



# Technical Specifications Document

Partner Data Service

(PDS) Revision #: 1.1

Last Revised: 06/08/2020

Author: VMware's Service Contract Renewals Team

**Abstract**

This document provides an understanding of VMware's Partner Data Service initiative. It provides partners an understanding of the service, the processes the service entails and benefits of subscribing to this service.

## **Table of Contents**

1.INTRODUCTION.....	4
2. WHAT IS PARTNER DATA SERVICE (PDS) FOR RENEWALS? .....	4
2.1 IB DATA SERVICES .....	4
2.2 QUOTE DATA SERVICES.....	4
2.3 “AS IS” PROCESS THAT PARTNERS PERFORM TO BOOK AN ORDER .....	5
2.4 TO BE” PROCESS THAT PARTNERS WOULD PERFORM TO BOOK AN.....	5
3. ILLUSTRATING HIGH LEVEL PROCESS FLOWS: “AS IS” AND “TO BE” .....	6
3.1. “AS IS” PROCESS FLOW FOR PARTNER TO GET A STANDARD RENEWAL QUOTE.....	6
3.2. “TO BE” PDS PROCESS FLOW FOR RESELLER TO GET A STANDARD RENEWAL QUOTE.....	6
3.3. “AS IS” PROCESS FLOW FOR RESELLER TO GET A NON-STANDARD RENEWAL QUOTE.....	7
3.4. “TO BE” PDS PROCESS FLOW FOR RESELLER TO GET A NON-STANDARD RENEWAL QUOTE.....	7
3.5 POTENTIAL BENEFITS OF USING PDS .....	8
3.6 HOW DO YOU SUBSCRIBE TO PDS? .....	8
3.7 SUBSCRIPTION PROCESS FLOW .....	9
3.8 TEMPLATE FOR ONBOARDING PARTNER FOR RENEWALS .....	9
4.PDS IB DATA THROUGH FTP .....	12
4.1 FOLDER STRUCTURE AND NAMING CONVENTION FOR IB DATA SERVICES .....	13
4.2 IB DATA ATTRIBUTES AND DESCRIPTIONS .....	13
4.2.1. IB DATA – MAIN ATTRIBUTES .....	13
4.3 IB DATA – MAIN ATTRIBUTE .....	16
4.2 ENTIRE LIST OF ATTRIBUTES .....	17
5.INTERPRETING THE DATA .....	21
6. QUOTE DATA FOR RENEWALS Through FTP .....	22
6.1 FOLDER STRUCTURE AND NAMING CONVENTION FOR QUOTE DATA THROUGH FTP .....	23
6.2 HIGH LEVEL FLOW FOR QUOTE DATA SERVICES FOR FTP .....	24
6.3 QUOTE DATA ATTRIBUTES** FOR FTP.....	25
6.3.1 QUOTE HEADER ATTRIBUTES.....	25
6.3.2 QUOTE LINE LEVEL ATTRIBUTES .....	25
6.3.3 Sample Quote file .....	26
7. QUOTE Through WEB SERVICE API .....	26
7.1 GET QUOTE PROCESS.....	27

7.1.1 STEPS TO GET QUOTE USING WEB SERVICES API CALL .....	27
7.2 TABLE OF INPUT AND RESPONSES FOR QUOTE REQUEST .....	28
8. CALL BACK URL SERVICE.....	29
9. STRUCTURE OF QUOTE DATA SERVICES .....	29
9.1 CALL BACK URL - INPUT BODY*** .....	29
9.2 CALL BACK URL - INPUT BODY SCHEMA .....	30
9.3 INTEGRATION AND SECURITY .....	30
9.4 VMWARE QUOTEBSM.....	31
9.5 VMWARE CANONICAL XSD FOR QUOTE .....	31
9.6 QUOTE CDM.XSD .....	33
9.7 DATA VALIDATIONS Validation .....	33
10. QUOTE REQUEST THROUGH WEB SERVICE CALL .....	33
10.1 INPUT PARAMETERS FOR QUOTE REQUEST THROUGH WEB SERVICE CALL.....	33
10.2 QUOTE DETAILS – OUTPUT .....	34
10.3 ERROR CODES .....	34
11. PDS QuoteService API .....	35
Stage 1: Import Environment Configuration file. ....	36
Stage 2: Import the QuoteService-test41.postman_collection.json file. ....	36
Stage 3: Edit Environment file with contract# & prmid.....	37
Stage 4: Test the collection.....	37
12.PDS API FAQs .....	39
12.1 Access & Network Security .....	39
12.2 Request Formats.....	39
12.3 Postman Collections .....	40
12.3.1 Error Codes .....	41
12.4 Validations .....	44
13. APPENDIX A.....	45
13.1 DETAIL OF WEB SERVICE API FOR QUOTES FOR RENEWALS .....	45
13.2 GET QUOTE WITH CONTRACT DETAILS.....	46
13.3 GET QUOTE WITH QUOTE DETAILS.....	48
13.4 CREATE/CONSOLIDATE QUOTE.....	50
13.5 SAMPLE REQUEST AND RESPONSE .....	56
12.5.1 GET QUOTE DETAILS REQUEST .....	56

12.5.2 GET QUOTE DETAILS RESPONSE .....	56
12.5.3. CREATE QUOTE REQUEST .....	56
12.5.4 CONSOLIDATE QUOTE REQUEST.....	56
12.5.5 CREATE/CONSOLIDATION QUOTE RESPONSE .....	56
14. APPENDIX B – QUOTE ATTRIBUTES.....	56
14.1 QUOTE HEADER ATTRIBUTES.....	56
14.2 QUOTE LINE LEVEL ATTRIBUTES .....	59
15. APPENDIX C – FILE CONTENTS .....	60
15.1 WSDL.....	60
15. 2 VMWARE QUOTEBSM.....	62
14.3 VMWARE CANONICAL XSD FOR QUOTE .....	62
16. APPENDIX D – GLOSSARY, TERMS AND ACRONYMS.....	64

## 1. INTRODUCTION

VMware contract renewals business is focused on renewing the Support and Subscription (SnS) contracts for our customers. An active SnS contract allows our customers access to updates on products they own and provides them support on product issues. VMware partners play a critical role in working with our customers to complete their contract renewal. To support the contract renewal process, VMware partners need accurate and up to date information on who the customers are, what products they own and when the SnS contracts on these products are coming up for renewal.

Today the data needed to pursue renewal transactions lie within VMware systems. VMware operations team is involved in supporting the large number of renewal transactions every quarter by providing partners IB report and quote data. Quote data provides our partners list price value for renewing a support contract. The current way of functioning has many inefficiencies.

## 2. WHAT IS PARTNER DATA SERVICE (PDS) FOR RENEWALS?

Partner Data Service for renewals is a platform that delivers install base (IB) data and quote data to partners as an automated B2B solution, empowering partners to drive the renewal process.

### 2.1 IB DATA SERVICES

Providing VMware partners a periodic and automated feed of their customer IB data on VMware FTP site. The data is provided as CSV and XML files. Initially, when partners subscribe for the service the entire IB data they are incumbent on is provided as the initial load file. Subsequently, as per the frequency desired by partner (one of weekly, monthly or quarterly) incremental data files are made available that have the new IB data and changed IB data since the previous load. These files exist in the system for a period of 180 days before they are purged from the FTP server.

### 2.2 QUOTE DATA SERVICES

Another key PDS solution is providing VMware partners an automated feed of proactively created quotes. These are quotes which are created by VMware 120 days in advance of contract expiration. These are made available as XML files on VMware's secure FTP server. Partners can consume these quotes as and when they are made available on this server and consume them into their internal systems

VMware is also building a service allowing partner systems to make quote requests through API calls and getting the quote as a system response. VMware's systems will create or consolidate the quotes automatically if needed making this a very productive and faster

method to get non-standard quotes. These quotes will exist on VMware's FTP server for a period of 123 days before they are purged.

## 2.3 "AS IS" PROCESS THAT PARTNERS PERFORM TO BOOK AN ORDER

Partners have to go through multiple steps before presenting a renewal quote to the customer.

The following are the typical steps a partner has to take before pursuing a contract renewal with our customer:

- 1.Partner makes a request for a Quote from VMware portal.
- 2 Partner logs in a day later and downloads this Quote from the portal.
- 3.Partner sends the quote to the distributor manually.
- 4.VMware distributors provide the quotes with their pricing.
- 5.Partner gets distributor quote (and pricing) and then works with the customer on the renewal.

As evident above, there are many steps in the contract renewals process before an order can be booked. The intent of Partner Data Services (PDS) is to build capabilities to bring efficiencies in VMware's contract renewals processes.

The capabilities include:

- a. Providing complete IB data that distributor is incumbent on, and periodic updates to that information to keep it current. This is done via FTP as data files. This will be done in a proactive manner for distributor to extract and consume. This enables early visibility into renewals in a systemic and automated way.
- b. Providing Quote data that distributor is incumbent on 120 days in advance of contract expiration. This will remove several hops from the above process reducing the renewal cycle time.
- c. Providing distributors, a service to get quotes via a web service in a systemic way. This service will provide quote information based on the inputs provided and will create or consolidate quotes as well.

## 2.4 TO BE" PROCESS THAT PARTNERS WOULD PERFORM TO BOOK AN ORDER USING PDS

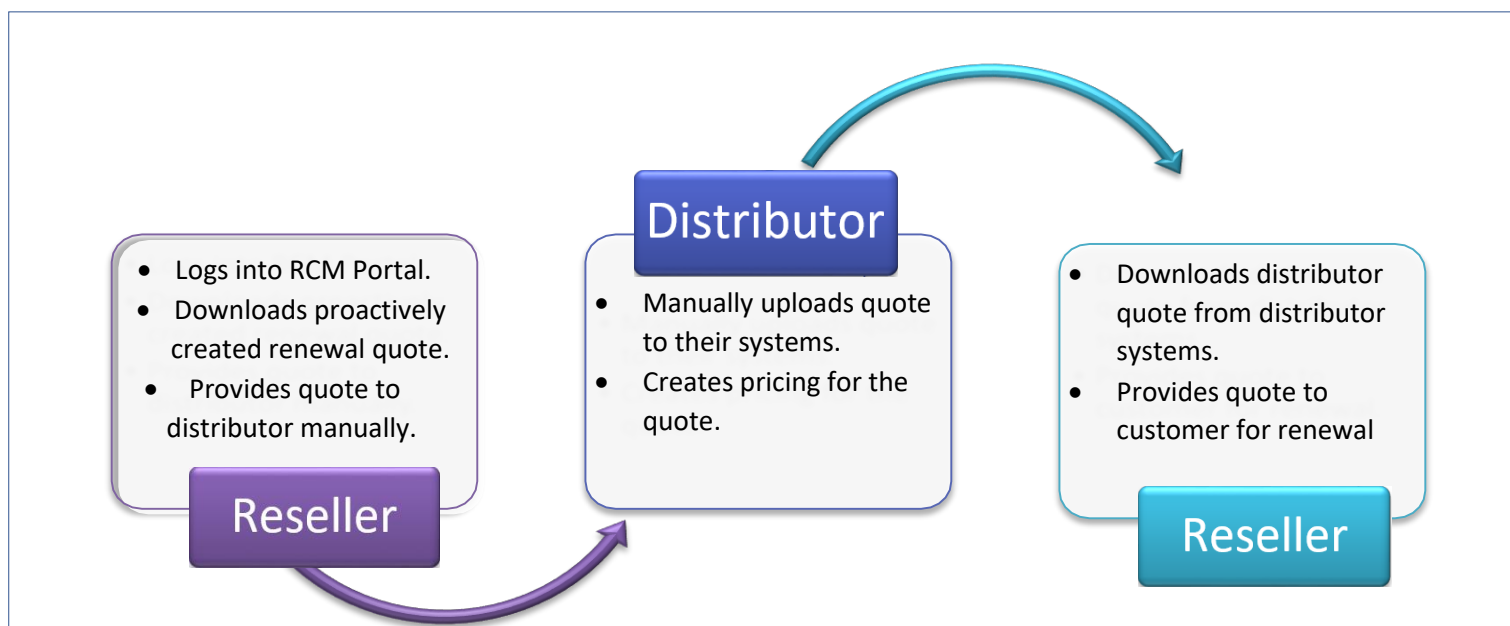
1. Distributor gets Quote data proactively from VMware.
2. Partner gets quotes for the contracts from Distributor with distributor pricing.
3. Partner gets distributor quote (and pricing) and then works with the customer on the renewal.

### 3. ILLUSTRATING HIGH LEVEL PROCESS FLOWS: “AS IS” AND “TO BE”

Quote Definitions used here –

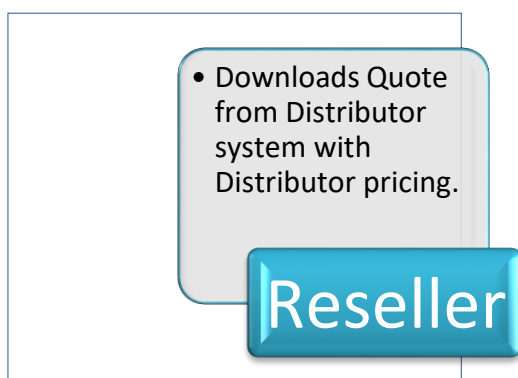
- STANDARD Quote – A quote for one contract renewal at the current support level and duration and upsell in terms of duration and support level if possible.
- NON-STANDARD Quote – Quote for all other quoting scenarios.

