Preface

Structure of the manuals

<table>
<thead>
<tr>
<th>Manual Title</th>
<th>Purposes and Methods of Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>IaaS API Reference</td>
<td>Detailed reference for using the REST API.</td>
</tr>
<tr>
<td>• Foundation Service</td>
<td></td>
</tr>
<tr>
<td>• Network</td>
<td></td>
</tr>
<tr>
<td>• Application Platform Service</td>
<td></td>
</tr>
<tr>
<td>• Management Administration</td>
<td></td>
</tr>
<tr>
<td>• Contract Management (this document)</td>
<td></td>
</tr>
<tr>
<td>IaaS Features Handbook</td>
<td>Explains the features provided by this service.</td>
</tr>
<tr>
<td>IaaS API User Guide</td>
<td>Explains how to use the REST API, how to build the API runtime environment, and sample scripts according to usage sequences, etc.</td>
</tr>
</tbody>
</table>

Trademarks

- Adobe, the Adobe logo, Acrobat, and Adobe Reader are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.
- Apache and Tomcat are either registered trademarks or trademarks of The Apache Software Foundation in the United States and/or other countries.
- Microsoft, Windows, and Windows Server are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- VMware, the VMware logo and VMotion are registered trademarks or trademarks of VMware, Inc. in the United States and other countries.
- The OpenStack Word Mark is either a registered trademark/service mark or trademark/service mark of the OpenStack Foundation, in the United States and other countries and is used with the OpenStack Foundation's permission.
- Oracle and Java are registered trademarks of Oracle and/or its affiliates.
- Red Hat is a registered trademark of Red Hat, Inc. in the U.S. and other countries.
- UNIX is a registered trademark of The Open Group.
- Akamai and Akamai Intelligent Platform are registered trademarks or trademarks of Akamai Technologies, Inc.

Note that trademark symbols (™ or ®) are not appended to system names or product names used in this document.

Export restrictions

Exportation/release of this document may require necessary procedures in accordance with the regulations of your resident country and/or US export control laws.

Notes

- In this document it is assumed that APIs are executed using curl commands. It is also assumed that "bash" will be used as the execution environment for curl commands.
- For details on the characters that can be used for each service described in this document, refer to "Character Strings Specifiable for Names" in the "Features Handbook".
Notice

- Information in this document may be subject to change without prior notice.
- No part of the content of this document may be reproduced without the written permission of Fujitsu Limited.
- Information in this document is the latest information as of the date of revision.
- Fujitsu assumes no responsibility for infringement of any patent rights or other rights of third parties arising from the use of information in this document.
## Revision History

<table>
<thead>
<tr>
<th>Edition</th>
<th>Date of Update</th>
<th>Location</th>
<th>Overview</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>February 22, 2018</td>
<td>Preface</td>
<td>Description modified</td>
</tr>
<tr>
<td>2.1.1</td>
<td>April 19, 2018</td>
<td>Entire document</td>
<td>Expression modified</td>
</tr>
<tr>
<td>2.2</td>
<td>June 29, 2018</td>
<td>Obtaining the Interim Billing Information (GET /v1/charges/transition/YYYY/MM)</td>
<td>Description modified</td>
</tr>
<tr>
<td>2.3</td>
<td>December 20, 2018</td>
<td>Preface</td>
<td>Description added</td>
</tr>
</tbody>
</table>
Contents

Part 1: Usage Status Display

1.1 Billing Information Display
1.1.1 API List
1.1.2 General Requirements
1.1.3 Common API Error Information
1.1.4 API Details
1.1.4.1 Obtaining the Final billing information (GET /v1/charges/YYYY/MM)
1.1.4.2 Obtaining the Interim Billing Information (GET /v1/charges/transition/YYYY/MM)

Part 2: Product Management

2.1 Product Management
2.1.1 API List
2.1.2 General Requirements
2.1.3 API Details
2.1.3.1 Obtaining the List of Products and Price information (GET /v1.0/allproducts)

Part 3: Contract Management

3.1 Contract Management
3.1.1 API List
3.1.2 General Requirements
3.1.3 Common API Items
3.1.4 Common API Error Information
3.1.5 API Details
3.1.5.1 Obtaining the Confidential Information of Subscriber's organization (GET /v1/confidential/domains/{domain_id})
3.1.5.2 Start Usage of Region (POST /v1/contracts/{domain_id}?action=startRegion)
3.1.5.3 Obtaining the Information from Region in Use (GET /v1/contracts/{domain_id}?action=getRegion)
3.1.5.4 Region List (GET /v1/regions?region_id={region_id})
Part 1: Usage Status Display

Topics:

• Billing Information Display
1.1 Billing Information Display

1.1.1 API List

<table>
<thead>
<tr>
<th>No.</th>
<th>API Name</th>
<th>Process Overview</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GET /v1/charges/YYYY/MM</td>
<td>Get the final Billing Information for each month</td>
</tr>
<tr>
<td></td>
<td>Get the final Billing Information for each month</td>
<td>To get the final billing information of each month in accordance with specified period and conditions.</td>
</tr>
<tr>
<td>2</td>
<td>GET /v1/charges/transition/YYYY/MM</td>
<td>Get Interim Billing Information for specified date and time of each month.</td>
</tr>
<tr>
<td></td>
<td>Get Interim Billing Information for specified date and time of each month.</td>
<td>To get the interim billing information of each month in accordance with specified period and conditions.</td>
</tr>
</tbody>
</table>

1.1.2 General Requirements

This section describes the general requirements for using this API.

• Request parameter must be sent through HTTP GET unless otherwise specified.

1.1.3 Common API Error Information

Common API error information (response) is shown below.

**Status**

Returns the status of the request.

- 400: If there is an invalid parameter.
- 401: Authentication error. Authentication token does not exist, or if there is an error in the authentication token.
- 404: If the specified URL does not exist, or if there is an error in the URL.
- 415: If an invalid content type is specified.
- 500: If an unexpected error has occurred.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Int</td>
<td>1..1</td>
</tr>
</tbody>
</table>

1.1.4 API Details

1.1.4.1 Obtaining the Final billing information (GET /v1/charges/YYYY/MM)

To get the final billing information of each month in accordance with specified period and conditions.
Billing information of specific month can be obtained by specifying the 4 digits of the year as "YYYY" and the 2 digits of the month as "MM" in URI. For example: To get billing information of 2015/03 specify "/v1/charges/2015/03" in the URI.

