VMware vCloud® Architecture Toolkit™
for Service Providers

VMware Cloud® Provider Program API Guide

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Contents

Introduction 4
Getting Started 4
2.1 Development VCPP API Access 4
2.2 Production VCPP API Access 9
2.3 VCPP API Base URL 9
2.4 HTTP Headers 10
Generate a Bearer Token 11
GET Methods 12
4.1 Retrieve All Commit Contract Details 12
4.2 Retrieve Individual Commit Contract Details 12
4.3 Retrieve Commit Contract Users 14
4.4 Retrieve Eligible Commit Contract Subscription Products 14
4.5 Retrieve Commit Contract Service Instances 15
4.6 Retrieve Service Instance Details 16
4.7 Retrieve Eligible Service Instance Add-On Subscription Products 17
4.8 Retrieve Orderfeed 18
Order Payload Information 19
5.1 Payload Definitions 20
5.2 Sample Order Payload JSON Structure 20
Order Core Services 22
6.1 Core - New Subscription Service 22
6.2 Core - On Demand Request 23
6.3 Core - Add-on Service 23
6.4 Core - Renewal Request 24
Order Coreless Services 26
7.1 Coreless - New Subscription Service 26
7.2 Coreless - Add-on Service 27
7.3 Coreless - Upgrade Request 28
7.4 Coreless - Renewal Request 29
References 30
Appendix A: Sample Order Payload XML Structure 31
Appendix B: Sample Order using XML (New Service Request) 31

Introduction

The VMware Cloud® Provider Program (VCPP) includes a Managed Services Provider model within which partners can leverage VMware software-as-a-service offerings to deliver value-added managed services without investment in data center capacity.

Service Providers can manage the provisioning of services in two ways:

- Using the my.vmware.com portal.
- Automating against the VCPP API.

This guide is intended to provide an overview of how to view and provision services using the VCPP API.

Getting Started

The VCPP API is a RESTful API that enables Service Providers to manage their service offerings. By default, most endpoints consume and return JSON data, and they can also handle XML data. The VCPP API is fronted by MuleSoft Anypoint Platform that handles authentication and service redirection.

2.1 Development VCPP API Access

To access the VCPP API development environment, perform the procedures in this section.

2.1.1 Requesting Anypoint Platform Access for Development

Send an email to PDS_Onboarding_Support@vmware.com, and request access to the Anypoint Platform.

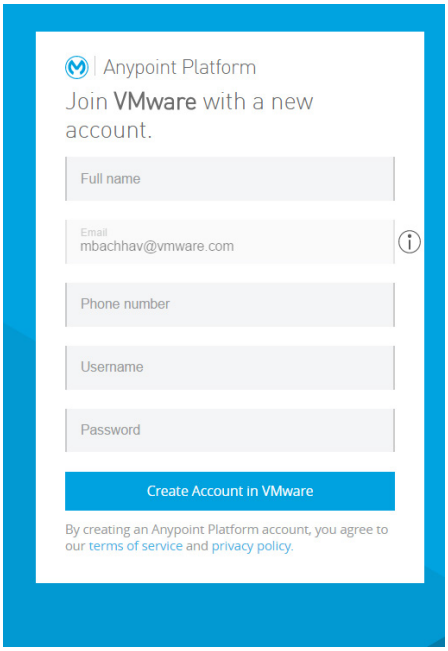
Example:

```
Hi PDS Onboarding Support,

Please create a new Anypoint Platform account:
  Partner Name: <PARTNER NAME>
  Email: <DISTRIBUTION LIST EMAIL ADDRESS>
  APIs requested: OAUTHAPI:cd-v1, vCANMSPAPI:cd-v1

Regards,
<NAME>
```

If you don't have a distribution list available, you can use a regular email address.

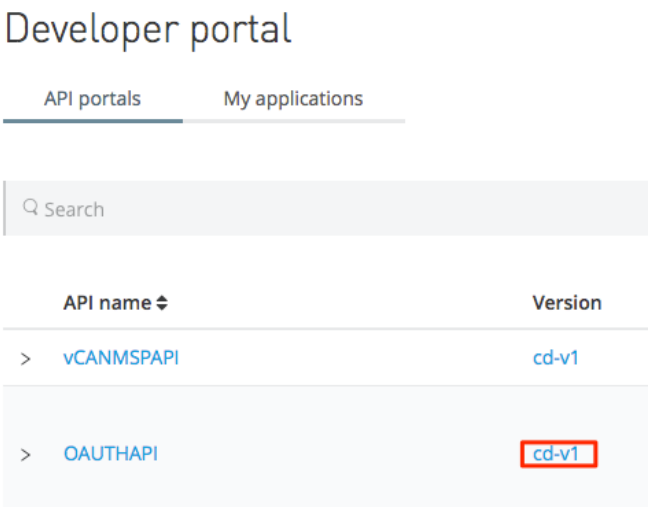
2.1.2 Accepting Anypoint Platform Invitation

VMware reviews your request and sends you a Welcome Email with an invitation link. To create your Anypoint Platform account, click the invitation link and enter information as required.

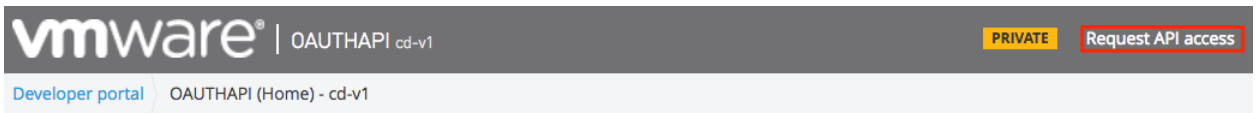


2.1.3 Creating a New Application for Development

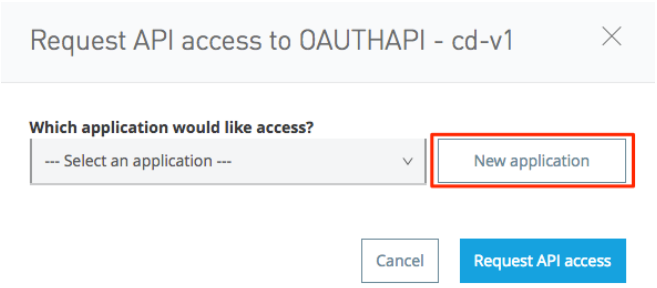
1. Log in to the Anypoint Platform (https://anypoint.mulesoft.com/login/#/signin).
2. On the **API portals** page, click the **cd-v1** version for **OAUTHAPI**.



