

Oracle® Health Sciences ClearTrial Cloud Service

Web Services API User Guide

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Preface

The Oracle Health Sciences ClearTrial Cloud Service Web Services API User Guide is a reference for ClearTrial users who are creating, editing, and managing studies for their organization with the ClearTrial Web Services Application Programming Interface (API).

Audience

This document is for users who are working with the Oracle Health Sciences ClearTrial Web Services API.

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<http://docs.oracle.com/en/industries/health-sciences/cleartrial-cloud-service/index.html>

Related Documents

For more information, see the following documents in the Oracle Health Sciences ClearTrial Cloud Service Release 5.6 documentation set:

- *Oracle Health Sciences ClearTrial Cloud Service 5.7 Release Notes*
- *Oracle Health Sciences ClearTrial Cloud Service 5.7 Plan and Source User Guide*
- *Oracle Health Sciences ClearTrial Cloud Service 5.7 System Administrator User Guide*

Getting Started: Basic Information

The ClearTrial Web Services API is a simple and powerful web services interface into the ClearTrial software. It is a HTTP-based API that is technology and platform independent.

The API is hosted at:

<https://cleartrial-api.oracleindustry.com/cleartrial-ws>

Requirements for Working with the API

To use the ClearTrial Web Services API, your client must be able to issue HTTP GET, POST, PUT, and DELETE calls. The client can be Java, .NET, Perl, Python, or a command line *curl* call.

User Capabilities

To work with the ClearTrial Web Services API, you must be a licensed user who has been granted the additional role/capability **Can access WS-API** by the system administrator.

Note: The Web Services capabilities are only available to licensed users. Please contact your account manager for details on subscribing to the ClearTrial Web Services API.

Stateless API

The Web Services API that the ClearTrial software exposes is stateless. This means that each call is independent of the previous call, and the information conveyed by the client in the request must be sufficient for the server to understand and act upon the request.

Compression

To decrease network bandwidth usage, if the incoming HTTP request contains the Accept-Encoding HTTP header with gzip value, the ClearTrial software compresses the contents it returns.

Security

All communication with the ClearTrial Web Services API is encrypted and secured using HTTPS connections.

Authentication

The ClearTrial Web Services API supports the Basic Access Authentication scheme.

The ClearTrial Web Services API expects that the *Authorization HTTP* header has already been populated with the Base64 encoding of the username and password (as described in the IETF specification) when accessing the resources. The ClearTrial Web Services API will not challenge the user by sending a *WWW-Authenticate* HTTP header if it detects that the *Authorization HTTP* header is missing.

Every request must also contain the ClearTrial Customer ID in an HTTP header named `customerCode`.

Here is an example of authentication using the UNIX command line tool *curl*:

```
curl --user myLogin:myPassword --header"customerCode: myCustomerCode" --get
https://cleartrial-api.oracleindustry.com/cleartrial-ws/plans/10802/siteInformation
```

ClearTrial Resources

The ClearTrial Web Services API exposes resources through distinct URLs and the HTTP method calls dictate the action that is required to be performed on the identified resource. ClearTrial resources include products (medical devices and drugs), studies, plans, portfolios, and other resources. The ClearTrial Web Services API refers to products as compounds.

Each resource may have zero to many sub-resources. Sub-resources make sense only within the context of the parent resource and, therefore, the sub-resource URLs use the parent resource URL as the base. Examples of resource and sub-resource URLs appear in subsequent chapters.

Daily Limit for Customer Requests

Customers are able to make no more than 500 requests per minute and no more than 10,000 requests per day using the WS-API.

Representations

Every resource has a representation. The representation can appear as XML or JSON, according to user preference. The user can set the *Accept HTTP* header in the request to either `application/xml` or `application/json`, respectively.

In the absence of the *Accept* header, the ClearTrial Web Services API returns the representation in JSON.

An example of an XML representation of a plan resource appears as follows:

```
<plan>
  <id>10801</id>
  <name>Baseline Locked Plan</name>
  <code>test</code>
  <createdBy>administrator</createdBy>
  <createdDate>15-Apr-2010</createdDate>
  <lastModifiedBy>administrator</lastModifiedBy>
  <lastModifiedDate>15-Apr-2010</lastModifiedDate>
  <planState>Draft</planState>
  <outsourcingOption>Combination</outsourcingOption>
  <startDate>01-Apr-2010</startDate>
  <preStudyStartDate>01-Jan-2010</preStudyStartDate>
  <defaultModelingCurrency>USD</defaultModelingCurrency>
```

```

<drugHandlingType>Room Temperature</drugHandlingType>
<radioLabeledDrug>>false</radioLabeledDrug>
<locationsUrl>/cleartrial-ws/plans/10801/locations</locationsUrl>
<siteInformationUrl>/cleartrial-ws/plans/10801/siteInformation
</siteInformationUrl>
<siteApprovalScheduleUrl>/cleartrial-ws/plans/10801/siteApprovalSchedule
</siteApprovalScheduleUrl>
<dataUrl>/cleartrial-ws/plans/10801/data</dataUrl>
<subjectUrl>/cleartrial-ws/plans/10801/subject</subjectUrl>
<treatmentUrl>/cleartrial-ws/plans/10801/treatment</treatmentUrl>
<monitoringInformationUrl>/cleartrial-ws/plans/1001/monitoringInformation
</monitoringInformationUrl>
<monitoringScheduleUrl>/cleartrial-ws/plans/10801/monitoringSchedule
</monitoringScheduleUrl>
<serviceProviderUrl>/cleartrial-ws/plans/10801/serviceProvider
</serviceProviderUrl>
<laborUrl>/cleartrial-ws/plans/10801/labor</laborUrl>
<laborMonthlyByMajorTaskUrl>/cleartrial-ws/plans/10801/
labor?view=monthlyByMajorTask</laborMonthlyByMajorTaskUrl>
<laborMonthlyByResourceUrl>/cleartrial-ws/plans/10801/
labor?view=monthlyByResource</laborMonthlyByResourceUrl>
<costUrl>/cleartrial-ws/plans/10801/cost</costUrl>
<costMonthlyUrl>/cleartrial-ws/plans/10801/cost?view=monthly
</costMonthlyUrl>
<url>/cleartrial-ws/plans/10801</url>
</plan>

```

An example of a JSON representation appears as follows:

```

{
  "id": "10801",
  "name": "Baseline Locked Plan",
  "code": "test",
  "createdBy": "administrator",
  "createdDate": "15-Apr-2010",
  "lastModifiedBy": "administrator",
  "lastModifiedDate": "15-Apr-2010",
  "planState": "Draft",
  "outsourcingOption": "Combination",
  "startDate": "01-Apr-2010",
  "preStudyStartDate": "01-Jan-2010",
  "defaultModelingCurrency": "USD",
  "drugHandlingType": "Room Temperature",
  "radioLabeledDrug": false,
  "locationsUrl": "/cleartrial-ws/plans/10801/locations",
  "siteInformationUrl": "/cleartrial-ws/plans/10801/siteInformation",
  "siteApprovalScheduleUrl": "/cleartrial-ws/plans/10801/siteApprovalSchedule",
  "dataUrl": "/cleartrial-ws/plans/10801/data",
  "subjectUrl": "/cleartrial-ws/plans/10801/subject",
  "treatmentUrl": "/cleartrial-ws/plans/10801/treatment",
  "monitoringInformationUrl": "/cleartrial-ws/plans/10801/monitoringInformation",
  "monitoringScheduleUrl": "/cleartrial-ws/plans/10801/monitoringSchedule",
  "serviceProviderUrl": "/cleartrial-ws/plans/10801/serviceProvider",
  "laborUrl": "/cleartrial-ws/plans/10801/labor",
  "laborMonthlyByMajorTaskUrl": "/cleartrial-ws/plans/labor?view=monthlyByMajorTask",
  "laborMonthlyByResourceUrl": "/cleartrial-ws/plans/labor?view=monthlyByResource",
  "costUrl": "/cleartrial-ws/plans/10801/cost",
  "costMonthlyUrl": "/cleartrial-ws/plans/cost?view=monthly",
  "url": "/cleartrial-ws/plans/10801"
}

```

Every resource representation contains a URL property that indicates to the client the unique URL associated with that instance of the resource.

In the previous examples, `<url>/cleartrial-ws/plans/10801</url>` and `"url": "/cleartrial-ws/plans/10801,"` in the XML and JSON representations, respectively, indicate that the plan resource whose plan ID is 10801 can always be found at that URL location.

The plan representation contains other URL properties such as `locationsUrl`, `siteInformationUrl`, `siteApprovalScheduleUrl`, and others. These are sub-resources under the plan resource and the URLs indicate the locations for that plan resource instance's sub-resources.

For example, the site locations for the plan resource whose ID is 10801 can be found at the URL, `/cleartrial-ws/plans/10801/locations`.

The *curl* Unix command is:

```
curl --user myLogin:myPassword --header"customerCode: myCustomerCode"
--header"Accept: application/json" --get
https://cleartrial-api.oracleindustry.com/cleartrial-ws/plans/10801/locations
```

To obtain the XML representation, change the Accept header value in the previous command to:

```
"Accept:application/xml"
```

Some of the APIs also allow a client to add or update resources using the HTTP PUT or POST method. For example, a client can add a new compound or product into ClearTrial at the URL: `/cleartrial-ws/compounds`. Assuming the content is in the file `postContent`, the *curl* Unix command is:

```
cat postContent | curl --user myLogin:myPassword --header"customerCode:
myCustomerCode" --header"Content-Type: application/json" --request PUT
https://cleartrial-api.oracleindustry.com/cleartrial-ws/compounds
```

To use the XML representation, change the Content-Type header value in the command above to:

```
"Accept:application/xml"
```

Error Codes

The following HTTP error codes may be returned for the reasons as follows:

400 - missing customerCode header

401 - wrong customerCode

401 - incorrect/missing credentials

403 - credentials provided do not have the necessary permissions required for access

404 - incorrect URL used

Detailed API Specifications

The following chapters describe the ClearTrial Web Services APIs, grouped by ClearTrial resources. In the URLs shown, values within braces {} are placeholders for entering the ID of a specific instance of the resource.

For example, in `/cleartrial-ws/studies/{studyID}`, the `{studyID}` is a placeholder for any study IDs identified in the `<id>` elements in the representation returned by the GET call to `/cleartrial-ws/studies`.

Each ClearTrial Web Services API specification includes the following information:

- Purpose
- Method: GET or PUT
- The URL to which the call is made
- Sample output in JSON for a late-stage study
- Sample output in XML for a late-stage study
- Sample output in JSON for a Phase I Healthy Volunteers study, if it differs from a late-stage study
- Sample output in XML for a Phase I Healthy Volunteers study, if it differs from a late-stage study

Secure Development

This section provides guidelines and recommendations for using and developing against the REST Web Services API published by ClearTrial. The following are recommended practices for secure usage of this API.

Roles and Permissions

Developers working with the REST API are subject to the same roles and permissions required to use ClearTrial applications. To work with the REST API, developers must have the Web Services API permission.

Valid Content Types

The REST API supports `application/XML` and `application /JSON`. Developers must use one of these MIME types in the `Accept` and `Content-Type` HTTP headers. Otherwise, the API will reject the requests.

Injection

To prevent SQL injections, the REST API uses bind variables in SQL queries that might involve any user input.

The data that the REST API returns is properly encoded for their returned types, either XML or JSON. Developers should encode data based on the context they are using. The REST API does not know the context, so safeguards are important.

Broken Authentication and Session Management

The REST API is stateless and, therefore, does not create and maintain an HTTP session. Therefore, the typical security issues associated with HTTP sessions do not apply.

However, the API does require transmission of the username and password in the HTTP authorization header. Developers, therefore, should ensure that the username and password are stored securely and use the HTTPS protocol. For example, this might be the Oracle Platform Security Services (OPSS) framework.

Cross-Site Scripting

The API validates input from developers before using it. For outbound data from the REST API, developers are responsible for properly encoding the data, depending on the context where the data is being used.

Insecure Direct Object References

The REST API ensures that the invoker has the permissions to access every requested resource and representation or entity returned.

Sensitive Data Exposure

The username and password are the only business-agnostic data that is considered sensitive for the REST API. The data is transmitted over HTTPS and is never at rest; that is, it is not stored or output to log files. Developers should also provide safe and secure storage when data is at rest.

Missing Function-Level Access Control

The REST API ensures that the invoker has the permissions to access every requested resource and representation or entity returned.

Cross-Site Request Forgery

Because the REST API is stateless, there is no HTTP session to exploit via Cross-Site Request Forgery (CSRF). Every request needs to carry the Authorization header with valid values; otherwise, it is rejected.

Using Known Vulnerable Components

The REST API stack is constantly updated with the latest security fixes and patches. Oracle recommends that developers using the API do the same.

Non-validated Redirects and Forwards

Although REST API responses might provide URLs to other resources and/or sub-resources in the representations that are returned, none of these URLs contain any user input. Therefore, the REST API is not subject to this vulnerability.

Compound Resource API

This ClearTrial Web Services API enables you to view compounds accessible to the current user for a given customer ID. Compounds are products and include drugs and medical devices.

Get Compounds

Lists the compounds accessible to the current user for a given customer ID.

Method: GET

URL: /cleartrial-ws/compounds

Table 2–1 *Get Compounds Query Parameters*

Query Parameters	Description	Accepted Values	Examples
fetchDeleted	Filter to include deleted compounds or not. Default is true.	true	?fetchDeleted=true
		false	?fetchDeleted=false
page	For Pagination. What page of results you are on. Default is 1.	Integer	?page=1
			?page=5
dateSinceModified	Filter to list compounds modified after a specific date and time.	DD-MMM-YYYY HH:MM:SS (in 24 hr format)	?dateSinceModified = 14-Mar-2016 14:00:00
		DD-MMM-YYYY	

Example:

/cleartrial-ws/compounds?fetchDeleted=false&page=2&dateSinceModified=14-Mar-2016

Sample output in JSON:

```
{
  "compounds": {
    "pageNumber": 2,
    "pageSize": 25,
    "totalPages": 15,
    "isLastPage": false,
    "compound": [
      {
        "id": 19903,
        "name": "hello 124",
```

```
        "code": "ABC-1233",
        "description": "test3",
        "createdBy": "administrator, clinical",
        "createdDate": "13-Feb-2013 03:30:18 CST",
        "lastModifiedBy": "administrator, clinical",
        "lastModifiedDate": "13-Feb-2013 03:30:18 CST",
        "url": "/cleartrial-ws/compounds/19903"
    },
    {
        .....
    },
    .....
],
"url":
"/cleartrial-ws/compounds?fetchDeleted=false&page=2&dateSinceModified=14-Mar-2012
+12:00:00"
}
```

Sample output in XML:

```
<compounds>
  <pageNumber>2</pageNumber>
  <pageSize>25</pageSize>
  <totalPages>15</totalPages>
  <isLastPage>false</isLastPage>
  <compound>
    <id>19903</id>
    <name>hello 124</name>
    <code>ABC-1233</code>
    <description>test3</description>
    <createdBy>administrator, clinical</createdBy>
    <createdDate>13-Feb-2013 03:30:18 CST</createdDate>
    <lastModifiedBy>administrator, clinical</lastModifiedBy>
    <lastModifiedDate>13-Feb-2013 03:30:18 CST</lastModifiedDate>
    <url>/cleartrial-ws/compounds/19903</url>
  </compound>
  <compound>
    .....
  </compound>
  .....

<url>/cleartrial-ws/compounds?fetchDeleted=false&page=2&dateSinceModified=14-Mar-2
012+12:00:00</url>
</compounds>
```

In the examples above:

- **'pageNumber': 2**, specifies that the current contents belong to page 2.
- **'pageSize': 25**, defines the current page size. In this case, the page has 25 plans.
- **'totalPages': 15**, indicates that there are 15 pages available.
- **'isLastPage': false**, indicates that the current page is not the last page.

