidence>S4HPNTS-ZA</qryCsaV2:confidence>
         <qryCsaV2:csa>KCYKCK913</qryCsaV2:csa>
         <qryCsaV2:cdmaInd>true</qryCsaV2:cdmaInd>
         <qryCsaV2:wiMaxInd>true</qryCsaV2:wiMaxInd>
         <qryCsaV2:lteInd>false</qryCsaV2:lteInd>
         <qryCsaV2:evdoInd>true</qryCsaV2:evdoInd>
         <qryCsaV2:idenInd>true</qryCsaV2:idenInd>
         <qryCsaV2:hppttInd>true</qryCsaV2:hppttInd>
         <qryCsaV2:airaveConsumerInd>true</qryCsaV2:airaveConsumerInd>
         <qryCsaV2:airaveEnterpriseInd>true</qryCsaV2:airaveEnterpriseInd>
         <qryCsaV2:hybridInd>true</qryCsaV2:hybridInd>
         <qryCsaV2:coverageQualityCdma>Best Coverage</qryCsaV2:coverageQualityCdma>
         <qryCsaV2:coverageQualityIden>Best Coverage</qryCsaV2:coverageQualityIden>
         <qryCsaV2:coverageQualityWiMax>in building</qryCsaV2:coverageQualityWiMax>
         <qryCsaV2:coverageQualityLte>no</qryCsaV2:coverageQualityLte>
         <qryCsaV2:roamDigitalInd>true</qryCsaV2:roamDigitalInd>
```

```
        <qryCsaV2:upcomingCoverageCdmaInd>false</qryCsaV2:upcomingCoverageCdmaInd>
        <qryCsaV2:upcomingCoverageIdenInd>false</qryCsaV2:upcomingCoverageIdenInd>
        <qryCsaV2:npa>913</qryCsaV2:npa>
        <qryCsaV2:nxx>253</qryCsaV2:nxx>
        <qryCsaV2:affiliateName>Sprint PCS</qryCsaV2:affiliateName>
      </qryCsaV2:queryCsaV2Response>
   </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.3 Error Handling

Sprint's approach to error handling is to maximize transparency for all exceptional conditions and minimize the occurrence of "under the radar" errors, thus encouraging improved data quality and rapid error resolution. In support of this philosophy, all exceptional or out-of-band responses, including error responses for Sprint's Web Services will be returned as SOAP Faults conforming to the SOAP 1.1 specification.

SOAP 1.1 allows for customization of the details element to carry implementation-specific fault information. The XML schema ErrorDetails.xsd defines the customization used by Sprint and is also presented in this document.

SOAP 1.1 defines a required fault code element that is used to communicate the codified error. The spec also defines four major fault code categories that can be extended by applications using a dot-delimited format. These are major fault code categories are:

- VersionMismatch
- MustUnderstand
- Client
- Server

The WS-I Basic Profile 1.1 restricts this extension capability by disallowing use of the dot-delimited notation for the faults in the soapenv namespace (http://schemas.xmlsoap.org/soap/envelope/). The Basic Profile does, however, allow for the use of dot-delimited faultcodes provided that the fault codes are NOT in the soapenv namespace.

3 Error Information

There are a number of SOAP Faults commonly returned from Sprint's Web Services Gateway. These are generally configuration issues and usually easily resolved.

Code	Message	Description	Action
env:Client	Rejected by Policy	Rejected by Policy (from client)	Ensure that the request Soap message is signed with the certificate that was used during the beta integration and that any additional authentication fields (if required) are populated correctly. If yes, then contact your EWS contact.
General	Internal error	Internal errors may be due to various reasons such as a schema validation error or due to an outage.	Ensure that the correct service URL is being utilized. If so contact your EWS contact.

3.1 Service-Specific Errors

This interface can generate standard SOAP exceptions as defined by the SOAP specification. In addition, the service itself can also generate certain exceptions that will be communicated via the SOAP Fault construct. The fault string/Text is dependent on the exact error encountered.

Code	Message	Description
Client.701	Data not found	Used only in cases where the data specifically requested by the front end is not found. If some other data is not found while performing an ancillary query as part of the API logic, It will throw Server.704 or simply return successfully without returning the elements associated with the query.
Server.702	Database error	Used when an error (e.g., an ORA-* exception) from a database access is received.
Server.703	Multiple records found	Used when multiple records are found when only one is expected.
Server.704	Application processing error	Used for application processing errors as well as most backend exceptions.
Client.705	Input validation error	Includes XSD schema errors as well as code-checked validations.
Server.706	Output validation error	Includes response XSD schema errors. Response could be generated by the backend or internal system
Client.707	Security validation error	Authentication or Authorization validation has failed
Server.803	Internal database error	Reserved for database connectivity / timeout issues.
Server.804	Communication error	Reserved for backend system connectivity / timeout issues.
Server.805	Service unavailable; experiencing high load	The transaction could not be completed due to high volume experienced by the receiving service.

4 WSDL Information

The following table lists the environments and the corresponding URL location of this of Web Service

Environment	Description
Production	https://webservicesgateway.sprint.com:444/services/wireless/account/QueryCsaService/v1?wsdl
Test RTB1	https://webservicesgatewaytest.sprint.com:444/rtb1/services/wireless/account/QueryCsaService/v1?wsdl
Test RTB2	https://webservicesgatewaytest.sprint.com:444/rtb2/services/wireless/account/QueryCsaService/v1?wsdl

5 Definitions and Acronyms

Term	Definition
XML	eXtensible Markup Language
SOAP	Simple Object Access Protocol
WSDL	Web Service Description Language
XSD	Xml Schema Definition
UDDI	Universal Description, Discovery and Integration
WSM	Web Services Management Platform
EWS	Enterprise Web Services Team
Client	The users of Sprint's Web Services, either Business Customers or Partners and Resellers

6 References

This guide assumes that the reader is conversant with XML, WSDL, SOAP and HTTP specifications. It further assumes a basic knowledge of either Java or Microsoft's.Net web service technologies. The following links provide useful background knowledge of the Web Service standards:

Term	Definition
Apache Axis 1.x, 2.x	http://ws.apache.org/axis/
HTTP	http://www.w3.org/Protocols/rfc2616/rfc2616.htm
SOAP 1.1	http://www.w3.org/TR/2000/NOTE-SOAP-20000508/
WSDL 1.1	http://www.w3.org/TR/2001/NOTE-wsdl-20010315
Web Services Security 1.0	http://www.oasis-open.org/committees/tc_home.php?wg_abbrev=wss
XML 1.1	http://www.w3.org/TR/xml11/
XML Schema 1.1	http://www.w3.org/XML/Schema
XML Schema Definition	http://www.w3.org/2001/XMLSchema.xsd

7 Feedback

Please email to WebServices@sprint.com for feedback. We are trying to make our online user guides as complete, error free, and easy to read as possible. You can help by giving us your feedback. Thank you!