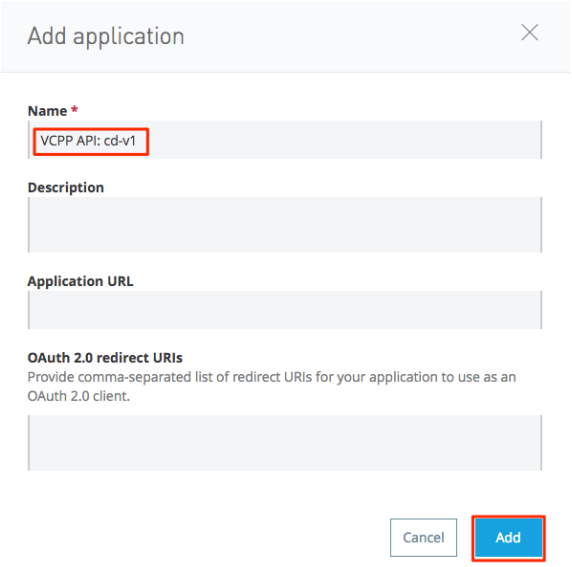
3. Click **Request API access**.



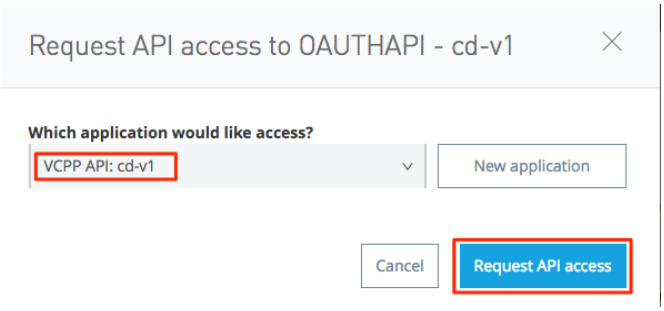
4. Click **New application**.



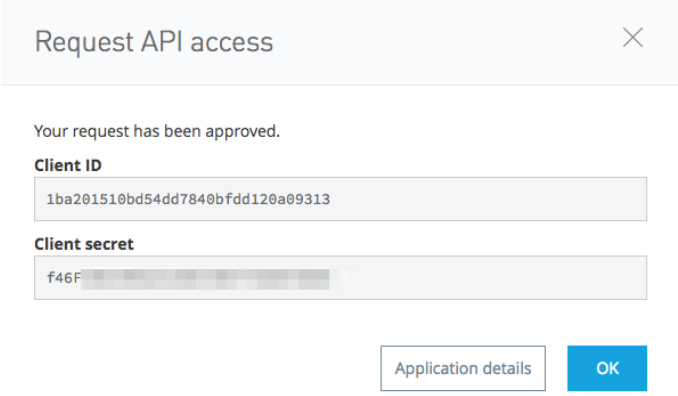
5. Enter the application name (for example, VCPP API: cd-v1), and click **Add**.



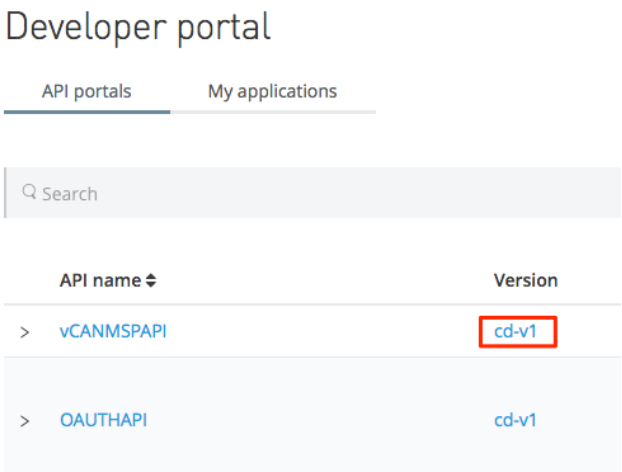
6. Select the application name from the drop-down list and click **Request API access**.



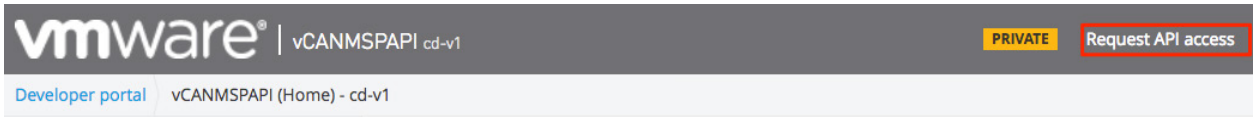
The system displays the newly generated Client ID and Client Secret.



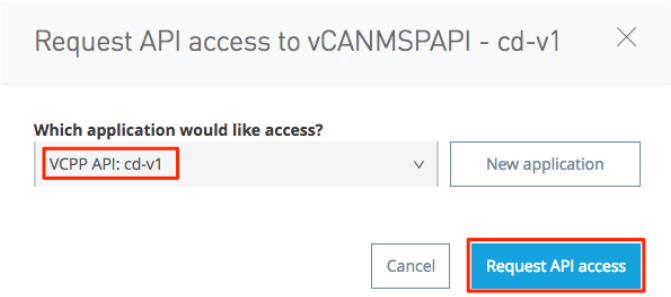
7. At the **API portals** page, click the **cd-v1** version for **vCANMSPAPI**.



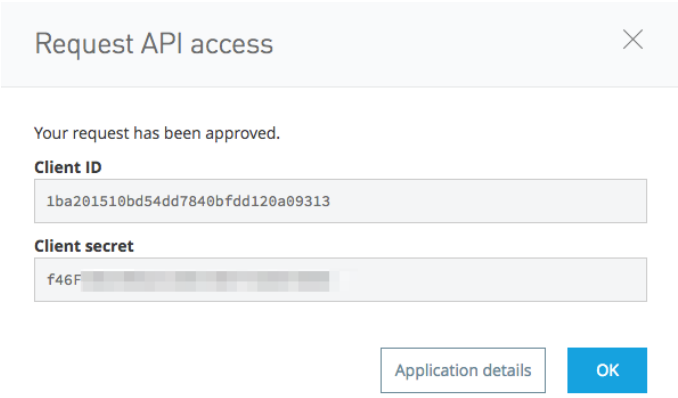
8. Click **Request API access**.