Sub-Resources: None

Get Compound

Obtains the representation for a specified compound.

Method: GET

URL: /cleartrial-ws/compounds/{compoundId}

Sample output in JSON:

```
{
  "compound": [
    {
      "id": 10201,
      "name": "Test Compound",
      "code": "ABC-123",
      "description": "test",
      "createdBy": "administrator",
      "createdDate": "15-Apr-2010",
      "lastModifiedBy": "administrator",
      "lastModifiedDate": "15-Apr-2010",
      "url": "/cleartrial-ws/compounds/10201"
    }
  ]
}
```

Sample output in XML:

```
<compound>
<id>10201</id>
<name>Test Compound</name>
<code>ABC-123</code>
<description>test</description>
<createdBy>administrator</createdBy>
<createdDate>15-Apr-2010</createdDate>
<lastModifiedBy>administrator</lastModifiedBy>
<lastModifiedDate>15-Apr-2010</lastModifiedDate>
<url>/cleartrial-ws/compounds/10201</url>
</compound>
```

Sub-Resources: None

Add Compound

This ClearTrial Web Services API adds a new product by issuing an HTTP PUT command. The server expects a name, code, and description. An attempt to create a compound with the same name or code as an existing compound causes the server to return an error message.

Method: PUT

URL: /cleartrial-ws/compounds

Sample input in JSON:

```
{
  "compound": [
    {
      "name": "Test Compound",
      "code": "ABC-123",
      "description": "test",
    }
  ]
}
```

Corresponding response by server in JSON:

```
{
  "compound": [
    {
      "id": 10502,
      "name": "Test Compound",
      "code": "ABC-123",
      "description": "test",
      "createdBy": "joeuser",
      "createdDate": "03-May-2011",
      "lastModifiedBy": "joeuser",
      "lastModifiedDate": "03-May-2011",
      "url": "/cleartrial-ws/compounds/10502"
    }
  ]
}
```

Sample input in XML:

```
<compound>
<name>Test Compound</name>
<code>ABC-123</code>
<description>test</description>
</compound>
```

Corresponding response by server in XML:

```
<compound>
<id>10501</id>
<name>Test Compound</name>
<code>ABC-123</code>
<description>test</description>
<createdBy>joeuser</createdBy>
<createdDate>03-May-2011</createdDate>
<lastModifiedBy>joeuser</lastModifiedBy>
<lastModifiedDate>03-May-2011</lastModifiedDate>
<url>/cleartrial-ws/compounds/10501</url>
</compound>
```

Sub-Resources: None

Therapeutic Area and Indications API

This ClearTrial Web Services API supports the therapeutic areas and indications that are present in ClearTrial applications.

Get Therapeutic Areas

Returns the list of therapeutic areas that the ClearTrial software supports.

Method: GET

URL: /cleartrial-ws/therapeuticAreas

Sample output in JSON:

```
{
  "List": [
    {
      "id": 1,
      "name": "Blood and Blood Forming Organs",
      "indicationsUrl": "/cleartrial-ws/therapeuticAreas/1/indications",
      "url": "/cleartrial-ws/therapeuticAreas/1"
    },
    {
      "id": 2,
      "name": "Circulatory System",
      "indicationsUrl": "/cleartrial-ws/therapeuticAreas/2/indications",
      "url": "/cleartrial-ws/therapeuticAreas/2"
    },
    {
      ...
    }
  ]
}
```

Sample output in XML:

```
<therapeuticAreaRepresentations>
  <therapeuticArea>
    <id>1</id>
    <name>Blood and Blood Forming Organs</name>
    <indicationsUrl>/cleartrial-ws/therapeuticAreas/1/indications
    </indicationsUrl>
    <url>/cleartrial-ws/therapeuticAreas/1</url>
  </therapeuticArea>
  <therapeuticArea>
    <id>2</id>
    <name>Circulatory System</name>
```

```
<indicationsUrl>/cleartrial-ws/therapeuticAreas/2/indications
</indicationsUrl>
<url>/cleartrial-ws/therapeuticAreas/2</url>
</therapeuticArea>
...
</therapeuticAreaRepresentations>
```

Sub-Resources: Indications

Get Indications

Returns the indications under a specified therapeutic area.

Method: GET

URL: /cleartrial-ws/therapeuticAreas/{therapeuticAreaId}/indications

Sample output in JSON:

```
{
  "List": [
    {
      "id": 8,
      "therapeuticAreaId": 1,
      "name": "Anemias",
      "description": "Anemias",
      "url": "/cleartrial-ws/therapeuticAreas/1/indications/8"
    },
    {
      "id": 21,
      "therapeuticAreaId": 1,
      "name": "Blood Dyscrasias",
      "description": "Blood Dyscrasias",
      "url": "/cleartrial-ws/therapeuticAreas/1/indications/21"
    },
    {
      ...
    }
  ]
}
```

Sample output in XML:

```
<indicationRepresentations>
  <indication>
    <id>8</id>
    <therapeuticAreaId>1</therapeuticAreaId>
    <name>Anemias</name>
    <description>Anemias</description>
    <url>/cleartrial-ws/therapeuticAreas/1/indications/8</url>
  </indication>
  <indication>
    <id>21</id>
    <therapeuticAreaId>1</therapeuticAreaId>
    <name>Blood Dyscrasias</name>
    <description>Blood Dyscrasias</description>
    <url>/cleartrial-ws/therapeuticAreas/1/indications/21</url>
  </indication>
  ...
</indicationRepresentations>
```

Sub-Resources: None

Study Phases API

This ClearTrial Web Services API returns information about ClearTrial study phases from the application.

Get Study Phases

Returns the study phases.

Method: GET

URL: /cleartrial-ws/studyPhases

Sample output in JSON:

```
{
  "List": [
    {
      "id": 10,
      "name": "I (Healthy Volunteers)"
    },
    {
      "id": 1,
      "name": "I (Oncology/Vaccines)"
    },
    {
      "id": 4,
      "name": "IIa"
    },
    {
      "id": 3,
      "name": "II"
    },
    {
      "id": 5,
      "name": "IIb"
    },
    {
      "id": 6,
      "name": "III"
    },
    {
      "id": 7,
      "name": "IIIb"
    },
    {
      "id": 8,
      "name": "IV with IND"
    }
  ]
}
```

```
    },  
    {  
      "id": 9,  
      "name": "IV no IND"  
    }  
  ]  
}
```

Sample output in XML:

```
<studyPhaseRepresentations>  
  <studyPhase>  
    <id>10</id>  
    <name>I (Healthy Volunteers)</name>  
  </studyPhase>  
  <studyPhase>  
    <id>1</id>  
    <name>I (Oncology/Vaccines)</name>  
  </studyPhase>  
  <studyPhase>  
    <id>4</id>  
    <name>IIa</name>  
  </studyPhase>  
  <studyPhase>  
    <id>3</id>  
    <name>II</name>  
  </studyPhase>  
  <studyPhase>  
    <id>5</id>  
    <name>IIb</name>  
  </studyPhase>  
  <studyPhase>  
    <id>6</id>  
    <name>III</name>  
  </studyPhase>  
  <studyPhase>  
    <id>7</id>  
    <name>IIIb</name>  
  </studyPhase>  
  <studyPhase>  
    <id>8</id>  
    <name>IV with IND</name>  
  </studyPhase>  
  <studyPhase>  
    <id>9</id>  
    <name>IV no IND</name>  
  </studyPhase>  
</studyPhaseRepresentations>
```

Sub-Resources: None

Sponsors API

This ClearTrial Web Services API returns information about the available sponsors in ClearTrial applications.

Get Sponsors

Returns the available sponsors.

Method: GET

URL: /cleartrial-ws/sponsors

Sample output in JSON:

```
{
  "List": [
    {
      "id": 10201,
      "name": "Sponsor",
      "code": "Sponsor",
      "description": "Sponsor",
      "createdBy": "cleartrialadmin",
      "createdDate": "15-Apr-2010",
      "lastModifiedBy": "cleartrialadmin",
      "lastModifiedDate": "15-Apr-2010"
    }
  ]
}
```

Sample output in XML:

```
<sponsorRepresentations>
  <sponsor>
    <id>10201</id>
    <name>Sponsor</name>
    <code>Sponsor</code>
    <description>Sponsor</description>
    <createdBy>cleartrialadmin</createdBy>
    <createdDate>15-Apr-2010</createdDate>
    <lastModifiedBy>cleartrialadmin</lastModifiedBy>
    <lastModifiedDate>15-Apr-2010</lastModifiedDate>
  </sponsor>
  ...
</sponsorRepresentations>
```

Sub-Resources: None

Study Status Resource API

This ClearTrial Web Services API returns information about study resources from ClearTrial applications.

Get Study Status

Get the set of valid Study Status values so you can use appropriate ID values in a Put Study request.

Method: GET

URL: /cleartrial-ws/studyStatus

Sample output in XML:

```
<studyStatusList>
  <studyStatus>
    <id>1</id>
    <name>Planning</name>
    <code>PLAN</code>
    <description>Planning</description>
    <url>/cleartrial-ws/studyStatus/1</url>
  </studyStatus>
  <studyStatus>
    <id>2</id>
    <name>Contract negotiation</name>
    <code>NEG</code>
    <description>Contract negotiation</description>
    <url>/cleartrial-ws/studyStatus/2</url>
  </studyStatus>
  <studyStatus>
    <id>3</id>
    <name>In progress</name>
    <code>In progress</code>
    <description>Study is underway</description>
    <url>/cleartrial-ws/studyStatus/3</url>
  </studyStatus>
  <studyStatus>
    <id>4</id>
    <name>Complete</name>
    <code>Complete</code>
    <description>Study has completed</description>
    <url>/cleartrial-ws/studyStatus/4</url>
  </studyStatus>
  <studyStatus>
    <id>5</id>
    <name>Archived</name>
```

```
<code>Archived</code>
<description>This study is being preserved for historical
purposes</description>
<url>/cleartrial-ws/studyStatus/5</url>
</studyStatus>
<url>/cleartrial-ws/studyStatus</url>
</studyStatusList>
```

Sub-Resources: Compound

Study Resource API

This ClearTrial Web Services API returns information about study resources from ClearTrial applications.

Get Studies

Lists all the studies accessible to the current user for a given customer ID.

Method: GET

URL: /cleartrial-ws/studies

Table 7-1 Get Studies Query Parameters

Query Parameters	Description	Accepted Values	Examples
fetchDeleted	Filter to include deleted studies or not. Default is true.	true	?fetchDeleted=true
		false	?fetchDeleted=false
page	For Pagination. What page of results you are on. Default is 1.	Integer	?page=1
			?page=5
dateSinceModified	Filter to list compounds modified after a specific date and time.	DD-MMM-YYYY HH:MM:SS (in 24 hr format)	?dateSinceModified = 14-Mar-2016 14:00:00
		DD-MMM-YYYY	

Example:

/cleartrial-ws/studies?fetchDeleted=false&page=2&dateSinceModified=14-Mar-2016

Sample output in JSON:

```
{
  "studies": {
    "pageNumber": 1,
    "pageSize": 4,
    "totalPages": 1,
    "isLastPage": true,
    "study": [
      {
        "id": 22339,
        "name": "!! 10181",
        "description": "Testf",
        "createdBy": "1, VL",
        "createdDate": "08-Nov-2011 00:40:41 CST",
```

```
        "lastModifiedBy": "Scan, Web",
        "lastModifiedDate": "12-Apr-2016 12:13:50 CDT",
        "sponsorId": 10104,
        "sponsorName": "ClearTrial Operations",
        "protocol": "Test",
        "studyPhaseId": 3,
        "studyPhaseName": "II",
        "therapeuticAreaId": 3,
        "therapeuticAreaName": "CNS",
        "therapeuticAreaAlias": "CNS",
        "indicationId": 11,
        "indicationName": "Aneurysms",
        "indicationAlias": "Aneurysms",
        "compoundId": 13317,
        "compoundUrl": "/cleartrial-ws/compounds/13317",
        "actualsPlanId": 56544,
        "actualsPlanUrl": "/cleartrial-ws/actuals/56544",
        "url": "/cleartrial-ws/studies/22339"
    },
    {
        .....
    },
    .....
],
"url": "/cleartrial-ws/studies?dateSinceModified=14-Mar-2016"
}
```

Sample output in XML:

```
<studies>
  <pageNumber>1</pageNumber>
  <pageSize>4</pageSize>
  <totalPages>1</totalPages>
  <isLastPage>true</isLastPage>
  <study>
    <id>22339</id>
    <name>!! 10181</name>
    <description>Testf</description>
    <createdBy>1, VL</createdBy>
    <createdDate>08-Nov-2011 00:40:41 CST</createdDate>
    <lastModifiedBy>Scan, Web</lastModifiedBy>
    <lastModifiedDate>12-Apr-2016 12:13:50 CDT</lastModifiedDate>
    <sponsorId>10104</sponsorId>
    <sponsorName>ClearTrial Operations</sponsorName>
    <protocol>Test</protocol>
    <studyPhaseId>3</studyPhaseId>
    <studyPhaseName>II</studyPhaseName>
    <therapeuticAreaId>3</therapeuticAreaId>
    <therapeuticAreaName>CNS</therapeuticAreaName>
    <therapeuticAreaAlias>CNS</therapeuticAreaAlias>
    <indicationId>11</indicationId>
    <indicationName>Aneurysms</indicationName>
    <indicationAlias>Aneurysms</indicationAlias>
    <compoundId>13317</compoundId>
    <compoundUrl>/cleartrial-ws/compounds/13317</compoundUrl>
    <actualsPlanId>56544</actualsPlanId>
    <actualsPlanUrl>/cleartrial-ws/actuals/56544</actualsPlanUrl>
    <url>/cleartrial-ws/studies/22339</url>
  </study>
</studies>
```

```

<study>
    .....
</study>
    .....
<url>/cleartrial-ws/studies?dateSinceModified=14-Mar-2016</url>
</studies>

```

In the examples above:

- **'pageNumber': 1**, specifies that the current contents belong to page 1.
- **'pageSize': 4**, defines the current page size. In this case, the page has 4 plans.
- **'totalPages': 1**, indicates that there is 1 page available.
- **'isLastPage': true**, indicates that the current page is the last page.