**Request Headers**

**X-Auth-Token:**
Specify the authentication token ID.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
</tr>
</tbody>
</table>

**Request Parameter**

Refine search criteria can be specified with the following key. Each key is searched for an exact match.

**domain_id**
Specify the domain ID in refine search criteria. The default domain ID obtained from the authentication token is used.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
</tr>
</tbody>
</table>

**project_id**
Specify the Project ID in refine search criteria. Specifying this returns the aggregated billing information of every project.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
</tr>
</tbody>
</table>

**product_id**
Specify Product ID in refine search criteria.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
</tr>
</tbody>
</table>

**service_id**
Specify Service ID in refine search criteria.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
</tr>
</tbody>
</table>

**region_id**
Specify Region ID (where resources are deployed) in refine search criteria.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
</tr>
</tbody>
</table>
Response Headers

**Status**
Returns the status of the request.
As per below or according to the status described in [Common API Error Information].

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Successful completion</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Int</td>
<td>1..1</td>
</tr>
</tbody>
</table>

**Content-Type**
application/json

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
</tr>
</tbody>
</table>

Response Elements

**last_modified**
Last modified date and time (UTC) of this data.
Displayed in ISO-8601 format as follows.
YYYY-MM-DD'T'hh:mm:ss.sss
It does not specify time zone.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**billing_month**
Billing of the required month will be displayed in below format.
"YYYY-MM".

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**sub_div**
Sub division of billing. Depending on the category, the following string is returned.

Each Domain:  
"D"
Each Project :  
"P"

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**domain_id**
Billable Domain ID.
<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**project_id**
Billable Project ID.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**line_seq**
Line number on the description.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**detail_div**
Details on the description. Depending on the category, the following string is returned.

- Fixed Amount: 01
- Time Period: 02
- Usage: 03
- Discount: 04
- SubTotal: 05
- Adjust: 07
- Total: 08
- Comment: 99

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**reseller_id**
Reseller ID of the Subscriber

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**product_id**
Billable Product ID

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**region_id**
Billable Region ID
<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**service_provider_id**

Service Provider ID of the product

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**product_name**

Array containing the product name for each language.
List of each element with object type has following members.

- "lang"(String) : Language Code(ISO639-1)
- "value"(String) : Product Name

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Array</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**comment**

Array containing remarks information for each language.
List of each element with object type has following members.

- "lang"(String) : Language Code(ISO639-1)
- "value"(String) : Remarks

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Array</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**usage**

Billing as per Usage

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**unit_price**

Unit price of products

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**unit_name**

Array containing units of usage for each language.
List of each element with object type has following members.

- "lang"(String) : Language Code(ISO639-1)
- "value"(String) : String that represents the unit.
<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Array</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**charge**
Billing Amount

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**currency_code**
Currency code of the billing amount (ISO4217)

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**Example of Request**

```
GET /v1/charges/2014/06
HTTP/1.1
X-Auth-Token: "JpZCi6ICJjM2V1NZa4TZhtZr0ZGRm0TJjm0d4..."
```

**Example of Response**

```
HTTP/1.1 200 OK
Content-Type : application/json

[{
  "last_modified": "2014-07-01T12:00:00.000",
  "billing_month": "2014-06",
  "sub_div": "D",
  "domain_id": "ca-1a2b3c4d5e",
  "project_id": "capj-1a2b3c4d5e",
  "line_seq": 1,
  "detail_div": "01",
  "reseller_id": "ResellerId",
  "product_id": "P01C010001",
  "region_id": "jp-east-1",
  "service_provider_id": "fujitsu.com",
  "service_id": "compute",
  "product_name": [
    { "lang": "ja", "value": "syouhimmei" },
    { "lang": "en", "value": "Product Name" },
    { "lang": "de", "value": "Produktnname" }
  ],
  "comment": [
    { "lang": "ja", "value": "bikou" },
    { "lang": "en", "value": "Notes" },
    { "lang": "de", "value": "Bemerkungen" }
  ],
  "usage": 400,
  "unit_price": 100,
  "unit_name": [
    { "lang": "ja", "value": "GB" },
    { "lang": "en", "value": "GB" },
    { "lang": "de", "value": "GB" }
  ]
}]
```
1.1.4.2 Obtaining the Interim Billing Information (GET /v1/charges/transition/YYYY/MM)

To get the interim billing information of each month in accordance with specified period and conditions.

Billing information of specific month can be obtained by specifying the 4 digits of the year as "YYYY" and the 2 digits of the month as "MM" in URI. For example: To get billing information of 2015/03 specify "/v1/charges/transition/2015/03" in the URI.

The start time of charging is defined 0 o'clock at the beginning of specified month, and the closing time of charging is time at the end of the day returned by collected_at.

Example: When returned "collected_at" is 2017-05-15T00:00:00.000, the usage amount from 0 o'clock on May 1, 2017 until 24 o'clock of May 15 at 2017 is returned.

Request Headers

X-Auth-Token:

Specify the authentication token ID.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
</tr>
</tbody>
</table>
### Request Parameter

**start_date**

Specify start date and time in search range to display Collection period. (collected_at).

(ISO8601 Format: YYYY-MM-DD'T'hh:mm:ss.sss)

This parameter is for specifying the range of time of the charge, not specifying the starting time of the billing total. Charging information corresponding to collected_at falling within the range of start_date and end_date is returned.

Since collected_at is represented by the beginning time (00:00:00) of the charge closing date, set the date and time 24 hours before the time you want to specify.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1 [Mandatory]</td>
</tr>
</tbody>
</table>

**end_date**

Specify end date and time in search range to display Collection period. (collected_at).

(ISO8601 Format: YYYY-MM-DD'T'hh:mm:ss.sss)

This parameter is for specifying the range of time of the charge, not specifying the closing time of the billing total. Charging information corresponding to collected_at falling within the range of start_date and end_date is returned.