9. From the drop-down list, select the application name that you create, and click **Request API access**.



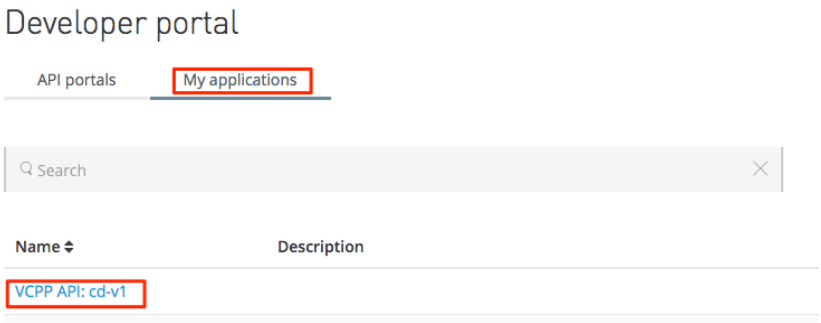
The system displays the previously generated Client ID and Client Secret.



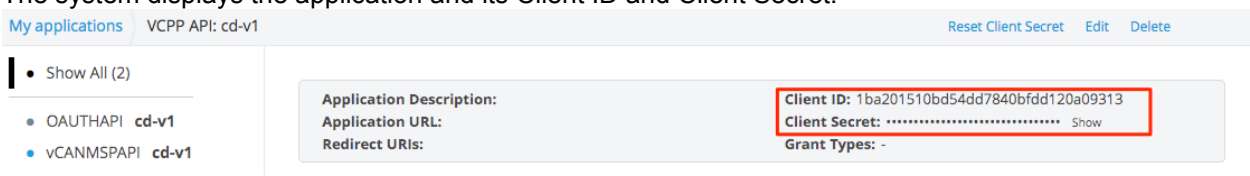
2.1.4 Viewing Existing Applications

To view your previously created applications and the associated Client ID and Client Secret, perform the following procedures.

1. Go to the **My applications** page and click the application name.



2. The system displays the application and its Client ID and Client Secret.



2.1.5 Requesting Access to VCPP API Development Environment

With the Development Client ID, you can request access to the Development Environment by sending an email to PDS_Onboarding_Support@vmware.com.

Example:

```
Hi PDS Onboarding Support,

Please grant the following access:
  Environment: DEVELOPMENT VCPP API
  Partner Name: <PARTNER NAME>
  PRMID: <PRMID>
  Email: <DISTRIBUTION LIST EMAIL ADDRESS>
  Client ID: <CLIENT ID>

Regards,
<NAME>
```

When your request is processed, you have access to the development environment. You must test that everything works the way that you expect, and you can develop any functionality as needed in this environment.

2.2 Production VCPP API Access

If everything works properly in the development environment, you can request access to the production environment.

2.2.1 Requesting Anypoint Platform Access for Production

You can use the same Anypoint Platform for production. You need to request access to the production APIs. To request the access, send an email to PDS_Onboarding_Support@vmware.com.

Example:

```
Hi PDS Onboarding Support,

Please update my Anypoint Platform account:
  Partner Name: <PARTNER NAME>
  Email: <DISTRIBUTION LIST EMAIL ADDRESS>
  APIs requested: OAUTHAPI:prod-v2, vCANMSPAPI:prod-v1

Regards,
<NAME>
```

2.2.2 Creating a New Application for Production

When you have access to the OAUTHAPI:prod-v2 and vCANMSPAPI:prod-v1 APIs in the Anypoint Platform, you need to create a new application that contains the OAUTHAPI:prod-v2 and vCANMSPAPI:prod-v1 APIs. For more information about generating a new application for the production environment, see Section 2.1.3 Create New Application for Development.

2.2.3 Requesting Access to VCPP API Production Environment

With the Production Client ID, you can request access to the VCPP API production environment. To request the access, send an email to PDS_Onboarding_Support@vmware.com.

Example:

```
Hi PDS Onboarding Support,

Please grant the following access:
  Environment: PRODUCTION VCPP API
  Partner Name: <PARTNER NAME>
  PRMID: <PRMID>
  Email: <DISTRIBUTION LIST EMAIL ADDRESS>
  Client ID: <CLIENT ID>

Regards,
<NAME>
```

When your request is processed, you have full access to the production environment.

2.3 VCPP API Base URL

You are granted access to two environments, one for development and the other for production. The base URL for each endpoint varies with the API environment that you are working at.

The following table shows the base URL in the development and production environments.

Environment	Type	URL
Production	Token	https://vconnect.vmware.com/v1/m0/api/token/oauth
	VCPP API	https://vconnect.vmware.com/v1/m3/api/vcpp

Environment	Type	URL
Development	Token	https://apigw-test.vmware.com/cd/v1/m0/api/token/oauth
	VCPP API	https://apigw-test.vmware.com/cd/v1/m3/api/vcpp

2.3.1 Version

The URL for each API endpoint contains a version number. For example, if the current API version is 1, the URL is https://vconnect.vmware.com/**v1**/m3/api/vcpp/commit-contracts.

2.3.2 Middleware Stack

The URL for each API endpoint also contains an indicator that identifies the associated middleware stack.

ID	Type	URL Example
m0	Token	https://vconnect.vmware.com/v1/**m0**/api/token/oauth
m3	VCPP API	https://vconnect.vmware.com/v1/**m3**/api/vcpp/commit-contracts

2.4 HTTP Headers

The following table lists the request headers in the VCPP API.

Header	Value	Comments
authorization	bearer <access_token> Example: bearer eyJjdHkiOiJKV1QiLCJlbmMiOiJBMTI4Q0JDLUhTMjU2IiwiYWxnIjoiZGlyIn0..4H-DRC05fzCI9FuF2ic6ug.ZwzpyRvZJaLuUUXhl7YBCG2T_bu7Epj3raYnrt6LFFztFfpfP4Oc7w2XMKLrhKIkgoFmdkn5vOpH0tJ6h3i5DhHZ11jK-hKy05KbCj8ZxCyIYiHmoe407sQh3o_xV7b9O162SkQqGPnLZ3nTrffm4muq6SRtRNrTy6ID8ppDjyafwfQCr3UWnpT5pDMaHJACE_vhxzkLJg7oHpI13nPkhNirRI1GO1LxCgHpdmJFlY0Ew3xX8KFO8tRXQA_XNX6N0A_wPfjHC1TbKKUixehevcenDIzVQDFPVHWdakaOPb8scxdGjqRPR7E2vV3HFf2RmJIHb7J53L9Y7Sw1mdkPmG_zNCxhroiQHaIwoHoyzJW-2OaLXvrcOU-cZ66rYY32rWXFMGZnCAFSYBBGu5tl4lfKL-ZL1sKWu6jwKhxMsRk.BuQLs63fzl0a4AQVMvr1eA	Because the VCPP API uses the oAuth tokens, the prefix “bearer” is required. The <access_token> value is from the /token/oauth call specified in the Generate a Bearer Token section. For more information, see Section 3 Generating a Bearer Token.
accept	application/json application/xml application/atom+xml	Specifies the desired response data format. By default, JSON data is returned. Most endpoints can return JSON or XML. **Note:** If you want XML data returned, the /orderfeed call must use “application/atom+xml”.
content-type	application/json application/xml	Specifies the desired request body data format. By default, JSON data is expected.