#### 3.1. “AS IS” PROCESS FLOW FOR PARTNER TO GET A STANDARD RENEWAL QUOTE



*fig:1 As is Process flow for PARTNER TO GET A STANDARD RENEWAL QUOTE*

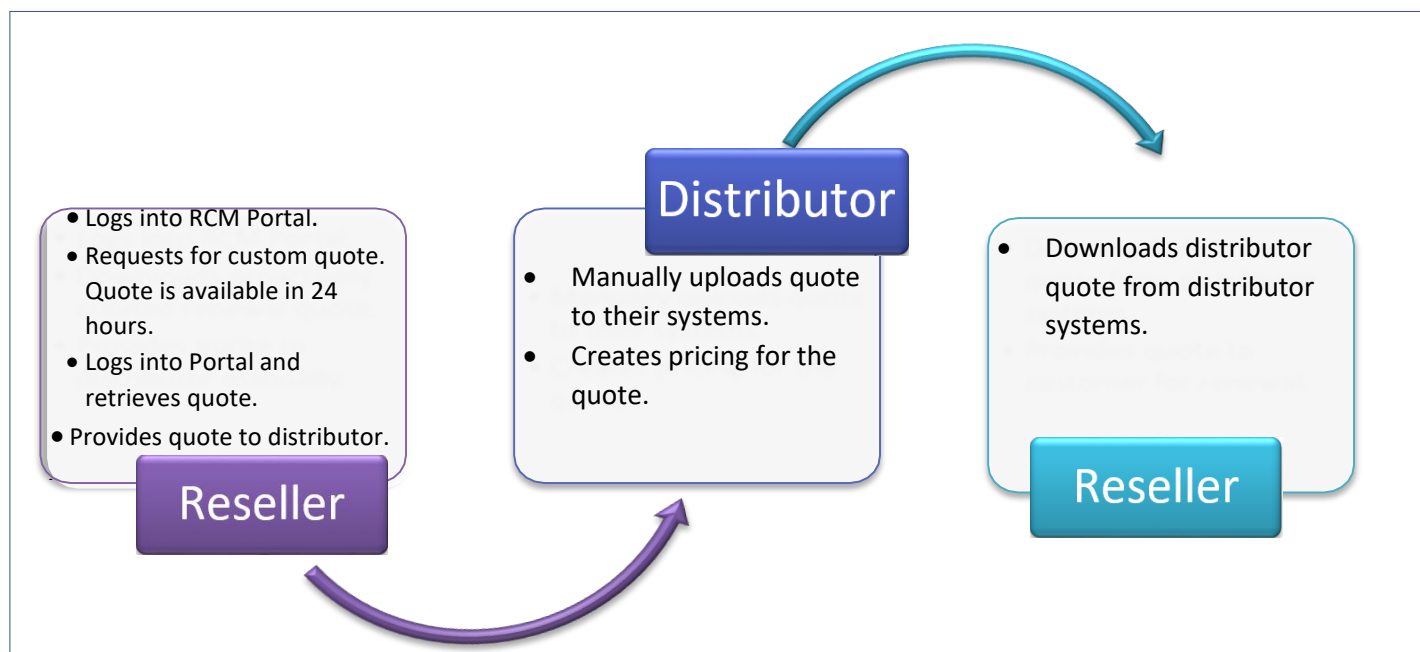
#### 3.2. “TO BE” PDS PROCESS FLOW FOR RESELLER TO GET A STANDARD RENEWAL QUOTE



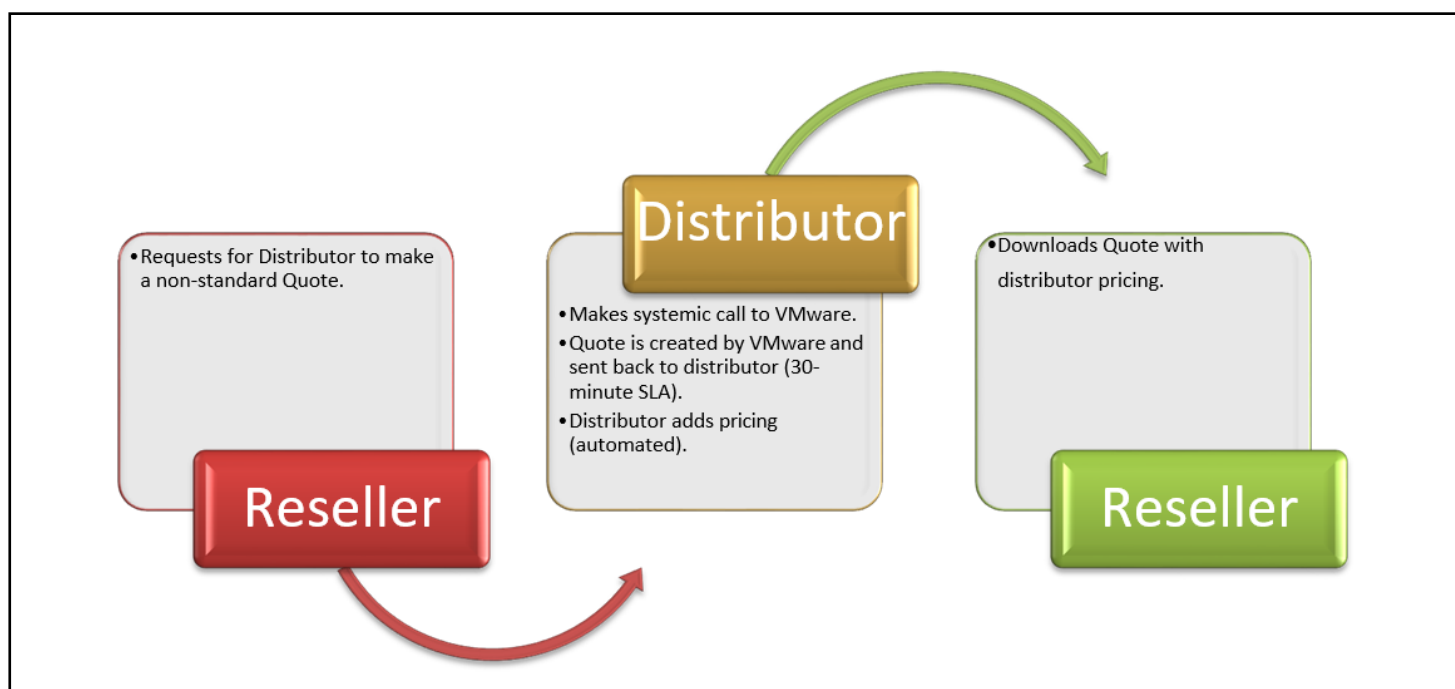
*fig:2 TO BE PDS PROCESS FLOW FOR RESELLER TO GET A STANDARD RENEWAL QUOTE*



## 3.3. “AS IS” PROCESS FLOW FOR RESELLER TO GET A NON-STANDARD RENEWAL QUOTE

*fig:3 AS IS PROCESS FLOW FOR RESELLER TO GET A NON-STANDARD RENEWAL QUOTE*

## 3.4. “TO BE” PDS PROCESS FLOW FOR RESELLER TO GET A NON-STANDARD RENEWAL QUOTE

*fig:4 TO BE PDS PROCESS FLOW FOR RESELLER TO GET A NON-STANDARD RENEWAL QUOTE*

#### Advantages –

- a. The time to get a quote is reduced from the current 48 hours to 30 minutes or less.
- b. The distributor pricing is automated and quotes readily available for Reseller for faster processing.

### 3.5 POTENTIAL BENEFITS OF USING PDS

PDS is expected to bring partners the following advantages in the contract renewal process:

- Shorter renewal sales cycles as a result of automation and proactive availability of data in a systemic way.
- Faster turnaround for customer / reseller quote requests; the response times can be up to 30 minutes for special quoting situations, but in most cases such as one to one contract renewals there will be no time lag.
- Increase in business velocity and efficiency by having fewer touch points, reducing cycle time and errors

In order for partners to derive benefits from VMware's PDS, partners need to build capabilities to automate the consumption of IB and Quote information provided via PDS, helping drive contract renewals and reduce dependency on VMware to execute on renewal transactions.

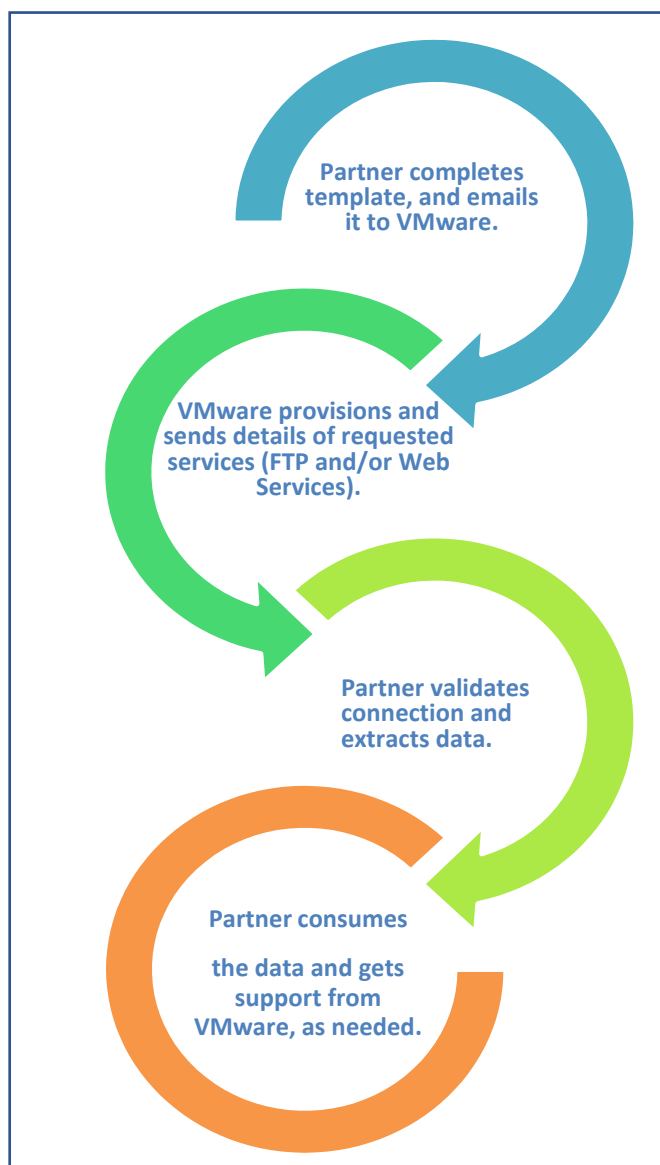
### 3.6 HOW DO YOU SUBSCRIBE TO PDS?

There is a defined process for partners to use Partner Data Service and is described below.

Fill in the template for onboarding (detailed in the "Template for Onboarding Partner for Renewals" section below) to let us know how you would like to use this service and email it to the following email ID – [PDS-RenewalSupport@vmware.com](mailto:PDS-RenewalSupport@vmware.com)

The details you provide will enable us to configure our systems for your use.

### 3.7 SUBSCRIPTION PROCESS FLOW



*fig:5* SUBSCRIPTION PROCESS FLOW

### 3.8 TEMPLATE FOR ONBOARDING PARTNER FOR RENEWALS

To sign up for Partner Data Services, please complete and email template to [PDS-RenewalSupport@vmware.com](mailto:PDS-RenewalSupport@vmware.com).

S.No	What is required from	Values	Description you?
1	Partner Name		<Enter Partner Name.>
2	Partner PRM ID		<This is PRM ID provided by VMware when partner registered with VMware.>
3	Partner Country		<This is Primary country of partner. This should match country selected at time of registration.>
4	Do you want to subscribe for IB Data Services (Deliver Option FTP)?	<Enter Yes/No>	< IB data will be uploaded to partner FTP location based on specified frequency.>
5	IB Data Services Start Date	<mmddyyyy>	<This is date on which VMware should provide initial IB data load.> Specify start date.
6	IB Data Services Frequency	(Choose one: Weekly, monthly or quarterly)	<This is Frequency at which increments/changes in IB should be updated by VMware.> Specify frequency: 1. For weekly, incremental data will be posted every seven days (+7 days). 2. For monthly, incremental data will be posted every 30 days (+30 days). 3. For quarterly, incremental data will be posted every 90 days (+90 days).
7	Do you want to subscribe for Quote Data Services (Deliver Option FTP)?	<Enter Yes/No>	< All proactive or reactive quotes where partner is incumbent will be uploaded to partner FTP location.>
8	Quote Data Services Start Date	<mmddyyyy>	<This is date on which VMware should start providing quote data.> Specify start date.
9	Do you want to subscribe for Quote Data Services (Deliver Option Web Service API)?	<Enter Yes/No>	<Web service response will have quote data as a SOAP attachment if quote is available in VMware systems. If not, then quote will be created and will be available after SLA of ~30 mins.>
10	Start Date For the Web Service API	<mmddyyyy>	<This is date on which VMware should start providing quote data.> Specify start date.
11	Do you want the web service response on the FTP location?	<Enter Yes/No>	<Web service response will be uploaded to the FTP location. Partner may want to choose this option for batch processing.>

<b>12</b>	Do you want to subscribe for Call Back URL?	<Enter Yes/No>	
<b>13</b>	Call Back URL		<This is URL where partner receives wake up call in cases of quote requests for creation or consolidation. This URL will be required if partner has subscribed to call back URL.>
<b>14</b>	Email ID for Notifications		Partner will get notified via this email whenever a new file is made available on the FTP server. This is the email address for receiving information and responses from VMware, including instruction on how to create secure key and token for Web Service API portal.

## 4.PDS IB DATA THROUGH FTP

PDS IB Data Services offer a capability that allows VMware partners access to their customer IB data by accessing VMware's secure FTP site.

Partners get access to IB instances only if they were incumbent on the last transaction on that instance. The last transaction could be a purchase – if the SnS on the license has not been renewed, or a renewal if the SnS on the license has been renewed.

When VMware system determines that a distributor is eligible to receive information about an IB instance, the system will send the distributor details about all the prior instances through which the current instance may have been created. The prior instances include the ones that were fulfilled to the current instance, and they also include the upgraded instances.

In order to receive IB data via FTP, partners need to inform VMware about their decision through an established support process. VMware will internally configure their system to provide the distributor their IB data per the configuration specs. The configuration allows partners to define the date for the initial IB load and the frequency of subsequent IB loads.

On the date of the initial IB load, the distributor will get details of IB instances on which they are incumbent. For each IB instance, its history will also be included. Later on, per established frequency, incremental loads will be provided. Incremental loads include:

- New licenses purchased after the prior load.
- Changes to the existing IB instances due to fulfillment/upgrades/license key changes etc
- Existing instances on which the distributor has now become the incumbent due to a renewal transaction.

At any time, if the system determines a distributor's eligibility for IB data, then it will make sure that all prior instances of that IB data are included as well.

IB information contains information about:

- The customer who owns that instance.
- IB instance details – the SKU, Keys (Cloud, FAC), instance number, current SnS level etc.
- Order/Contract details – the current contract that covers this instance, the original order number through which this license was purchased.

IB data on the FTP site will be provided csv and xml file formats with UTF-8 multi byte encoding and have the same layout, fields and overall format for the initial IB load file as well as all subsequent incremental IB data files.

See details of folder structure and naming convention in the next section.

the same layout, fields and overall format for the initial IB load file as well as all subsequent incremental IB data files.

See details of folder structure and naming convention in the next section.

#### 4.1 FOLDER STRUCTURE AND NAMING CONVENTION FOR IB DATA SERVICES

- Two folders will contain the IB data in partner's FTP location:
  - Full IB data: Will include one initial file with a complete snapshot of all IBs where partner is incumbent on.
  - Incremental IB data: Will include files created for each incremental load. These are added to this folder as per the configured frequency for incremental IB loads.
- VMware will use following naming convention for IB data file:

CSV| |"\_"| |<Your Organization Name>| |"\_"| |<Your PRM\_ID>| |"\_"| |SYSDATE| |"."| |csv

XML| |"\_"| |<Your Organization Name>| |"\_"| |<Your PRM\_ID>| |"\_"| |SYSDATE| |"."| |XML

- VMware will be purging the IB data file after 180 days from date of creation.

#### 4.2 IB DATA ATTRIBUTES AND DESCRIPTIONS

The following table provides the IB Data attributes that will be provided for each instance. The partner will receive all IB instances that they are incumbent on.

##### 4.2.1. IB DATA – MAIN ATTRIBUTES

IB DATA Main Attributes			
ID	Attribute Name	Description	Attribute Type
1	Instance Number	Uniquely identifies each instance of the product purchased by the customer.	9-digit numeric

<b>2</b>	Serial Number Status	Current status of IB line. E.g.: Active, Expired, Active Subscription etc.	<b>Varchar(50)</b>
<b>3</b>	Instance Group Number	Used for identifying a set of lines that are part of a bundle. The group number can also identify related IB instances when specific instances are upgraded or subscription fulfilled.	<b>Numeric</b>
<b>4</b>	Instance Type	Explains why an instance line was created. E.g.: Upgrade, Fulfillment etc.	<b>Varchar(50)</b>
<b>5</b>	Cloud Portal Key	The key for an IB instance, used by the customer and available in the MyVMware portal.	<b>Varchar(2000)</b>
<b>6</b>	Cloud Portal Key Quantity	The key quantity for the cloud portal keys	<b>Numeric</b>
<b>7</b>	License Key (FAC serial number)	The license key provided to customer after Order is booked.	<b>Varchar(240)</b>
<b>8</b>	PFF From	Use to understand the link between instance lines that were created to support subscription fulfillment.	<b>Numeric</b>
<b>9</b>	PFF To	Use to understand the link between instance lines that were created to support subscription fulfillment.	<b>Numeric</b>
<b>10</b>	Product SKU	The VMware SKU for the product purchased by the customer.	<b>Varchar(40)</b>
<b>11</b>	Upgraded Instance	The link to upgraded instance line on the Base product line.	<b>Numeric</b>
<b>12</b>	Base Instance	The link to the Base instance line on the Upgrade product line.	<b>Numeric</b>
<b>13</b>	Bundle ID	Identifies a bundle parent in an instance group.	<b>Numeric</b>
<b>14</b>	EOSL Date	End of support date for a given license SKU.	<b>Date</b>
<b>15</b>	Service SKU	Service SKU covering the product in the contract	<b>Varchar(40)</b>
<b>16</b>	Quantity	IB Quantity	<b>Numeric</b>
<b>17</b>	Instance Start Date	The contract coverage start date for the instance	<b>Date</b>
<b>18</b>	Instance End Date	The contract coverage end date for the instance	<b>Date</b>
<b>19</b>	Adjusted From	Use to understand the link between the instance lines that were created by adjustment fulfillment	<b>Numeric</b>
<b>20</b>	Adjusted To	Use to understand the link between the instance lines that were created by adjustment fulfillment.	<b>Numeric</b>
<b>21</b>	Product Description	Description of the product	<b>Varchar(240)</b>
<b>22</b>	SNS Product Description	Description of the support on the product	<b>Varchar(240)</b>
<b>23</b>	PAC Code	The PAC Code if this instance was bought through OEM redemption	<b>Varchar(240)</b>
<b>24</b>	IB EA Number	IB Owner EA Number	<b>Varchar(50)</b>
<b>25</b>	IB EA Name	IB Owner EA Name	<b>Varchar(360)</b>
<b>26</b>	SU Email	Super User email address for the IB Owner EA	<b>Varchar(2000)</b>



27	PC Email	Procurement user email address for the IB Owner EA	Varchar(2000)
28	Folder Admin Email address	Folder admin info from MyVMware. Contact of the person who is managing that particular license on MyVMware	Varchar(2000)
29	EA Segment	MyVMware customer categorization	Varchar(50)
<b>ORDER INFORMATION</b>			
30	Order Number	The original order that was used to buy this product	Varchar(22)
31	Order Date	The date the order was placed	Date
32	Upgrade Order	Upgrade order if applicable	Varchar(22)
33	Legacy Contract Number	Legacy order, if this product was bought before VMware started using Oracle	Varchar(240)
34	EPP Token Order	Related to EPP orders	Varchar(240)
35	Original PO Number	Original Purchase Order Number on the License Order	Varchar(30)
36	Renewal PO Number	Purchase Order Number on the Renewal Order	Varchar(240)
<b><u>CONTRACT INFORMATION</u></b>			
37	Reseller Name	EBS party name for the reseller	Varchar(360)
38	Contract Number	Contract number without the modifier	Varchar(120)
39	Contract Modifier	Contract Modifier	Varchar(120)
40	Contract Group	Contract Group(s)	Varchar(255)
41	Renewal Type	Contract Sub-line renewal status	Varchar(5)
42	Date Terminated	The date on which the support on this instance was terminated	Date
<b><u>IB METADATA</u></b>			
43	Quotable Flag	Has values - Yes/No	
		Tells resellers if the instance can be quoted or not e.g., bundle components will have a no, fulfilled instances will have a no.	Varchar(1)
44	Validation Status	Has the values - PASS/FAIL	

IB DATA Main Attributes			
		Tells if the instance passed all the checks. A pass with quotable flag yes can be used on a renewal quote.	<b>Varchar(10)</b>
<b>45</b>	IB Record Type	New, Update. Initial Load/Full Load will send all the records with the record type = "New". For the incremental loads if an existing IB is updated the record type = "Update" If the IB is created new the record type = "New".	<b>Varchar(10)</b>
<b>46</b>	IB Record Creation Date	Creation Date of the IB	<b>Date</b>
<b>47</b>	IB Record Last Update Date	<b>Date when the IB is last updated</b>	<b>Date</b>

#### 4.3 IB DATA – MAIN ATTRIBUTE

Please be aware of the following when consuming the data fields into your systems –

- Ensure field sizes can accommodate large field values – especially, for fields such as "Cloud Portal Key" (Can have several values separated by ";"), "PFF From", "PFF To", "Original PO Number", "Renewal PO Number".
- The values in the "State" field can have non-US state values, and so size could be more than 2 characters.
- The Zip code is non-numeric.