Since collected_at is represented by the beginning time (00:00:00) of the account closing date, set the date and time 24 hours before the time you want to specify.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1 [Mandatory]</td>
</tr>
</tbody>
</table>

**domain_id**

Specify the domain ID in refine search criteria. The default domain ID obtained from the authentication token is used.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
</tr>
</tbody>
</table>

**project_id**

Specify the Project ID in refine search criteria. Specifying this returns the aggregated billing information of every project.

Specify the Project ID in refine search criteria. When specified, return billing information totalized only for the designated project. Sub_div of the response element in this case is "P".

If omitted, totalized all the projects in the domain specified by domain_id (obtained from the authentication token when domain_id is omitted) instead of individual for each project, and return the totalized billing information. Sub_div of the response information in this case is "D".

Whether the summary range is the entire domain or the specified project depends on the specification of this parameter regardless of the specification of domain_id.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
</tr>
</tbody>
</table>

**product_id**

- 9 -
Specify Product ID in refine search criteria.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
</tr>
</tbody>
</table>

**service_id**
Specify Service ID in refine search criteria.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
</tr>
</tbody>
</table>

**region_id**
Specify Region ID (where resources are deployed) in refine search criteria.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
</tr>
</tbody>
</table>

Response Headers

**Status**
Returns the status of the request. As per below or according to the status described in [Common API Error Information].

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Int</td>
<td>1..1</td>
</tr>
</tbody>
</table>

**Content-Type**
application/json

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
</tr>
</tbody>
</table>

Response Elements

**last_modified**
Last modified date and time (UTC) of this data. Displayed in ISO-8601 format as follows. YYYY-MM-DD'T'hh:mm:ss.sss It does not specify time zone.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**billing_month**
Billing of the required month will be displayed in below format.
"YYYY-MM".

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**collected_at**

Collection period of the data. The data indicated are calculated on the basis of usage of from Day 1, 00:00 Hrs of the month to date that is specified in the element "billing_month".

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**sub_div**

Sub division of billing. Depending on the category, the following string is returned.

- Each Domain: "D"
- Each Project : "P"

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**domain_id**

Billable Domain ID.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**project_id**

Billable Project ID.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**line_seq**

Line number on the description.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**detail_div**

Details on the description. Depending on the category, the following string is returned.

- Fixed Amount : 01
- Time Period : 02
- Usage : 03
- Discount : 04
- SubTotal : 05
<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**reseller_id**  
Reseller ID of the Subscriber

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**product_id**  
Billable Product ID

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**region_id**  
Billable Region ID

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**service_provider_id**  
Service Provider ID of the product

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**product_name**  
Array containing the product name for each language.  
List of each element with object type has following members.

- "lang"(String) : Language Code (ISO639-1)  
- "value"(String) : Product Name

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Array</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**comment**  
Array containing remarks information for each language.  
List of each element with object type has following members.

- "lang"(String) : Language Code (ISO639-1)
<table>
<thead>
<tr>
<th><strong>Data Type</strong></th>
<th><strong>Cardinality</strong></th>
<th><strong>Parent Element</strong></th>
<th><strong>Child Element(s)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Array</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**usage**
Billing as per Usage

<table>
<thead>
<tr>
<th><strong>Data Type</strong></th>
<th><strong>Cardinality</strong></th>
<th><strong>Parent Element</strong></th>
<th><strong>Child Element(s)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**unit_price**
Unit price of products

<table>
<thead>
<tr>
<th><strong>Data Type</strong></th>
<th><strong>Cardinality</strong></th>
<th><strong>Parent Element</strong></th>
<th><strong>Child Element(s)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**unit_name**
Array containing units of usage for each language.
List of each element with object type has following members.

- "**lang**"(String) : Language Code (ISO639-1)
- "**value**"(String) : String that represents the unit.

<table>
<thead>
<tr>
<th><strong>Data Type</strong></th>
<th><strong>Cardinality</strong></th>
<th><strong>Parent Element</strong></th>
<th><strong>Child Element(s)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Array</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**charge**
Billing Amount

<table>
<thead>
<tr>
<th><strong>Data Type</strong></th>
<th><strong>Cardinality</strong></th>
<th><strong>Parent Element</strong></th>
<th><strong>Child Element(s)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**currency_code**
Currency code of the billing amount (ISO4217)

<table>
<thead>
<tr>
<th><strong>Data Type</strong></th>
<th><strong>Cardinality</strong></th>
<th><strong>Parent Element</strong></th>
<th><strong>Child Element(s)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**Example of Request**

```
GET /v1/charges/transition/2018/05?
start_date=2018-05-02T00:00:00.000&end_date=2018-05-06T00:00:00.000&region_id=de-1
```
HTTP/1.1 200 OK
Content-Type: application/json

[
{
"last_modified": "2018-05-03T06:34:36.000",
"billing_month": "2018-05",
"sub_div": "D",
"collected_at": "2018-05-02T00:00:00.000",
"domain_id": "59856ae83b.....",
"project_id": "",
"line_seq": 134,
"detail_div": "03",
"reseller_id": "jp.fujitsu.com",
"product_id": "VMXXXX",
"region_id": "de-1",
"service_provider_id": "fcx.fujitsu.com",
"service_id": "compute",
"product_name": [
{
"lang": "en",
"value": "Virtual Server S-1 type"
}
],
"comment": [
],
"usage": 352,
"unit_price": 7.88,
"unit_name": [
{
"lang": "en",
"value": "Number*Hours"
}
],
"charge": 2773.76,
"currency_code": "JPY"
},
{
"last_modified": "2018-05-04T06:31:029",
"billing_month": "2018-05",
"sub_div": "D",
"collected_at": "2018-05-03T00:00:00.000",
"domain_id": "59856ae83b.....",
"project_id": "",
"line_seq": 134,
"detail_div": "03",
"reseller_id": "jp.fujitsu.com",
"product_id": "VMXXXX",
"region_id": "de-1",
"service_provider_id": "fcx.fujitsu.com",
"service_id": "compute",
"product_name": [
{
"lang": "en",
"value": "Virtual Server S-1 type"
}
],
"comment": [
],
"usage": 528,
"unit_price": 7.88,
"unit_name": [
{
"lang": "en",
"value": "Number*Hours"
}
]
"charge": 6934.4,
"currency_code": "JPY"
],
{
"last_modified": "2018-05-07T06:07:30.022",
"billing_month": "2018-05",
"sub_div": "D",
"collected_at": "2018-05-06T00:00:00.000",
"domain_id": "59856ae83b.....",
"project_id": "",
"line_seq": 134,
"detail_div": "03",
"reseller_id": "jp.fujitsu.com",
"product_id": "VMXXXX",
"region_id": "de-1",
"service_provider_id": "fcx.fujitsu.com",
"service_id": "compute",
"product_name": [
{
"lang": "en",
"value": "Virtual Server S-1 type"
}
],
"comment": [
],
"usage": 1056,
"unit_price": 7.88,
"unit_name": [
{
"lang": "en",
"value": "Number*Hours"
}
],
"charge": 8321.28,
"currency_code": "JPY"}
Part 2: Product Management