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Generating a Bearer Token

To access the VCPP API, use basic authentication to pass in a base64 encoded string using your Client ID and Client Secret. The Client ID and Client Secret can be found in your Anypoint Portal (Section 2.1.4).

The response includes the access_token that is used as the bearer token in all subsequent requests. The bearer token remains active for 20 minutes. After the active period, you need to obtain a new bearer token.

URL	`https://<baseurl>/token/oauth`
Method	`POST`
HTTP Headers	`authorization: Basic {base64 encoded string of Client ID:Client Secret}`
Sample Response	`{ "access_token":"eyJjdHkiOiJKV1QiLCJlbmMiOiJBMTI4Q0JDLUhTMjU2IiwiYWxnIjoiZGlyIn0..4H-DRC05fzCI9FuF2ic6ug.ZwzpyRvZJaLuUUXhl7YBCG2T_bu7Epj3raYnrt6LFFztFfpfP4Oc7w2XMKLrhKIkgoFmdkn5vOpH0tJ6h3i5DhHZ11jK-hKy05KbCj8ZxCyIYiHmoe407sQh3o_xV7b9O162SkQqGPnLZ3nTrffm4muq6SRtRNrTy6ID8ppDjyafwfQCr3UWnpT5pDMaHJACE_vhxzkLJg7oHpI13nPkhNirRI1GO1LxCgHpdmJFlY0Ew3xX8KFO8tRXQA_XNX6N0A_wPfjHC1TbKKUixehevcenDIzVQDFPVHWdakaOPb8scxdGjqRPR7E2vV3HFf2RmJIHb7J53L9Y7Sw1mdkPmG_zNCxhroiQHaIwoHoyzJW-2OaLXvrcOU-cZ66rYY32rWXFMGZnCAFSYBBGu5tl4lfKL-ZL1sKWu6jwKhxMsRk.BuQLs63fzl0a4AQVMvr1eA", "token_type":"bearer", "expires_in":1200 }`

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GET Methods

With the following methods, you can retrieve information about commit contracts, users, service instances, eligible subscription products, order history, and so on.

4.1 Retrieving All Commit Contract Details

URL	https://<baseurl>/commit-contracts		
Method	GET		
HTTP Headers	authorization	bearer <access_token>	*required string*
	accept	**application/json**	*string*
		application/xml	

Sample Response	{
	"contractList": [{
	"accountName": "VMW Test Service Provider",
	"accountNumber": "113370180",
	"contractNumber": "12611521",
	"commitID": "1131023",
	"contractName": "AIR_12611521",
	"aggregatorName": "VMW Test Aggregator",
	"currencyCode": "USD",
	"contractTerm": "12",
	"startDate": "2017-11-15T00:00:00-08:00",
	"endDate": "2018-11-14T00:00:00-08:00",
	"thresholdLimit": "500000",
	"commitLevel": "500000",
	"spPRMID": "1349347",
	"spName": "VMW Test Service Provider",
	"spFname": "John",
	"spLname": "Doe",
	"emailId": "jdoe@vmware.com",
	"commitSKU": "VCAN-AIR-LV5-C",
	"currentConsumption": "7640",
	"contractBalance": "500000.0",
	"aggregatorPRMID": "1110923"
	},
	{…}]
	}		

4.2 Retrieving Individual Commit Contract Details

URL	https://<baseurl>/commit-contracts/{contract_number}		
Method	GET		
URI Parameters	contract_number	<contract_number>	*required number*
HTTP Headers	authorization	bearer <access_token>	*required string*
	accept	**application/json**	*string*
		application/xml	

Sample Response	{
	"contractList": [{
	"accountName": "VMW Test Service Provider",
	"accountNumber": "113370180",
	"contractNumber": "12611521",
	"commitID": "1131023",
	"contractName": "AIR_12611521",
	"aggregatorName": "VMW Test Aggregator",
	"currencyCode": "USD",
	"contractTerm": "12",
	"startDate": "2017-11-15T00:00:00-08:00",
	"endDate": "2018-11-14T00:00:00-08:00",
	"thresholdLimit": "500000",
	"commitLevel": "500000",
	"spPRMID": "1349347",
	"spName": "VMW Test Service Provider",
	"spFname": "John",
	"spLname": "Doe",
	"emailId": "jdoe@vmware.com",
	"commitSKU": "VCAN-AIR-LV5-C",
	"currentConsumption": "7640",
	"contractBalance": "500000.0",
	"aggregatorPRMID": "1110923"
	}
	}

4.3 Retrieving Commit Contract Users

URL	https://<baseurl>/commit-contracts/{contract_number}/users		
Method	GET		
URI Parameters	contract_number	<contract_number>	*required number*
HTTP Headers	authorization	bearer <access_token>	*required string*
	accept	**application/json**	*string*
		application/xml	

Sample Response	{
	"contractNumber": "12611521",
	"userList": {
	"userList": [
	{
	"isAdmin": true,
	"customerNumber": "9125255974",
	"email": "jdoe@vmware.com",
	"firstName": "John",
	"lastName": "Doe"
	}
	]
	}
	}		

4.4 Retrieving Eligible Commit Contract Subscription Products

URL	https://<baseurl>/commit-contracts/{contract_number}/subscription-products/core-coreless		
Method	GET		
URI Parameters	contract_number	<contract_number>	*required number*
HTTP Headers	authorization	bearer <access_token>	*required string*
	accept	**application/json**	*string*
		application/xml	