Sub-Resources: None

Get Study

Obtains the representation for a specified study.

Method: GET

URL: /cleartrial-ws/studies/{studyID}

Sample output in JSON:

```

{
  "study": {
    "id": 10201,
    "name": "Simple Study 1",
    "createdBy": "administrator",
    "createdDate": "15-Apr-2010",
    "lastModifiedBy": "administrator",
    "lastModifiedDate": "15-Apr-2010",
    "sponsorId": 10201,
    "sponsorName": "QA",
    "protocol": "ABC-123",
    "studyPhaseId": 3,
    "studyPhaseName": "II",
    "therapeuticAreaId": 6,
    "therapeuticAreaName": "Endocrine",
    "therapeuticAreaAlias": "Endocrine",
    "indicationId": 232,
    "indicationName": "Acromegaly",
    "indicationAlias": "Acromegaly",
    "compoundId": 10201,
    "compoundUrl": "/cleartrial-ws/compounds/10201",
    "url": "/cleartrial-ws/studies/10201"
  }
}

```

Sample output in XML:

```

<study>
  <id>10201</id>
  <name>Simple Study 1</name>
  <createdBy>administrator</createdBy>
  <createdDate>15-Apr-2010</createdDate>

```

```
<lastModifiedBy>administrator</lastModifiedBy>
<lastModifiedDate>15-Apr-2010</lastModifiedDate>
<sponsorId>10201</sponsorId>
<sponsorName>QA</sponsorName>
<protocol>ABC-123</protocol>
<studyPhaseId>3</studyPhaseId>
<studyPhaseName>II</studyPhaseName>
<therapeuticAreaId>21</therapeuticAreaId>
<therapeuticAreaName>(Non-Routine)</therapeuticAreaName>
<therapeuticAreaAlias>Alias of (Non-Routine)</therapeuticAreaAlias>
<indicationId>105</indicationId>
<indicationName>Other (Routine)</indicationName>
<indicationAlias>Alias of Other (Routine)</indicationAlias>
<compoundId>10201</compoundId>
<compoundUrl>/cleartrial-ws/compounds/10201</compoundUrl>
<url>/cleartrial-ws/studies/10201</url>
</study>
```

Sub-Resources: Compound

Put Study

Creates a new study in ClearTrial for the given sponsor and compound. The compound and sponsor should already exist in ClearTrial. This operation requires the following information about the new study:

- Unique name (Required)
- Protocol
- Code
- Description
- Compound ID (Required)
- Sponsor ID (Required)
- Study Phase ID (Required)
- Study Status ID
- Therapeutic Area ID (Required, except for Phase I (Healthy Volunteers) studies)
- Indication ID (Required, except for Phase I (Healthy Volunteers) studies)
- Use Alias (Required if you want to use aliases for therapeutic area and/or indication)
- Therapeutic Area Alias
- Indication Alias

Method: PUT

URL: /cleartrial-ws/studies

Sample input in JSON:

```
{
  "study": {
    "name": "Simple Study Weeeeee 8",
    "protocol": "Sample protocol Weeeeee 8",
    "compoundId": 10201,
    "studyPhaseId": 3,
```



```

        "sponsorId":10201,
        "studyStatusId":4,
        "therapeuticAreaId":6,
        "indicationId":232,
        "indicationAlias":"Indication Alias Sample Weeee",
        "description": "Weeee Notes 8",
        "useAlias": true,
        "code": "Weeee Code 8"
    }
}

```

Upon successful execution of the request, the server returns an HTTP 200 code and information about the newly created study as shown below.

```

{
  "study": {
    "id": 39201,
    "name": "Create New Sample Study",
    "code": "SampleCode",
    "description": "Sample description",
    "createdBy": "User, Test",
    "createdDate": "19-Jun-2017 11:47:20 CDT",
    "lastModifiedBy": "User, Test",
    "lastModifiedDate": "19-Jun-2017 11:47:20 CDT",
    "sponsorId": 10104,
    "sponsorName": "ClearTrial Operations",
    "protocol": "Proto123",
    "studyPhaseId": 3,
    "studyPhaseName": "II",
    "studyStatus": {
      "id": 1,
      "name": "Planning",
      "code": "PLAN",
      "description": "Planning",
      "url": "/cleartrial-ws/studyStatus/1"
    },
    "therapeuticAreaId": 2,
    "therapeuticAreaName": "Circulatory System",
    "therapeuticAreaAlias": "Therapeutic Area Alias",
    "indicationId": 12,
    "indicationName": "Angina",
    "indicationAlias": "Indication Alias",
    "compoundId": 19507,
    "compoundUrl": "/cleartrial-ws/compounds/19507",
    "url": "/cleartrial-ws/studies/39201"
  }
}

```

If an error occurs during the request, the server returns an appropriate HTTP code and some information about the error.

For example, if there are validation errors in the data provided via the PUT request, the HTTP response code 400 is returned along with the following message:

```

{
  "error": {
    "errorCode": "Bad Request",
    "message": "The following validation errors occurred:  [ compoundId may
not be null ]  [ name is either missing or not a legal name ]  [ sponsorId may not
be null ]  [ studyPhaseId may not be null ] "
  }
}

```

```
}  
}
```

Sub-Resources: none

Plan Resource API

The ClearTrial Web Service Plan Resource API returns information about plans stored in the ClearTrial application.

Get Plans

Gets completed plans accessible to the current user for a given customer ID, ordered by plan and study name. Gets the first 25 complete plans. Using the pagination options, the user can get subsequent pages.

Method: GET

URL: /cleartrial-ws/plans

Table 8–1 Get Plans Query Parameters

Query Parameters	Description	Accepted Values	Examples
fetchDeleted	Filter to include deleted plans or not. Default is true.	true	?fetchDeleted=true
		false	?fetchDeleted=false
page	For Pagination. What page of results you are on. Default is 1.	Integer	?page=1
			?page=5
dateSinceModified	Filter to list compounds modified after a specific date and time.	DD-MMM-YYYY HH:MM:SS (in 24 hr format)	?dateSinceModified = 14-Mar-2016 14:00:00
		DD-MMM-YYYY	

Example:

/cleartrial-ws/plans?fetchDeleted=false&page=2&dateSinceModified=14-Mar-2016

Sample output in JSON:

```
{
  "plans": {
    "pageNumber": 1,
    "pageSize": 25,
    "totalPages": 141,
    "isLastPage": false,
    "plan": [
      {
        "id": 65834,
        "name": "Baseline Locked Plan",
        "code": "test",
```

```
"description": "test",
"createdBy": "administrator, clinical",
"createdDate": "15-Jun-2016 18:29:57 CDT",
"lastModifiedBy": "Administrator, QA",
"lastModifiedDate": "16-Feb-2017 03:11:29 CST",
"studyId": 27418,
"planState": "Draft",
"outsourcingOption": "Combination",
"startDate": "16-Jun-2016 12:00:00 CDT",
"preStudyStartDate": "16-Mar-2016 00:00:00 CDT",
"defaultModelingCurrency": "USD",
"defaultReportingCurrency": "USD",
"exchangeRate": 1,
"drugHandlingType": "Room Temperature",
"radioLabeledDrug": false,
"studyDifficulty": "Normal",
"sourcePlan": {
  "id": 65833,
  "name": "!!!!!!15.06.16 1 T1 (user-defined template)",
  "url": "/cleartrial-ws/plans/65833"
},
"originalTemplate": {
  "id": 1,
  "name": "ClearTrial Default System Template"
},
"summaryUrl": "/cleartrial-ws/plans/65834/summary",
"locationsUrl": "/cleartrial-ws/plans/65834/locations",
"siteInformationUrl":
"/cleartrial-ws/plans/65834/siteInformation",
"siteApprovalScheduleUrl":
"/cleartrial-ws/plans/65834/siteApprovalSchedule",
"dataUrl": "/cleartrial-ws/plans/65834/data",
"subjectUrl": "/cleartrial-ws/plans/65834/subject",
"subjectEnrollmentScheduleUrl":
"/cleartrial-ws/plans/65834/subjectEnrollmentSchedule",
"treatmentUrl": "/cleartrial-ws/plans/65834/treatment",
"monitoringInformationUrl":
"/cleartrial-ws/plans/65834/monitoringInformation",
"monitoringScheduleUrl": "/cleartrial-ws/plans/65834/monitoringSchedule",
"serviceProviderUrl": "/cleartrial-ws/plans/65834/serviceProvider",
"meetingUrl": "/cleartrial-ws/plans/65834/meetings",
"laborUrl": "/cleartrial-ws/plans/65834/labor",
"laborMonthlyByMajorTaskUrl":
"/cleartrial-ws/plans/65834/labor?view=monthlyByMajorTask",
"laborMonthlyByResourceUrl":
"/cleartrial-ws/plans/65834/labor?view=monthlyByResource",
"costUrl": "/cleartrial-ws/plans/65834/cost",
"costMonthlyUrl": "/cleartrial-ws/plans/65834/cost?view=monthly",
"customAssumptionUrl": "/cleartrial-ws/plans/65834/customAssumption",
"url": "/cleartrial-ws/plans/65834"
},
{
  ...
},
...
],
"url": "/cleartrial-ws/plans"
}
```

Sample output in XML:

```

<plans>
  <pageNumber>1</pageNumber>
  <pageSize>25</pageSize>
  <totalPages>2</totalPages>
  <isLastPage>>false</isLastPage>
  <plan>
    <id>54170</id>
    <name>!! 10181-1-cp3</name>
    <code>test...</code>
    <createdBy>France, Michelle</createdBy>
    <createdDate>12-Aug-2013 13:38:46 CDT</createdDate>
    <lastModifiedBy>Scan, Web</lastModifiedBy>
    <lastModifiedDate>12-Apr-2016 09:33:33 CDT</lastModifiedDate>
    <studyId>27411</studyId>
    <planState>Final</planState>
    <outsourcingOption>Combination</outsourcingOption>
    <startDate>04-Oct-2012 12:00:00 CDT</startDate>
    <preStudyStartDate>04-Jul-2012 00:00:00 CDT</preStudyStartDate>
    <defaultModelingCurrency>JPY</defaultModelingCurrency>
    <drugHandlingType>Room Temperature</drugHandlingType>
    <radioLabeledDrug>true</radioLabeledDrug>
    <studyDifficulty>Normal</studyDifficulty>
    <summaryUrl>/cleartrial-ws/plans/54170/summary</summaryUrl>
    <locationsUrl>/cleartrial-ws/plans/54170/locations</locationsUrl>

    <siteInformationUrl>/cleartrial-ws/plans/54170/siteInformation</siteInformationUrl>
  >

  <siteApprovalScheduleUrl>/cleartrial-ws/plans/54170/siteApprovalSchedule</siteApprovalScheduleUrl>
    <dataUrl>/cleartrial-ws/plans/54170/data</dataUrl>
    <subjectUrl>/cleartrial-ws/plans/54170/subject</subjectUrl>

  <subjectEnrollmentScheduleUrl>/cleartrial-ws/plans/54170/subjectEnrollmentSchedule
  </subjectEnrollmentScheduleUrl>
    <treatmentUrl>/cleartrial-ws/plans/54170/treatment</treatmentUrl>

  <monitoringInformationUrl>/cleartrial-ws/plans/54170/monitoringInformation</monitoringInformationUrl>

  <monitoringScheduleUrl>/cleartrial-ws/plans/54170/monitoringSchedule</monitoringScheduleUrl>

  <serviceProviderUrl>/cleartrial-ws/plans/54170/serviceProvider</serviceProviderUrl>
  >
  <meetingUrl>/cleartrial-ws/plans/54170/meetings</meetingUrl>
  <laborUrl>/cleartrial-ws/plans/54170/labor</laborUrl>

  <laborMonthlyByMajorTaskUrl>/cleartrial-ws/plans/54170/labor?view=monthlyByMajorTask</laborMonthlyByMajorTaskUrl>

  <laborMonthlyByResourceUrl>/cleartrial-ws/plans/54170/labor?view=monthlyByResource
  </laborMonthlyByResourceUrl>
    <costUrl>/cleartrial-ws/plans/54170/cost</costUrl>

  <costMonthlyUrl>/cleartrial-ws/plans/54170/cost?view=monthly</costMonthlyUrl>

  <customAssumptionUrl>/cleartrial-ws/plans/54170/customAssumption</customAssumptionUrl>
    <url>/cleartrial-ws/plans/54170</url>

```

```
</plan>
<plan>
    .....
</plan>
    .....

<url>//cleartrial-ws/plans?fetchDeleted=true&dateSinceModified=44-Feb-2016+12:00:00</url>
</plans>
```

Sub-Resources: None

Note: In Phase I Healthy Volunteers studies, the Subject Enrollment Schedule sub-resource URL does not appear in the values returned by the Get Plans API.

In the example above:

- **'pageNumber': 1**, specifies that the current contents belong to page 1.
- **'pageSize': 25**, defines the current page size. In this case, the page has 25 plans.
- **'totalPages': 2**, indicates that there are 2 pages available.
- **'isLastPage': false**, indicates that the current page is not the last page.

Continuing with the example, the user can obtain the next page, by issuing the following request:

```
/cleartrial-ws/plans?page=2
```

Sample output of the request:

```
{
  "plans": {
    'pageNumber': 2,
    "pageSize": 25,
    "totalPages": 141,
    "isLastPage": false,
    "plan": [
      {
        "id": 16303,
        .....
        .....
      }
    ]
  }
}
```

The user does not have to fetch the pages in sequence. The user can specify any page number in the 'pageNumber' field.

If the user asks for a page that does not exist, the ClearTrial application gets the contents of the last page.

For example, if the user asks for page 142, where there are only 141 pages available, with the request:

```
/cleartrial-ws/plans?page=142
```

Sample output:

```
{
  "plans": {
    "pageNumber": 141,
    "pageSize": 25,
    "totalPages": 141,
    "isLastPage": true,
    "plan": [
      {
        "id": 16303,
        .....
        .....
      }
    ]
  }
}
```

Because the user requested a page number, 142, that fell outside the total number of pages, the application retrieved the last page, 141.