## 4.2 ENTIRE LIST OF ATTRIBUTES

Attribute Name		Description
1	EA Number	Customer EA number from latest contract that covers this IB instance
2	EA Name	Customer EA name from latest contract that covers this IB instance
3	Party Number	Customer party number from the latest contract that covers this instance
4	Customer Name	Customer party name from the latest contract that covers this instance
5	Customer Country	Customer country from the latest contract
6	State	State from the end customer address
7	Zip Code	Zip code from end customer address
8	Reseller Number	Party number of reseller on latest contract that covers this instance
9	Reseller Name	Party name of reseller on latest contract that covers this instance
10	Contract Number	Contract number of the latest contract that covers this instance
11	Contract Modifier	Contract modifier of the latest contract that covers this instance
12	Contract Group	Contract group of the latest contract that covers this instance. This indicates the contract is a standard contract if the value in this field is “contracts” or an ELA contract if the value is “ELA”.
13	Contract Status	ACTIVE – Valid instances, coverage expiring in the future – ContractEndDate field defines when the contract is expiring. EXPIRED – Contract End Date is less than the current date. The contract has expired (Not renewed). SIGNED – The instance is covered on a contract, but the start date of the contract is in the future. RENEWED_EXPIRED – The instance is on a contract that has expired but the customer has renewed the contract and not renewed this instance from that contract. RENEWED_ACTIVE - The instance is on a contract that is active but the customer has renewed the contract and not renewed this instance from that contract.
14	Contract Start Date	Contract header level start date , the start date of the service contract
15	Contract End Date	Contract header level end date, the end date of the service contract after which coverage will lapse and incur a reinstatement fee to Renew
16	Renewal Type	This value identifies the context of the instance from a renewal standpoint. Samples values are, “DNR” – indicates the instance has been marked as a “Do Not Renew”, “FUL” – indicates the instance is renewed for the full duration of the contract
17	Date Terminated	Value of the date terminated field from the latest contract subline that includes this instance

<b>18</b>	Instance Number	<b>Instance number from Install Base – this is a unique identifier for the instance</b>
<b>19</b>	IB EA Number	<b>EA Number of the customer who owns the IB instance</b>
<b>20</b>	IB EA Name	<b>EA Name of the customer who owns the IB instance</b>
<b>21</b>	IB Customer Name	<b>party name of the customer who owns the IB instance</b>
<b>22</b>	IB Owner Party Number	<b>Party number of the customer who owns the IB instance</b>
<b>23</b>	SU Name	<b>Last Name, First Name of the SuperUser of the EA who owns the IB instance</b>
<b>24</b>	SU Email	<b>Email of SuperUser of EA who owns IB instance</b>
<b>25</b>	PC Name	<b>Last Name, First Name of the Procurement Contact of the EA who owns the IB instance</b>
<b>26</b>	PC Email	<b>Email of the Procurement Contact of the EA who owns the IB instance</b>
<b>27</b>	Person Party Email	<b>If the contract customer is a person, this field should be populated with the email address of that person, preferably the email address used at the time of ordering or the last renewal.</b>
<b>28</b>	PFFTo	<b>If this instance has been fulfilled via the push/pull/manual fulfillment process, then this field will reflect the new instance to which this instance was fulfilled.</b>
<b>29</b>	PFFFrom	<b>If this instance was created due to push/pull/manual fulfillment process, then this field will refer to the IB instance from which this instance was fulfilled.</b>
<b>30</b>	UG To	<b>If this instance has an edition upgrade then this field would point to the new instance that this upgrade created</b>
<b>31</b>	UG From	<b>The an edition upgrade created this instance this field value will have the base instance whose upgrade resulted in this instance</b>

32	Adjusted From	If this instance was created due to adjustment fulfillment process, then this field will refer to IB instance from which this instance was fulfilled.
33	Adjusted To	If this instance was created due to adjustment fulfillment process then this field will refer to the IB instance that this instance was fulfilled from
34	Adjusted Notes	This captures notes from adjustment fulfillment process
35	Instance Group ID	This is a group ID that tells the user about related instances. Fulfilled instances will have the same group ID.
36	Bundle ID	This field value will be populated for hard bundle components; a value in this field tells us that this is a hard bundle component and hence should not be on a quote . This value is the instance number of the parent of the bundle
37	Product SKU	Item SKU that is referenced in IB instance
38	SnS SKU	The SnS SKU from the latest contract instance that covers this IB instance
39	Serial Number Status	IB instance status
40	Quantity	IB instance quantity
41	Instance Start Date	Start date from the subline of the latest contract that covers this instance.
42	Instance End Date	End date from the subline of the latest contract that covers this instance.
43	Order Number	This is original sales order that created this instance.
44	Order Date	The sales order date of the original order that created this instance.
45	Upgrade Order	If this instance was created from an upgrade order, this field will refer to upgrade order number.
46	UpgradedInstance	This field has the instance value of the upgraded instance (of the current instance). This identifies the instance the current instance was upgraded to.

47	FAC Serial Number	This refers to the license number when the initial booking happened. This is provided for partners that still use this as a reference
48	PAC Code	PAC code used if this instance was created via the OEM redemption process
49	Cloud Portal Key	Cloud license key(s) from MyVMware that relate to this IB instance. There can be more than one key in this field separated by “;”. Use maximum field size to accommodate the values in this field
50	CloudPortalKeyQuantity	Quantities associated with cloud key(s), referenced in CloudPortalKey attribute (found in row above)
51	Soft Bundle Parent IB	If this instance is part of a soft bundle, then field value here refers to parent instance of soft bundle.
52	Folder Administrator Name	Last Name, First Name of the Folder Admin on Myvmware who manages this instance
53	Folder Admin Email address	Folder Admin email address from Myvmware
54	Product Description	Description of product in VMware systems
55	SNS Product Description	Description of the SnS SKU that covers this instance in item master
56	EA Segment	MyVMware customer categorization
57	EOSL Date	EOSL date for the license SKU - if one is already populated . End of Support Life (EOSL). This refers to the last day after which VMware will not provide support for this product
58	Original PO Number	This is purchase order (PO) from original order that created this instance; for fulfilled instances, this will refer to PO that created the base instance.
59	Renewal PO Number	Purchase Order number on the last renewal
60	Quotable Flag	Values are “Y” or “N”. If “Y” (For “Yes”), then this instance can be on a renewal quote. There are several situations where this could be “N” (For “No”) – examples include, the instance being a component of a bundle, or instance being a fulfilled instance

61	EPP Token Number	If this instance was purchased via the EPP program then this will refer to the EPP token number
62	CustomerAddress	Customer address of the end customer derived from the latest PO
63	ProductCategory	MyVMware product categorization
64	ContractSubLineID	Uniquely identifies a contract sub line
65	BaseInstance	When an existing instance is upgraded to a new instance this field will have the existing instance information populated for the new instance. This is useful to identify the instance from which the upgrade happened
66	InstanceType	Identifies how the instance was created – Sample values are: “NEW” – Identifies this instance as a new instance “UPGRADE” – Identifies that the instance is the upgraded instance
67	LegacyContractNumber	Old contract number of this instance if prior to 2009, when VMware upgraded its systems. This number is provided as a reference
68	IBRecordType	Identifies if the IB instance is new in the data load or an updated instance. Can have values of “New”, “Update”. For the Initial Load/Full Load all instances will have a value of “New”. For the incremental loads if an existing IB is updated then it will have a value of “Update”. If the IB is created new the value is “New”. This will help identify new and updated instances
69	IBRecordCreationDate	IB source creation date

## 5.INTERPRETING THE DATA

Context	Description
How do we identify the hard bundle parent?	If Bundle ID field is populated, then it's a component of a bundle. The Value in the BundleID field indicates instance that is parent of Hard Bundle. For “a la carte”, Bundle ID field is null and the instance number is not present in any other Bundle ID field for any other instance.
What do the UG-SKUs mean?	A UG SKU (a SKU with ‘UG’ in it) is a temporary SKU that is created when a product is upgraded. The upgraded product is terminated and the temporary UG SKU is created. When a renewal quote is created for the UG SKU, it will be replaced with the new SKU (the upgraded product).

<b>What IBs can be on a quote?</b>	IB instances for which the quotable flag is “yes” can be renewed. In addition, the IB instances should be in the Contracts group only. The contract group is indicated in the ‘Contract Group’ field of the extract.
<b>How do you interpret contract information and use it for quote requests?</b>	Contract End Date field indicates date on which the SnS on the IB instance ends. For quotable IBs, we can renew support on the instance by renewing the contract covering that instance (contract number is indicated by contract + contract modifier).
<b>How do you read ‘group’ information of a contract?</b>	IB instances covered in ELA and standard transactions will be shared. IB instances which have contract group = ‘Contracts’ are the ones that can be renewed via the standard renewal transaction.
<b>Contract Status Values</b>	<p><b>ACTIVE</b> – Valid instances, coverage expiring in the future – ContractEndDate field defines when the contract is expiring. <b>EXPIRED</b> – Contract End Date is less than the current date. The contract has expired (Not renewed).</p> <p><b>SIGNED</b> – The instance is covered on a contract, but the start date of the contract is in the future.</p> <p><b>RENEWED_EXPIRED</b> – The instance is on a contract that has expired but the customer has renewed the contract and not renewed this instance from that contract.</p> <p><b>RENEWED_ACTIVE</b> - The instance is on a contract that is active but the customer has renewed the contract and not renewed this instance from that contract.</p>
<b>Status Values</b>	<p><b>New or Update:</b></p> <ul style="list-style-type: none"> <li>• “New” – This instance is being sent to partner for very first time.</li> <li>• “Update” – This instance has been updated as a result of transactional activity and partner is being updated with latest update information.</li> </ul>

## 6. QUOTE DATA FOR RENEWALS Through FTP

Quote data for renewals through FTP is a service for providing quote data to incumbent partners as xml files on the FTP server. The accessibility and process are very similar to the IB data via FTP. These xml files are available for a duration of 180 days. Quote data is available for partners to retrieve, via this service as soon as quote is created.

Distributors have access to all quotes on which they are incumbent. VMware creates quotes for expiring contracts with pricing information 123 days in advance of contract expiration (End date on



contract). These quotes are created with the current support level and duration. In additions, upsell versions in terms of level of service and duration are also created as part of this process. Partners that are subscribed to the quote via ftp service can get all the quotes that VMware creates from the FTP site on the day it is created.

From analysis of historical renewal trends, we know more than 50% of the renewals are single contract renewals, using this service will give you access to pricing information for renewal of all contracts that you are incumbent on. You will also get pricing of upsell options. This will be available 123 days prior to the contract expiration.

There will be one file per quote created. We will send one notification to the email address provided at the time of configuration when we load the standard quotes each day.

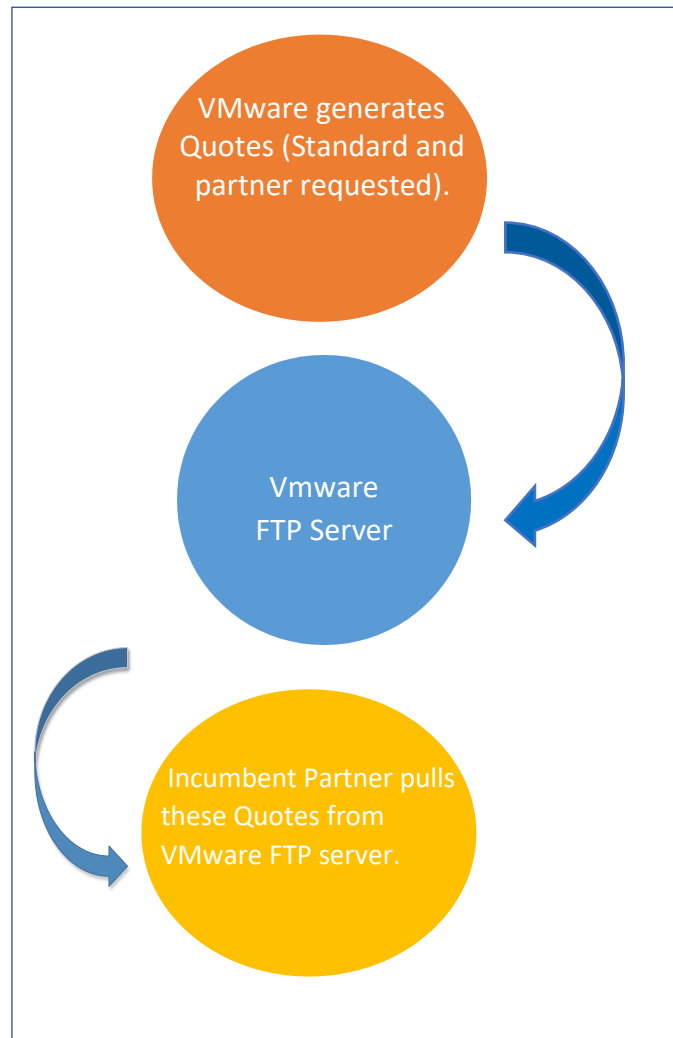
If you or your partners make requests for quotes on VMware renewals portal the corresponding quotes will be available on the FTP site as well, whenever the quote is available a notification will be sent to the email address included in the configuration file.

## 6.1 FOLDER STRUCTURE AND NAMING CONVENTION FOR QUOTE DATA THROUGH FTP

A folder will contain the Quote data in partner's FTP location:

- a. This folder will contain all quotes data as xml files (one file per quote) that the partner is incumbent on
- b. Quote revisions, consolidation quotes, custom quotes requested via the RCM portal will also be made available in this FTP location
- c. VMware uses following naming convention for Quote data file:  
QUOTENUMBER|\_|PARTNER  
NAME|\_|PRM\_ID|\_|TIMESTAMP|\_|.xml
- d. Quote data format: xml, UTF-8 multi byte encoding

## 6.2 HIGH LEVEL FLOW FOR QUOTE DATA SERVICES FOR FTP

*fig:6 HIGH LEVEL FLOW FOR QUOTE DATA SERVICES FOR FTP*

### 6.3 QUOTE DATA ATTRIBUTES\*\* FOR FTP

\*\* Contains all the attributes that partners currently get through Renewals Central

#### 6.3.1 QUOTE HEADER ATTRIBUTES

#	Attribute Name	Description
1	Quote Number	Unique Identification, includes Contract number + Modifier
2	Quote Date	Date Quote was Created
3	Quote Version	Quote Version
4	Quote Expiration	Quote Expiration Date
5	Account Number	Entitlement Account (EA) number of the end customer
6	Account Name	EA Name
7	Super User Name	
8	Super User Email	
9	Procurement Contact	
10	Procurement Contact Email	
11	Address	Identifies the primary address of the End Customer in VMware's systems
12	City/State	
13	Zip/Postal Code	
14	Country	
15	Quote Currency	Code for the currency that was used to create the Quote. One of – USD, GBP, EUR, JPY, AUD, CNY
16	Total List Price	Sum of the List prices of all lines
17	Total Reinstatement Fee	Sum of fees to be applied. A reinstatement fee (Refee) is charged for an expired contract
18	Total Discount	Sum of discounts to be applied, if any
19	Estimated Tax	Taxes to be used, if needed
20	<b>Total with Fee</b>	<b>Total list price + Total Reinstatement Fee - Total Discount + Estimated Tax</b>

#### 6.3.2 QUOTE LINE LEVEL ATTRIBUTES

#	Line Attribute Name	Description
1	InstallBaseIdentifier	Instance Number
2	ServiceSKUID	SNS SKU, of the service on this instance

<b>3</b>	ServiceDescription	<b>Description of SKU</b>
<b>4</b>	ServiceUnitPrice	<b>SnS SKU List Price</b>
<b>5</b>	ServiceSKUAnnualListPrice	<b>SnS SKU Annual List Price</b>
<b>6</b>	ProductSKUID	<b>Product SKU that is covered for support under the contract</b>
<b>7</b>	ProductDescription	<b>Description of the product</b>
<b>8</b>	ProductQuantity	<b>Quantity of IB instance</b>
<b>9</b>	ProductServiceStartDate	<b>New Start Date for the line</b>
<b>10</b>	ProductServiceEndDate	<b>New End Date for the line</b>
<b>11</b>	NumberOfDays	<b>Numbers of Days to be renewed</b>
<b>12</b>	ExtendedPrice	<b>Total Price for the line (Unit Price * Annual List * Qty)</b>
<b>13</b>	Reinstatement Fee	<b>Fee to be paid in case contract has expired.</b>
<b>14</b>	Discount	<b>Discount amount to be applied, if any</b>
<b>15</b>	<b>ListPrice</b>	<b>Line Level Total Price</b>

### 6.3.3 Sample Quote file

## 7. QUOTE Through WEB SERVICE API

Distributors can use web services to get quote information selectively related to contract renewals through a secure API call to VMware's web services.