Sample Response	{
	"coreProduct": [
	{
	"productFamilyDesc": "AirWatch Cloud",
	"productFamilyCode": "AIRWATCH CLOUD",
	"baseSKU": "ADD-AACLS-C",
	"baseSKUDesc": "AirWatch by VMware Content Locker Storage - Dedicated Cloud - Per Device - Data Center location selected post purchase - Add-on Subscription",
	"baseSKULongDesc": "Data Center location selected post purchase - Additional Storage of 25GB per Company for AirWatch Mobile Content.",
	"coreVariations": {
	"coreVariation": [
	{
	"regionDesc": "All",		

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```
          "regionCode": "ALL",
          "tenantTypeDesc": "AirWatch Dedicated",
          "tenantTypeCode": "AWDEDICATED",
          "serviceTypeDesc": "AirWatch by VMware Blue Management
Suite",
          "serviceTypeCode": "BLUE",
          "crossRefSKU": "ADD-AACLS-12AT0-C1S",
          "crossRefSKUDesc": "AirWatch by VMware Content Locker
Storage - Dedicated Cloud - Per Device - Data Center location
selected post purchase - Add-on Subscription - 12 Month Annual
Payments",
          "pricingTermDuration": "12",
          "pricingTermUnit": "MTH",
          "paymentTypeCode": "Monthly",
          "effectiveDate": "2015-07-21T00:00:00-07:00",
          "commitmentTermDuration": "12",
          "commitmentTermUnit": "MTH",
          "price": "500",
          "priceType": "MSRP",
          "currencyCode": "USD"
        },
        {...}
      ]
    }
  }
]
```


4.5 Retrieving Commit Contract Service Instances

URL	https://<baseurl>/commit-contracts/{contract_number}/service-instances		
Method	GET		
URI Parameters	contract_number	<contract_number>	*required number*
HTTP Headers	authorization	bearer <access_token>	*required string*
	accept	**application/json**	*string*
		application/xml	

Sample Response	{
	"contractNumber": "12611521",
	"serviceList": {
	"commitServicesVOList": [{
	"serviceInstanceID": "M495240519",
	"status": "Active",
	"productFamilyCode": "AIRWATCH CLOUD",
	"endDate": "2018-12-23 00:00:00.0",
	"endUserName": null,
	"country": "US",
	"postalCode": "63017-5827",
	"serviceInstanceURL": "https://vconnect-sbx.vmware.com/dev11/v1/m3/api/vcpp/service-instances/M495240519"
	},
	{...}
	]
	}
	}		

4.6 Retrieving Service Instance Details

URL	https://<baseurl>/service-instances/{serviceInstanceID}		
Method	GET		
URI Parameters	serviceInstanceID	<serviceInstanceID>	*required string*
HTTP Headers	authorization	bearer <access_token>	*required string*
	accept	**application/json**	*string*
		application/xml	

Sample Response	{
	"headerDetailsVO": {
	"serviceInstanceID": "M495240519",
	"serviceInstanceName": "M495240519",
	"status": "Active",
	"accountNumber": "113370180",
	"accountName": "VMW Test Service Provider",
	"productFamilyCode": "AIRWATCH CLOUD",
	"productFamilyDesc": "AirWatch Cloud",
	"regionCode": "ALL",
	"regionDesc": "All",
	"serviceTypeCode": "ORANGE",
	"tenantTypeDesc": "AirWatch Dedicated",
	"tenantTypeCode": "AWDEDICATED",
	"serviceStartDate": "2017-12-24T00:00:00-0800",
	"termStartDate": "2017-12-24T00:00:00-0800",
	"termEndDate": "2018-12-23T00:00:00-0800",
	"remainingTerm": "-353",
	"resellerName": "VMW Test Service Provider",
	"resellerPRMID": "1349347",
	"renewalType": "",
	"supportLevelCode": "",
	"supportLevelDesc": "",
	"serviceOwnerName": " ",
	"serviceOwnerCN": "",
	"serviceOwnerEmail": "",
	"thresholdLimit1": "",
	"thresholdLimit2": "",
	"businessModel": "TERM COMMITMENT",
	"instanceModel": "Term Commitment",
	"anniversaryBillingDate": 1514102400000,
	"commit_Id": "1131023",
	"pricing_term": "1",
	"commitment_Term": "12",
	"prepaidFlag": "No",
	"paymentMethod": "VSPP",
	"serviceTypeDesc": "AirWatch by VMware Orange Management Suite",
	"monthlyCost": "Pending Invoice"
	},
	"componentList": {
	"componentList": [{
	"skuDesc": "AirWatch by VMware Orange Management Suite - Dedicated Cloud - Per Device - Data Center location selected post purchase - Subscription - 12 Monthly Payments",
	"quantity": "82",
	"skuType": "PRIMARY",		

```
      "orderNumber": "12612136",
      "status": "Active",
      "startDate": "2017-12-24T00:00:00-08:00",
      "crossRefSKU": "ADD-AOMSO-12MT0-C1S"
    }]
  },
  "usageDataVO": {
    "abdStartDate": null,
    "abdEndDate": null,
    "usageItemList": null
  },
  "commitDetailsVO": {
    "aggregatorName": "VMW Test Aggregator",
    "aggregatorPRMID": "1110923",
    "contractNumber": "12611521",
    "contractName": "AIR_12611521"
  }
}
```


4.7 Retrieving Eligible Service Instance Add-On Subscription Products

URL	https://<baseurl>/subscription-products/addon		
Method	GET		
HTTP Headers	authorization	bearer <access_token>	*required string*
	accept	**application/json**	*string*
		application/xml	
Query Parameters	serviceInstanceId	<serviceInstanceID>	*required string*
Sample Response			