The **isLastPage** field is set to true to indicate that the current page is the last available page.

The **pageSize** field is set to 5, indicating that there are only five plans on the last page.

Get Plan

Obtains the representation for a specific plan.

Method: GET

URL: /cleartrial-ws/plans/{planID}

Sample output in JSON:

```
{
  "plan": {
    "id": 67433,
    "name": "Distribution_55",
    "code": "Revision:52379. Build: 12294",
    "description": "TP 1234",
    "createdBy": "Administrator, QA",
    "createdDate": "08-May-2017 14:23:09 CDT",
    "lastModifiedBy": "Administrator, QA",
    "lastModifiedDate": "11-May-2017 10:24:52 CDT",
    "studyId": 22349,
    "planState": "Draft",
    "outsourcingOption": "Combination",
    "startDate": "01-Jun-2016 12:00:00 CDT",
    "preStudyStartDate": "01-Mar-2016 00:00:00 CST",
    "defaultModelingCurrency": "USD",
    "defaultReportingCurrency": "USD",
    "exchangeRate": 1,
    "drugHandlingType": "Room Temperature",
    "radioLabeledDrug": false,
    "studyDifficulty": "Normal",
    "sourcePlan": {
      "id": 65782,
      "name": "9Jun16 3",
      "url": "/cleartrial-ws/plans/65782"
    },
    "originalTemplate": {
      "id": 1,
    }
  }
}
```

```
    "name": "ClearTrial Default System Template"
  },
  "summaryUrl": "/cleartrial-ws/plans/67433/summary",
  "locationsUrl": "/cleartrial-ws/plans/67433/locations",
  "siteInformationUrl": "/cleartrial-ws/plans/67433/siteInformation",
  "siteApprovalScheduleUrl":
"/cleartrial-ws/plans/67433/siteApprovalSchedule",
  "dataUrl": "/cleartrial-ws/plans/67433/data",
  "subjectUrl": "/cleartrial-ws/plans/67433/subject",
  "subjectEnrollmentScheduleUrl":
"/cleartrial-ws/plans/67433/subjectEnrollmentSchedule",
  "treatmentUrl": "/cleartrial-ws/plans/67433/treatment",
  "monitoringInformationUrl":
"/cleartrial-ws/plans/67433/monitoringInformation",
  "monitoringScheduleUrl":
"/cleartrial-ws/plans/67433/monitoringSchedule",
  "serviceProviderUrl": "/cleartrial-ws/plans/67433/serviceProvider",
  "meetingUrl": "/cleartrial-ws/plans/67433/meetings",
  "laborUrl": "/cleartrial-ws/plans/67433/labor",
  "laborMonthlyByMajorTaskUrl":
"/cleartrial-ws/plans/67433/labor?view=monthlyByMajorTask",
  "laborMonthlyByResourceUrl":
"/cleartrial-ws/plans/67433/labor?view=monthlyByResource",
  "costUrl": "/cleartrial-ws/plans/67433/cost",
  "costMonthlyUrl": "/cleartrial-ws/plans/67433/cost?view=monthly",
  "customAssumptionUrl": "/cleartrial-ws/plans/67433/customAssumption",
  "url": "/cleartrial-ws/plans/67433"
}
}
```

Sub-Resources:

- Locations
- Site Information
- Site Approval Schedule
- Data
- Subject
- Subject Enrollment Schedule
- Treatment
- Monitoring Information
- Monitoring Schedule
- Service Provider
- Labor
- Labor Monthly by Major Task
- Labor Monthly by Resource
- Cost
- Cost Monthly

Note: In Phase I Healthy Volunteers studies, the following field does not appear in the Get Plan API: Subject Enrollment Schedule.

Get Summary

Obtains a summary for a specified plan.

Method: GET

URL: /cleartrial-ws/plans/{planID}/summary

Sample output in JSON:

```
{
  "planSummary": {
    "planId": 50027,
    "studyStartDate": "30-May-2013",
    "earliestActivityDate": "30-May-2013",
    "latestActivityDate": "09-Oct-2015",
    "finalReportDate": "09-Oct-2015",
    "studyDuration": 862.0,
    "treatmentPeriodDuration": 602.0,
    "subjectsPerMonthPerSite": 0.54,
    "costPerCompletedSubject": 18996.44749705476,
    "feesHoursFtes": {
      "total": {
        "fees": 58260.47497054761059320782123904791660606861114501953125,
        "hours": 7813.6350025646388530731201171875,
        "ftes": 3.9069629
      },
      "taskSummaryGroup": [
        {
          "id": 1,
          "name": "Startup Fees",
          "provider": [
            {
              "id": 10104,
              "name": "Cleartrial Operations",
              "fees": 19175.4744262695312500,
              "hours": 887.616597175598144531250,
              "ftes": 1.2336452
            },
            {
              "id": 16303,
              "name": "!! TEST SP",
              "fees": 303.10033813642198641247205159743316471576690673828125,
              "hours": 600.5966637060046195983886718750,
              "ftes": 0.83473337
            }
          ]
        },
        {
          "id": 7,
          "name": "Other",
          "provider": [
            {
              "id": 16303,
              "name": "!! TEST SP",
              "fees": 0,
              "hours": 0,
              "ftes": 0.0
            }
          ]
        }
      ]
    }
  },
  {
    {

```

```
"id": 6,
"name": "Medical Writing / Final Report",
"provider": [
  {
    "id": 16303,
    "name": "!! TEST SP",
    "fees": 922.5649221995045081712305545806884765625,
    "hours": 304.208537042140960693359375,
    "ftes": 0.3787054
  }
],
},
{
  "id": 3,
  "name": "Data Management",
  "provider": [
    {
      "id": 16303,
      "name": "!! TEST SP",
      "fees": 2437.8518534520990215241909027099609375,
      "hours": 806.2866775989532470703125,
      "ftes": 0.18980163
    }
  ]
},
{
  "id": 2,
  "name": "Clinical Monitoring, Closeout, and Site Audit Fees",
  "provider": [
    {
      "id": 10104,
      "name": "Cleartrial Operations",
      "fees": 455.876678466796875,
      "hours": 21.6666660308837890625,
      "ftes": 0.0057697217
    },
    {
      "id": 16303,
      "name": "!! TEST SP",
      "fees": 1565.196786008775234222412109375,
      "hours": 704.093476258218288421630859375,
      "ftes": 0.1874965
    }
  ]
},
{
  "id": 5,
  "name": "Project Management / Study Oversight",
  "provider": [
    {
      "id": 10104,
      "name": "Cleartrial Operations",
      "fees": 27241.733464062213897705078125,
      "hours": 1115.1467763446271419525146484375,
      "ftes": 0.26250795
    },
    {
      "id": 16303,
      "name": "!! TEST SP",
      "fees": 577.16983725891225986970312078483402729034423828125,
```

```

        "hours": 2766.4996128380298614501953125,
        "ftes": 0.65124
    }
}
},
{
    "id": 4,
    "name": "Biostatistics",
    "provider": [
        {
            "id": 16303,
            "name": "!! TEST SP",
            "fees": 5581.50666469335556030273437500,
            "hours": 607.51999557018280029296875,
            "ftes": 0.16306339
        }
    ]
}
],
},
"feesInflation": {
    "total": 668.934656583986,
    "provider": [
        {
            "id": 10104,
            "name": "Cleartrial Operations",
            "inflation": 0.0
        },
        {
            "id": 16303,
            "name": "!! TEST SP",
            "inflation": 668.934656583986
        }
    ]
},
"costs": {
    "total": {
        "cost": 131704,
        "inflation": 6049.825683116913
    },
    "cost": [
        {
            "id": 2,
            "name": "Miscellaneous",
            "description": "Miscellaneous costs may be marked up by service providers.",
            "provider": [
                {
                    "id": 10104,
                    "name": "Cleartrial Operations",
                    "amount": 90,
                    "inflation": 0.0
                }
            ],
            {
                "id": 16303,
                "name": "!! TEST SP",
                "amount": 2978,
                "inflation": 99.13089752197266
            }
        ]
    ]
}

```

```
    },
    {
      "id": 1,
      "name": "Pass Through",
      "description": "Pass through costs that are typically not marked up by
        service providers.",
      "provider": [
        {
          "id": 10104,
          "name": "Cleartrial Operations",
          "amount": 5000,
          "inflation": 0.0
        },
        {
          "id": 16303,
          "name": "!! TEST SP",
          "amount": 123636,
          "inflation": 5950.69478559494
        }
      ]
    }
  ]
},
"url": "/cleartrial-ws/plans/50027/summary"
}
```

Note: In Phase I Healthy Volunteers studies, the following additional field appears in the Get Summary API: CPU Pass-Through Cost.

Get Locations

Obtains the location representation for all locations for a specified plan.

Method: GET

URL: /cleartrial-ws/plans/{planID}/locations

Sample output in JSON:

```
{
  "planLocations": {
    "planId": 10802,
    "planLocation": [
      {
        "locationId": 104,
        "locationName": "Belgium",
        "numSites": 45,
        "numSubjects": 600,
        "grantAmountPerSubject": 9500,
        "grantAmountCurrency": "USD",
        "mohFdaDelayTime": 90
      },
      {
        ...
      },
      {
        ...
      }
    ]
  },
}
```

```

    "url": "/cleartrial-ws/plans/10802/locations"
  }
}

```

Sub-Resources: None

Get Site Information

Obtains the site information representation for each location in a specified plan.

Method: GET

URL: /cleartrial-ws/plans/{planID}/siteInformation

Sample output in JSON:

```

{
  "siteInformation": {
    "planId": 49344,
    "locations": [
      {
        "locationId": 157,
        "locationName": "Australia",
        "numSites": 300,
        "percentSponsorSites": 45.0,
        "numSponsorSites": 135,
        "percentPreStudySiteVisits": 110.0,
        "numPreStudySiteVisits": 330,
        "percentPreStudySitePhoneVisits": 0.0,
        "numPreStudySitePhoneVisits": 0,
        "percentSiteInitVisits": 100.0,
        "numSiteInitVisits": 300,
        "percentSiteInitPhoneVisits": 0.0,
        "numSiteInitPhoneVisits": 0,
        "percentSiteCloseoutVisits": 100.0,
        "numOnSiteCloseoutVisits": 300,
        "percentSiteCloseoutPhoneVisits": 0.0,
        "numSiteCloseoutPhoneVisits": 0,
        "numGrantPaymentsPerSite": 10,
        "percentSitesLocalMonitor": 0.0,
        "numSitesLocalMonitor": 0,
        "percentSitesOverhead": 0.0,
        "numSitesOverhead": 0,
        "percentOverhead": 25.0,
        "numDrugShips": 1,
        "percentSitesAudit": 20.0,
        "numSitesAudit": 60,
        "pctRegulatoryDocsToCollect": 100.0,
        "percentSitesBothIrb": 0.0,
        "numSitesBothIrb": 0,
        "percentSitesOnlyCentralIrb": 100.0,
        "numSitesOnlyCentralIrb": 300,
        "percentSitesOnlyLocalIrb": 0.0,
        "numSitesOnlyLocalIrb": 0
      },
      {
        "locationId": 101,
        "locationName": "Canada",
        "numSites": 1212,
        "percentSponsorSites": 60.0,

```

Sub-Resources: None

Sample output in JSON:

```
{
  "approvalSchedules": {
    "planId": 49344,
    "location": [
      {
        "locationId": 101,
        "locationName": "Canada",
        "periods": [
          {
            "startDate": "08-Feb-2013",
            "endDate": "14-Feb-2013",
            "numSitesApprovedThisWeek": 0,
            "cumulativeNumSitesApproved": 0
          }
        ]
      }
    ]
  }
}
```

```

        {
            "startDate": "15-Feb-2013",
            "endDate": "21-Feb-2013",
            "numSitesApprovedThisWeek": 0,
            "cumulativeNumSitesApproved": 0
        },
        {
            ...
        }
    ]
},
"url": "/cleartrial-ws/plans/50904/siteApprovalSchedule"
}

```

Sub-Resources: None

Get Subject

Obtains the subject representation for a specified plan.

Method: GET

URL: /cleartrial-ws/plans/{planID}/subject

Sample output in JSON:

```

{
  "subject": {
    "planId": 50011,
    "enrollmentPeriod": 26,
    "indicationEnrollmentType": "Chronic",
    "firstSubjectInDate": "31-Dec-2013",
    "numCRFPagesPerScreenFailure": 0,
    "locations": [
      {
        "locationId": 157,
        "locationName": "Australia",
        "numSubjectsToRandomize": 150,
        "screenFailureRate": 1.96,
        "numSubjectsScreen": 153,
        "amountPerScreenFailure": 0.0,
        "amountPerScreenFailureCurrency": "USD",
        "percentScreenFailuresAllowed": 0.0,
        "numScreenFailsAllowed": 0,
        "subjectDropRate": 1.0,
        "numSubjectsComplete": 148,
        "stipendPerScreenFailure": 0.0,
        "stipendPerScreenFailureCurrency": "USD"
      },
      {
        ...
      }
    ],
    "url": "/cleartrial-ws/plans/50011/subject"
  }
}

```

Get Subject returns a representation for Phase I Healthy Volunteers studies as follows.

Sample output in JSON:

```
{
  "subject": {
    "planId": 49308,
    "firstSubjectInDate": "22-Apr-2013",
    "numCRFPagesPerScreenFailure": 5,
    "locations": [
      {
        "locationId": 100,
        "locationName": "USA",
        "numSubjectsToRandomize": 200,
        "percentAlternateSubjects": 10,
        "numAlternateSubjects": 20,
        "stipendPerAlternateSubject": 0,
        "stipendPerAlternateSubjectCurrency": "USD",
        "screenFailureRate": 50,
        "numSubjectsScreen": 440,
        "amountPerScreenFailure": 0,
        "amountPerScreenFailureCurrency": "USD",
        "percentScreenFailuresAllowed": 2,
        "numScreenFailsAllowed": 5,
        "subjectDropRate": 5,
        "numSubjectsComplete": 190,
        "stipendPerScreenFailure": 50,
        "stipendPerScreenFailureCurrency": "USD"
      }
    ]
  },
  "url": "/cleartrial-ws/plans/49308/subject"
}
```

Sub-resources: None

Get Data

Obtains the data collected representation for a specified plan.

Method: GET

URL: /cleartrial-ws/plans/{planID}/data

The data represented in the output varies based on the data collection method selected in the plan.