Topics:

• Product Management
2.1 Product Management

2.1.1 API List

<table>
<thead>
<tr>
<th>No.</th>
<th>API Name</th>
<th>Process Overview</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GET /v1.0/allproducts</td>
<td>Obtain the list of products and price information (service name, category name, product name, unit, unit price) from the user product catalogue.</td>
</tr>
</tbody>
</table>

2.1.2 General Requirements

This section describes the general requirements for using this API.

- Request parameter must be sent through HTTP GET unless otherwise specified.

2.1.3 API Details

2.1.3.1 Obtaining the List of Products and Price information (GET /v1.0/allproducts)

Obtain the list of products and price information (service name, category name, product name, unit, unit price) from the user product catalogue.

Request Headers

- **X-Auth-Token**
  - Specify the authentication token ID.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
</tr>
</tbody>
</table>

Request Parameter

- **Locale**
  - Specify the language of the product information in the product catalogue (Language which is specified in "Service in' will be used).
  - In case of Japanese, English, German, as shown below.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
</tr>
</tbody>
</table>

- ja: Japanese
- en: English
- de: German
**ResellerId**
Specify the Reseller ID.
The Reseller ID which belongs to the user will be considered if it is not specified.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
</tr>
</tbody>
</table>

**ServiceProviderId**
Specify the Service provider ID.
The entire Service provider ID will be considered if it is not specified.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
</tr>
</tbody>
</table>

**RegionId**
Specify the Region ID
The entire Region ID will be considered if it is not specified.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
</tr>
</tbody>
</table>

**ServiceId**
Specify the Service ID
The entire Service ID will be considered if it is not specified.
Service ID's which exists are as follows.

- compute: Compute
- network: Network
- image: Image
- software: Software
- blockstorage: Blockstorage
- objectstorage: Objectstorage
- database: Database
- loadbalancing: Loadbalancer
- dns: DNS
- telemetry: Monitoring
- queue: Message Queue
- mail: Mail Delivery
- vpnaas: VPN
- deploy: Application Deployment
- support: Support

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
</tr>
</tbody>
</table>
Basedate
Specify the reference date.
Specify the reference date in accordance with the following ISO8601 compliance.
YYYY-MM-DD
However, the above mentioned reference date cannot be specified as a future date (current and past dates only). If specified it will cause an error.
System Date will be used in case if it is not specified.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
</tr>
</tbody>
</table>

Response Headers

Content-Type
"Application/xml" will be specified.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
</tr>
</tbody>
</table>

Response Elements

CatalogList
Displays the entire product and price information (root element).

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>None</td>
<td>Catalog</td>
</tr>
</tbody>
</table>

Catalog
Displays the product and price information that are attached to 1 reseller.
* Conditions when tags are not displayed are as follows.
When there is no product information (product ID) in catalog or if it is disabled completely.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
<td>CatalogList</td>
<td>ResellerId, Region</td>
</tr>
</tbody>
</table>

ResellerId
Reseller ID
* If Catalog tag is not displayed, then this tag also will not be displayed.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
<td>Catalog</td>
<td>None</td>
</tr>
</tbody>
</table>

Region
Displays the product and price information attached to 1 region.
* Conditions when tags are not displayed are as follows.
When there is no region information (RegionID) in catalog or if it is disabled completely.
* If Catalog tag is not displayed, then this tag also will not be displayed.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..n</td>
<td>Catalog</td>
<td>RegionId, ServiceProvider</td>
</tr>
</tbody>
</table>

**RegionId**
Region ID
* If Catalog and Region tags are not displayed, then this tag will also not be displayed.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
<td>Region</td>
<td>None</td>
</tr>
</tbody>
</table>

**ServiceProvider**
Displays the product and price information attached to 1 service provider.
* If Catalog and Region tags are not displayed, then this tag will also not be displayed.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..n</td>
<td>Region</td>
<td>ServiceProviderId, Service</td>
</tr>
</tbody>
</table>

**ServiceProviderId**
Service Provider ID
* If Catalog and Region tags are not displayed, then this tag will also not be displayed.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
<td>ServiceProvider</td>
<td>None</td>
</tr>
</tbody>
</table>

**Service**
Displays the product and price information attached to 1 service.
* Conditions when tags are not displayed are as follows.
When there is no service information (ServiceName) in catalog or if it is disabled completely.
* If Catalog and Region tags are not displayed, then this tag will also not be displayed.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..n</td>
<td>ServiceProvider</td>
<td>ServiceName, Category</td>
</tr>
</tbody>
</table>

**ServiceName**
Service Name
The following are the attributes.
xml:lang: Locale
* If Catalog, Region and Service tag does not display, then this tag also will not be displayed.
**Category**
Displays the product and price information attached to 1 category.
* Conditions when tags are not displayed are as follows.
When there is no category information (CategoryName) in catalog or if it is disabled completely.
* If Catalog, Region and Service tag does not display, then this tag also will not be displayed.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..n</td>
<td>Service</td>
<td>CategoryName, Product</td>
</tr>
</tbody>
</table>

**CategoryName**
Category Name
The following are the attributes.
xml:lang: Locale
* If Catalog, Region, Service and Category tags are not displayed, then this tag will also not be displayed.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
<td>Category</td>
<td>None</td>
</tr>
</tbody>
</table>