```
{
  "addOnProduct": [{
    "baseSKU": "ADD-AOMSO-C",
    "baseSKUDesc": "AirWatch by VMware Content Locker Storage - Dedicated Cloud - Per Device - Data Center location selected post purchase - Add-on Subscription",
    "baseSKULongDesc": "Data Center location selected post purchase - Additional Storage of 25GB per Company for AirWatch Mobile Content.",
    "tenantTypeCode": "AWDEDICATED",
    "tenantTypeDesc": "AirWatch Dedicated",
    "serviceTypeCode": "BLUE",
    "serviceTypeDesc": "AirWatch by VMware Blue Management Suite",
    "regionCode": "ALL",
    "regionDesc": "All",
    "serviceIdentifier": null,
    "addOnProductVariations": {
      "addOnProductVariation": [{
          "crossRefSKU": "ADD-AACLS-12AT0-C1S",
          "crossRefSKUDesc": "AirWatch by VMware Content Locker Storage - Dedicated Cloud - Per Device - Data Center location selected post purchase - Add-on Subscription - 12 Month Annual Payments",
          "priceType": "MSRP",
          "currencyCode": "A-USD",
          "fromUnit": "1",
          "toUnit": "999999999999999",
```


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```
            "price": "500",
            "commitmentTermDuration": "12",
            "commitmentTermUnit": "MTH",
            "prepaid": "No",
            "pricingTermDuration": "12",
            "pricingTermUnit": "MTH",
            "effectiveDate": "2015-07-21T00:00:00-07:00",
            "expirationDate": null,
            "skuType": "ONETIME",
            "paymentTypeCode": "Monthly",
            "provisionRequired": "SEPARATE",
            "subTenantType": null
          },
          {...}
        ]
      }
    }]
  }
```


4.8 Retrieving the Orderfeed Endpoint

Check the order status. By default, /orderfeed displays the orders submitted in the last seven days.

Note For the orders that you place through the my.vmware portal and through the VCPP API, the processing time takes from 2 to 48 hours, depending on the specific product family. There is no record of an order until the order is processed. As a result, the request does not show up in the /orderfeed method or in the my.vmware portal until the order is processed. If you need to manually check the status, contact the VMware IT team.

URL	`https://<baseurl>/orderfeed`		
Method	`GET`		
HTTP Headers	`authorization`	`bearer <access_token>`	*required string*
	`accept`	**`application/atom+xml`**	*string*
		`application/json`	
Query Parameters	`if-Modified-Since`	`Fri, 11 Nov 2016 20:34:35 GMT`	*GMT*
	`requestId`	`<requestId>`	*number*
Sample Response			


```
<?xml version="1.0" encoding="UTF-8"?>
<feed xmlns="http://www.w3.org/2005/Atom"
xmlns:order="http://www.vmware.com/orderfeed">
  <title>Order Feed</title>
  <link rel="Self" href="" />
  <id>e4540029-3927-4cc4-aad1-36310e080bcd</id>
  <updated>2014-12-18T07:09:07Z</updated>
  <entry>
    <title>Order ID:11990536</title>
    <link href="" />
    <id>a217037b-74e4-4ff3-9813-e08df958ea00</id>
    <updated>2014-12-18T01:50:02Z</updated>
    <order:status>success</order:status>
    <order:content>
      <order:entry>
        <order:key>OrderNumber</order:key>
```

```
        <order:value>11990536</order:value>
      </order:entry>
      <order:entry>
        <order:key>TokenNumber</order:key>
        <order:value>08DEC201411</order:value>
      </order:entry>
      <order:entry>
        <order:key>ExternalLineTransactionReference</order:key>
        <order:value>967476878</order:value>
      </order:entry>
      <order:entry>
        <order:key>LineID</order:key>
        <order:value>34056823</order:value>
      </order:entry>
      <order:entry>
        <order:key>ExternalContractID</order:key>
        <order:value>789059</order:value>
      </order:entry>
      <order:entry>
        <order:key>PartID</order:key>
        <order:value>VSPP3-AIR-MBO-10000-C</order:value>
      </order:entry>
      <order:entry>
        <order:key>CommitStartDate</order:key>
        <order:value>2014-12-17T00:00:00.000-08:00</order:value>
      </order:entry>
      <order:entry>
        <order:key>CommitEndDate</order:key>
        <order:value>2015-12-16T00:00:00.000-08:00</order:value>
      </order:entry>
    </order:content>
  </entry>
</feed>
```


Information about Order Payload

You can create two types of orders.

- Core: New orders, OnDemand orders, Add-on orders, Renewal orders
- Coreless: New orders, Add-on orders, Upgrade orders, Renewal orders

To place an order, send either a JSON or XML structure that contains the required information to the VCPP API.

Note For the orders that you place through the my.vmware portal and through the VCPP API, the processing time takes from 2 to 48 hours, depending on the specific product family. There is no record of an order until the order is processed. As a result, the request does not show up in the /orderfeed method or in the my.vmware portal until the order is processed. If you need to manually check the status, contact the VMware IT team.

5.1 Payload Definitions

The following table lists all the input parameters that can be passed to the various order types.

Input Parameter	Description	Where to find/Allowable values
OrderRequest		
source	VMware External API reference. The allowable value is **"VSPP-EXT-API".**	"VSPP-EXT-API"
OrderRequest/orders/order/		
originalOrderNumber	VMware assigned **Commit Contract Number** related to the Service Provider.	/commit-contracts > contractNumber
resellerInfo/ID	VMware assigned Service Provider **PRMID.**	/commit-contracts > spPRMID
poType	Parameter that determines whether poType is for New Service, OnDemand, Add-on, Renewal or Upgrade orders.	NEW_SERVICE_REQUEST, ONDEMAND_SIGNUP, ADDON_REQUEST, RENEWAL_REQUEST, UPGRADE_REQUEST
OrderRequest/orders/order/orderContactList/orderContact/		
emailAddress	Email address of the contact.	/commit-contracts/{contractNumber}/user > emailAddress
customerNumber	Customer number of the contact.	/commit-contracts/{contractNumber}/user > customerNumber
OrderRequest/orders/order/orderLineList/orderLineItem/		
partNumber	SKU number.	/commit-contracts/{contractNumber}/subscription-products/core-coreless > crossRefSKU /subscription-products/addon > crossRefSKU
quantity	Quantity to be ordered.	Integer
SID	Service Instance Identifier	/commit-contracts/{contractNumber}/service-instances > serviceInstanceID

5.2 Sample Order Payload JSON Structure

The typical payload for all orders is displayed as below.

```
{
  "OrderRequest":{
    "source":"VSPP-EXT-API",
    "orders":{
      "order":{
        "originalOrderNumber":{contractNumber},
        "resellerInfo":{
          "ID":{spPRMID}
        },
        "poType":{poType},
        "orderContactList":{
          "orderContact":{
            "emailAddress":{emailAddress}
            "customerNumber":{customerNumber}
          }
        },
```

```
        "orderLineList":{
          "orderLineItem":[
            {
              "partNumber":{partNumber},
              "quantity":{quantity},
              "SID":{SID}
            }
          ]
        }
      }
    }
  }
}
```

Order Core Services

Core Services include VMware Hybrid Cloud Extension™ and VMware Horizon® Cloud Service™.