Quote webservice is meant to support systemic calls from distributors regarding renewal quotes. The set of input attributes that are required to make the call is published. VMware systems will interpret the request and provide the quote by using the following process as long as the quote amount does not exceed the threshold amount specified at configuration for a partner by VMware:

1. Search for the requested quote on VMware server. if yes there will be an inline response to the API call with the quote data. Data elements in the inline response are the same as that in the xml quote document
2. If search is not successful, then the system will create a quote based on the input parameters. Once the quote is ready a message with the quote header details will be sent to the call back url published by the distributor. The distributor is expected to use the header data to make a call to vmware webservice to get the quote data in response.

Distributors will have access to all quotes that they get through webserivce on vmware renewals portal as well.

Given the automated nature of the API processing, there are some use cases that are not supported. These will, however, need to be done via the Renewals Central portal. The unsupported scenarios include:

1. Partial renewals – situations where only a subset of the instances on a contract are renewed
2. Consolidation across EAs – the process will create for this quote internally
3. Special Pricing situations
4. Contracts that are already consolidated
5. Contracts belonging to multiple parties, or Operating units, or differing currencies
6. Quote exceeding a threshold amount specified by VMware, defined at configuration

Accessing quotes via the web services offers multiple advantages to the distributor in managing their sales renewal process. Specifically,

- a. This process automates the consolidation quote request process and brings down the SLA to 30 mins.
- b. The call to be made is the same for all situations – the VMware API service has built-in intelligence to understand the input parameters and process accordingly (Getting the quote details, creating it if it does not exist, or invoking the consolidation process) to give the correct quote details back to the distributor.

## 7.1 GET QUOTE PROCESS

The following outlines the sequence of steps to get Quote information using a Web Services API call.

### 7.1.1 STEPS TO GET QUOTE USING WEB SERVICES API CALL

1. Partner makes a web service call to VMware system for a quote request for renewal, providing Quote number and modifier as input if that information is known, or a Contract number and modifier along with Quote attributes such duration and support levels, as input.
2. Partner receives a response of the Quote metadata, if there is a quote that matches the input request. The quote XML file is sent as a SOAP attachment (With a maximum permissible size of 1MB).
3. A request for a quote creation is submitted to VMware if the quote does not exist.
4. VMware sends xml quote using call back URL if response type (specified at onboarding) is "Call back URL"

<This is URL where partner receives wakeup call in cases of quote requests for creation or consolidation. This URL will be required if partner has subscribed to call back URL.>

5. VMware makes quote accessible in FTP folder if response type is specified as FTP in the configuration.

## 7.2 TABLE OF INPUT AND RESPONSES FOR QUOTE REQUEST

#	Input from Partner call	Response from VMware**	xml Details (Click Links)	Comments
1	Contract plus modifier;	Quote Metadata of all quotes connected with this contract	<a href="#">Contract Input Response</a>	Partner will need to make further API calls with appropriate Quote and modifier to get the desired quote details.
2	Quote plus modifier	Quote Metadata as response and the quote as a SOAP attachment if Quote exists, else a response message indicating that the Quote does not exist	<a href="#">Quote Input Response</a>	
3	Contract plus modifier; duration; service	Message indicating that the Quote creation is initiated	<a href="#">Input Response</a>	If response type is FTP, quote will be added to FTP folder. If response type is Call back URL, then quote XML will be sent to that URL. This request has a 30-minute SLA
4	Multiple contracts plus corresponding modifiers; duration; service	Message indicating that the Quote consolidation is initiated	<a href="#">Input Response</a>	If response type is FTP, quote will be added to FTP folder. If response type is Call back URL, then quote XML will be sent to that URL. This request has a 30-minute SLA

**Note:** \*\*In situations where VMware is not able to create the requested quote the partner can request it through the Portal

To automate receiving the quote information, partners need to implement a “Call Back URL Service”, so that VMware can send data when it is ready, without having partner make further calls to retrieve quotes. The call back URL service is explained below.

## 8. CALL BACK URL SERVICE

\*\* Partner uses Web Service API to make a call to create quotes systematically. If quote is present, then data will be returned as part of the return response of the call. However, for quote creation or consolidation calls, there is a time lag to enable VMware's systems to address creation/ consolidation request. Once these requests complete, details of newly created quotes will be relayed back to partner through call back URL, if provided. If none is provided, then quotes are placed on FTP server and partner will be informed via email and then can access the quote.

VMware IT has a WSDL to request and to send response in a call back url service. Following is the WSDL and schema to be used by partner to develop the service to receive the newly created quote details.

Refer to the attached wsdl file below.

## 9. STRUCTURE OF QUOTE DATA SERVICES

The following sections provide details of input, response, xml schema, validations and quote data fields.

### 9.1 CALL BACK URL - INPUT BODY\*\*\*

Field	Element	XSD DataType	Required
<b>QuoteNumber</b>	QuoteDetails/QuoteMetaData/QuoteNumber	String	Y
<b>QuoteModifier</b>	QuoteDetails/QuoteMetaData/QuoteModifier	String	Y
<b>Duration</b>	QuoteDetails/QuoteMetaData/Duration	String	Y
<b>Support</b>	QuoteDetails/QuoteMetaData/Support	String	Y
<b>Price</b>	QuoteDetails/QuoteMetaData/Price	String	Y
<b>FTPLocation</b>	QuoteDetails/QuoteMetaData/FTPLocation	String	Y
<b>QuoteSizeInKB</b>	QuoteDetails/QuoteMetaData/QuoteSizeInKB	String	Y
<b>additionalProperties</b>	QuoteDetails/QuoteMetaData/additionalProperties/property/name	String	N (for Future extensibility)
	QuoteDetails/QuoteMetaData/additionalProperties/property/value		
<b>AttachmentMetadata</b>	QuoteDetails/AttachmentMetadata		N(Always Null)
<b>StatusCode</b>	QuoteDetails/StatusCode		N (Always Null)
<b>StatusMessage</b>	QuoteDetails/StatusMessage		N (Always Null)
<b>TransactionId</b>	QuoteDetails/TransactionID	String	Y

**Note:** \*\*\* This is the structure the call back URL service of VMware will use for sending information back to the disti (If disti has provided a call back URL).

## 9.2 CALL BACK URL - INPUT BODY SCHEMA

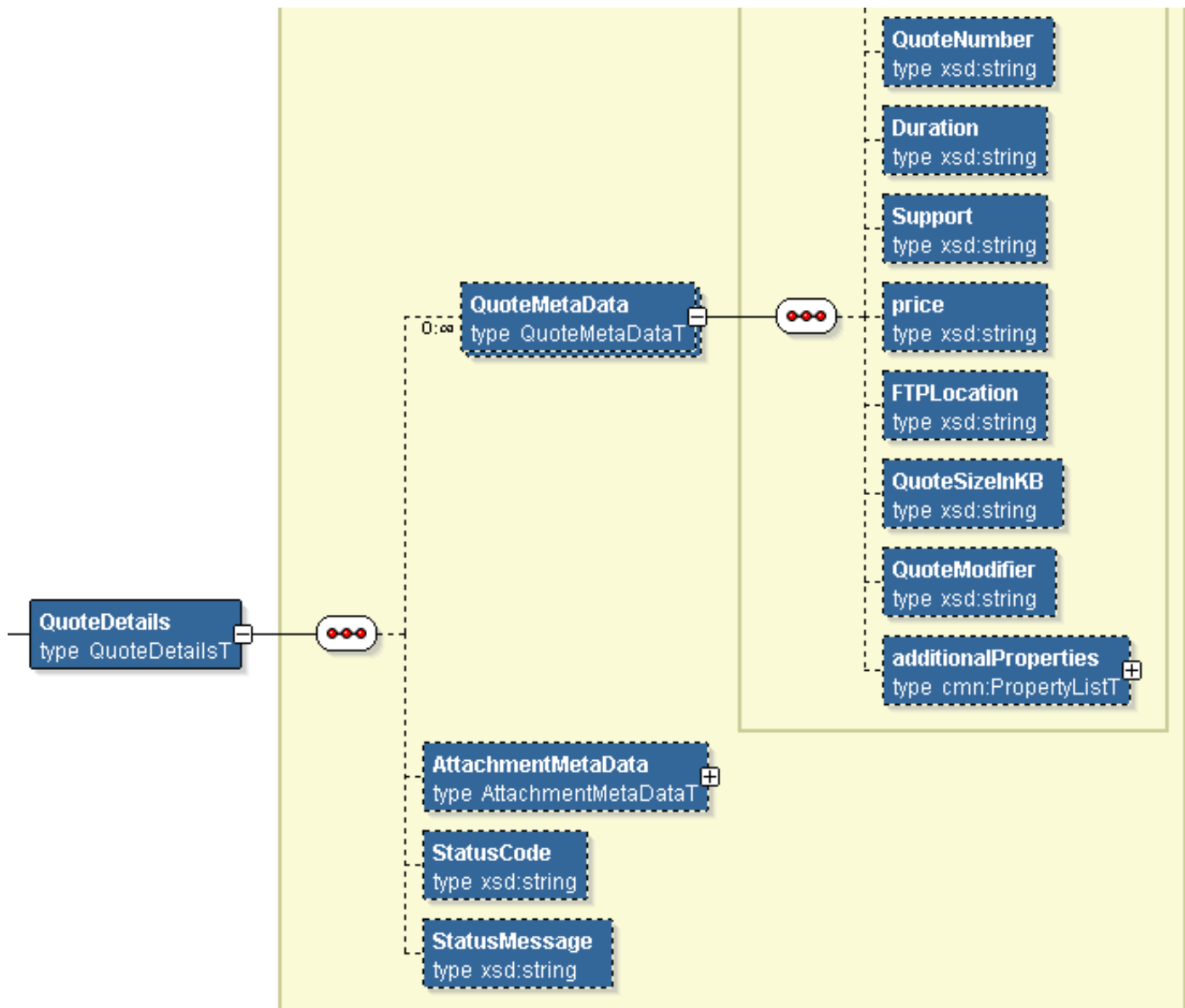


fig:7 CALL BACK URL - INPUT BODY SCHEMA

## 9.3 INTEGRATION AND SECURITY

VMware system submits data through secured protocol HTTPS.

Data from VMware systems will be submitted through secured protocol **HTTPS**. Other than the protocol

security there won't be any other security measures imposed.



## 9.4 VMWARE QUOTEBSM

VMware QuoteBSM is the xml schema that defines the format for the request and response when a web service call is made.

- When partner invokes a web service call, contract details is populated, and VMware responds with the Quote metadata.
- The response of a get quote request has the quote metadata information for all the available quotes of a contract.

Partner has to make another request with specific quote number and modifier combination as a request to get the actual quote information defined below as “VMware Canonical xsd for Quote”, an attachment to the quote Metadata.

## 9.5 VMWARE CANONICAL XSD FOR QUOTE

Please refer to attached xml schema details below.

With all partners, VMware shares standard xml format for quote information: “VMware canonical xsd for quote”.

[Note: When viewing online, please increase resolution to see fingerprint.](#)

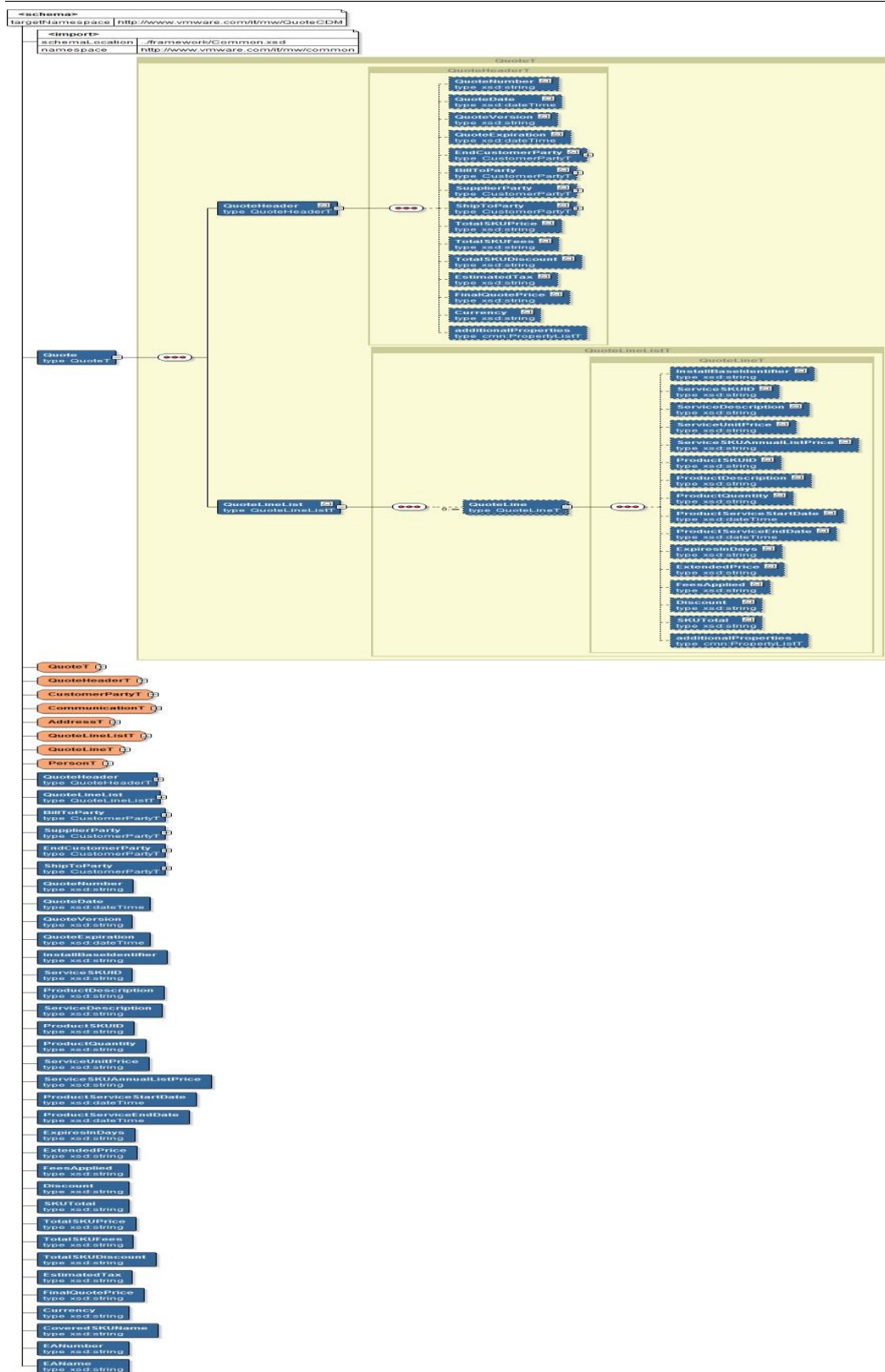


fig:8 VMWARE CANONICAL XSD FOR QUOTE

## 9.6 QUOTE CDM.XSD

Please see Quote CDM.xsd file below.

## 9.7 DATA VALIDATIONS Validation

Validation checks will be performed when partner invokes a web service in order to address the partner request accurately. Error codes are relayed back to the caller (details below in the “Error codes” section) to indicate any issues with the input data and/or actions requested.

The checks are for:

1. Validity of the input quotes (and modifier).
2. Validity of the input contracts (and modifier).
3. Duration of the requested quote is not less than an year.
4. If co-terming, ensuring the co-term date is in the future and greater than any end date of the contracts.

Specific data conditions that will require manual handling and will not be supported via Web Services API:

- Contract(s) in the input set that are already consolidated.
- Party numbers are different on the contracts.
- Contracts for consolidation that do not belong to the same country or currency.
- Partial renewals (A subset of the instances on a contract).
- Special pricing or discounting contracts.