**Product**
Displays the products and price information that is attached to 1 product.
* Conditions when tags are not displayed are as follows.
If neither the product information (Product Name), nor the unit information (unit information) exists in Product, or if it is disabled completely.
* If Catalog, Region, Service and Category tags are not displayed, then this tag will also not be displayed.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..n</td>
<td>Category</td>
<td>ProductId, ProductName, UnitName, InitialCharge, MonthlyChargeInfo</td>
</tr>
</tbody>
</table>

**ProductId**
Product ID
* If Catalog, Region, Service, Category and Product tags are not displayed, then this tag will also not be displayed.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
<td>Product</td>
<td>None</td>
</tr>
</tbody>
</table>

**ProductName**
Product ID
The following are the attributes.
xml:lang: Locale
* If Catalog, Region, Service, Category and Product tags are not displayed, then this tag will also not be displayed.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
<td>String</td>
<td>1..1</td>
</tr>
</tbody>
</table>

**UnitName**
Unit name
The following are the attributes.

xml:lang: Locale
* If Catalog, Region, Service, Category and Product tags are not displayed, then this tag will also not be displayed.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
<td>Product</td>
<td>None</td>
</tr>
</tbody>
</table>

**InitialCharge**
Displays the initial price information.
* If Catalog, Region, Service, Category and Product tags are not displayed, then this tag will also not be displayed.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
<td>Product</td>
<td>UnitPrice</td>
</tr>
</tbody>
</table>

**UnitPrice**
Product unit cost (initial cost)
The following are the attributes.

- `currencyid:` Currency ID to be applied to the product unit price (currency code of ISO 4217)

Returns the currency ID which the operator had registered before.
Therefore, the upper limit of the number of occurrences (n) of element will become the number of registered currency ID.
If the unit price for the currency ID is not specified, only the tag containing the attribute (without value) is returned.
* If Catalog, Region, Service, Category and Product tags are not displayed, then this tag will also not be displayed.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..n</td>
<td>InitialCharge</td>
<td>None</td>
</tr>
</tbody>
</table>

**MonthlyChargeInfo**
[If the accounting system is either fixed billing or usage-based billing]
Displays the monthly price information
The following are the attributes.

- `order:` Registration sequence
Fixed value (*1*).

* If Catalog, Region, Service, Category and Product tags are not displayed, then this tag will also not be displayed.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
<td>Product</td>
<td>UnitPrice</td>
</tr>
</tbody>
</table>

[If the billing system is variable usage billing]
Shows the monthly price information that includes the information about the variations.
The following are the attributes.

- order: Registration sequence
  The number registered by the user will be assigned in a specified order.

* If Catalog, Region, Service, Category and Product tags are not displayed, then this tag will also not be displayed.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..n</td>
<td>Product</td>
<td>Description</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>UnitPrice</td>
</tr>
</tbody>
</table>

**Description**

[If the accounting system is either fixed billing or usage-based billing]
Since the value does not change, this information is not used (Not returned for both Tag and value)

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..0</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

[If the billing system is variable usage billing]
Description regarding the price fluctuation.
The following are the attributes.

- xml:lang: Locale

* If Catalog, Region, Service, Category and Product tags are not displayed, then this tag will also not be displayed.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
<td>MonthlyChargeInfo</td>
<td>None</td>
</tr>
</tbody>
</table>

**UnitPrice**

Product unit price (monthly fee)
The following are the attributes.

- currencyid: Currency ID to be applied to the product unit price (currency code of ISO 4217)

Returns the currency ID which the operator had registered before.
Therefore, the upper limit of the number of occurrences (n) of element will become the number of registered currency ID.
If the unit price for the currency ID is not specified, only the tag containing the attribute (without value) is returned.
* If Catalog, Region, Service, Category and Product tags are not displayed, then this tag will also not be displayed.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..n</td>
<td>MonthlyChargeInfo</td>
<td>None</td>
</tr>
</tbody>
</table>

**Example of Request**

GET
/v1.0/allproducts?Locale=en&Basedate=2014-08-31
X-Auth-Token:MIIZuwYjKoZIhvQa...(Authentication Token ID is not mentioned).

**Example of Response**

*If Billing method is Fixed billing, Usage based Billing and Unit price is specified*