6.1 Core - New Subscription Service

Add a new core service to the commit-contract.

URL	`https://<baseurl>/order`		
Method	`POST`		
HTTP Headers	`authorization`	`bearer <access_token>`	*required string*
	`accept`	**`application/json`**	*string*
		`application/xml`	
	`content-type`	**`application/json`**	*string*
		`application/xml`	
Sample Request Body	`{ "OrderRequest": { "source": "VSPP-EXT-API", "orders": { "order": { "originalOrderNumber": "12611521", "resellerInfo": { "ID": "1349347" }, "poType": "NEW_SERVICE_REQUEST", "orderContactList": { "orderContact": { "customerNumber": "9125255974", "emailAddress": "jdoe@vmware.com", } }, "orderLineList": { "orderLineItem": [{ "partNumber": "HCX-ALLCR-03PT0-C1S", "quantity": "1" }] } } } } }`		
Sample Response	`{ "status": "SUCCESS", "requestId": "29013", "error": null }`		

Note Add-ons can be added in the same call by adding entries to the orderLineItem section.

6.2 Core - On-Demand Request

Add a new core on-demand service to the commit-contract.

URL	https://<baseurl>/order		
Method	POST		
HTTP Headers	authorization	bearer <access_token>	*required string*
	accept	**application/json**	*string*
		application/xml	
	content-type	**application/json**	*string*
		application/xml	

Sample Request Body	{
	"OrderRequest": {
	"source": "VSPP-EXT-API",
	"orders": {
	"order": {
	"originalOrderNumber": "12722872",
	"resellerInfo": {
	"ID": "1349347"
	},
	"poType": "ONDEMAND_SIGNUP",
	"orderContactList": {
	"orderContact": {
	"emailAddress": "jdoe@vmware.com",
	"customerNumber": "9125255974"
	}
	},
	"orderLineList": {
	"orderLineItem": [{
	"partNumber": "HOV-AXXCR-1HUT0-C1S",
	"quantity": "1"
	}]
	}
	}
	}
	}
	}		

Sample Response	{
	"status": "SUCCESS",
	"requestId": "29017",
	"error": null
	}		

6.3 Core - Add-on Service

Add a core add-on service to an existing service instance.

URL	https://<baseurl>/order		
Method	POST		
HTTP Headers	authorization	bearer <access_token>	*required string*

	accept	**application/json**	*string*
		application/xml	
	content-type	**application/json**	*string*
		application/xml	

Sample Request Body	{
	"OrderRequest": {
	"source": "VSPP-EXT-API",
	"systemType": "",
	"orders": {
	"order": {
	"originalOrderNumber": "12611521",
	"resellerInfo": {
	"ID": "1349347"
	},
	"poType": "ADDON_REQUEST",
	"orderContactList": {
	"orderContact": {
	"emailAddress": "jdoe@vmware.com",
	"customerNumber": "9125255974"
	}
	},
	"orderLineList": {
	"orderLineItem": [{
	"partNumber": "HCX-ALLCR-03PT0-C1S",
	"quantity": "1",
	"SID": "M495240516",
	}]
	}
	}
	}
	}
	}		

Sample Response	{
	"status": "SUCCESS",
	"requestId": "29015",
	"error": null
	}		

6.4 Core - Renewal Request

Renew a core service.

URL	https://<baseurl>/order		
Method	POST		
HTTP Headers	authorization	bearer <access_token>	*required string*
	accept	**application/json**	*string*
		application/xml	
	content-type	**application/json**	*string*
		application/xml	

Sample Request Body	{
	"OrderRequest": {
	"source": "VSPP-EXT-API",
	"systemType": "",
	"orders": {
	"order": {
	"originalOrderNumber": "12611521",
	"resellerInfo": {
	"ID": "1349347"
	},
	"poType": "RENEWAL_REQUEST",
	"orderContactList": {
	"orderContact": {
	"emailAddress": "jdoe@vmware.com",
	"customerNumber": "9125255974"
	}
	},
	"orderLineList": {
	"orderLineItem": [{
	"partNumber": "HCX-ALLCR-03PT0-C1S",
	"quantity": "1",
	"SID": "M495240516",
	}]
	}
	}
	}
	}
	}

Sample Response	{
	"status": "SUCCESS",
	"requestId": "29016",
	"error": null
	}

Order Coreless Services

The Coreless service is Workspace ONE™.

7.1 Coreless - New Subscription Service

Add a new coreless service to the commit-contract.

URL	https://<baseurl>/order		
Method	POST		
HTTP Headers	authorization	bearer <access_token>	*required string*
	accept	**application/json**	*string*
		application/xml	
	content-type	**application/json**	*string*
		application/xml	

Sample Request Body	{
	"OrderRequest": {
	"source": "VSPP-EXT-API",
	"orders": {
	"order": {
	"originalOrderNumber": "12611521",
	"resellerInfo": {
	"ID": "1349347"
	},
	"poType": "NEW_SERVICE_REQUEST",
	"orderContactList": {
	"orderContact": {
	"customerNumber": "9125255974",
	"emailAddress": "jdoe@vmware.com",
	}
	},
	"orderLineList": {
	"orderLineItem": [{
	"partNumber": "ADD-AOMSO-12MT0-C1S",
	"quantity": "25"
	}]
	}
	}
	}
	}
	}		

Sample Response	{
	"status": "SUCCESS",
	"requestId": "29432",
	"error": null
	}		

Note Add-ons can be added in the same call by adding entries to the orderLineItem section.

7.2 Coreless - Add-on Service

Add a coreless add-on service to an existing service instance.

URL	https://<baseurl>/order		
Method	POST		
HTTP Headers	authorization	bearer <access_token>	*required string*
	accept	**application/json**	*string*
		application/xml	
	content-type	**application/json**	*string*
		application/xml	

Sample Request Body	{
	"OrderRequest": {
	"source": "VSPP-EXT-API",
	"systemType": "",
	"orders": {
	"order": {
	"originalOrderNumber": "12611521",
	"resellerInfo": {
	"ID": "1349347"
	},
	"poType": "ADDON_REQUEST",
	"orderContactList": {
	"orderContact": {
	"emailAddress": "jdoe@vmware.com",
	"customerNumber": "9125255974"
	}
	},
	"orderLineList": {
	"orderLineItem": [{
	"partNumber": "ADD-AOMSO-12MT0-C1S",
	"quantity": "25",
	"SID": "M495240519",
	}]
	}
	}
	}
	}
	}		

Sample Response	{
	"status": "SUCCESS",
	"requestId": "29015",
	"error": null
	}		

7.3 Coreless - Upgrade Request

Upgrade a pre-existing coreless service.