## 10. QUOTE REQUEST THROUGH WEB SERVICE CALL

### 10.1 INPUT PARAMETERS FOR QUOTE REQUEST THROUGH WEB SERVICE CALL

Contract number and modifier will be required to get quote information via web service API call.

#	Input parameters	Description	Required (Yes/No)
1	PRM_ID,	Partner PRM ID	Yes
2	CONTRACT NUMBER, **	Contract Number and Modifier have to be provided as input to uniquely identify existing contracts. This will be either one value of contract and modifier combination or multiple values for consolidation request. This parameter is not required if Quote number and Quote modifier are provided	No

3	CONTRACT MODIFIER, **	Contract Number and Modifier have to be provided as input to uniquely identify existing contracts. This will be either one value of contract and modifier combination or multiple values for consolidation request. This parameter is not required if Quote number and Quote modifier are provided	No
4	QUOTE NUMBER	Quote Number and Modifier have to be provided as input to uniquely identify existing quote. If these values are provided, the request is a get quote request.	No
5	QUOTE MODIFIER	Quote Number and Modifier have to be provided as input to uniquely identify existing quote. If these values are provided, the request is a get quote request.	No
6	CONSOLIDATION (Y/N)	This is an additional attribute to identify consolidation request. If multiple contract plus modifiers are provided then the request is interpreted as a consolidation request	No
7	RESELLER PRM ID	Reseller PRM ID for which requested quote will be made visible on the RCM Portal	No
8	SERVICE TYPE	This is valid only for create quote and quote consolidation request. Possible values are Basic, Production or As IS (These values will identify what the quote service type will be)	No
9	DURATION	This is valid only for create quote and quote consolidation request. Possible values will be minimum 1 year (months or year).	No
10	CO-TERM DATE	This is valid only for create quote and quote consolidation request. If the consolidated quote duration is less than 1 year, it's an invalid request.	No
11	PARTNER TRANSACTION IDENTIFIER	<b>Response includes this Unique Transaction Identifier, provided to the partner on the quote response</b>	Yes

## 10.2 QUOTE DETAILS – OUTPUT

The Quote information in terms of the attributes is the same as that for the [QUOTE DATA ATTRIBUTES\\*\\* FOR FTP](#) (Click to see details).

## 10.3 ERROR CODES

When there is an error in processing partner data services for service ccontract renewals, VMware sends partner error codes and messages as a web service response.

Below is a consolidated list of errors that VMware provides:

Error Code	Meaning/Message
VMW_PDS_ERR0	Invalid Input Parameters, Contract Number Modifier Combination does not exist.
VMW_PDS_ERR1	Invalid Input Parameter, Quote does not exist for the input contract# modifier combination. Please provide service type and duration or End Date if this is a create quote request.
VMW_PDS_ERR2	Invalid Input Parameters, ConsolidationFlag = 'Y', For a consolidation request, list of contracts has to be provided. This indicates a consolidation request without providing the list of contracts to be consolidated
VMW_PDS_ERR3	Invalid Input Parameters, Consolidation flag should be = 'N' for a consolidation request.
VMW_PDS_ERR5	Invalid Input Parameters, Invalid Service Type or Co - Term Date
VMW_PDS_ERR8	Create quote or consolidation request cannot be accepted for special pricing customers. Please request a quote through RCM portal.
VMW_PDS_ERR9	All the source contracts for consolidation should belong to the same EA.
VMW_PDS_ERR10	All the source contracts for consolidation should belong to the Same Operating Unit, e.g. a US and International contract cannot be consolidated.
VMW_PDS_ERR11	All the source contracts for consolidation should belong to the same ship to country, e.g. a US and International contract cannot be consolidated.
VMW_PDS_ERR12	All the source contracts for consolidation should have the same currency.
VMW_PDS_ERR13	Invalid Input Parameter, Invalid reseller PRM ID,
VMW_PDS_ERR14	Invalid Input Parameter, Invalid Distributor PRM ID,
VMW_PDS_ERR15	Quotes are not available within the threshold limit, please make a quote request through RCM portal.
VMW_PDS_ERR16	QA check failed for quotes. Please request through RCM portal.

## 11. PDS QuoteService API

The postman collection for QuoteService API done in 4 stages.

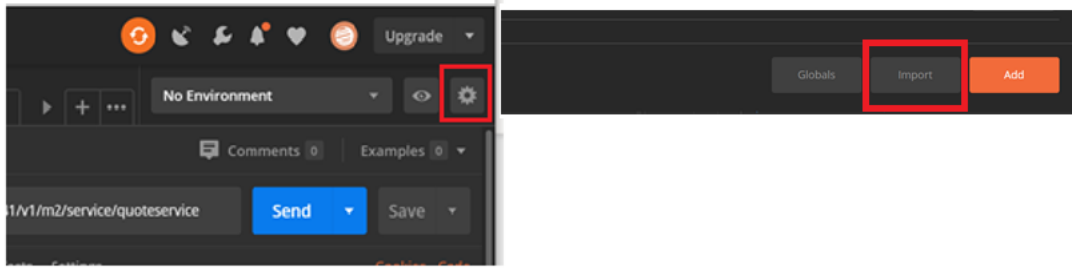
1. Import Environment Configuration file
2. Import the QuoteService-test41.postman\_collection.json file
3. Edit Environment file with contract# & prmid
4. Test the collection

Follow the steps below for PDS postman collection.

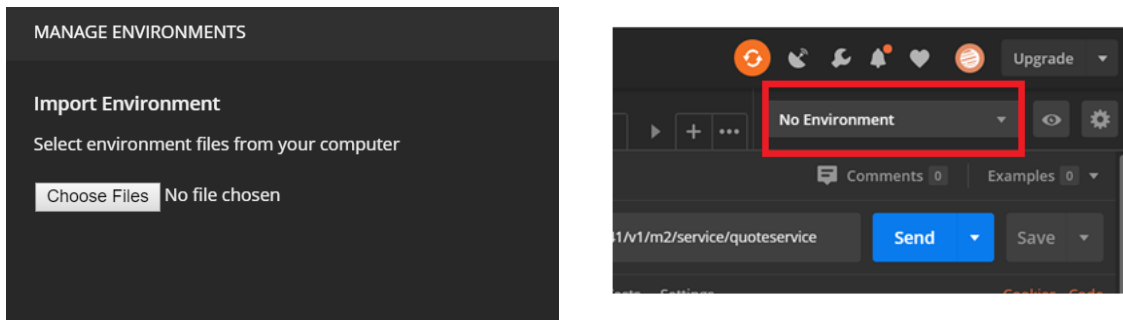
1. Download & Install postman client from: <https://www.postman.com/downloads/>
2. Import the provided collections.

## Stage 1: Import Environment Configuration file.

- a. Select **Setting** and click on **Import** button.

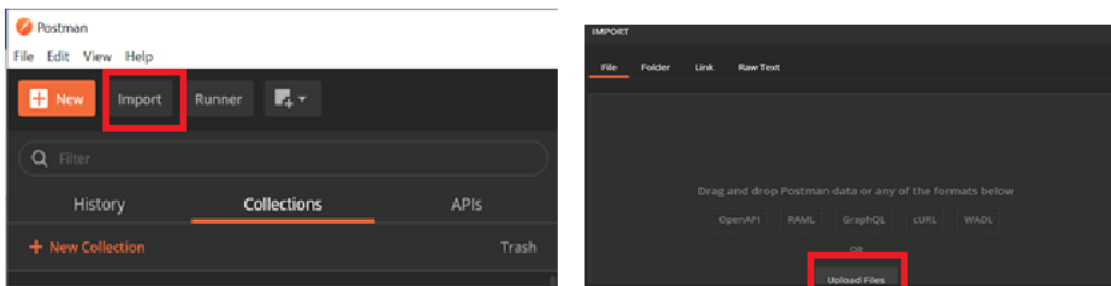


- b. Click on **choose files** button and select the imported environment from **Environment** drop down menu.



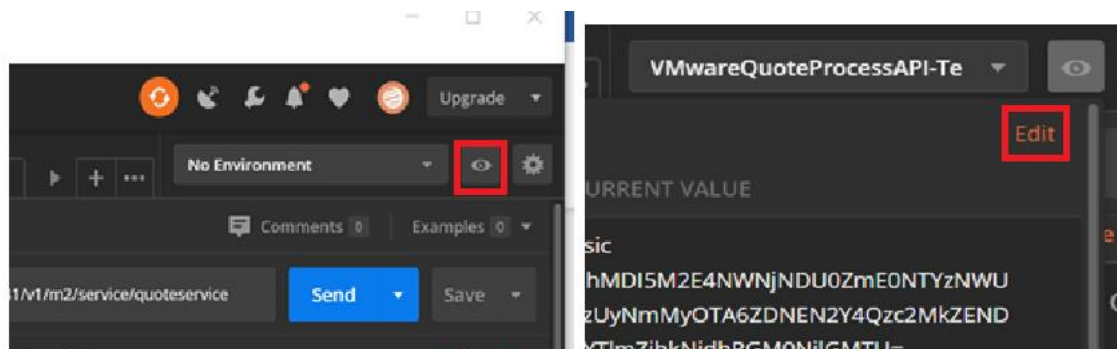
## Stage 2: Import the QuoteService-test41.postman\_collection.json file.

- a. Click on **Import** button and select **Upload** Files choose the postman\_collection.json file.



## Stage 3: Edit Environment file with contract# &amp; prmid

- a. To update environment values, click on **Eye icon** and Click on **Edit** to update the values with original.



- b. Edit ClientID, ClientSecret, ContractNumber & DistributorPRMId, ProviderName with original values.

MANAGE ENVIRONMENTS

VMwareQuoteProcessAPI-nonProd

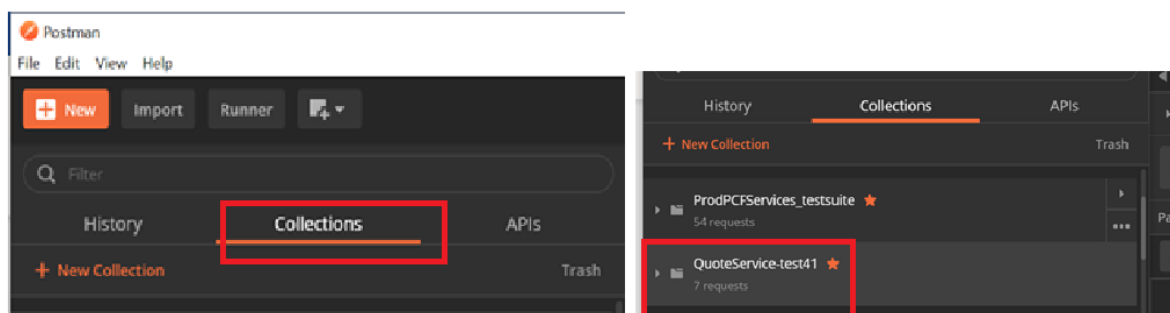
	VARIABLE	INITIAL VALUE ⓘ	CURRENT VALUE ⓘ	...	Persist All	Reset All
<input checked="" type="checkbox"/>	clientID	417eaa6c-7595-4421-...	417eaa6c-7595-4421-9214-8262148f6473			
<input checked="" type="checkbox"/>	clientSecret	f1c7ef02-92c4-45cb-t...	f1c7ef02-92c4-45cb-bed2-184401fa369b			
<input checked="" type="checkbox"/>	BearerValue	Bearer eyJjdHkiOiJhKV...	Bearer eyJjdHkiOiJhKV1QilCjlbmMiOiJBMtI4Q0QjDLUhTMjU2			
<input checked="" type="checkbox"/>	ContractNumber	11111111	11111111			
<input checked="" type="checkbox"/>	DistributorPRMId	1149257	1149257			
<input checked="" type="checkbox"/>	ContractNumber2	12345678	12345678			
<input checked="" type="checkbox"/>	ContractNumber3	23456789	23456789			
<input checked="" type="checkbox"/>	providerName	PName	PName			
<input checked="" type="checkbox"/>	uuidvar	PDS-name-xxx-xxxxxxx	PDS-name-xxx-xxxxxxx			
<input checked="" type="checkbox"/>	v4uuid	PDS-PName-57d-30da7	PDS-PName-57d-30da705			

**Note:**

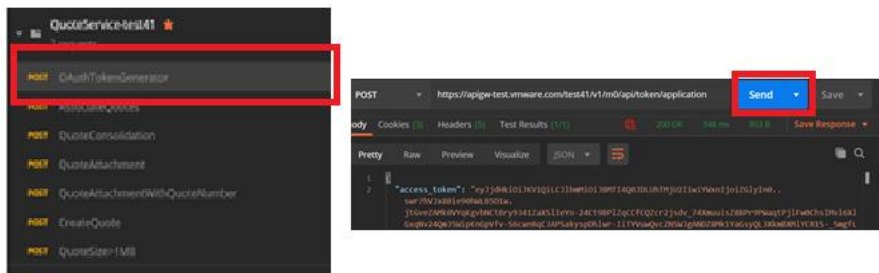
- ClientID & ClientSecret = key-in the values that you get from VMWare team.
- ContractNumber & DistributorPRMId = The Distributor specific values.
- ProviderName= the provider name of length 5 digits.(string)

## Stage 4: Test the collection

- a. Navigate to **Collections** and expand **QuoteService-test41** collection.



b. Select **OAuthTokenGenerator** from the menu and click on **Send** button to proceed further.



c. To test further click on Edit QuoteNumber, Modifier, Contract# values from each of the requests.



## 12.PDS API FAQs

### 12.1 Access & Network Security

#### 1. Does Access Tokens have any Expiration?

a. Access tokens are used to access the API. These access tokens not constant they are short time-to-live. In the production environment, they expire in 30 minutes but in the test environment, this may be different, So new Access token is generated each time when an API call is made. On the other hand, the KEY and Secret remain constant.

#### 2. What kind of security measures are implemented on the API to validate the caller of my callback service?

a. We can enable SSL security by enabling HTTPS protocol communication. Along with that endpoint security is implemented using one-way SSL client authentication.

Quote Notification Service should be implemented without any kind of security.

In Case Disti's are not able to publish webservice without any kind of security, they can invoke the same Quote Service with the same Create/Consolidation request set after 30 min to get the status.

### 12.2 Request Formats

#### 1. In request API we have an element called Quote Modifier. Is it mandatory? If so what are the different Data Sets for Quote Service API?

a. Quote Modifier is mandatory only in the case of Querying the particular quote. We have different scenarios mentioned below:

##### 1. GetQuote:

- a. With Contract Details: Requires Contract Number and no modifier. Contract Number acts as a primary key and all the quotes under this contract are provided in the response. **So no modifier required.**
- b. With Quote Details: To query one particular quote. **Requires both Quote Number and Quote Modifier.**

##### 2. CreateQuote:

Contract Number is required. The Quote details for a given Contract are returned if it exists, else initiates the process for the creation of new Quote for the given Contract. **So no modifier is required.**

##### 3. Consolidate Quotes:

List of Contract Numbers is required with Consolidation set to 'Y'. **No modifier.**

2. What is the valid format for Quote Modifier element in the Response?

a. The Quote Modifier is created with a simple date format, R:28MAR15 02:00:51, if the Quote is created manually.

For all the quotes which are system created, some identifiers like 3C, 1U, 1D get appended like 'R:1C:25JAN15 23:45:52'.

3. We have elements '**ServiceType**' and '**Duration**' in the request payload. What relevance do they hold?

a. ServiceType may have values '**Basic**' or '**Production**' or '**AS-IS**' and Duration should be in Years. These are the elements that are required whenever you are requesting for Quote Generation or Quote Consolidation. While querying the contracts/quotes these fields are not mandatory.

4. Whenever I try to consolidate the quotes I get an error "**Contract Numbers should belong to the same EA**". How should I proceed?

a. As the error says, contracts can only be consolidated if they belong to the same EA number. Please cross-check the contract numbers and make sure they are tied up with the same account numbers.

5. Is Transaction-Id constant for all the requests?

a. No. Each request must have its own transaction id and it should be unique. It cannot be used twice for the same DistIPRMID.

