

AZURE PLAN GUIDE



rhiPE PRISM

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DOCUMENT CONTROL

VERSION	AUTHOR	DESCRIPTION	DATE
0.1	Hayden Richmond	Initial Draft	6 September 2020
0.2	Hayden Richmond	PEC links	17 September 2020
0.3	Hayden Richmond	Added download process	7 October 2020
0.4	Firas Ayub	New API endpoint for downloading usage files	5 October 2021

BACKGROUND

This document is to explain the changes which have occurred with the introduction of Azure Plan and how this affects API users.

PRISM GLOSSARY OF TERMS

Before delving into detail on the PRISM APIs you will need to understand some terms used in the PRISM platform to understand the design of the PRISM API's.

Azure Classic

The legacy azure product with SKU (MS-AZR-0145P). This subscription will eventually be phased out by Microsoft until it cannot be purchased any longer.

Azure Plan

The new azure product with SKU (MS-AZR-0017G).

Subscription

An entity which has usage recorded against it which incur charges. In PRISM, when you provision any product, you are provisioning a new subscription for that product.

Entitlement

These are represented as subscriptions in PRISM. These are the subscriptions which you manage within the Azure Management Portal and which have azure resource usage recorded against them.

AZURE PLAN INFORMATION

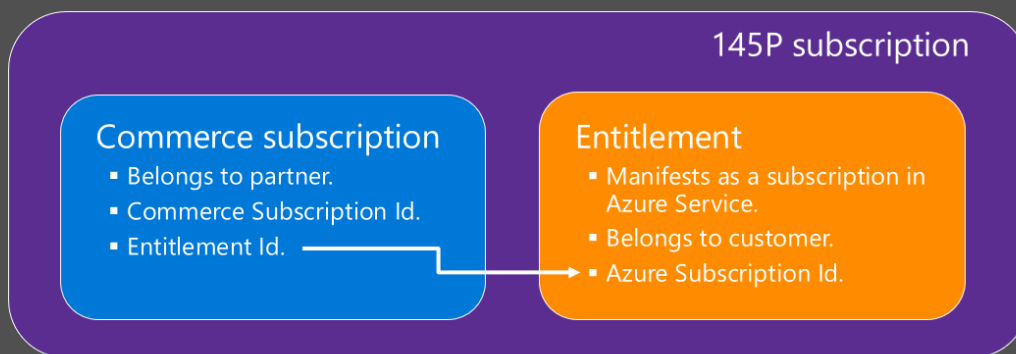
Subscriptions and Entitlements

Under Azure Classic, every Azure Subscription was made up of two parts; one Commerce Subscription and one Entitlement. The entitlement is what consumed azure usage is recorded against. Azure Plan introduces the concept of having multiple entitlements against a single Commerce Subscription. You can think of the Azure Plan subscription as a container for all the entitlements.

In PRISM, we do not provide visibility of the Azure Plan subscriptions. PRISM subscriptions represent the azure entitlements which have consumed usage recorded against them.

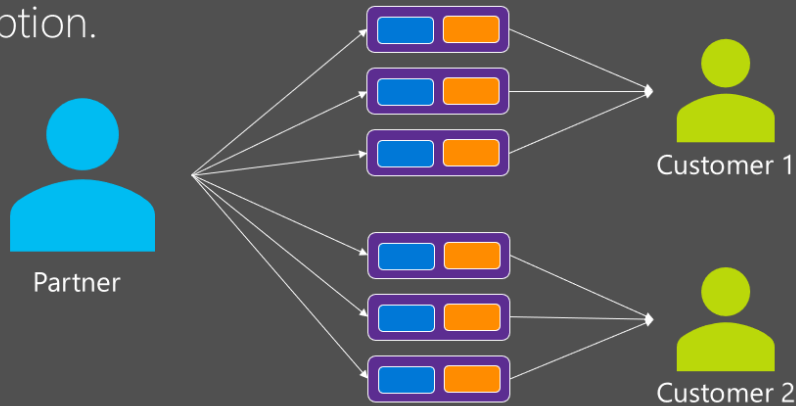
Azure subscription offer (145P) today

- An Azure Usage subscription (145P) comprises 2 parts:



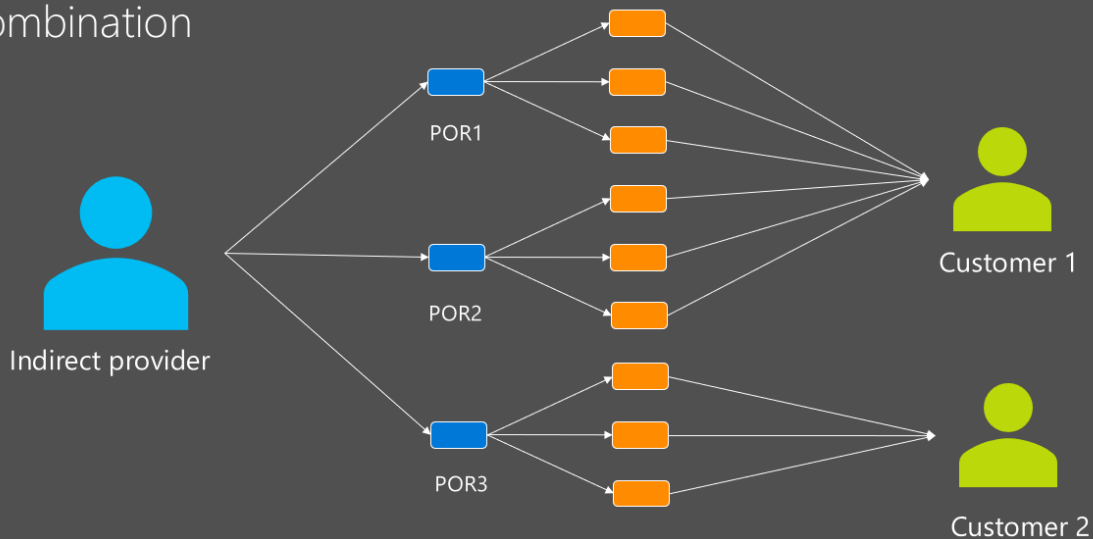
Microsoft Azure offer (145P) today

- A transacting partner can purchase one or more Microsoft Azure offer for the customer.
- Azure usage is billed independently for each Microsoft Azure subscription.



Biz policy: purchase of Azure plan – Indirect Provider

- For indirect provider, 1 Azure plan per {reseller, customer} combination



Id and Vendor Subscription Id

In Azure Classic, PRISM would always save the subscriptions with the same Id which matches with Microsoft's systems. When an Azure Classic subscription is transferred to Azure Plan, the entitlement retains the same Id. PRISM creates a new subscription record to represent this new entitlement which means we are unable to reuse the same Id since both Azure Classic and Azure Plan Entitlement records will exist in PRISM at the same time. During azure plan transfer and in some other scenarios, PRISM will assign the new subscription which represents the entitlement, with a new Id which only has relevance within PRISM.

If a user wants to retrieve the Id reference which matches with Microsoft's systems, then you must use the ProgramReferenceId value returned in the Subscription Model. This property is also known as the 'Vendor Subscription Id' and is viewable with PRISM on the manage subscription page. For all interactions with PRISM, you should still use the Subscription Id value.