HTTP/1.1 200 OK
Date: Sun, 31 Aug 2014 00:00:00 GMT
Content-Length: 5000
Content-Type: application/xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<CatalogList>
  <Catalog>
    <ResellerId>jp.fujitsu.com</ResellerId>
    <Region>
      <RegionId>jp-east-1</RegionId>
      <ServiceProvider>
        <ServiceProviderId>fcx.fujitsu.com</ServiceProviderId>
        <Service>
          <ServiceName xml:lang="en">compute</ServiceName>
          <Category>
            <CategoryName xml:lang="en">VM Service</CategoryName>
            <Product>
              <ProductId>VM00001</ProductId>
              <ProductName xml:lang="en">VM Service S-1 Type</ProductName>
              <UnitName xml:lang="en">hours</UnitName>
              <InitialCharge>
                <UnitPrice currencyid="JPY">0</UnitPrice>
                <UnitPrice currencyid="AUD">0</UnitPrice>
                ...(* Multiple UnitPrice responses also possible)
              </InitialCharge>
              <MonthlyChargeInfo order="1">
                <UnitPrice currencyid="JPY">10</UnitPrice>
                <UnitPrice currencyid="AUD">0.01</UnitPrice>
                ...(* Multiple UnitPrice responses also possible)
              </MonthlyChargeInfo>
            </Product>
            ...(* Multiple Product responses also possible)
          </Category>
          ...(* Multiple category responses also possible)
        </Service>
        ...(* Multiple Service responses also possible)
      </ServiceProvider>
      ...(* Multiple Service Provider responses also possible)
    </Region>
    ...(* Multiple Region responses also possible)
  </Catalog>
</CatalogList>
```
[If the billing method is variable usage based billing, specify unit price in currency (JPY) and if currency is not specified in (AUD)].

HTTP/1.1 200 OK
Date: Sun, 31 Aug 2014 00:00:00 GMT
Content-Length: 5000
Content-Type: application/xml

<?xml version="1.0" encoding="UTF-8"?>
<CatalogList>
  <Catalog>
    <ResellerId>jp.fujitsu.com</ResellerId>
    <Region>
      <RegionId>jp-east-1</RegionId>
      <ServiceProvider>
        <ServiceProviderId>fcx.fujitsu.com</ServiceProviderId>
        <Service>
          <ServiceName xml:lang="en">mail</ServiceName>
          <Category>
            <CategoryName xml:lang="en">Mail Send Service</CategoryName>
            <Product>
              <ProductId>ML00001</ProductId>
              <ProductName xml:lang="en">Mail Send Service Mail Count</ProductName>
              <UnitName xml:lang="en">none</UnitName>
              <InitialCharge>
                <UnitPrice currencyid="JPY">0</UnitPrice>
                <UnitPrice currencyid="AUD"></UnitPrice>
                ...(* Multiple UnitPrice responses also possible)
              </InitialCharge>
              <MonthlyChargeInfo order="1">
                <Description xml:lang="en">0[messages/month]</Description>
                <UnitPrice currencyid="JPY">0</UnitPrice>
                <UnitPrice currencyid="AUD"></UnitPrice>
                ...(* Multiple UnitPrice responses also possible)
              </MonthlyChargeInfo>
              <MonthlyChargeInfo order="2">
                <Description xml:lang="en">under 10,000[messages/month]</Description>
                <UnitPrice currencyid="JPY">3500</UnitPrice>
                <UnitPrice currencyid="AUD"></UnitPrice>
                ...(* Multiple UnitPrice responses also possible)
              </MonthlyChargeInfo>
              ...(* Multiple MonthlyChargeInfo responses also possible)
            </Product>
            ...(* Multiple Product responses also possible)
          </Category>
          ...(* Multiple Category responses also possible)
        </Service>
        ...(* Multiple Service responses also possible)
      </ServiceProvider>
      ...(* Multiple ServiceProvider responses also possible)
    </Region>
    ...(* Multiple Region responses also possible)
  </Catalog>
</CatalogList>

[When there is no product information (ProductID) in catalog or if it is disabled completely]

HTTP/1.1 200 OK
Date: Sun, 31 Aug 2014 00:00:00 GMT
Content-Length: 5000
Content-Type: application/xml

<?xml version="1.0" encoding="UTF-8"?>
<CatalogList/>

- 26 -
[When there is no region information (RegionId) in catalog or if it is disabled completely]

HTTP/1.1 200 OK
Date: Sun, 31 Aug 2014 00:00:00 GMT
Content-Length: 5000
Content-Type: application/xml

<?xml version="1.0" encoding="UTF-8"?>
<CatalogList>
  <Catalog>
    <ResellerId>jp.fujitsu.com</ResellerId>
  </Catalog>
</CatalogList>

[When there is no service information (ServiceName) in catalog or if it is disabled completely]

HTTP/1.1 200 OK
Date: Sun, 31 Aug 2014 00:00:00 GMT
Content-Length: 5000
Content-Type: application/xml

<?xml version="1.0" encoding="UTF-8"?>
<CatalogList>
  <Catalog>
    <ResellerId>jp.fujitsu.com</ResellerId>
    <Region>
      <RegionId>jp-east-1</RegionId>
      <ServiceProvider>
        <ServiceProviderId>fcx.fujitsu.com</ServiceProviderId>
      </ServiceProvider>
    </Region>
  </Catalog>
</CatalogList>

[When there is no category information (CategoryName) in catalog or if it is disabled completely]

HTTP/1.1 200 OK
Date: Sun, 31 Aug 2014 00:00:00 GMT
Content-Length: 5000
Content-Type: application/xml

<?xml version="1.0" encoding="UTF-8"?>
<CatalogList>
  <Catalog>
    <ResellerId>jp.fujitsu.com</ResellerId>
    <Region>
      <RegionId>jp-east-1</RegionId>
      <ServiceProvider>
        <ServiceProviderId>fcx.fujitsu.com</ServiceProviderId>
        <Service>
          <ServiceName xml:lang="en">compute</ServiceName>
        </Service>
      </ServiceProvider>
    </Region>
  </Catalog>
</CatalogList>
If neither product information (ProductName), nor the unit information (UnitName) exists or if it is disabled completely (End of Application)

HTTP/1.1 200 OK
Date: Sun, 31 Aug 2014 00:00:00 GMT
Content-Length: 5000
Content-Type: application/xml

<?xml version="1.0" encoding="UTF-8"?>
<CatalogList>
  <Catalog>
    <ResellerId>jp.fujitsu.com</ResellerId>
    <Region>
      <RegionId>jp-east-1</RegionId>
      <ServiceProvider>
        <ServiceProviderId>fcx.fujitsu.com</ServiceProviderId>
        <Service>
          <ServiceName xml:lang="en">compute</ServiceName>
          <Category>
            <CategoryName xml:lang="en">VM Service</CategoryName>
          </Category>
          …(* Multiple Category responses also possible)
        </Service>
      </ServiceProvider>
    </Region>
  </Catalog>
</CatalogList>
Part 3: Contract Management

Topics:
• Contract Management
3.1 Contract Management

3.1.1 API List

<table>
<thead>
<tr>
<th>No.</th>
<th>API Name</th>
<th>Process Overview</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GET /v1/confidential/domains/{domain_id}</td>
<td>Obtain the Subscriber's organizational confidential information that matches</td>
</tr>
<tr>
<td></td>
<td></td>
<td>with the specified domain (company name, subscriber name, etc.)</td>
</tr>
<tr>
<td>2</td>
<td>POST /v1/contracts/{domain_id}?action=startRegion</td>
<td>Start using the region.</td>
</tr>
<tr>
<td>3</td>
<td>GET /v1/contracts/{domain_id}?action=getRegion</td>
<td>Contract matching with the specified domain will obtain the information of the</td>
</tr>
<tr>
<td></td>
<td></td>
<td>region in use (Region ID, status of the region, etc.)</td>
</tr>
<tr>
<td>4</td>
<td>GET /v1/regions?region_id={region_id} for Region List</td>
<td>Obtain the region list.</td>
</tr>
</tbody>
</table>

3.1.2 General Requirements

This section describes the general requirements for using this API.

3.1.3 Common API Items

Common API request header information is shown below.

**Request Headers**

**X-Auth-Token**

Describes the authentication token.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
</tr>
</tbody>
</table>

**Content-Type**

Specify the following in case of PATCH method.

*application/json*

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
</tr>
</tbody>
</table>

3.1.4 Common API Error Information
Common API error information (response) is shown below.

**Status**

Returns the status of the request.

- **400:** If there is an invalid parameter.
- **401:** Authentication error. Authentication token does not exist, or if there is an error in the authentication token.
- **403:** Authentication error. If user is not the authorized subscriber.
- **404:** If the specified URL does not exist, or if there is an error in the URL.
- **500:** If an unexpected error has occurred. In this case no response body will be returned.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Int</td>
<td>1..1</td>
</tr>
</tbody>
</table>

The error information will be returned as follows.

**Response Headers**

- **Content-Length**
  Request length (Byte) excluding header.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
</tr>
</tbody>
</table>

- **Content-Type**
  Content type