### 12.3 Postman Collections

#### Sample Request Payloads



VMwareQuoteProces  
sAPI-nonProd.postma



QuoteService-test41.  
postman\_collection.js

## 12.3.1 Error Codes

Error Codes	Error Messages
VMW_PDS_ERR1	Invalid Input Parameter, Quote does not exists for the input contract# modifier combination. Please provide service type and duration or End Date if this is a create quote request.
VMW_PDS_ERR2	Invalid Input Parameters, Consolidation_flag = 'Y', For a consolidation request list of contracts has to be provided.
VMW_PDS_ERR3	Invalid Input Parameters, Consolidation_flag should be = 'N' for a consolidation request.
VMW_PDS_ERR4	One or more input contracts are already used in another consolidation request. Request cannot be completed.
VMW_PDS_ERR5	Invalid Input Parameters, Invalid Service Type or Co - Term Date.
VMW_PDS_ERR6	The same request has already been received and is in ERROR status. Case Number NOT FOUND in the system. Request cannot be completed.
VMW_PDS_ERR7	Invalid Contract Group, a create quote or consolidation request cannot be accepted.
VMW_PDS_ERR8	Create quote or consolidation request cannot be accepted for special pricing customers please request a quote through RCM portal.
VMW_PDS_ERR9	All the source contracts for consolidation should belong to the Same EA.
VMW_PDS_ERR10	All the source contracts for consolidation should belong to the Same Operating Unit, e.g. a US and International contract cannot be consolidated.
VMW_PDS_ERR11	All the source contracts for consolidation should belong to the Same ship to country, e.g. a US and International contract cannot be consolidated.
VMW_PDS_ERR12	All the source contracts for consolidation should have the same currency.
VMW_PDS_ERR13	Invalid Input Parameter, Invalid Reseller PRM ID.
VMW_PDS_ERR14	Invalid Input Parameter, Invalid Distributor PRM ID.
VMW_PDS_ERR15	Quotes are not available within the threshold limit, please make a quote request through RCM portal
VMW_PDS_ERR16	QA check failed for quotes, please request through RCM portal.
VMW_PDS_ERR17	One or more contracts given as input does not have a valid Opportunity ID associated. Request cannot be completed.
VMW_PDS_ERR18	Co-Term date provided for the Contract Number: &CONTRACT_NUM and Contract Modifier:&CONTRACTNUM_MOD is Invalid. Request cannot be completed.
VMW_PDS_ERR19	There was an internal error while processing your request. Please wait for the case creation to complete and someone will manually work on it. Request cannot be completed.
VMW_PDS_ERR20	Co-Term Date and Duration cannot be passed together. Request cannot be completed.

<b>VMW_PDS_ERR21</b>	Either Contract List or Quote details should be passed. Request cannot be completed.
<b>VMW_PDS_ERR22</b>	Contract List or Quote details cannot be passed together. Request cannot be completed.
<b>VMW_PDS_ERR23</b>	More than one Contract cannot be passed for Non Consolidation Request. Request cannot be completed.
<b>VMW_PDS_ERR24</b>	Invalid input data. Quote number modifier cannot be Null.
<b>VMW_PDS_ERR25</b>	Invalid input data. Co term Date cannot be passed with Quote Details.
<b>VMW_PDS_ERR26</b>	Invalid input data. No Contract passed in Contract List.
<b>VMW_PDS_ERR27</b>	Invalid input data. Consolidation needs more than one Contract to Process.
<b>VMW_PDS_ERR28</b>	Invalid input data. None of the Contracts provided are Valid.
<b>VMW_PDS_ERR29</b>	&ERR_MESSAGE
<b>VMW_PDS_ERR30</b>	Invalid input data. One of the Contract in the Contract List is Invalid.
<b>VMW_PDS_ERR31</b>	Invalid input data. None of the Contracts provided are Valid.
<b>VMW_PDS_ERR32</b>	Invalid input data. One or More contracts do not have an EA associated.
<b>VMW_PDS_ERR33</b>	One or more source Contracts provided are used in another consolidation request. Request cannot be completed.
<b>VMW_PDS_ERR34</b>	One or more Contracts provided are used in another consolidation request. Request cannot be completed.
<b>VMW_PDS_ERR35</b>	One or more Contracts provided are used in another consolidation request. Request cannot be completed.
<b>VMW_PDS_ERR36</b>	Target Contract identified is already used in another consolidation request. Request cannot be completed.
<b>VMW_PDS_ERR37</b>	One or more Contracts provided are used in another consolidation request. Request cannot be completed.
<b>VMW_PDS_ERR38</b>	Request received previously for the same input set is in ERROR status. Quote Number &CONTRACT_NUM and Modifier &CONTRACTNUM_MOD. Request cannot be completed.
<b>VMW_PDS_ERR39</b>	One or more Contracts provided are used in another consolidation request. Request cannot be completed.
<b>VMW_PDS_ERR40</b>	One or more Contracts provided are used in another consolidation request. Request cannot be completed.
<b>VMW_PDS_ERR41</b>	The same request has already been received and is in ERROR status. Case Number &SFDC_CASE_NUMBER has been created. Request cannot be completed.
<b>VMW_PDS_ERR42</b>	There was an internal error while creating the Quote. Please wait for the case creation to complete and someone will manually work on it. Request cannot be completed.
<b>VMW_PDS_ERR43</b>	The same request has already been Processed Successfully for the given Quote Modifier &CONTRACTNUM_MOD
<b>VMW_PDS_ERR44</b>	Invalid Input Data, Quote - &CONTRACT_NUM : &CONTRACTNUM_MOD is Invalid.

VMW_PDS_ERR45	Threshold amount not defined for the Distributor in the Distributor configuration. Request cannot be completed.
VMW_PDS_ERR46	Distributor is not subscribed to PDS as Web Service. Request cannot be completed.
VMW_PDS_ERR47	Invalid Input data. Service type and Duration (or Co-Term Date) should be passed for consolidation request.
VMW_PDS_ERR48	For Quote - &CONTRACT_NUM : &CONTRACTNUM_MOD, Error while initiating the file transfer process. Error Details: &ERR_MSG
VMW_PDS_ERR49	For Consolidation Request Error While Validating Input Duration/Co Term Date, Error Details:&ERROR_MSG
VMW_PDS_ERR50	Unexpected Error Occured During Validating Request, Details:&ERROR_MSG
VMW_PDS_ERR51	For Contract :&CONTRACT_NUMBER:&CONTRACT_MODIFIER, Error While checking if Create quote is required, Details: &ERROR_MSG
VMW_PDS_ERR52	For Contract :&CONTRACT_NUMBER:&CONTRACT_MODIFIER,Error While Validating Input Duration/Co Term Date, Error Details: &ERROR_MSG
VMW_PDS_ERR53	Unexpected Error Occured During Validating Input Parameters, Details:&ERROR_MSG
VMW_PDS_ERR54	For Contract :&CONTRACT_NUMBER:&CONTRACT_MODIFIER, UnExpected error occured while submitting Concurrent request for Create Quote
VMW_PDS_ERR55	Error while fetching Quote details from SFDC table: &ERROR_MSG
VMW_PDS_ERR56	Unexpected Error While processing Request , Error details: &ERROR_MSG
VMW_PDS_ERR57	Same Contract Passed multiple times in contract list
VMW_PDS_ERR58	Unexpected error while deriving Target Contract id for the consolidation request, Details:&ERROR_MSG
VMW_PDS_ERR59	For Quote number: &CONTRACT_NUMBER :&CONTRACT_MODIFIER, Error while fetching Quote details from SFDC table:&ERROR_MSG
VMW_PDS_ERR60	QUOTE SIZE GREATER THAN 1MB
VMW_PDS_ERR61	NO ATTACHMENT
VMW_PDS_ERR62	CASE IS CREATED AS THERE WAS AN EXCEPTION IN QUOTE/CONSOLIDATION CREATION
VMW_PDS_ERR63	UNKNOWN BACKEND ERROR
VMW_PDS_ERR64	Create Quote Request initiated
VMW_PDS_ERR65	Consolidation Request initiated
VMW_PDS_ERR66	For Contract number: &CONTRACT_NUMBER :&CONTRACT_MODIFIER, No Quote Exists.
VMW_PDS_ERR67	The Disti Transaction id has already been Used for the Distributor.
VMW_PDS_ERR80	Please Refer SFDC Transaction ID &TXN_ID
VMW_PDS_ERR81	Error For Transaction id &TXN_ID : &MESSAGE
VMW_PDS_ERR82	Invalid duration provided for the transaction id &TXN_ID.

VMW_PDS_ERR83	Unable to update the status for the transaction id &TXN_ID in internal headers table.
VMW_PDS_ERR84	Internal PRM ID &MESSAGE
VMW_PDS_ERR85	Invalid Parameter for Internal Service Call.
VMW_PDS_ERR86	Internal Request Is Accepted.
VMW_PDS_ERR87	No Quotes available for the Input Request id
VMW_PDS_ERR88	No PDS Enriched Quotes available for processing
VMW_PDS_ERR60	QUOTE SIZE GREATER THAN 1MB
VMW_PDS_ERR61	NO ATTACHMENT
VMW_PDS_ERR62	CASE IS CREATED AS THERE WAS AN EXCEPTION IN QUOTE/CONSOLIDATION CREATION
VMW_PDS_ERR63	UNKNOWN BACKEND ERROR

## 12.4 Validations

There are certain validations on VMware end whenever you make a call (Request).

### If consolidation flag is N

Possible valid inputs.

1. Contract number , contract modifier is passed then Quote modifier should be NULL.
2. Only contract number without any Quote information.
3. Quote and Quote modifier are mandatory, when contract number and contract modifier is NULL

### If consolidation flag is Y

Possible valid inputs.

1. More than one Contract should be passed, Both Quote number and quote modifier cannot be passed. (both can be null).

Consolidation ( Y ) , Service type and Duration should be mentioned in the request.

Along with all the above mentioned combination of data.

1. Transaction ID should be unique.
2. Contract Numbers should be tied up with same Account Number, in case of consolidation.
3. Disti PRMID is mandatory for all the calls.

### Attaching few sample requests when Consolidation is Y or N.

- Also Service Type and Duration tag are mandatory only when you are doing Consolidation.
- If Consolidation Flag is N, then no need to pass Service Type and Duration.

## 13. APPENDIX A

### 13.1 DETAIL OF WEB SERVICE API FOR QUOTES FOR RENEWALS

You use this API to obtain, create and consolidate quotes for renewals.

Request, based on input, and response structure is the same for all three quote requirements.

QuoteDetails	
Method Name	<i>QuoteDetails</i>
Parameters	
Return Type	<i>QuoteDetailsResponse</i>
Faults	BackEndFault, InvalidDataFault

#### Input Header

Field	XPath Element	Value	Required	Validation
TransactionID	<i>RequestHeader/TransactionInfo/TransactionID</i>	<UniqueTransId>	Yes	

#### Input Header Schema

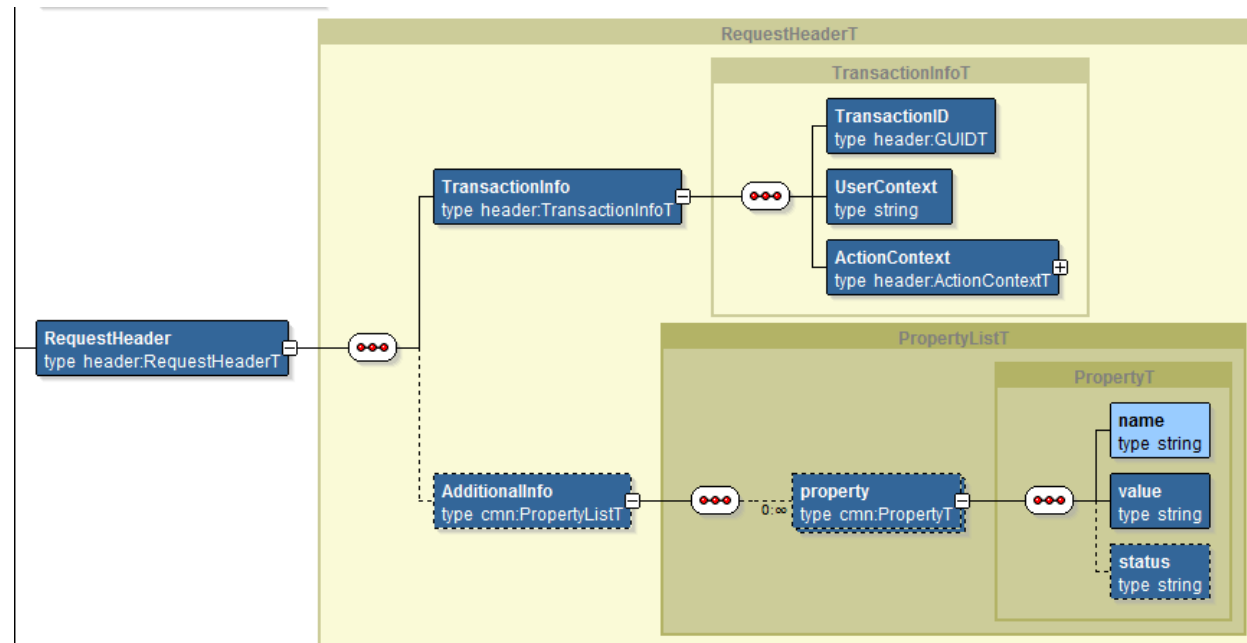


fig8:Input Header Schema

## 13.2 GET QUOTE WITH CONTRACT DETAILS

1. Partner requests a quote, providing a **Contract Number** and **Contract Modifier**.

**Input Structure**

Field	Element	XSD Data Type	Mandatory (Yes/No/Optional)	Value	Comment
<b>ContractNumber</b>	ContractDetails/ContractList/Contract/ContractNumber	String	Yes		
<b>ContractModifier</b>	ContractDetails/ContractList/Contract/ContractModifier	String	Yes		
<b>QuoteNumber</b>	ContractDetails/QuoteNumber	String	No		
<b>QuoteModifier</b>	ContractDetails/QuoteModifier	String	No		
<b>DistributorPRMId</b>	ContractDetails/DistributorPRMId	string	Yes		
<b>ResellerPRMId</b>	ContractDetails/ResellerPRMId	String	Optional		
<b>Consolidation</b>	ContractDetails/Consolidation	String	Yes	<b>N</b>	This should be 'Y' in case of Quote Consolidation rest it will be "N"
<b>ServiceType</b>	ContractDetails/ServiceType	String	Optional	"Basic" "Production" "AS-IS"	Values are Basic, Production or As IS
<b>Duration</b>	ContractDetails/Duration	String	Optional	<b>1,3</b>	<b>1 year/ 3 year</b>
<b>coTerminationDate</b>	ContractDetails/coTerminationDate	Date	No		
<b>TRANSACTIONID</b>	QuoteDetails/TransactionId	Y	String	Unique identification of the request	



**Output Structure**

API Field Name	Element	Mandatory Y/N/Optional	XSD DataType	Value
<b>RequestNumber</b>	QuoteDetails/QuoteMetaData/RequestNumber	N	String	null
<b>QuoteNumber</b>	QuoteDetails/QuoteMetaData/QuoteNumber	Y	String	
<b>QuoteModifier</b>	QuoteDetails/QuoteMetaData/QuoteModifier	Y	String	
<b>Duration</b>	QuoteDetails/QuoteMetaData/Duration	Y	String	
<b>Support</b>	QuoteDetails/QuoteMetaData/Support	Y	String	
<b>Price</b>	QuoteDetails/QuoteMetaData/price	Y	String	
<b>FileLocation</b>	QuoteDetails/QuoteMetaData/FileLocation	N	String	
<b>QuoteSizeInKB</b>	QuoteDetails/QuoteMetaData/QuoteSizeInKB	Y	String	
<b>additionalProperties</b>	QuoteDetails/QuoteMetaData/additionalProperties/name	N	String	
	QuoteDetails/QuoteMetaData/additionalProperties/value	N	String	
<b>AttachmentMetadata</b>	QuoteDetails/AttachmentMetaData/Status/StatusCode	N	String	No Attachment in this scenario
	QuoteDetails/AttachmentMetaData/Status/StatusMessage	N	String	
	QuoteDetails/AttachmentMetaData/Size	N	String	
	QuoteDetails/AttachmentMetadata/Type	N	String	
<b>StatusCode</b>	QuoteDetails/StatusCode	Y	String	

<b>StatusMessage</b>	QuoteDetails/StatusMessage	Y	String	
<b>TRANSACTIONID</b>	QuoteDetails/TransactionId	Y	String	Unique identification of the request

### 13.3 GET QUOTE WITH QUOTE DETAILS

Partner requests a quote, using **Quote Number** and **Quote Modifier**.