Currently viewing as Contoso Managed Services Pty Ltd Clear

< Products / Microsoft CSP Indirect / Tenants / apiRequest259669 / Microsoft Azure

MANAGE SUBSCRIPTION

e2erhipetenant259669.onmicrosoft.com

Details

Subscription Id	4617558F-FCBC-4454-8784-EF9441A87570
Vendor Subscription Id	88F83C1A-68D9-423C-BBAC-4DCFD1018566
Status	Active
Quantity	1 Usage-based

Estimated Cost to Date (This Month) **\$0.00**

Set Spend Notification

View Usage Report

Subscription Name

Subscription Name	AzureCSP_ azureplan	Update Name
-------------------	---------------------	-------------

Partner Access

Access Level	None	Update Access
--------------	------	---------------

GET /api/v2/subscriptions/{subscriptionId}

Response Class

```
{
  "addonSubscriptions": [
    {
      "parentSubscriptionId": "string",
      "minQuantity": 0,
      "maxQuantity": 0,
      "addonSubscriptions": [
        {}
      ],
      "resourceId": "string",
      "nextRenewalDate": "2020-09-06T01:52:20.898Z",
      "isSubscriptionRenewalDue": true,
      "hasConfirmedRenewal": true,
      "isThirdPartyOffer": true,
      "subscriptionId": "string",
      "status": "string",
      "programReferenceId": "string",
    }
  ]
}
```

```

"programReferenceLabel": "string",
"productId": "string",
"productName": "string",
"friendlyName": "string",
"quantity": 0,
"firstPurchased": "2020-09-06T01:52:20.898Z",
"commitmentEndDate": "2020-09-06T01:52:20.898Z",
"displayTemplate": "string",
"unit": "string",
"objectIdOfAdminAgentsGroup": "string",
"billingCycle": "Monthly",
"billingCycleDuration": 0,
"lastRenewalDate": "2020-09-06T01:52:20.898Z",
"scheduledRenewal": {
  "targetQuantity": 0
},
"unitPrice": 0,
"totalPrice": 0
}
],
"resourceId": "string",
"nextRenewalDate": "2020-09-06T01:52:20.898Z",
"isSubscriptionRenewalDue": true,
"hasConfirmedRenewal": true,
"isThirdPartyOffer": true,
"subscriptionId": "string",
"status": "string",
"programReferenceId": "string",
"programReferenceLabel": "string",
"productId": "string",
"productName": "string",
"friendlyName": "string",
"quantity": 0,
"firstPurchased": "2020-09-06T01:52:20.898Z",
"commitmentEndDate": "2020-09-06T01:52:20.898Z",
"displayTemplate": "string",
"unit": "string",
"objectIdOfAdminAgentsGroup": "string",
"billingCycle": "Monthly",
"billingCycleDuration": 0,
"lastRenewalDate": "2020-09-06T01:52:20.898Z",
"scheduledRenewal": {
  "targetQuantity": 0
},
"unitPrice": 0,
"totalPrice": 0
}

```

Azure Usage Anomalies

Late Recorded Usage

Analysis of usage data from Microsoft has shown that there is commonly a three day delay before Microsoft makes usage records available as recorded charges. Some usage records take much longer before Microsoft has officially recorded them. Rhipe did not want to cause interruption to our customers who require their invoices on the first of the calendar month so that they can start their own invoicing activities to their end customers. For this reason, rhipe will charge for all usage currently recorded by Microsoft on the first of the month. When rhipe produces your invoice next month, we will include usage which was later recorded by Microsoft. Please refer to your usage summary files to determine what usage date exact usage records were incurred.

Changing Prices

Analysis of usage data from Microsoft has shown that prices will change each day even though usage quantities remain the same. Rhipe is redownloading usage every day to ensure that PRISM contains the most up to date information as provided by Microsoft. We understand this data is used for customers to track their usage over time so it is advised that users also redownload their usage from PRISM depending on how up to date they require this information to be.

To ensure accurate billing, we recommend only using your invoices or the summary files associated, for billing purposes.

Pricing at RRP or Above

In order to receive your usual Azure pricing, the Partner Earned Credit (PEC) must be applied by Microsoft on your azure usage. Any usage records which Microsoft determines did not meet the criteria to earn the PEC will be priced at RRP or higher depending on your situation. Please speak with your rhipe Account Manager if you require further details as to how PEC relates to certain azure resources.

Here are some helpful links to better understand what usage records will receive the PEC.