If a non-electronic data collection method is used, such as "Paper (Traditional Monitoring)," then the output is similar to the sample output in JSON as follows:

```
{
  "planData": {
    "planId": 10802,
    "dataCollectionType": "Paper (Traditional Monitoring)",
    "queryRate": 43.0,
    "numUniquePages": 15,
    "pctDatabaseAudit": 10.0,
    "numManuscripts": 0,
    "numDataTransfers": 0,
    "numInterimAnalyses": 0,
  }
}
```



```

"crfPageNCRply":3,
"numMinsCrfEntry":3.5728002,
"costPerPageToPrint":1.35000002384186,
"costPerPageCurrencyCode":"USD",
"numMinsCrfCoord":4.137056,
"numNewsletters":0,
"numPagesInvestigatorBrochure":125,
"numDataTables":19,
"numDataListings":23,
"numFigures":12,
"numCpyDataTables": 6,
                        "numPdDataListings": 9,
                        "numCpyFigures": 10,
"numDaysFromLpoToDbLock":14,
"numDaysFromDbLockToStatReport":46,
"numDaysFromDbLockToDraftReport":76,
"numYearsArchive":5,
"numDaysFromDbLockToFinalReport":106,
"icfVideo":false,
"numDataVendors":0,
"numDataImports":0,
"estPctSAE":3.0,
"estNumSAE":56,
"timeToMonitorSAE":4.0,
"pctExpeditedSAE":0.0,
"numExpeditedSAE":0,
"dsmbReportingFrequency":"N/A",
"ivrs": [
    "Randomization",
    "Drug Distribution",
    "Subject Diary"
],
"url":"/cleartrial-ws/plans/10802/data"
}
}

```

If the data collection method is an electronic data capture method, then the output is similar to the representation that follows. One or more of these fields will be present in the output:

- edcMaturityLevel
- numEdcScreensPerCrfPage
- numOnlineEdcTrainingSessions

These fields will not be present:

- crfPageNCRply
- costPerPageToPrint
- costPerPageCurrencyCode

Sample output in JSON:

```

{
  "planData": {
    "planId": 10802,
    "dataCollectionType":"Electronic Data Capture",
    "edcMaturityLevel":"Stage 1: Pilot / Single Study",
    "queryRate": 30.0,
    "numUniquePages": 15,

```

```
"numScreensPerCrfPage": 15,
"pctDatabaseAudit": 10.0,
"numManuscripts": 0,
"numDataTransfers": 0,
"numInterimAnalyses": 0,
"numMinsCrfEntry": 0.0,
"numMinsCrfCoord": 1.0,
"numOnlineEdcTrainingSessions": 3,
"numNewsletters": 0,
"numPagesInvestigatorBrochure": 125,
"numDataTables": 19,
"numDataListings": 23,
"numFigures": 12,
"numCpyDataTables": 6,
                        "numCpyDataListings": 9,
                        "numCpyFigures": 10,
"numDaysFromLpoToDbLock": 30,
"numDaysFromDbLockToStatReport": 45,
"numDaysFromDbLockToDraftReport": 73,
"numYearsArchive": 5,
"numDaysFromDbLockToFinalReport": 98,
"icfVideo": false,
"numDataVendors": 0,
"numDataImports": 0,
"estPctSAE": 3.0,
"estNumSAE": 56,
"timeToMonitorSAE": 4.0,
"pctExpeditedSAE": 0.0,
"numExpeditedSAE": 0,
"dsmbReportingFrequency": "N/A",
"ivrs": [
    "Randomization",
    "Drug Distribution",
    "Subject Diary"
],
"url": "/cleartrial-ws/plans/10802/data"
}
}
```

Get Data returns a representation for Phase I Healthy Volunteers studies as follows.

Sample output in JSON:

```
{
  "planData": {
    "planId": 49308,
    "dataCollectionType": "Electronic Data Capture",
    "edcMaturityLevel": "Stage 3: Standardization",
    "queryRate": 15,
    "numUniquePages": 3,
    "numScreensPerCrfPage": 3,
    "pctDatabaseAudit": 10,
    "numManuscripts": 0,
    "numDataTransfers": 0,
    "numInterimAnalyses": 0,
    "numMinsCrfEntry": 0,
    "numMinsCrfCoord": 1,
    "numOnlineEdcTrainingSessions": 1,
    "numNewsletters": 0,
    "numPagesInvestigatorBrochure": 125,

```

```

    "numDataTables": 4,
    "numDataListings": 5,
    "numFigures": 2,
    "numPkPdDataTables": 4,
    "numPkPdListings": 5,
    "numPkPdFigures": 2,
    "numCpyPkPdDataTables": 6,
        "numCpyPkPdDataListings": 9,
        "numCpyPkPdFigures": 10,
    "numDaysFromLpoToDbLock": 42,
    "numDaysFromDbLockToStatReport": 46,
    "numDaysFromDbLockToDraftReport": 76,
    "numYearsArchive": 10,
    "numDaysFromDbLockToFinalReport": 91,
    "icfVideo": false,
    "numDataVendors": 0,
    "numDataImports": 0,
    "estPctSAE": 0,
    "estNumSAE": 0,
    "timeToMonitorSAE": 0,
    "pctExpeditedSAE": 0,
    "numExpeditedSAE": 0,
    "dsmbReportingFrequency": "N/A",
    "ivrs": [
        "Randomization",
        "Drug Distribution",
        "Subject Diary"
    ],
    "url": "/cleartrial-ws/plans/49308/data"
}
}

```

Sub-Resources: None

Get Subject Enrollment Schedule

Obtains the subject enrollment schedule representation for each location in a specified plan.

Method: GET

URL: /cleartrial-ws/plans/{planID}/subjectEnrollmentSchedule

Sample output in JSON:

```

{
  "enrollmentSchedules": {
    "planId": 50011,
    "location": [
      {
        "locationId": 101,
        "locationName": "Canada",
        "periods": [
          {
            "startDate": "31-Dec-2013",
            "endDate": "07-Jan-2014",
            "numSubjectsEnrolled": 8,
            "cumulativeSubjectsEnrolled": 8
          },
          {
            "startDate": "07-Jan-2014",

```

```
        "endDate": "14-Jan-2014",
        "numSubjectsEnrolled": 9,
        "cumulativeSubjectsEnrolled": 17
      },
      {
        ...
      },
      {
        "locationId": 100,
        "locationName": "USA",
        "periods" : [
          {
            ...
          },
          {
            ...
          },
          {
            ...
          }
        ]
      },
      {
        ...
      }
    ],
    "url": "/cleartrial-ws/plans/10802/subjectEnrollmentSchedule"
  }
}
```

Sub-Resources: None

Note: If you issue this call for a Phase I Healthy Volunteers plan, the ClearTrial Web Services API returns a message, 404 Not Found Code, because this resource does not exist for Phase I Healthy Volunteers plans.

Get Treatment

Obtains the treatment information representation for a specified plan.

Method: GET

URL: /cleartrial-ws/plans/{planID}/treatment

If the study is not an endpoint study, then the representation is similar to the one that follows.

Sample output in JSON:

```
{
  "treatments": {
    "planId": 50411,
    "trialDesign": "Parallel",
    "electronicSubjectDiary": false,
    "endpointStudy": false,
    "treatment": [
```

```

{
  "treatmentId": 1,
  "duration": 6,
  "durationUnit": "week",
  "numSubjectVisits": 5,
  "standardTreatment": {
    "numCrFPagesPerSubject": 100,
    "numQOLDataPages": 0,
    "numSubjectDiaryPages": 0,
    "numPharmacoDataPages": 0,
    "numCohortEscalationReviews": 4,
    "numLabDiagnosticTestsPerSubject": 5,
    "monitoringMinutesPerCrFPage": 4.33
  },
  "treatmentLocations": [
    {
      "locationId": 157,
      "locationName": "Australia",
      "grantAmountPerSubject": 5632.0,
      "grantAmountPerSubjectCurrency": "USD",
      "stipendPerEnrolledSubject": 0.0,
      "stipendPerEnrolledSubjectCurrency": "USD"
    },
    {
      "locationId": 101,
      "locationName": "Canada",
      "grantAmountPerSubject": 4536.0,
      "grantAmountPerSubjectCurrency": "USD",
      "stipendPerEnrolledSubject": 0.0,
      "stipendPerEnrolledSubjectCurrency": "USD"
    }
  ],
  "treatmentSchedule": [
    {
      "periodNum": 0,
      "numCRFPages": 26,
      "monitoringTimeMins": 165.98401,
      "pctOfGrant": 20.3125
    },
    {
      "periodNum": 2,
      "numCRFPages": 17,
      "monitoringTimeMins": 99.845764,
      "pctOfGrant": 13.28125
    },
    {
      "periodNum": 3,
      "numCRFPages": 18,
      "monitoringTimeMins": 105.71904,
      "pctOfGrant": 14.0625
    },
    {
      "periodNum": 5,
      "numCRFPages": 17,
      "monitoringTimeMins": 99.845764,
      "pctOfGrant": 13.28125
    },
    {
      "periodNum": 6,
      "numCRFPages": 22,

```

```
        "monitoringTimeMins": 129.21216,  
        "pctOfGrant": 17.1875  
      }  
    ]  
  },  
  "url": "/cleartrial-ws/plans/50411/treatment"  
}  
}
```

If the study is an endpoint study, then the output is similar to the representation that follows.

Sample output in JSON:

```
{  
  "treatments": {  
    "planId": 50411,  
    "trialDesign": "Parallel",  
    "electronicSubjectDiary": false,  
    "endpointStudy": true,  
    "endpointDetails": {  
      "weeksFromFsiToEndpoint": 54,  
      "endDate": "11-Dec-2014",  
      "extendedTreatmentFrequencyInWeeks": 4  
    },  
    "treatment": [  
      {  
        "treatmentId": 1,  
        "duration": 6,  
        "durationUnit": "week",  
        "numSubjectVisits": 5,  
        "standardTreatment": {  
          "numCrFPagesPerSubject": 100,  
          "numQOLDataPages": 0,  
          "numSubjectDiaryPages": 0,  
          "numPharmacoDataPages": 0,  
          "numCohortEscalationReviews": 4,  
          "numLabDiagnosticTestsPerSubject": 5,  
          "monitoringMinutesPerCrFPage": 4.33  
        },  
        "extendedTreatment": {  
          "numCrFPagesPerExtendedVisit": 7,  
          "numQOLDataPagesPerExtendedVisit": 0,  
          "numSubjectDiaryPagesPerExtendedVisit": 0,  
          "numPharmacoDataPagesPerExtendedVisit": 0  
        },  
        "treatmentLocations": [  
          {  
            "locationId": 157,  
            "locationName": "Australia",  
            "grantAmountPerSubject": 5632.0,  
            "grantAmountPerSubjectCurrency": "USD",  
            "stipendPerEnrolledSubject": 0.0,  
            "stipendPerEnrolledSubjectCurrency": "USD"  
          },  
          {  
            "locationId": 101,  
            "locationName": "Canada",  
            "grantAmountPerSubject": 4536.0,  

```

```

        "grantAmountPerSubjectCurrency": "USD",
        "stipendPerEnrolledSubject": 0.0,
        "stipendPerEnrolledSubjectCurrency": "USD"
    }
],
"treatmentSchedule": [
    {
        "periodNum": 0,
        "numCRFPages": 26,
        "monitoringTimeMins": 165.98401,
        "pctOfGrant": 14.130434782608695,
        "extendedTreatmentSegment": false
    },
    {
        "periodNum": 2,
        "numCRFPages": 17,
        "monitoringTimeMins": 99.845764,
        "pctOfGrant": 9.239130434782608,
        "extendedTreatmentSegment": false
    },
    {
        "periodNum": 3,
        "numCRFPages": 18,
        "monitoringTimeMins": 105.71904,
        "pctOfGrant": 9.782608695652174,
        "extendedTreatmentSegment": false
    },
    {
        "periodNum": 5,
        "numCRFPages": 17,
        "monitoringTimeMins": 99.845764,
        "pctOfGrant": 9.239130434782608,
        "extendedTreatmentSegment": false
    },
    {
        "periodNum": 6,
        "numCRFPages": 22,
        "monitoringTimeMins": 129.21216,
        "pctOfGrant": 11.956521739130435,
        "extendedTreatmentSegment": false
    },
    {
        "periodNum": 10,
        "numCRFPages": 7,
        "monitoringTimeMins": 41.11296,
        "pctOfGrant": 3.804347826086957,
        "extendedTreatmentSegment": true
    },
    {
        "periodNum": 14,
        "numCRFPages": 7,
        "monitoringTimeMins": 41.11296,
        "pctOfGrant": 3.804347826086957,
        "extendedTreatmentSegment": true
    },
    {
        "periodNum": 18,
        "numCRFPages": 7,
        "monitoringTimeMins": 41.11296,
        "pctOfGrant": 3.804347826086957,

```

```
      "extendedTreatmentSegment": true
    },
    {
      "periodNum": 22,
      "numCRFPages": 7,
      "monitoringTimeMins": 41.11296,
      "pctOfGrant": 3.804347826086957,
      "extendedTreatmentSegment": true
    },
    {
      "periodNum": 26,
      "numCRFPages": 7,
      "monitoringTimeMins": 41.11296,
      "pctOfGrant": 3.804347826086957,
      "extendedTreatmentSegment": true
    },
    {
      "periodNum": 30,
      "numCRFPages": 7,
      "monitoringTimeMins": 41.11296,
      "pctOfGrant": 3.804347826086957,
      "extendedTreatmentSegment": true
    },
    {
      "periodNum": 34,
      "numCRFPages": 7,
      "monitoringTimeMins": 41.11296,
      "pctOfGrant": 3.804347826086957,
      "extendedTreatmentSegment": true
    },
    {
      "periodNum": 38,
      "numCRFPages": 7,
      "monitoringTimeMins": 41.11296,
      "pctOfGrant": 3.804347826086957,
      "extendedTreatmentSegment": true
    },
    {
      "periodNum": 42,
      "numCRFPages": 7,
      "monitoringTimeMins": 41.11296,
      "pctOfGrant": 3.804347826086957,
      "extendedTreatmentSegment": true
    },
    {
      "periodNum": 46,
      "numCRFPages": 7,
      "monitoringTimeMins": 41.11296,
      "pctOfGrant": 3.804347826086957,
      "extendedTreatmentSegment": true
    },
    {
      "periodNum": 50,
      "numCRFPages": 7,
      "monitoringTimeMins": 41.11296,
      "pctOfGrant": 3.804347826086957,
      "extendedTreatmentSegment": true
    },
    {
      "periodNum": 54,
```



```

        "numCRFPages": 7,
        "monitoringTimeMins": 41.11296,
        "pctOfGrant": 3.804347826086957,
        "extendedTreatmentSegment": true
    }
  ]
},
"url": "/cleartrial-ws/plans/50411/treatment"
}
}

```

If the study is a parallel Phase I Healthy Volunteers study, then the output is similar to the representation that follows.