#### Input Body

Field	Element	XSD Data Type	Required (Yes/No/Optional)	Value	Comment
<b>ContractNumber</b>	ContractDetails/ContractList/Contract/ContractNumber	String	No		<b>Contract details will always be empty.</b>
<b>ContractModifier</b>	ContractDetails/ContractList/Contract/ContractModifier	String	No		
<b>QuoteNumber</b>	ContractDetails/QuoteNumber	String	Yes		
<b>QuoteModifier</b>	ContractDetails/QuoteModifier	String	Yes		
<b>DistributorPRMId</b>	ContractDetails/DistributorPRMId	string	Yes		
<b>ResellerPRMId</b>	ContractDetails/ResellerPRMId	String	Optional		
<b>Consolidation</b>	ContractDetails/Consolidation	String	Yes	<b>N</b>	<b>This should be 'Y' in case of Quote Consolidation; rest it will be "N".</b>
<b>ServiceType</b>	ContractDetails/ServiceType	String	No		
<b>Duration</b>	ContractDetails/Duration	String	No		
<b>coTerminationDate</b>	ContractDetails/coTerminationDate	Date	No		

<b>TRANSACTIONID</b>	<b>QuoteDetails/TransactionId</b>	<b>Y</b>	<b>String</b>	<b>Unique identification of the request</b>	
----------------------	-----------------------------------	----------	---------------	---	--

**Output Structure**

<b>API Field Name</b>	<b>Element</b>	<b>Required Y/N</b>	<b>XSD DataType</b>	<b>Comment</b>
<b>RequestNumber</b>	QuoteDetails/QuoteMetaData/ RequestNumber	N	String	Null
<b>QuoteNumber</b>	QuoteDetails/QuoteMetaData / QuoteNumber	Y	String	
<b>QuoteModifier</b>	<b>QuoteDetails/QuoteMetaData/ QuoteModifier</b>	<b>Y</b>	<b>String</b>	

<b>Duration</b>	<b>QuoteDetails/QuoteMetaData/ Duration</b>	<b>Y</b>	<b>String</b>	
<b>Support</b>	QuoteDetails/QuoteMetaData / Support	Y	String	
<b>Price</b>	QuoteDetails/QuoteMetaData / price	Y	String	
<b>FileLocation</b>	QuoteDetails/QuoteMetaData / FileLocation	Y	String	
<b>QuoteSizeInKB</b>	QuoteDetails/QuoteMetaData / QuoteSizeInKB	Y	String	
<b>additionalProperties</b>	QuoteDetails/QuoteMetaData / additionalProperties/name	Y	String	
	QuoteDetails/QuoteMetaData / additionalProperties/value	Y	String	

<b>AttachmentMeta Data</b>	QuoteDetails/AttachmentMeta Data/Status/StatusCode	Y	String	<b>Attachment Status Code for Success/Failure</b>
	QuoteDetails/AttachmentMeta Data/Status/StatusMessage	Y	String	<b>If Quote size &gt;1 MB, then “Quote Size is &gt; 1MB” else “Quote Attached”</b>
	QuoteDetails/AttachmentMeta Data/Size	Y	String	<b>Attachment Size</b>
	QuoteDetails/AttachmentMeta Data/Type	Y	String	<b>Null if Quote Not attached</b>
<b>StatusCode</b>	QuoteDetails/StatusCode	Y	String	
<b>StatusMessage</b>	QuoteDetails/StatusMessage	Y	String	
<b>TRANSACTIONID</b>	<b>QuoteDetails/TransactionId</b>	<b>Y</b>	<b>String</b>	<b>Unique identification of the request</b>

### 13.4 CREATE/CONSOLIDATE QUOTE

The section details input and output for Create and Consolidation Quote Request. As creation and Consolidation takes some time to complete by VMware Systems, details of create quote will be shared through a different service (Call back url) based on option partner has selected during onboarding process.

You will receive a message indicating that “The process of creating a Quote is initiated” with transaction id.

#### Input Structure of Create Quote

Field	Element	XSD DataType	Mandatory (Yes/No/ Optional)	Value	Comment
<b>ContractNumber</b>	ContractDetails/ContractList/Contract/ContractNumber	String	Yes		
<b>ContractModifier</b>	ContractDetails/ContractList/Contract/ContractModifier	String	Yes		
<b>QuoteNumber</b>	ContractDetails/QuoteNumber	String	No		
<b>QuoteModifier</b>	ContractDetails/QuoteModifier	String	No		

<b>DistributorPRMId</b>	ContractDetails/DistributorPRMId	string	Yes		
<b>ResellerPRMId</b>	ContractDetails/ResellerPRMId	String	Optional		
<b>Consolidation</b>	ContractDetails/Consolidation	String	Yes	N	This should be 'Y' in case of Quote Consolidation rest it will be "N"
<b>ServiceType</b>	ContractDetails/ServiceType	String	Optional	"Basic" "Production" "AS-IS"	values are Basic, Production or As IS
<b>Duration</b>	ContractDetails/Duration	String	Optional	1,3	If Duration != null then coTermdate should be null
<b>coTerminationDate</b>	ContractDetails/coTerminationDate	Date	Optional		If coTermDate != null then Duration should be NULL
<b>TRANSACTIONID</b>	QuoteDetails/TransactionId	Y	String	Unique identification of the request	

Input Body for Quote Consolidation

Field	Element	XSD DataType	Mandatory (Yes/No / Optional)	Value	Comment
<b>ContractNumber</b>	ContractDetails/ContractList/Contract/ContractNumber	String	Yes		List of contract details (Contract Number and Contract Modifier)
<b>ContractModifier</b>	ContractDetails/ContractList/Contract/ContractModifier	String	Yes		

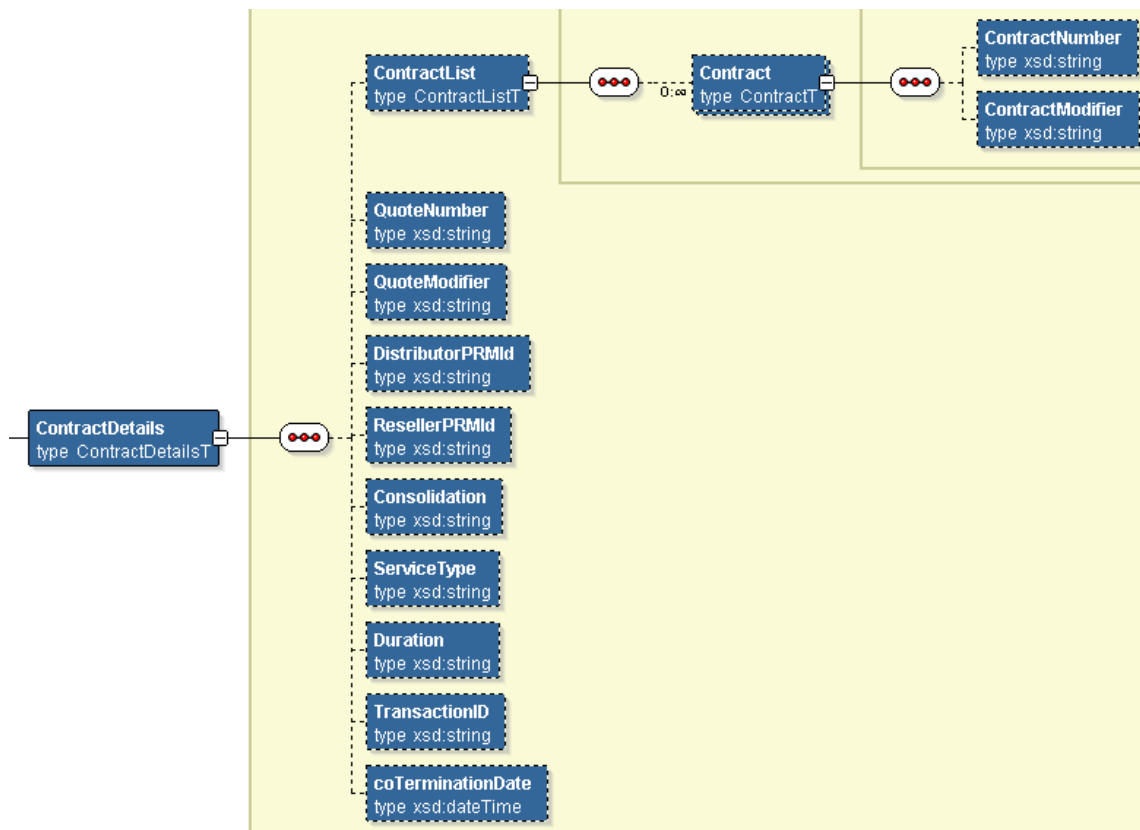
<b>QuoteNumber</b>	ContractDetails/ QuoteNumber	String	No		
<b>QuoteModifier</b>	ContractDetails/ QuoteModifier	String	No		
<b>DistributorPRMId</b>	ContractDetails/Distri butorPRMId	string	Yes		
<b>ResellerPRMId</b>	ContractDetails/Resel lerPRMId	String	Optional		
<b>Consolidation(Y/N )</b>	ContractDetails/Cons olidation	String	Yes	Y	This should be 'Y' in case of Quote Consolidation rest it will br "N"
<b>ServiceType</b>	ContractDetails/Servi ceType	String	Yes	"Basic" "Produc tion" "AS-IS"	values are Basic, Production or As IS
<b>Duration</b>	ContractDetails/Dura tion	Number	Optional	1,3	If Duration != null then coTermdate should be null
<b>coTerminationDate</b>	ContractDetails/coTe rminationDate	Date	Optional		If coTermDate != null then Duration should be NULL
<b>TRANSACTIONID</b>	QuoteDetails/Transa ctionId	Y	String	Unique identific ation of the request	

Output Structure for Create/Consolidation Quote

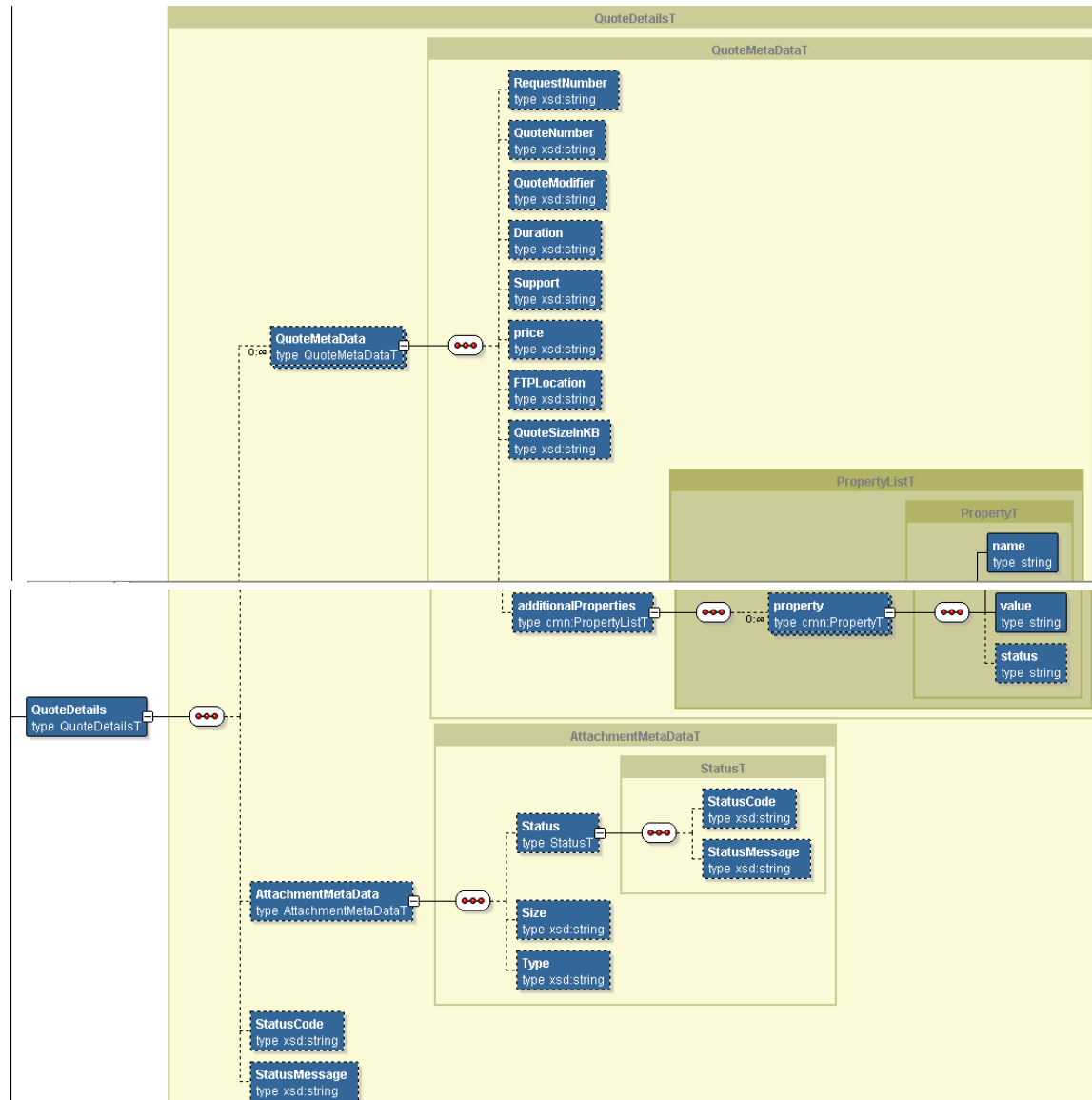
API Field Name	Element	Required Y/N	XSD DataType	Comment
<b>RequestNumber</b>	QuoteDetails/QuoteMeta Data/RequestNumber	N	String	Empty as the request for Create Quote process is initiated.
<b>QuoteNumber</b>	QuoteDetails/QuoteMetaD ata/QuoteNumber	N	String	
<b>QuoteModifier</b>	QuoteDetails/QuoteMetaD ata	N	String	

	ta/QuoteModifier			
<b>Duration</b>	QuoteDetails/QuoteMetaDa ta/Duration	N	String	
<b>Support</b>	QuoteDetails/QuoteMetaDa ta/Support	N	String	
<b>Price</b>	QuoteDetails/QuoteMetaDa ta/price	N	String	
<b>additionalProp er ties</b>	QuoteDetails/QuoteMetaDa ta/additionalProperties/n am e	N	String	
	QuoteDetails/QuoteMetaDa ta/additionalProperties/v alu e	N	String	
<b>StatusCode</b>	QuoteDetails/StatusCode	Y	String	<b>Status code for Quote Create</b>
<b>StatusMessage</b>	QuoteDetails/StatusMess ag e	Y	String	<b>Message “Process of Quote Creation is initiated”</b>
<b>TRANSACTIONID</b>	<b>QuoteDetails/TransactionId</b>	<b>Y</b>	<b>String</b>	<b>Unique identification of the request</b>

**Input Body Schema**

*fig9: Input Body Schema*



**Output Schema***fig9: Output Schema*

## 13.5 SAMPLE REQUEST AND RESPONSE

12.5.1 GET QUOTE DETAILS REQUEST

12.5.2 GET QUOTE DETAILS RESPONSE

12.5.3. CREATE QUOTE REQUEST

12.5.4 CONSOLIDATE QUOTE REQUEST

12.5.5 CREATE/CONSOLIDATION QUOTE RESPONSE

## 14. APPENDIX B – QUOTE ATTRIBUTES

The table below provides details of Quote schema details; the quotation will be generated in compliance with the fields below:

### 14.1 QUOTE HEADER ATTRIBUTES

Element name	Description	XSD Type
<b>QuoteHeader</b>		
<b>QuoteNumber</b>	Quotation number	<b>String</b>
<b>QuoteDate</b>	Date Quote was created	<b>DateTime</b>
<b>QuoteVersion</b>	Quote Version	<b>String</b>
<b>QuoteExpiration</b>	Quote Expiration date	<b>DateTime</b>
<b>EndCustomerParty/AccountNumber</b>	Entitlement Account (EA) number	<b>String</b>
<b>EndCustomerParty/AccountName</b>	EA Name	<b>String</b>
<b>EndCustomerParty/SuperUser/FirstName</b>	EA's Super User First name	<b>String</b>
<b>EndCustomerParty/SuperUser/LastName</b>	EA's Super User Last name	<b>String</b>
<b>EndCustomerParty/SuperUser /Email</b>	EA's Super User contact	<b>String</b>
<b>EndCustomerParty/ProcurementUser/FirstNa Me</b>	Procurement FirstName	<b>String</b>
<b>EndCustomerParty/ProcurementUser/LastNa Me</b>	Procurement LastName	<b>String</b>
<b>EndCustomerParty/ProcurementUser/Email</b>	Procurement email	<b>String</b>
<b>EndCustomerParty/Communication/ CountryDialing</b>		<b>String</b>
<b>EndCustomerParty/Communication/ AreaDialing</b>		<b>String</b>
<b>EndCustomerParty/Communication/ LandNumber</b>		<b>String</b>
<b>EndCustomerParty/Communication/ Mobile</b>		<b>String</b>
<b>EndCustomerParty/Communication/ Extension</b>		<b>String</b>
<b>EndCustomerParty/Communication/ Address/</b>	End Customer Address	<b>String</b>

<b>AddressLine1</b>		
<b>EndCustomerParty/Communication/Address/AddressLine2</b>		<b>String</b>
<b>EndCustomerParty/Communication/Address/AddressLine3</b>		<b>String</b>
<b>EndCustomerParty/Communication/Address/Province</b>		<b>String</b>
<b>EndCustomerParty/Communication/Address/City</b>	End Customer Address	<b>String</b>
<b>EndCustomerParty/Communication/Address/State</b>		<b>String</b>