<https://docs.microsoft.com/en-us/partner-center/partner-earned-credit>

<https://docs.microsoft.com/en-us/partner-center/partner-earned-credit-explanation>

Usage Missing For 29th And 30th / 31st of Month

Rhipe bills all usage which is available on the 1st of the month. Since Microsoft has a 3 day (or more) delay, usage for the end of the month is often missing on invoices. The usage is also often missing in usage reports if the user is accessing information via API or PRISM UI. This is because the usage is considered 'missed' or 'late' usage and is pending rhipe's reconciliation process to run. Future changes expected in October 2020 will allow rhipe to load the usage data as soon as it is reported by Microsoft, but Invoices will continue to be billed based on the available usage information Microsoft provides.

Here is a summary of rhipe's current usage download process:

1. We download usage at 8AM UTC and this process takes several hours to run for all customers.
2. We stop loading last month's usage after the 1st of the month UTC but based on feedback we intend to introduce a new sync which will continue to load this data. This will arrive in production mid October 2020.
3. Usage will be finalised when we run our reconciliation process. This is currently scheduled for the 25th of the next month. We intend to bring this forward to the 20th of the month.
4. In terms of final values, your invoice is the most reliable source of charges and we will send this to you on the 1st of the month or between 1st to 5th of month if your invoice is flagged for rhipe staff to check due to unusual activity. Generally, you can safely expect your invoice to arrive on 1st of month.

Downloading Usage

With the introduction of Azure Plan we have introduced a new API route to retrieve usage. Both Classic and Plan usage data can be requested from the new route however, we still recommend you use the original API route for classic to reduce the possible introduction of unexpected changes to your system since the usage can come back differently from each route.

Azure Classic

https://api.prismportal.online/swagger/ui/index#!/Microsoft_CSP/AzureUsageInfo_RetrieveAzureUsageLineItemsViaPagingMode

POST /api/v2/microsoftcsp/azure/detailed/{subscriptionId}

Request Class

```
{
  "startDate": "2020-09-06T01:52:20.786Z",
  "endDate": "2020-09-06T01:52:20.786Z",
  "token": {
    "nextPartitionKey": "string",
    "nextRowKey": "string",
    "nextTableName": "string",
    "targetLocation": "Primary"
  },
  "pageSize": 0
}
```

Response Class

```
{
  "usageLineItems": [
    {
      "resourceId": "string",
      "usageDate": "2020-09-06T01:52:20.781Z",
      "reportedDate": "2020-09-06T01:52:20.781Z",
      "customerName": "string",
      "advisorMpnId": "string",
      "billingMpnId": "string",
      "primaryDomain": "string",
      "subscriptionId": "string",
      "resourceGroup": "string",
      "instanceData": "string",
      "tags": "string",
      "meterCategory": "string",
      "meterSubCategory": "string",
      "meterName": "string",
      "meterRegion": "string",
      "quantity": 0,
      "unit": "string",
      "sourceCurrency": "string",
      "targetCurrency": "string",
    }
  ]
}
```

```

"rrp": 0,
"cost": 0,
"azureResourceId": "string",
"usageStartDate": "2020-09-06T01:52:20.781Z",
"usageEndDate": "2020-09-06T01:52:20.781Z"
}
],
"token": {
"nextPartitionKey": "string",
"nextRowKey": "string",
"nextTableName": "string",
"targetLocation": "Primary"
}
}
}

```

Azure Plan

https://api.prismportal.online/swagger/ui/index#!/Microsoft_CSP/AzureUsageInfo_GetAzureUsageForPeriod

POST /api/v2/microsoftcsp/azure/usage/detailed

Request Class

```

{
"subscriptionId": "string",
"startDate": "2020-09-06T01:52:20.795Z",
"endDate": "2020-09-06T01:52:20.795Z",
"page": 0,
"pageSize": 0
}