Sample output in JSON:

```

{
  "treatments": {
    "planId": 51113,
    "trialDesign": "Parallel",
    "electronicSubjectDiary": false,
    "costPerBedNight": 100.0,
    "costPerBedNightCurrency": "USD",
    "treatment": [
      {
        "treatmentId": 1,
        "duration": 10,
        "durationUnit": "day",
        "numSubjectVisits": 10,
        "numBedNights": 10,
        "standardTreatment": {
          "numCrfPagesPerSubject": 50,
          "numQOLDataPages": 0,
          "numSubjectDiaryPages": 0,
          "numPharmacoDataPages": 0,
          "monitoringMinutesPerCrfPage": 5.667
        },
        "treatmentLocations": [
          {
            "locationId": 103,
            "locationName": "Austria",
            "procedureCost": 1000.0,
            "procedureCostCurrency": "USD",
            "specialProcedureCost": 0.0,
            "specialProcedureCostCurrency": "USD",
            "stipendPerEnrolledSubject": 0.0,
            "stipendPerEnrolledSubjectCurrency": "USD"
          },
          {
            "locationId": 194,
            "locationName": "Puerto Rico",
            "procedureCost": 1000.0,
            "procedureCostCurrency": "USD",
            "specialProcedureCost": 0.0,
            "specialProcedureCostCurrency": "USD",
            "stipendPerEnrolledSubject": 0.0,
            "stipendPerEnrolledSubjectCurrency": "USD"
          }
        ],
        "treatmentSchedule": [

```

```
{
  "periodNum": 0,
  "numCRFPages": 11,
  "monitoringTimeMins": 49.764,
  "pctOfGrant": 22.0
},
{
  "periodNum": 1,
  "numCRFPages": 4,
  "monitoringTimeMins": 16.648321,
  "pctOfGrant": 8.0
},
{
  "periodNum": 2,
  "numCRFPages": 4,
  "monitoringTimeMins": 16.648321,
  "pctOfGrant": 8.0
},
{
  "periodNum": 3,
  "numCRFPages": 4,
  "monitoringTimeMins": 16.648321,
  "pctOfGrant": 8.0
},
{
  "periodNum": 5,
  "numCRFPages": 4,
  "monitoringTimeMins": 16.648321,
  "pctOfGrant": 8.0
},
{
  "periodNum": 6,
  "numCRFPages": 4,
  "monitoringTimeMins": 16.648321,
  "pctOfGrant": 8.0
},
{
  "periodNum": 7,
  "numCRFPages": 4,
  "monitoringTimeMins": 16.648321,
  "pctOfGrant": 8.0
},
{
  "periodNum": 8,
  "numCRFPages": 4,
  "monitoringTimeMins": 16.648321,
  "pctOfGrant": 8.0
},
{
  "periodNum": 9,
  "numCRFPages": 4,
  "monitoringTimeMins": 16.648321,
  "pctOfGrant": 8.0
},
{
  "periodNum": 10,
  "numCRFPages": 7,
  "monitoringTimeMins": 29.134562,
  "pctOfGrant": 14.000000000000002
}
```

```

    ]
  }
],
"url": "/cleartrial-ws/plans/51113/treatment"
}
}

```

If the study is a late-stage crossover study, then the output is similar to the representation that follows.

Sample output in JSON:

```

{
  "treatments": {
    "planId": 50413,
    "trialDesign": "Cross-over",
    "crossoverDesignType": "Latin Square",
    "electronicSubjectDiary": false,
    "endpointStudy": false,
    "baselineAndWashoutDetails": {
      "numCRFPages": 6,
      "monitoringTimeMins": 27.456001,
      "washoutPeriod": 0,
      "washoutPeriodUnit": "week"
    },
  },
  "treatment": [
    {
      "treatmentId": 1,
      "duration": 250,
      "durationUnit": "week",
      "numSubjectVisits": 150,
      "standardTreatment": {
        "numCrfPagesPerSubject": 300,
        "numQOLDataPages": 0,
        "numSubjectDiaryPages": 0,
        "numPharmacoDataPages": 0,
        "numCohortEscalationReviews": 4,
        "numLabDiagnosticTestsPerSubject": 5,
        "monitoringMinutesPerCrfPage": 4.33
      },
      "treatmentLocations": [
        {
          "locationId": 157,
          "locationName": "Australia",
          "grantAmountPerSubject": 2261.0,
          "grantAmountPerSubjectCurrency": "USD",
          "stipendPerEnrolledSubject": 0.0,
          "stipendPerEnrolledSubjectCurrency": "USD"
        }
      ],
      "treatmentSchedule": [
        {
          "periodNum": 2,
          "numCRFPages": 2,
          "monitoringTimeMins": 8.32
        },
        {
          "periodNum": 3,
          "numCRFPages": 2,
          "monitoringTimeMins": 8.32
        }
      ],
    }
  ],
}

```

```
{
  "periodNum": 100,
  "numCRFPages": 2,
  "monitoringTimeMins": 8.32
},
{
  "periodNum": 247,
  "numCRFPages": 2,
  "monitoringTimeMins": 8.32
},
{
  "periodNum": 248,
  "numCRFPages": 2,
  "monitoringTimeMins": 8.32
},
{
  "periodNum": 250,
  "numCRFPages": 2,
  "monitoringTimeMins": 8.32
}
]
},
{
  "treatmentId": 2,
  "duration": 250,
  "durationUnit": "week",
  "numSubjectVisits": 150,
  "standardTreatment": {
    "numCrfPagesPerSubject": 300,
    "numQOLDataPages": 0,
    "numSubjectDiaryPages": 0,
    "numPharmacoDataPages": 0,
    "monitoringMinutesPerCrfPage": 5.667
  },
  "treatmentLocations": [
    {
      "locationId": 157,
      "locationName": "Australia",
      "grantAmountPerSubject": 2260.0,
      "grantAmountPerSubjectCurrency": "USD",
      "stipendPerEnrolledSubject": 0.0,
      "stipendPerEnrolledSubjectCurrency": "USD"
    }
  ],
  "treatmentSchedule": [
    {
      "periodNum": 2,
      "numCRFPages": 2,
      "monitoringTimeMins": 8.32
    },
    {
      "periodNum": 3,
      "numCRFPages": 2,
      "monitoringTimeMins": 8.32
    },
    {
      "periodNum": 250,
      "numCRFPages": 2,
      "monitoringTimeMins": 8.32
    }
  ]
}
```

```

    ]
  }
],
"url": "/cleartrial-ws/plans/50413/treatment"
}
}

```

If the study is a Phase I Healthy Volunteers crossover study, then the output is similar to the representation that follows.

Sample output in JSON:

```

{
  "treatments": {
    "planId": 51113,
    "trialDesign": "Cross-over",
    "crossoverDesignType": "Latin Square",
    "electronicSubjectDiary": false,
    "costPerBedNight": 100.0,
    "costPerBedNightCurrency": "USD",
    "baselineAndWashoutDetails": {
      "numCRFPages": 77,
      "monitoringTimeMins": 348.34802,
      "washoutPeriod": 10,
      "washoutPeriodUnit": "day",
      "washoutPeriodBedNights": 10
    },
    "treatment": [
      {
        "treatmentId": 1,
        "duration": 10,
        "durationUnit": "day",
        "numSubjectVisits": 10,
        "numBedNights": 10,
        "standardTreatment": {
          "numCrfPagesPerSubject": 50,
          "numQOLDataPages": 0,
          "numSubjectDiaryPages": 0,
          "numPharmacoDataPages": 0,
          "monitoringMinutesPerCrfPage": 5.667
        },
        "treatmentLocations": [
          {
            "locationId": 103,
            "locationName": "Austria",
            "procedureCost": 500.0,
            "procedureCostCurrency": "USD",
            "specialProcedureCost": 0.0,
            "specialProcedureCostCurrency": "USD",
            "stipendPerEnrolledSubject": 0.0,
            "stipendPerEnrolledSubjectCurrency": "USD"
          },
          {
            "locationId": 194,
            "locationName": "Puerto Rico",
            "procedureCost": 500.0,
            "procedureCostCurrency": "USD",
            "specialProcedureCost": 0.0,
            "specialProcedureCostCurrency": "USD",
            "stipendPerEnrolledSubject": 0.0,
            "stipendPerEnrolledSubjectCurrency": "USD"
          }
        ]
      }
    ]
  }
}

```

```
],
"treatmentSchedule": [
  {
    "periodNum": 1,
    "numCRFPages": 5,
    "monitoringTimeMins": 20.810402
  },
  {
    "periodNum": 2,
    "numCRFPages": 5,
    "monitoringTimeMins": 20.810402
  },
  {
    "periodNum": 3,
    "numCRFPages": 5,
    "monitoringTimeMins": 20.810402
  },
  {
    "periodNum": 4,
    "numCRFPages": 5,
    "monitoringTimeMins": 20.810402
  },
  {
    "periodNum": 5,
    "numCRFPages": 5,
    "monitoringTimeMins": 20.810402
  },
  {
    "periodNum": 6,
    "numCRFPages": 5,
    "monitoringTimeMins": 20.810402
  },
  {
    "periodNum": 7,
    "numCRFPages": 5,
    "monitoringTimeMins": 20.810402
  },
  {
    "periodNum": 8,
    "numCRFPages": 5,
    "monitoringTimeMins": 20.810402
  },
  {
    "periodNum": 9,
    "numCRFPages": 5,
    "monitoringTimeMins": 20.810402
  },
  {
    "periodNum": 10,
    "numCRFPages": 5,
    "monitoringTimeMins": 20.810402
  }
]
},
{
  "treatmentId": 2,
  "duration": 10,
  "durationUnit": "day",
  "numSubjectVisits": 10,
  "numBedNights": 10,
```

```

"standardTreatment": {
  "numCrFPagesPerSubject": 50,
  "numQOLDataPages": 0,
  "numSubjectDiaryPages": 0,
  "numPharmacoDataPages": 0,
  "monitoringMinutesPerCrFPage": 5.667
},
"treatmentLocations": [
  {
    "locationId": 103,
    "locationName": "Austria",
    "procedureCost": 500.0,
    "procedureCostCurrency": "USD",
    "specialProcedureCost": 0.0,
    "specialProcedureCostCurrency": "USD",
    "stipendPerEnrolledSubject": 0.0,
    "stipendPerEnrolledSubjectCurrency": "USD"
  },
  {
    "locationId": 194,
    "locationName": "Puerto Rico",
    "procedureCost": 500.0,
    "procedureCostCurrency": "USD",
    "specialProcedureCost": 0.0,
    "specialProcedureCostCurrency": "USD",
    "stipendPerEnrolledSubject": 0.0,
    "stipendPerEnrolledSubjectCurrency": "USD"
  }
],
"treatmentSchedule": [
  {
    "periodNum": 1,
    "numCRFPages": 5,
    "monitoringTimeMins": 20.810402
  },
  {
    "periodNum": 2,
    "numCRFPages": 5,
    "monitoringTimeMins": 20.810402
  },
  {
    "periodNum": 3,
    "numCRFPages": 5,
    "monitoringTimeMins": 20.810402
  },
  {
    "periodNum": 4,
    "numCRFPages": 5,
    "monitoringTimeMins": 20.810402
  },
  {
    "periodNum": 5,
    "numCRFPages": 5,
    "monitoringTimeMins": 20.810402
  },
  {
    "periodNum": 6,
    "numCRFPages": 5,
    "monitoringTimeMins": 20.810402
  },
]

```

```
    {
      "periodNum": 7,
      "numCRFPages": 5,
      "monitoringTimeMins": 20.810402
    },
    {
      "periodNum": 8,
      "numCRFPages": 5,
      "monitoringTimeMins": 20.810402
    },
    {
      "periodNum": 9,
      "numCRFPages": 5,
      "monitoringTimeMins": 20.810402
    },
    {
      "periodNum": 10,
      "numCRFPages": 5,
      "monitoringTimeMins": 20.810402
    }
  ]
},
{
  "url": "/cleartrial-ws/plans/51113/treatment"
}
}
Sub-Resources: None
```

Get Monitoring Information

Obtains the monitoring information representation for a specified plan. This includes the on-site and phone-based monitoring frequency information as well as the number of CRF pages. The output differs subtly based on whether the monitoring is performed globally or at a per-location level. Both variations are shown in the samples below.

Method: GET

URL: /cleartrial-ws/plans/{planID}/monitoringInformation

Sample output in JSON showing monitoring per location and without phone-based monitoring:

```
{
  "monitoringInformation": {
    "planId": 50011,
    "scheduleManagedPerLocation": true,
    "numCRFPages": 42900.0,
    "numCRFPagesWithDrops": 42692,
    "twentyFourBySevenCoverage": true,
    "numMedicalDataListingReviews": 4567,
    "separateDrugAccountability": false,
    "staffPositionForDrugAccountability": "Not Applicable",
    "numAdditionalDrugAccountabilityPerSite": 0,
    "onSiteMonitoringFrequency": [
      {
        "locationId": 101,
        "locationName": "Canada",
        "intervals": [
          {
            "frequency": 2,
            "startDate": "31-Dec-2013 12:00:00 CDT",
```



```

        "endDate": "21-Jan-2014 12:00:00 CDT"
      },
      {
        "frequency": 5,
        "startDate": "21-Jan-2014 12:00:00 CDT",
        "endDate": "07-Oct-2014 12:00:00 CDT"
      }
    ]
  },
  {
    "locationId": 157,
    "locationName": "Australia",
    "intervals": [
      {
        "frequency": 2,
        "startDate": "11-Feb-2014 12:00:00 CDT",
        "endDate": "04-Mar-2014 12:00:00 CDT"
      },
      {
        "frequency": 5,
        "startDate": "04-Mar-2014 12:00:00 CDT",
        "endDate": "15-Apr-2014 12:00:00 CDT"
      },
      {
        "frequency": 5,
        "startDate": "15-Apr-2014 12:00:00 CDT",
        "endDate": "20-May-2014 12:00:00 CDT"
      },
      {
        "frequency": 5,
        "startDate": "20-May-2014 12:00:00 CDT",
        "endDate": "18-Nov-2014 12:00:00 CDT"
      }
    ]
  }
],
"locationMonitoringDetails": [
  {
    "locationId": 101,
    "locationName": "Canada",
    "pctCRAFieldTime": 65.0,
    "pctMonTimeByCRA": 100.0,
    "percentRegionalMonitoring": 0.0,
    "pctDataChecked": 100.0,
    "timeToReviewPrevData": 7.168,
    "avgTravelTime": 5.0,
    "useOnSiteMonitoring": true,
    "usePhoneBasedMonitoring": false,
    "monitoringTravelStrategy": "Loop",
    "numMonitorTrips": 900,
    "numCRFPages": 10000,
    "numCRFPagesWithDrops": 7790
  },
  {
    "locationId": 157,
    "locationName": "Australia",
    "pctCRAFieldTime": 65.0,
    "pctMonTimeByCRA": 100.0,
    "percentRegionalMonitoring": 0.0,
    "pctDataChecked": 100.0,