<b>EndCustomerParty/Communication/Address/Zip</b>	<b>End Customer Address</b>	<b>String</b>
<b>EndCustomerParty/Communication/Address/Country</b>	End Customer Address	<b>String</b>
<b>EndCustomerParty/Communication/Address/Country</b>		<b>String</b>
<b>BillToParty/AccountNumber</b>	Entitlement Account (EA) number	<b>String</b>
<b>BillToParty/AccountName</b>	EA Name	<b>String</b>
<b>BillToParty/SuperUser/FirstName</b>	EA's Super User contact	<b>String</b>
<b>BillToParty/SuperUser/LastName</b>		<b>String</b>
<b>BillToParty/SuperUser /Email</b>	EA's Super User contact	<b>String</b>
<b>BillToParty/ProcurementUser/FirstName</b>	EA's Procurement contact	<b>String</b>
<b>BillToParty/ProcurementUser/LastName</b>	EA's Procurement contact	<b>String</b>
<b>BillToParty/ProcurementUser/Email</b>		<b>String</b>
<b>BillToParty/Communication/ CountryDialing</b>		<b>String</b>
<b>BillToParty/Communication/ AreaDialing</b>		<b>String</b>
<b>BillToParty/Communication/ LandNumber</b>		<b>String</b>
<b>BillToParty/Communication/ Mobile</b>		<b>String</b>
<b>BillToParty/Communication/ Extension</b>		<b>String</b>
<b>BillToParty/Communication/ Address/AddressLine1</b>	End Customer Address	<b>String</b>
<b>BillToParty/Communication/ Address/AddressLine2</b>		<b>String</b>
<b>BillToParty/Communication/ Address/AddressLine3</b>		<b>String</b>
<b>BillToParty/Communication/ Address/Province</b>		<b>String</b>
<b>BillToParty/Communication/ Address/City</b>	End Customer Address	<b>String</b>

<b>BillToParty/Communication/ Address/State</b>		<b>String</b>
<b>BillToParty/Communication/ Address/Zip</b>	End Customer Address	<b>String</b>
<b>BillToParty/Communication/ Address/Country</b>	End Customer Address	<b>String</b>
<b>BillToParty/Communication/ Address/Country</b>		<b>String</b>
<b>ShipToParty/AccountNumber</b>	Entitlement Account (EA) number	<b>String</b>
<b>ShipToParty/AccountName</b>	EA Name	<b>String</b>
<b>ShipToParty/SuperUser/FirstName</b>	EA's Super User contact	<b>String</b>
<b>ShipToParty/SuperUser/LastName</b>		<b>String</b>
<b>ShipToParty/SuperUser /Email</b>	EA's Super User contact	<b>String</b>
<b>ShipToParty/ProcurementUser/FirstName</b>	EA's Procurement contact	<b>String</b>
<b>ShipToParty/ProcurementUser/LastName</b>	EA's Procurement contact	<b>String</b>
<b>ShipToParty/ProcurementUser/Email</b>		<b>String</b>
<b>ShipToParty/Communication/ CountryDialing</b>		<b>String</b>
<b>ShipToParty/Communication/ AreaDialing</b>		<b>String</b>
<b>ShipToParty/Communication/ LandNumber</b>		<b>String</b>
<b>ShipToParty/Communication/ Mobile</b>		<b>String</b>
<b>ShipToParty/Communication/ Address/ AddressLine1</b>	End Customer Address	<b>String</b>
<b>ShipToParty/Communication/ Address/ AddressLine2</b>		<b>String</b>
<b>ShipToParty/Communication/ Address/AddressLine3</b>		<b>String</b>
<b>ShipToParty/Communication/ Address/Province</b>		<b>String</b>
<b>ShipToParty/Communication/ Address/City</b>	End Customer Address	<b>String</b>
<b>ShipToParty/Communication/ Address/State</b>		<b>String</b>
<b>ShipToParty/Communication/ Address/Zip</b>	End Customer Address	<b>String</b>
<b>ShipToParty/Communication/ Address/Country</b>	End Customer Address	<b>String</b>
<b>ShipToParty/Communication/ Address/Country</b>		<b>String</b>
<b>SupplierParty/AccountNumber</b>	Entitlement Account (EA) number	<b>String</b>
<b>SupplierParty/AccountName</b>	EA Name	<b>String</b>
<b>SupplierParty/SuperUser/FirstName</b>	EA's Super User contact	<b>String</b>
<b>SupplierParty/SuperUser/LastName</b>		<b>String</b>
<b>SupplierParty/SuperUser /Email</b>	EA's Super User contact	<b>String</b>
<b>SupplierParty/ProcurementUser/FirstName</b>	EA's Procurement contact	<b>String</b>
<b>SupplierParty/ProcurementUser/LastName</b>	EA's Procurement contact	<b>String</b>
<b>SupplierParty/ProcurementUser/Email</b>		<b>String</b>
<b>SupplierParty/Communication/ CountryDialing</b>		<b>String</b>
<b>SupplierParty/Communication/ AreaDialing</b>		<b>String</b>

SupplierParty/Communication/ LandNumber		String
SupplierParty/Communication/ Mobile		String
SupplierParty/Communication/ Extension		String
SupplierParty/Communication/ Address/ AddressLine1	End Customer Address	String
SupplierParty/Communication/ Address/ AddressLine2		String
SupplierParty/Communication/ Address/AddressLine3		String
SupplierParty/Communication/ Address/Province		String
SupplierParty/Communication/ Address/City	End Customer Address	String
SupplierParty/Communication/ Address/State		String
SupplierParty/Communication/ Address/Zip	End Customer Address	String
SupplierParty/Communication/ Address/Country	End Customer Address	String
SupplierParty/Communication/ Address/Country		String
TotalListPrice	Sum of Line level total (i.e. sum of #30)	String
TotalReinstatement Fee	Sum of fees to be applied, if any	String
TotalDiscount	Sum of Discounts to be applied, if any	String
EstimatedTax	Tax to be used, if needed	String
Currency		String
FinalQuotePrice		String
additionalProperties/Name	additionalProperties to hold some additional details	String
additionalProperties/Value	additionalProperties to hold some additional details	String

## 14.2 QUOTE LINE LEVEL ATTRIBUTES

Element name	Description	XSD Type
Line level: Attributes that describes the pricing of SNS renewals. All the fields described below are applicable to all SNS lines in the Quote. All pricing fields contain values in the quote currency		
InstallBaseIdentifier	Identifier for the IB record	string
ServiceSKUID	SNS SKU	string
ServiceDescription	Description of SKU	string
ProductSKUID	Product SKU that is covered for support under the contract	string
ProductDescription	ProductDescription	string

<b>ProductQuantity</b>	Quantity of IB instance	<b>string</b>
<b>ServiceUnitPrice</b>	SnS SKU List price	<b>string</b>
<b>ServiceSKUAnnualListPrice</b>	SnS SKU Annual List price	<b>string</b>
<b>ProductServiceStartDate</b>	New Start date for the line	<b>DateTime</b>
<b>ProductServiceEndDate</b>	New End date for the line	<b>DateTime</b>
<b>NumberOfDays</b>	Numbers of days to be renewed	<b>string</b>
<b>ExtendedPrice</b>	Total price for the line (Unit Price * Annual List * Qty)	<b>string</b>
<b>ReinstatementFee</b>	Fee to be paid in case contract has expired	<b>string</b>
<b>Discount</b>	Discount amount to be applied, if any	<b>string</b>
<b>ListPrice</b>		<b>String</b>
<b>additionalProperties/Name</b>	additionalProperties to hold some additional details	<b>string</b>
<b>additionalProperties/Value</b>	<b>additionalProperties to hold some additional details</b>	<b>string</b>

## 15. APPENDIX C – FILE CONTENTS

This Appendix has details of 3 files: WSDL, Quote CDM, and Quote Details BCM.

### 15.1 WSDL

WSDL –

```
<definitions xmlns="http://schemas.xmlsoap.org/wsdl/"
  xmlns:client="http://schemas.xmlsoap.org/DistiCallBackProcess"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
    name="DistiCallBackProcess"
  targetNamespace="http://schemas.xmlsoap.org/DistiCallBackProcess">
<types>
  <xsd:schema xmlns="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://schemas.xmlsoap.org/DistiCallBackProcess"
elementFormDefault="qualified">

<xsd:element name="QuoteDetails" >
<xsd:complexType >
<xsd:sequence>
<xsd:element name="RequestNumber" type="xsd:string" minOccurs="1"/>
      <xsd:element name="QuoteNumber" type="xsd:string" minOccurs="1"/>
    <xsd:element name="QuoteModifier" type="xsd:string" minOccurs="1"/>
      <xsd:element name="Duration" type="xsd:string" minOccurs="1"/>
        <xsd:element name="Support" type="xsd:string" minOccurs="1"/>
      <xsd:element name="price" type="xsd:string" minOccurs="1"/>
```

```

        <xsd:element name="FTPLocation" type="xsd:string" minOccurs="1"/>
        <xsd:element name="QuoteSizeInKB" type="xsd:string" minOccurs="1"/>
<xsd:element name="TransactionID" type="xsd:string" minOccurs="1"/>
        <xsd:element name="StatusCode" type="xsd:string" minOccurs="0"/>
        <xsd:element name="StatusMessage" type="xsd:string" minOccurs="0"/>
<xsd:element name="additionalProperties" type="xsd:anyType" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:schema>
</types>
<!--

```

```

~~~~~ MESSAGE TYPE DEFINITION - Definition of the message
types used as part of the port type definitions
~~~~~

```

```

-->
<message name="DistiCallBackProcessRequestMessage">
  <part name="payload" element="client:QuoteDetails"/>
</message>
<!--

```

```

~~~~~ PORT TYPE DEFINITION - A port type groups a set of
operations into
a logical service unit.
~~~~~

```

```

-->
<portType name="DistiCallBackProcess">
  <operation name="CallBack">
    <input message="client:DistiCallBackProcessRequestMessage"/>
  </operation>
</portType>
<wsdl:binding name="DistiCallBackProcessBinding" type="client:DistiCallBackProcess">
  <soap:binding style="document"
    transport="http://schemas.xmlsoap.org/
    soap/http"/>
  <wsdl:operation name="CallBack">
    <soap:operation style="document" soapAction="CallBack"/>
    <wsdl:input>
      <soap:body use="literal" parts="payload"/>
    </wsdl:input>
  </wsdl:operation>
</wsdl:binding>
<service name="DistiCallBackProcess">
  <port
    name="DistiCallBackProcessPort"
    "

```

```
binding="client:DistiCallBackProc  
essBinding">  
<soap:address location="http://DistiCallBackProcess.endpointURL"/>  
</port>  
</service>  
</definitions>
```

## 15. 2 VMWARE QUOTEBSM

VMware QuoteBSM is the xml schema that defines the format for the request and response when a web service call is made.

- When partner invokes a web service call, contract details are populated and VMware responds with the Quote metadata.
- The response of a get quote request will have the quote metadata information for all the available quotes of a contract.

Partner will have to make another request with specific quote number and modifier combination as a request to get the actual quote information defined below as “VMware Canonical xsd for Quote”, an attachment to the quote Metadata.

Please see attached xml schema details below.

## 14.3 VMWARE CANONICAL XSD FOR QUOTE

“VMware canonical xsd for quote” will be the standard xml format that VMware will share for quote information with all partners.

Please see xml schema below.

Note: When viewing online, increase resolution to see fingerprint.



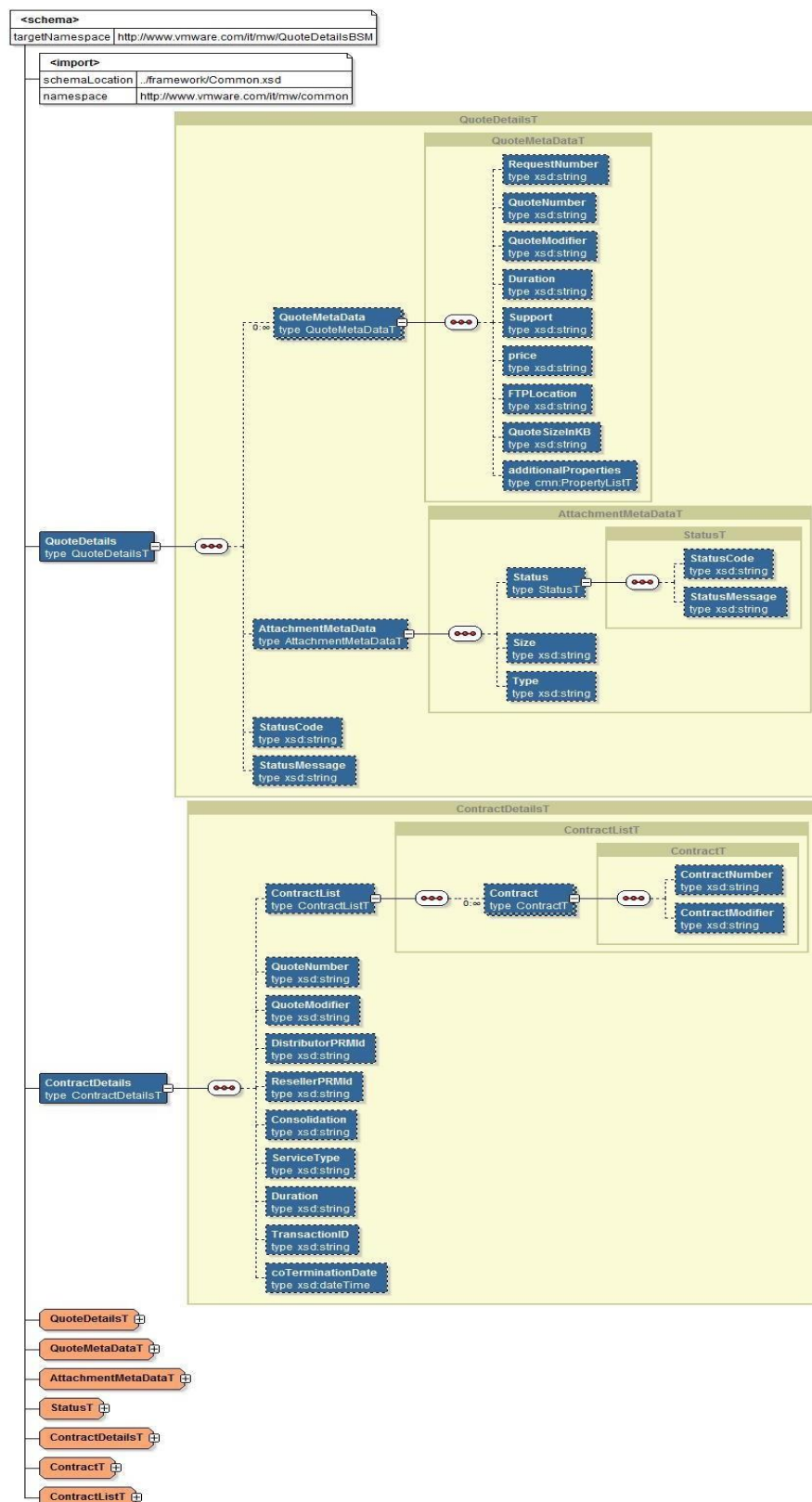


fig10: VMWARE CANONICAL XSD FOR QUOTE

Please see the xsd file below: -

## 16. APPENDIX D – GLOSSARY, TERMS AND ACRONYMS

Term	Definition
EA	Entitlement Account
EBS	Enterprise Business System
EDI	Electronic Data Interchange. Orders from partners are submitted electronically using this interface into EBS.
ELA	Enterprise License Agreement
End of Sale Date	The date the SKU is not available for customer to order.
End of Support Date	End of Support – the end of life for the license SKU.
EOL	End of Life: This relates to a SKU that has reached its EOL; SKU is not available for sale anymore and is not supported anymore; there is no fulfillment path for the SKU.
Hard Bundle	A collection of products that must be used together. Also called “solution bundles”. Component products may be sold individually, but in most cases one or more components can only be purchased through the bundle. These bundles typically cannot be broken apart for component upgrades. Ex. View Bundles
IB	Install Base. A record of products a customer purchased from VMware. It also has partner information and sales information.
IB Key	A product serial number/key originally generated during order processing for a licensed product, and tracked in IB.
OM	Order Management. The module which is used to create sales orders.
PDF Quote	The document that contains quote details in PDF Format.
Product SKU	SKU used for purchasing/fulfilling software license.
Quote	Quote is a data entity that provides details on the IB, service details, effective dates and relevant pricing for a list of products that are up for renewal. The pricing is protected for a specific time period.
SC	Service Contracts. These are data entities that record the renewal transaction in terms of IB information, pricing, services purchased and effective dates.
SKU	Stock Keeping Unit (e.g. Part Number) is an item that is defined in inventory and transacted upon.
SnS SKU	SKU used for purchasing Support or Subscription or both.
Soft Bundle	A collection of products assembled for the sole purpose of discounting. Component products are always sold individually. Ex. vSphere AKs
Term License	A license key that is useable for a certain period (from preset start date to end date).
Term Licensed Product	A product for which customer is issued a term license.
UTF-8 Format	8-bit UCS Transformation Format is a variable-width encoding that can represent every character in the Unicode character set.
xml Quote	The document contains quote details in xml format.