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
</tr>
</tbody>
</table>

- **Date**
  Response time

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
</tr>
</tbody>
</table>

- **WWW-Authenticate**
  URL for Authentication Service. Only displayed in cases of authentication error.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>0..1</td>
</tr>
</tbody>
</table>
Response Elements (If status is 401)

Below mentioned text will be returned.
"Authentication required"

Response Elements (If Status is other than 401, 500)

**error**
Error information container.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element</td>
<td>1..1</td>
<td>None</td>
<td>code, title, message, item</td>
</tr>
</tbody>
</table>

**code**
Error Code

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>error</td>
<td>None</td>
</tr>
</tbody>
</table>

**title**
Error Summary

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>error</td>
<td>None</td>
</tr>
</tbody>
</table>

**message**
Error Message

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>error</td>
<td>None</td>
</tr>
</tbody>
</table>

**item**
Item error (Notification only if there is an item error)

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element</td>
<td>0..1</td>
<td>error</td>
<td>item_name</td>
</tr>
</tbody>
</table>

**item_name**
Item name that caused the Error (Parameter name at the time of request)

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>item</td>
<td>message</td>
</tr>
</tbody>
</table>
Error message corresponding to the item.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>item_name</td>
<td>None</td>
</tr>
</tbody>
</table>

**Error Code (code, title, message)**

<table>
<thead>
<tr>
<th>code</th>
<th>title</th>
<th>message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>Bad Request</td>
<td>Parse error</td>
<td>Request Body is incorrect (The root element is different, not in JSON format).</td>
</tr>
<tr>
<td>400</td>
<td>Bad Request</td>
<td>Parameter error.</td>
<td>Parameter error T&lt;br&gt;he input content is incorrect.</td>
</tr>
<tr>
<td>400</td>
<td>Bad Request</td>
<td>Could not find user (%)</td>
<td>The specified user ID does not exist T&lt;br&gt;he specified user ID is %1.</td>
</tr>
<tr>
<td>400</td>
<td>Bad Request</td>
<td>Could not match user in domain.</td>
<td>The specified user ID is not the domain user.</td>
</tr>
<tr>
<td>400</td>
<td>Bad Request</td>
<td>The contract is not active.</td>
<td>Not in contract.</td>
</tr>
<tr>
<td>400</td>
<td>Bad Request</td>
<td>Email address cannot be used.</td>
<td>The specified mail address is disabled.</td>
</tr>
<tr>
<td>400</td>
<td>Bad Request</td>
<td>The user was already contractor.</td>
<td>The specified user is already a subscriber.</td>
</tr>
<tr>
<td>404</td>
<td>Not Found</td>
<td>Could not find domain. (%)</td>
<td>The specified domain ID does not exist T&lt;br&gt;he specified domain ID is %1.</td>
</tr>
</tbody>
</table>

**Item error (item)**

<table>
<thead>
<tr>
<th>message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required.</td>
<td>Required item</td>
</tr>
</tbody>
</table>
| Size error. (Min:%min, Max:%max) | Size Error  
%min : Acceptable minimum number of characters (Set Zero if items can be omitted)  
%max : Acceptable maximum number of characters |
| Invalid format. | Format is incorrect.  
When user name is included in the password,  
When @ symbol is not included in the mail address. |
| Invalid type. | Invalid value is specified.  
In case where "D" is set in places where you can only specify "A", "B", "C". |
<table>
<thead>
<tr>
<th>message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not found.</td>
<td>Information corresponding to the specified values are not registered.</td>
</tr>
<tr>
<td>Already exists.</td>
<td>Information corresponding to the specified values are already existing.</td>
</tr>
</tbody>
</table>

**Example of Response**

**In case of parameter error**
```
{
  "error": {
    "code": 400,
    "title": "Bad Request",
    "message": "Parameter error."
  }
}
```

**In case of authentication error**
```
Authentication required
```

**In case of authorization error**
```
{
  "error": {
    "code": 403,
    "title": "Forbidden",
    "message": "Authorization error."
  }
}
```

**In case the specified organization does not exist.**
```
{
  "error": {
    "code": 404,
    "title": "Not Found",
    "message": "Could not find domain, 304ce7245683491ebaf91ad63c1dd2c."
  }
}
```
3.1.5 API Details

3.1.5.1 Obtaining the Confidential Information of Subscriber's organization (GET /v1/confidential/domains/{domain_id})

To obtain the confidential information of subscriber's organization for the specified domain. (domain_id): Domain ID of the intended subscriber's organization.

Request Headers

Please refer to "Common API Items".

Request Parameter

None

Response Headers

**Status**

In the case of "normal", the status below will be returned.

200: Successful completion

In case of abnormality, please refer to "Common API Error Information".

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Int</td>
<td>1..1</td>
</tr>
</tbody>
</table>

Response Elements

**secure**

Container of Subscriber's organization confidential information.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element</td>
<td>1..1</td>
<td>None</td>
<td>name company emergency</td>
</tr>
</tbody>
</table>

**name**

Container of Subscriber's name

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element</td>
<td>1..1</td>
<td>secure</td>
<td>first last furigana</td>
</tr>
</tbody>
</table>

**first**

Subscriber's Name
<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>name</td>
<td>None</td>
</tr>
</tbody>
</table>

**last**
Subscriber's last name

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>name</td>
<td>None</td>
</tr>
</tbody>
</table>

**furigana**
Container of Subscriber's first and last name (only for Japanese names in "furigana")

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element</td>
<td>1..1</td>
<td>name</td>
<td>first last</td>
</tr>
</tbody>
</table>

**first**
Subscriber's first name (furigana name).

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>furigana</td>
<td>None</td>
</tr>
</tbody>
</table>

**last**
Subscriber's Last name. (furigana name).

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>furigana</td>
<td>None</td>
</tr>
</tbody>
</table>

**company**
Container of Company information

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element</td>
<td>1..1</td>
<td>secure</td>
<td>name</td>
</tr>
</tbody>
</table>

**name**
Company name

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>company</td>
<td>None</td>
</tr>
</tbody>
</table>

**emergency**
Container of emergency point of contact.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element</td>
<td>1..1</td>
<td>secure</td>
<td>email_announce tel</td>
</tr>
</tbody>
</table>
**email_announce**
Contact person's mail address

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>emergency</td>
<td>None</td>
</tr>
</tbody>
</table>

**tel**
Telephone number

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..1</td>
<td>emergency</td>
<td>None</td>
</tr>
</tbody>
</table>

**Example of Request**

GET /v1/confidential/domains/fc8c41d7e36d49f7b66a3f9b1e25fc16
HTTP/1.1
Content-Type: application/json
X-Auth-Token: “JpZC161CjM2VNzA4YTzhZT10ZGRmOTJjMDc4…”

**Example of Response**

HTTP/1.1 200 OK
Content-Length: 272
Content-Type: application/json;charset=UTF-8
{
  "secure": {
    "name": {
      "first": "TARO",
      "last": "FUJITSU",
    },
    "company": {
      "name": "a-company"
    },
    "emergency": {
      "email_announce": "fujitsu.taro@fujitsu.com",
      "tel": "000-000-0000"
    }
  }
}

### 3.1.5.2 Start Usage of Region (POST /v1/contracts/{domain_id}?action=startRegion)
Start the use of the specified region.

{domain_id}: Domain ID of the intended subscriber's organization.

**Request Headers**
Please refer to "Common API Items".
Response Elements

**contract**
Container of contract information.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element</td>
<td>1..1</td>
<td>None</td>
<td>regions</td>
</tr>
</tbody>
</table>

**regions**
Container of region information.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element</td>
<td>1..1</td>
<td>contract</td>
<td>id</td>
</tr>
</tbody>
</table>

**id**
ID of region in use.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..*</td>
<td>Regions</td>
<td>None</td>
</tr>
</tbody>
</table>

Response Headers

**Status**
In the case of "normal", the status below will be returned.

200: Successful completion

In case of abnormality, please refer to "Common API Error Information".

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Int</td>
<td>1..1</td>
</tr>
</tbody>
</table>

Response Elements
None

Example of Request