```

Response Class

```

{
"page": 0,
"pageSize": 0,
"totalRecords": 0,
"records": [
{
"subscriptionId": "string",
"customerName": "string",
"vendorSubscriptionId": "string",
"billingMpnId": "string",
"advisorMpnId": "string",
"primaryDomain": "string",
"billableContractAgreementId": "string",
"usageDate": "2020-09-06T01:52:20.790Z",
"currency": "string",
"partnerCost": 0,
"rrp": 0,
"vendorFxRate": 0,
"meterId": "string",
"meterName": "string",
"meterCategory": "string",

```

```
"meterSubCategory": "string",
"meterRegion": "string",
"meterType": "string",
"consumedService": "string",
"resourceUri": "string",
"resourceLocation": "string",
"resourceGroup": "string",
"tags": "string",
"additionalInfo": "string",
"quantity": 0,
"unit": "string",
"productId": "string",
"productName": "string",
"skuId": "string",
"skuName": "string"
}
]
}
```

New API Endpoint for Downloading Usage Files

To address performance issues associated with concurrent requests to access Azure usage data using existing API endpoints, a new API endpoint has been introduced allowing download of pre-aggregated Azure usage data from Azure storage account.

Azure usage data is prepared by subscription, year and month every day for the last two months and saved in csv format in Azure storage account.

The API endpoint returns the URL inclusive of shared access signature (sas token) which can be used to download the Azure usage data file.

API endpoint

https://api.prismportal.online/swagger/ui/index#!/Azure/AzureUsageInfo_GetMonthlyAzureUsageFileForSubscription

Request:

GET /api/v2/microsoftsp/azure/usage/subscriptions/{subscriptionId}/monthly/{year}/{month}

- `subscriptionId` is constrained to `Guid` data type. It is the specified subscription Id.
- `year` is constrained to `int` data type. It is the Usage Year.
- `month` is constrained to `int` data type. It is the Usage Month.

Results:

- **HTTP 200 - OK**

Valid subscription, year and month and data is available.

Response Class

```
{
  "file": {
    "url": "https://prodprismsafiles.blob.storage.windows.net/azure-usage/subscriptions/<guid>/monthly/<year>/<month>/azure-usage.csv?<sas-token>",
    "urlExpiry": "<date/time>",
    "lastModified": "<date/time>"
  }
}
```

- file.url - URL to blob in storage account with shared access signature valid for 30 minutes
- file.urlExpiry - UTC time when SAS expires
- file.lastModified - UTC time when blob in the storage account was last modified

- **HTTP 400 - Bad Request**

Invalid month/year combination.

Response

The month and year combination is invalid.

- **HTTP 401 - Unauthorized**

Request is not authorized to access the endpoint.

Response

Authorization has been denied for this request.

- **HTTP 404 - Not Found**

Valid subscription, year and month and data is not available.

Response

Azure usage data not available.

- **HTTP 400 - Bad Request**

Request is not authorized to access the subscription.

Response

Customer program agreement item does not exist or insufficient privileges

Azure Usage data file

Files are created and stored in Azure storage account with the file name 'azure-usage.csv'. Each file contains data of a subscription, year and month.

Data is saved in csv format with each field quoted and quote also used as an escape character. Files are compressed using gzip compression before being saved in storage account allowing for reduced file size for

storage and download. All modern http clients can perform decompression on the fly and provide decompressed csv file eliminating the need to perform manual decompression.

Azure Usage data file includes the following fields

- Billable Contract Agreement ID
- Usage Date
- Currency
- Partner Price
- Retail Price
- Vendor FX Rate
- Meter ID
- Meter Name
- Meter Category
- Meter Subcategory
- Meter Region
- Meter Type
- Consumed Service
- Resource URI
- Resource Location
- Resource Group
- Tags
- Additional Info
- Quantity
- Unit
- Product ID
- Product Name
- SKU ID
- SKU Name

Below fields provided by older endpoints have not been included in the Azure usage data file.

- Customer Name
- Vendor Subscription Id
- Billing Mpn Id
- Advisor Mpn Id
- Primary Domain
- Subscription Name