URL	https://<baseurl>/order		
Method	POST		
HTTP Headers	authorization	bearer <access_token>	*required string*
	accept	**application/json**	*string*
		application/xml	
	content-type	**application/json**	*string*
		application/xml	

Sample Request Body	{
	"OrderRequest":{
	"source":"VSPP-EXT-API",
	"orders":{
	"order":{
	"originalOrderNumber":"12611521",
	"resellerInfo":{
	"ID":"1349347"
	},
	"poType":"UPGRADE_REQUEST",
	"orderContactList":{
	"orderContact":{
	"emailAddress":"jdoe@vmware.com",
	"customerNumber":"9125255974"
	}
	},
	"orderLineList":{
	"orderLineItem":[
	{
	"partNumber":"ASD-AUPOY-12MTH0-C1S",
	"quantity":"25",
	"SID":"M761739363"
	}
	]
	}
	}
	}
	}
	}		

Sample Response	{
	"status": "SUCCESS",
	"requestId": "29017",
	"error": null
	}		

7.4 Coreless - Renewal Request

Renew a pre-existing coreless service.

URL	https://<baseurl>/order		
Method	POST		
HTTP Headers	authorization	bearer <access_token>	*required string*
	accept	**application/json**	*string*
		application/xml	
	content-type	**application/json**	*string*
		application/xml	

Sample Request Body	{
	"OrderRequest": {
	"source": "VSPP-EXT-API",
	"orders": {
	"order": {
	"originalOrderNumber": "12611521",
	"resellerInfo": {
	"ID": "1349347"
	},
	"poType": "RENEWAL_REQUEST",
	"orderContactList": {
	"orderContact": {
	"customerNumber": "9125255974",
	"emailAddress": "jdoe@vmware.com",
	}
	},
	"orderLineList": {
	"orderLineItem": [{
	"partNumber": "ADD-AOMSO-12MT0-C1S",
	"quantity": "25",
	"SID":"M495240519"
	}]
	}
	}
	}
	}
	}		

Sample Response	{
	"status": "SUCCESS",
	"requestId": "29016",
	"error": null
	}		

References

This section provides additional information pertinent to this document and its topics.

Document Title	Link or URL
VMware vCloud® Architecture Toolkit™ for Service Providers	https://www.vmware.com/cloud-computing/cloud-architecture/vcat-sp.html
VMware vCloud® Architecture Toolkit™ (vCAT) Blog	https://blogs.vmware.com/vcat/
Anypoint Portal	https://anypoint.mulesoft.com

Appendix A: Sample Order Payload XML Structure

```
<?xml version="1.0" encoding="UTF-8"?>
<ns0:OrderRequest xmlns:ns0="http://www.vmware.com/OrderFulfillment">
  <ns0:source>VSPP-EXT-API</ns0:source>
  <ns0:systemType />
  <ns0:orders>
    <ns0:order>
      <ns1:originalOrderNumber
xmlns:ns1="http://www.vmware.com/order">{contractNumber}</ns1:originalOrderNumber>
      <ns1:resellerInfo xmlns:ns1="http://www.vmware.com/order">
        <ns2:ID
xmlns:ns2="http://www.vmware.com/it/mw/entitlement/common">{spPRMID}</ns2:ID>
      </ns1:resellerInfo>
      <ns1:poType xmlns:ns1="http://www.vmware.com/order">{poType}</ns1:poType>
      <ns1:orderContactList xmlns:ns1="http://www.vmware.com/order">
        <ns1:orderContact>
          <ns1:emailAddress>{emailAddress}</ns1:emailAddress>
          <ns1:customerNumber>{customerNumber}</ns1:customerNumber>
        </ns1:orderContact>
      </ns1:orderContactList>
      <ns1:orderLineList xmlns:ns1="http://www.vmware.com/order">
        <ns1:orderLineItem>
          <ns1:partNumber>{partNumber}</ns1:partNumber>
          <ns1:quantity>{quantity}</ns1:quantity>
          <ns1:SID>{serviceInstanceID}</ns1:SID>
        </ns1:orderLineItem>
      </ns1:orderLineList>
    </ns0:order>
  </ns0:orders>
</ns0:OrderRequest>
```

Appendix B: Sample Order using XML (New Service Request)

URL	https://<baseurl>/order		
Method	POST		
HTTP Headers	authorization	bearer <access_token>	required string
	accept	application/xml	string
	content-type	application/xml	string
Sample Request Body	<?xml version="1.0" encoding="UTF-8"?> <ns0:OrderRequest xmlns:ns0="http://www.vmware.com/OrderFulfillment"> <ns0:source>VSPP-EXT-API</ns0:source> <ns0:systemType /> <ns0:orders> <ns0:order> <ns1:originalOrderNumber xmlns:ns1="http://www.vmware.com/order"> 12611521</ns1:originalOrderNumber> <ns1:resellerInfo xmlns:ns1="http://www.vmware.com/order">> <ns2:ID xmlns:ns2="http://www.vmware.com/it/mw/entitlement/common"> 1349347</ns2:ID> </ns1:resellerInfo> <ns1:poType		

vmware
CLOUD PROVIDER PROGRAM

	xmlns:ns1="http://www.vmware.com/order">NEW_SERVICE _REQUEST</ns1:poType> <ns1:orderContactList xmlns:ns1="http://www.vmware.com/order"> <ns1:orderContact> <ns1:emailAddress>jdoe@vmware.com</ns1:emailAddress> <ns1:customerNumber>9125255974</ns1:customerNumber> </ns1:orderContact> </ns1:orderContactList> <ns1:orderLineList xmlns:ns1="http://www.vmware.com/order"> <ns1:orderLineItem> <ns1:partNumber>HCX-ALLCR-03PT0-C1S</ns1:partNumber> <ns1:quantity>1</ns1:quantity> </ns1:orderLineItem> </ns1:orderLineList> </ns0:order> </ns0:orders> </ns0:OrderRequest>
Sample Response	<OrderResponse xmlns="http://www.vmware.com/OrderFulfillment" xmlns:ns2="http://www.vmware.com/middleware/error/schemas"> <status>SUCCESS</status> <requestId>28855</requestId> </OrderResponse>