```plaintext
POST /v1/contracts/fc8c41d7e36d49f7b66a3f9b1e25fc16?action=startRegion
HTTP/1.1
Content-Type: application/json
X-Auth-Token: "JpZCI6ICJjM2VlNzA4YTZhZTI0ZGRmOTJjMDc4..."
{
  "contract": {
    "regions": [
      {
        "id": "jp-east-1"
      },
      {
        "id": "uk-1"
      }
    ]
  }
}
```
3.1.5.3 Obtaining the Information from Region in Use (GET /v1/contracts/{domain_id}?action=getRegion)

To obtain the Region information being used by the Subscriber's organization for the specified domain.

{domain_id}: Domain ID of the intended subscriber's organization.

Request Headers
Please refer to "Common API Items".

Request Parameter
None

Response Headers

**Status**
In the case of "normal", the status below will be returned.

200: Successful completion

In case of abnormality, please refer to "Common API Error Information".

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Int</td>
<td>1..1</td>
</tr>
</tbody>
</table>

Response Elements

**Regions**
Container of region information.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element</td>
<td>1..1</td>
<td>None</td>
<td>id, status, default</td>
</tr>
</tbody>
</table>

**ID**
Region ID

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..*</td>
<td>regions</td>
<td>None</td>
</tr>
</tbody>
</table>

**Status**
Status of Region
<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..*</td>
<td>regions</td>
<td>None</td>
</tr>
</tbody>
</table>

default
In case of true, it will become the Contract Region.

Example of Request

GET /v1/contracts/fc8c41d7e36d49f7b66a3f9b1e25fc16?action=getRegion
HTTP/1.1
Content-Type: application/json
X-Auth-Token: "JpZCI6ICJjM2VlNzA4YTZhZTl0ZGRmOTJjMDc4...”

Example of Response

HTTP/1.1 200 OK
Content-Length: 121
Content-Type: application/json;charset=UTF-8
{
  "regions": [
  {
    "id": "jp-east-1",
    "status": "active",
    "default": "true"
  },
  {
    "id": "uk-1",
    "status": "ready",
    "default": "false"
  }
  ]
}

3.1.5.4 Region List (GET /v1/regions?region_id={region_id})
Displays the region list.
The list can be filtered by specifying the Region ID.
{region_id}: Intended Region ID.

Request Headers
Please refer to "Common API Items".

Request Parameter
None

Response Headers
Status
In the case of "normal", the status below will be returned.
200: Successful completion
In case of abnormality, please refer to "Common API Error Information".

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Int</td>
<td>1..1</td>
</tr>
</tbody>
</table>

**Response Elements**

**Regions**
Container of region information.

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element</td>
<td>1..1</td>
<td>None</td>
<td>id</td>
</tr>
</tbody>
</table>

**Id**
Region ID

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Cardinality</th>
<th>Parent Element</th>
<th>Child Element(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>String</td>
<td>1..*</td>
<td>regions</td>
<td>None</td>
</tr>
</tbody>
</table>

**Example of Request**

GET /v1/regions
HTTP/1.1
Content-Type: application/json
X-Auth-Token: "JpZCI61CJjM2V1NzA4YTZhZTI0ZGRmOTJjMDc4..."

**Example of Response**

HTTP/1.1 200 OK
Content-Length: 51
Content-Type: application/json;charset=UTF-8

```
{  
    "regions": [
      {  
        "id": "jp-east-1"
      },
      {  
        "id": "uk-1"
      }
    ]
}
```