```

```
        "timeToReviewPrevData": 7.168,
        "avgTravelTime": 5.0,
        "useOnSiteMonitoring": true,
        "usePhoneBasedMonitoring": false,
        "monitoringTravelStrategy": "Loop",
        "numMonitorTrips": 900
        "numCRFPages": 10000,
        "numCRFPagesWithDrops": 7790
    }
],
    "url": "/cleartrial-ws/plans/50011/monitoringInformation"
}
}
```

Sample output in JSON showing monitoring globally and without phone-based monitoring:

```
{
  "monitoringInformation": {
    "planId": 50011,
    "scheduleManagedPerLocation": false,
    "numMonitorTrips": 1800,
    "numCRFPages": 42900.0,
    "numCRFPagesWithDrops": 42692,
    "twentyFourBySevenCoverage": true,
    "numMedicalDataListingReviews": 4567,
    "separateDrugAccountability": false,
    "staffPositionForDrugAccountability": "Not Applicable",
    "numAdditionalDrugAccountabilityPerSite": 0,
    "onSiteMonitoringFrequency": [
      {
        "locationId": 101,
        "locationName": "Canada",
        "intervals": [
          {
            "frequency": 2,
            "startDate": "31-Dec-2013 12:00:00 CDT",
            "endDate": "21-Jan-2014 12:00:00 CDT"
          },
          {
            "frequency": 5,
            "startDate": "21-Jan-2014 12:00:00 CDT",
            "endDate": "07-Oct-2014 12:00:00 CDT"
          }
        ]
      },
      {
        "locationId": 157,
        "locationName": "Australia",
        "intervals": [
          {
            "frequency": 2,
            "startDate": "11-Feb-2014 12:00:00 CDT",
            "endDate": "04-Mar-2014 12:00:00 CDT"
          },
          {
            "frequency": 5,
            "startDate": "04-Mar-2014 12:00:00 CDT",
            "endDate": "18-Nov-2014 12:00:00 CDT"
          }
        ]
      }
    ]
  }
}
```

```

    }
  ],
  "locationMonitoringDetails": [
    {
      "locationId": 101,
      "locationName": "Canada",
      "pctCRAFieldTime": 65.0,
      "pctMonTimeByCRA": 100.0,
      "percentRegionalMonitoring": 0.0,
      "pctDataChecked": 100.0,
      "timeToReviewPrevData": 7.168,
      "avgTravelTime": 5.0,
      "useOnSiteMonitoring": true,
      "usePhoneBasedMonitoring": false,
      "monitoringTravelStrategy": "Loop"
    },
    {
      "locationId": 157,
      "locationName": "Australia",
      "pctCRAFieldTime": 65.0,
      "pctMonTimeByCRA": 100.0,
      "percentRegionalMonitoring": 0.0,
      "pctDataChecked": 100.0,
      "timeToReviewPrevData": 7.168,
      "avgTravelTime": 5.0,
      "useOnSiteMonitoring": true,
      "usePhoneBasedMonitoring": false,
      "monitoringTravelStrategy": "Loop"
    }
  ],
  "url": "/cleartrial-ws/plans/50011/monitoringInformation"
}

```

Sample output in JSON showing monitoring globally and with phone-based monitoring:

```

{
  "monitoringInformation": {
    "planId": 50011,
    "scheduleManagedPerLocation": false,
    "numMonitorTrips": 1800,
    "numCRFPages": 10000,
    "numCRFPagesWithDrops": 7790
    "numDefaultPhoneBasedMonitoringVisits": 1600,
    "numCRFPages": 42900.0,
    "numCRFPagesWithDrops": 42692,
    "twentyFourBySevenCoverage": true,
    "numMedicalDataListingReviews": 4567,
    "separateDrugAccountability": false,
    "staffPositionForDrugAccountability": "Not Applicable",
    "numAdditionalDrugAccountabilityPerSite": 0,
    "onSiteMonitoringFrequency": [
      {
        "locationId": 101,
        "locationName": "Canada",
        "intervals": [
          {
            "frequency": 2,
            "startDate": "31-Dec-2013 12:00:00 CDT",
            "endDate": "21-Jan-2014 12:00:00 CDT"
          }
        ]
      }
    ]
  }
}

```

```
    },
    {
      "frequency": 5,
      "startDate": "21-Jan-2014 12:00:00 CDT",
      "endDate": "07-Oct-2014 12:00:00 CDT"
    }
  ]
},
{
  "locationId": 157,
  "locationName": "Australia",
  "intervals": [
    {
      "frequency": 2,
      "startDate": "11-Feb-2014 12:00:00 CDT",
      "endDate": "04-Mar-2014 12:00:00 CDT"
    },
    {
      "frequency": 5,
      "startDate": "04-Mar-2014 12:00:00 CDT",
      "endDate": "18-Nov-2014 12:00:00 CDT"
    }
  ]
}
],
"phoneMonitoringFrequency": [
  {
    "locationId": 101,
    "locationName": "Canada",
    "intervals": [
      {
        "frequency": 5,
        "startDate": "31-Dec-2013 12:00:00 CDT",
        "endDate": "07-Oct-2014 12:00:00 CDT"
      }
    ]
  },
  {
    "locationId": 157,
    "locationName": "Australia",
    "intervals": [
      {
        "frequency": 5,
        "startDate": "11-Feb-2014 12:00:00 CDT",
        "endDate": "18-Nov-2014 12:00:00 CDT"
      }
    ]
  }
],
"locationMonitoringDetails": [
  {
    "locationId": 101,
    "locationName": "Canada",
    "pctCRAFieldTime": 65.0,
    "pctMonTimeByCRA": 100.0,
    "percentRegionalMonitoring": 0.0,
    "pctDataChecked": 100.0,
    "timeToReviewPrevData": 7.168,
    "avgTravelTime": 5.0,
    "useOnSiteMonitoring": true,
```

```

        "usePhoneBasedMonitoring": true,
        "monitoringTravelStrategy": "Loop",
        "avgHoursPerPhoneBasedVisit": 4.0
    },
    {
        "locationId": 157,
        "locationName": "Australia",
        "pctCRAFieldTime": 65.0,
        "pctMonTimeByCRA": 100.0,
        "percentRegionalMonitoring": 0.0,
        "pctDataChecked": 100.0,
        "timeToReviewPrevData": 7.168,
        "avgTravelTime": 5.0,
        "useOnSiteMonitoring": true,
        "usePhoneBasedMonitoring": true,
        "monitoringTravelStrategy": "Loop",
        "avgHoursPerPhoneBasedVisit": 4.0
    }
],
"url": "/cleartrial-ws/plans/50011/monitoringInformation"
}
}

```

Get Monitoring Schedule

Obtains the monitoring schedule representation for each location in a specified plan.

Method: GET

URL: /cleartrial-ws/plans/{planID}/monitoringSchedule

Sample output in JSON:

```

{
  "monitoringSchedule":{
    "planId":10802,
    "location":[
      {
        "locationId":100,
        "locationName":"USA",
        "periods":[
          {
            "periodDate":"23-Sep-2010",
            "crfPagesWithDrop":180.0,
            "totalTimePerSiteVisit":1.0,
            "monitoringDays":0.0
          },
          {
            ...
            ...
          },
          ...
          ...
        ]
      }
    ],
    {
      "locationId":101,
      ...
    },
    {

```

```
        ...
        ...
    }
    ],
    "url": "/cleartrial-ws/plans/10802/monitoringSchedule"
}
}
```

Sub-Resources: None

Get Service Providers

Obtains the service providers that are used in the specified plan.

Method: GET

URL: /cleartrial-ws/plans/{planID}/serviceProvider

Sample output in JSON:

```
{
  "serviceProvider": {
    "planId": 10802,
    "provider": [
      {
        "name": "QA",
        "defaultBillingRateLocation": "USA",
        "effectiveRateYear": 2010,
        "useCompoundInflation": true,
        "discountRate": 0.0,
        "pmUtilizationPrior": 0.0,
        "pmUtilizationPost": 0.0,
        "staffUtilization": 60.0,
        "numAffiliates": 0,
        "manageCtms": false
      },
      {
        "name": "Premium CRO",
        "defaultBillingRateLocation": "USA",
        "effectiveRateYear": 2010,
        "useCompoundInflation": true,
        "discountRate": 0.0,
        "pmUtilizationPrior": 160.545,
        "pmUtilizationPost": 160.545,
        "staffUtilization": 80.0,
        "numAffiliates": 0,
        "manageCtms": false
      },
      ...
    ],
    "url": "/cleartrial-ws/plans/10802/serviceProvider"
  }
}
```

Sample output in XML, including exchange rate data. The exchangeRateDate field is added only if the As-Of option has been selected.

```
<provider>
  <id>10201</id>
```

```

<name>QA</name>
<defaultBillingRateLocation>USA</defaultBillingRateLocation>
<effectiveRateYear>2012</effectiveRateYear>
<useCompoundInflation>true</useCompoundInflation>
<discountRate>0.0</discountRate>
<exchangeRates>
  <billingRateCurrency>USD</billingRateCurrency>
  <exchangeRateDate>07-Mar-2011</exchangeRateDate>
  <exchangeRate>
    <destinationCurrency>ARS</destinationCurrency>
    <value>3.8314499855041495</value>
  </exchangeRate>
</exchangeRates>
<lineItemDiscount>0.0</lineItemDiscount>
<lineItemDiscountCurrency>USD</lineItemDiscountCurrency>
<pmUtilizationPrior>0.0</pmUtilizationPrior>
<pmUtilizationPost>0.0</pmUtilizationPost>
<staffUtilization>60.0</staffUtilization>
<numAffiliates>0</numAffiliates>
<manageCtms>false</manageCtms>
</provider>
Sub-Resources: None

```

Get Service Provider

Provides details about the service provider for whose scope of work the RFP was created.

Method: GET

URL: /cleartrial-ws/plans/<planID>/serviceProvider/<serviceProviderId>

Sample output in JSON:

```

{
  "serviceProvider": {
    "planId": 32610,
    "provider": [
      {
        "name": "2.4.1_CRO",
        "defaultBillingRateLocation": "UK",
        "effectiveRateYear": 2008,
        "useCompoundInflation": false,
        "discountRate": 0,
        "lineItemDiscount": 99999999.99,
        "pmUtilizationPrior": 186.89998,
        "pmUtilizationPost": 186.89998,
        "staffUtilization": 80,
        "numAffiliates": 0,
        "manageCtms": false
      }
    ],
    "url": "/cleartrial-ws/plans/32610/serviceProvider/200" [<= where 200 is
service provider id]
  }
}

```

Get Meetings

Obtains the meeting details for a specified plan.

Method: GET

URL: /cleartrial-ws/plans/{planID}/meetings

Sample output in XML:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<meetings>
  <planId>19000</planId>
  <startDate>04-Oct-2016 12:00:00 CDT</startDate>
  <endDate>30-Dec-2017 12:00:00 CST</endDate>
  <meeting>
    <id>1</id>
    <name>Investigator Meeting</name>
    <type>Investigator</type>
    <included>true</included>
    <planner>
      <id>10901</id>
      <name>INR Service Provider</name>
      <url>/cleartrial-ws/plans/19000/serviceProvider/10901</url>
    </planner>
    <location>
      <id>167</id>
      <name>India</name>
      <code>IN</code>
      <description>India</description>
    </location>
    . . .
    <providerAttendees>
      <serviceProvider>
        <id>10901</id>
        <name>INR Service Provider</name>
        <url>/cleartrial-ws/plans/19000/serviceProvider/10901</url>
        <attendees>
          <attendee>
            <resource>
              <id>1</id>
              <name>Clinical Research Associate</name>
              <code>CR01</code>
              <description>Clinical Research Associate</description>
            </resource>
            <numberOfAttendees>10</numberOfAttendees>
            <billingRateLocation>
              <id>103</id>
              <name>Austria</name>
              <code>AT</code>
              <description>Austria</description>
            </billingRateLocation>
            <attendanceMethod>Travel International</attendanceMethod>
            <hours>
              <preparationHours>10.0</preparationHours>
              <travelHours>20.0</travelHours>
              <attendanceHours>8.0</attendanceHours>
              <followUpHours>3.0</followUpHours>
            </hours>
            . . .
          </attendee>
          . . .
        </attendees>
      </serviceProvider>
      . . .
    </providerAttendees>
  </meeting>
  . . .
</meetings>
```



```

    </providerAttendees>
    <siteAttendees>
      <location>
        <id>108</id>
        <name>Greece</name>
        <code>GR</code>
        <description>Greece</description>
        <attendees>
          <attendee>
            <numberOfSitesAttending>23</numberOfSitesAttending>
            <attendeesPerSite>2</attendeesPerSite>
            <attendanceMethod>Travel International</attendanceMethod>
            . . .
          </attendee>
          . . .
        </attendees>
      </location>
      . . .
    </siteAttendees>
    <providerAttendeesUrl>/cleartrial-ws/plans/19000/meetings/1/
    providerAttendees</providerAttendeesUrl>
    <siteAttendeesUrl>/cleartrial-ws/plans/19000/meetings/1/
    siteAttendees</siteAttendeesUrl>
    <url>/cleartrial-ws/plans/19000/meetings/1</url>
  </meeting>
  . . .
</url>/cleartrial-ws/plans/19000/meetings</url>
</meetings>

```

Sub-Resources: None

Get Meeting By ID

Get meeting details for specific meeting type.

Method: GET

URL: /cleartrial-ws/plans/<planID>/meetings/n

Sample output in XML:

```

<meeting>
  <id>1</id>
  <name>Investigator Meeting</name>
  <type>Investigator</type>
  <included>true</included>
  <planner>
    <id>10901</id>
    <name>INR Service Provider</name>
    <url>/cleartrial-ws/plans/19000/serviceProvider/10901</url>
  </planner>
  <location>
    <id>167</id>
    <name>India</name>
    <code>IN</code>
    <description>India</description>
  </location>
  <nonTravelEventCost>
    <amount>0.0</amount>
    <currency>USD</currency>
  </nonTravelEventCost>

```

```
<schedule>
  <frequency>Once</frequency>
  <numberOfMeetings>1</numberOfMeetings>
  <durationPerMeeting>8.0</durationPerMeeting>
  <startDate>21-Feb-2017 12:00:00 CST</startDate>
  <endDate>21-Feb-2017 12:00:00 CST</endDate>
</schedule>
<providerAttendees>
  <serviceProvider>
    <id>10901</id>
    <name>INR Service Provider</name>
    <url>/cleartrial-ws/plans/19000/serviceProvider/10901</url>
    <attendees>
      <attendee>
        <resource>
          <id>1</id>
          <name>Clinical Research Associate</name>
          <code>CR01</code>
          <description>Clinical Research Associate</description>
        </resource>
        <numberOfAttendees>10</numberOfAttendees>
        <billingRateLocation>
          <id>103</id>
          <name>Austria</name>
          <code>AT</code>
          <description>Austria</description>
        </billingRateLocation>
        <attendanceMethod>Travel International</attendanceMethod>
        <hours>
          <preparationHours>10.0</preparationHours>
          <travelHours>20.0</travelHours>
          <attendanceHours>8.0</attendanceHours>
          <followUpHours>3.0</followUpHours>
        </hours>
        ...
      </attendee>
      ...
    </attendees>
  </serviceProvider>
  ...
</providerAttendees>
<siteAttendees>
  <location>
    <id>108</id>
    <name>Greece</name>
    <code>GR</code>
    <description>Greece</description>
    <attendees>
      <attendee>
        <numberOfSitesAttending>23</numberOfSitesAttending>
        <attendeesPerSite>2</attendeesPerSite>
        <attendanceMethod>Travel International</attendanceMethod>
        <indirectCosts>
          <travelCost>
            <amount>2000.0</amount>
            <currency>USD</currency>
          </travelCost>
          <otherCost>
            <amount>0.0</amount>
            <currency>USD</currency>
          </otherCost>
        </indirectCosts>
      </attendee>
    </attendees>
  </location>
</siteAttendees>
```

```

        </otherCost>
      </indirectCosts>
    </attendee>
    ...
  </attendees>
</location>
...
</siteAttendees>
<providerAttendeesUrl>/cleartrial-ws/plans/19000/meetings/1/
providerAttendees</providerAttendeesUrl>
<siteAttendeesUrl>/cleartrial-ws/plans/19000/meetings/1/
siteAttendees</siteAttendeesUrl>
<url>/cleartrial-ws/plans/19000/meetings/1</url>
</meeting>

```

Sub-Resources: None

Get Meeting Provider Attendees

Get meeting details for specific provider attendees.

Method: GET

URL: /cleartrial-ws/plans/<planID>/meetings/n/providerAttendees

Sample output in XML:

```

<meeting>
  <id>1</id>
  <name>Investigator Meeting</name>
  <type>Investigator</type>
  <included>true</included>
  <planner>
    <id>10901</id>
    <name>INR Service Provider</name>
    <url>/cleartrial-ws/plans/19000/serviceProvider/10901</url>
  </planner>
  <location>
    <id>167</id>
    <name>India</name>
    <code>IN</code>
    <description>India</description>
  </location>
  <nonTravelEventCost>
    <amount>0.0</amount>
    <currency>USD</currency>
  </nonTravelEventCost>
  <schedule>
    <frequency>Once</frequency>
    <numberOfMeetings>1</numberOfMeetings>
    <durationPerMeeting>8.0</durationPerMeeting>
    <startDate>21-Feb-2017 12:00:00 CST</startDate>
    <endDate>21-Feb-2017 12:00:00 CST</endDate>
  </schedule>
  <providerAttendees>
    <serviceProvider>
      <id>10901</id>
      <name>INR Service Provider</name>
      <url>/cleartrial-ws/plans/19000/serviceProvider/10901</url>
    <attendees>
      <attendee>

```

```
<resource>
  <id>1</id>
  <name>Clinical Research Associate</name>
  <code>CR01</code>
  <description>Clinical Research Associate</description>
</resource>
<numberOfAttendees>10</numberOfAttendees>
<billingRateLocation>
  <id>103</id>
  <name>Austria</name>
  <code>AT</code>
  <description>Austria</description>
</billingRateLocation>
<attendanceMethod>Travel International</attendanceMethod>
<hours>
  <preparationHours>10.0</preparationHours>
  <travelHours>20.0</travelHours>
  <attendanceHours>8.0</attendanceHours>
  <followUpHours>3.0</followUpHours>
</hours>
<indirectCosts>
  <travelCost>
    <amount>2000.0</amount>
    <currency>USD</currency>
  </travelCost>
  <otherCost>
    <amount>0.0</amount>
    <currency>USD</currency>
  </otherCost>
</indirectCosts>
</attendee>
...
</attendees>
</serviceProvider>
...
</providerAttendees>
<url>/cleartrial-ws/plans/19000/meetings/1/providerAttendees</url>
</meeting>
```

Sub-Resources: None

Get Meeting Site Attendees

Get meeting details for specific site attendees.

Method: GET

URL: /cleartrial-ws/plans/<planID>/meetings/n/siteAttendees

Sample output in XML:

```
<meeting>
  <id>1</id>
  <name>Investigator Meeting</name>
  <type>Investigator</type>
  <included>true</included>
  <planner>
    <id>10901</id>
    <name>INR Service Provider</name>
    <url>/cleartrial-ws/plans/19000/serviceProvider/10901</url>
  </planner>
</meeting>
```

```

<location>
  <id>167</id>
  <name>India</name>
  <code>IN</code>
  <description>India</description>
</location>
<nonTravelEventCost>
  <amount>0.0</amount>
  <currency>USD</currency>
</nonTravelEventCost>
<schedule>
  <frequency>Once</frequency>
  <numberOfMeetings>1</numberOfMeetings>
  <durationPerMeeting>8.0</durationPerMeeting>
  <startDate>21-Feb-2017 12:00:00 CST</startDate>
  <endDate>21-Feb-2017 12:00:00 CST</endDate>
</schedule>
<siteAttendees>
  <location>
    <id>108</id>
    <name>Greece</name>
    <code>GR</code>
    <description>Greece</description>
    <attendees>
      <attendee>
        <numberOfSitesAttending>23</numberOfSitesAttending>
        <attendeesPerSite>2</attendeesPerSite>
        <attendanceMethod>Travel International</attendanceMethod>
        <indirectCosts>
          <travelCost>
            <amount>2000.0</amount>
            <currency>USD</currency>
          </travelCost>
          <otherCost>
            <amount>0.0</amount>
            <currency>USD</currency>
          </otherCost>
        </indirectCosts>
      </attendee>
      ...
    </attendees>
  </location>
  ...
</siteAttendees>
<url>/cleartrial-ws/plans/19000/meetings/1/siteAttendees</url>
</meeting>

```

Sub-Resources: None

Get Labor

Shows the breakdown of labor by major task, task, location, and resources. The resource's adjusted unit hours percentage has been added via the *unitHoursPct* element with the following two nested properties: *defaultPct* and *userPct*.

Method: GET

URL: /cleartrial-ws/plans/{planID}/labor

Sample output in JSON:

```
{
```

```
"planLabor": {
  "planId": 67433,
  "currency": "USD",
  "majorTask": [
    {
      "id": 2,
      "name": "Project Initiated",
      "unitOfMeasure": "Study",
      "sortOrder": 1000000,
      "description": "Project-related start-up activities, such as contract
negotiation with Vendors/Sponsors, study metrics operating guidelines, assigning
the study team, and required resource plans by department, etc.",
      "task": [
        {
          "id": 2,
          "name": "Develop scope of work, timeline, work assignments",
          "code": "TT.223",
          "mappingKey": "T032",
          "sortOrder": 500000000,
          "description": "From the basic BD proposal and protocol, develop the
scope of work documents, project plan (e.g., MS Project files), and individual
work assignments for the resources working on the project.",
          "location": [
            {
              "locationId": 0,
              "locationName": "All Locations",
              "resource": [
                {
                  "id": 1,
                  "name": "Clinical Research Associate ED",
                  "code": "CR01Ed",
                  "serviceProviderId": 10104,
                  "serviceProviderName": "ClearTrial Operations",
                  "departmentCode": "CRs",
                  "departmentName": "Clinical Operations",
                  "generalLedgerCode": "Unmapped",
                  "generalLedgerCodeName": "Unmapped",
                  "startDate": "01-Jun-2016 12:00:00 CDT",
                  "endDate": "07-Sep-2016 12:00:00 CDT",
                  "billingRate": 0,
                  "billingRateLocationId": 100,
                  "billingRateLocation": "USA",
                  "unitCost": 0,
                  "inflatedUnitCost": 0,
                  "unitHours": 0,
                  "unitHoursPct": {
                    "defaultPct": 100,
                    "userPct": 50.5
                  },
                  "cost": 0,
                  "inflatedTotalCost": 0,
                  "hours": 0,
                  "numUnits": 1,
                  "adjustmentToHours": 4.0
                },
                {
                  "id": 2,
                  "name": "Senior Clinical Researcher Associate",
                  "code": "CR02",
                  ...
                }
              ]
            }
          ]
        }
      ]
    }
  ]
}
```

```

        },
        ...
    ]
},
{
    "locationId": 100,
    "locationName": "USA",
    ...
}
...
]
},
{
    "id": 2,
    "name": "Develop scope of work, timeline, work assignments",
    "sortOrder": 600000000,
    ...
}
...
]
},
{
    "id": 32,
    "name": "Study Setup",
    "unitOfMeasure": "Study",
    "sortOrder": 2000000,
    ...
}
...
],
"laborMonthlyByMajorTaskUrl":
"/cleartrial-ws/plans/67433/labor?view=monthlyByMajorTask",
"laborMonthlyByResourceUrl":
"/cleartrial-ws/plans/67433/labor?view=monthlyByResource",
"url": "/cleartrial-ws/plans/67433/labor"
}
}

```

Sub-Resources: None

Get Labor Monthly View by Major Task

Shows the monthly cost, inflation, and hours breakdown of labor by provider, location, department, general ledger code, and major task.

Method: GET

URL: /cleartrial-ws/plans/{planID}/labor?view=monthlyByMajorTask

Sample output in JSON:

```

{
  "planLaborMonthlyView": {
    "planId": 10802,
    "currency": "USD",
    "provider": [
      {
        "id": 251,
        "name": "Premium CRO",
        "location": [

```

```
{
  "id": 0,
  "name": "All Locations",
  "department": [
    {
      "id": 2,
      "name": "Clinical Operations",
      "generalLedgerCode": [
        {
          "id": 21,
          "name": "Professional Fees",
          "majorTask": [
            {
              "id": 2,
              "name": "Project Initiated",
              "sortOrder": 8,
              "description": "Sample description",
              "unitOfMeasure": "Study",
              "monthlyCost": [
                {
                  "year": 2010,
                  "month": 4,
                  "cost": 12640.567335728245,
                  "inflation": 0.0,
                  "hours": 51.39730903080536
                },
                {
                  "year": 2010,
                  "month": 5,
                  "cost": 13061.919580252521,
                  "inflation": 0.0,
                  "hours": 53.110552665165535
                },
                ...
                ...
              ]
            },
            {
              "id": 32,
              "name": "Study Setup",
              "unitOfMeasure": "Study",
              "monthlyCost": [
                ...
                ...
              ]
            },
            ...
            ...
          ]
        }
      ]
    },
    {
      "id": 6,
      "name": "Dues & Subscription",
      "majorTask": [
        {
          "id": 2,
          "name": "Project Initiated",
          "unitOfMeasure": "Study",
          "sortOrder": 8,
          "description": "Sample description",
```



```

        "monthlyCost": [
            {
                "year": 2010,
                "month": 4,
                "cost": 22640.567335728245,
                "inflation": 0.0,
                "hours": 61.39730903080536
            },
            {
                "year": 2010,
                "month": 5,
                "cost": 13061.919580252521,
                "inflation": 0.0,
                "hours": 53.110552665165535
            },
            ...
            ...
        ]
    },
    {
        "id": 32,
        "name": "Study Setup",
        "unitOfMeasure": "Study",
        "monthlyCost": [
            ...
            ...
        ]
    },
    ...
    ...
]
}
...
...
]
},
{
    "id": 3,
    "name": "Data Management",
    ...
    ...
},
...
...
},
{
    "id": 100,
    "name": "USA",
    ...
    ...
},
...
...
},
{
    "id": 10201,
    "name": "QA",
    ...
    ...
}

```

```
...
...
],
"url":"/cleartrial-ws/plans/10802/labor?view=monthlyByMajorTask"
}
}
```

Sub-Resources: None

Get Labor Monthly View by Resource

Shows the monthly hours breakdown of labor by provider, location, department, general ledger code, resource, and major task.

Method: GET

URL: /cleartrial-ws/plans/{planID}/labor?view=monthlyByResource

Sample output in JSON:

```
{
  "planResourcesMonthlyView": {
    "planId": 10802,
    "currency": "USD"
    "provider": [
      {
        "id": 251,
        "name": "Premium CRO",
        "location": [
          {
            "id": 0,
            "name": "All Locations",
            "department": [
              {
                "id": 2,
                "name": "Clinical Operations",
                "generalLedgerCode": [
                  {
                    "id": 21,
                    "name": "Professional Fees",
                    "resource": [
                      {
                        "id": 1,
                        "name": "Clinical Research Associate",
                        "code": "CR01",
                        "majorTask": [
                          {
                            "id": 2,
                            "name": "Project Initiated",
                            "unitOfMeasure": "Study",
                            "sortOrder": 8,
                            "description": "Sample description",
                            "monthlyCost": [
                              {
                                "year": 2010,
                                "month": 4,
                                "hours": 7.187143380301344
                              },
                              {
                                "year": 2010,
                                "month": 5,
```

```

        "hours": 7.42671482631139
      },
      ...
    ],
    {
      "id": 32,
      "name": "Study Setup",
      "unitOfMeasure": "Study",
      ...
    },
    ...
  ],
  {
    "id": 2,
    "name": "Senior Clinical Research Associate",
    "code": "CR02",
    ...
  },
],
{
  "id": 6,
  "name": "Dues & Subscription",
  ...
}
},
{
  "id": 3,
  "name": "Data Management",
  ...
},
...
]
},
{
  "id": 100,
  "name": "USA",
  ...
},
...
]
},
{
  "id": 10201,
  "name": "QA",
  ...
}
...

```

```
    ],  
    "url": "/cleartrial-ws/plans/10802/labor?view=monthlyByResource"  
  }  
}
```

Sub-Resources: None

Get Costs

Shows the calculated costs for a plan.

Method: GET

URL: /cleartrial-ws/plans/{planID}/cost

Sample output in JSON:

```
{  
  "costs": {  
    "planId": 67433,  
    "cost": [  
      {  
        "id": 1,  
        "name": "Advertising (additional)",  
        "code": "AA.123",  
        "mappingKey": "T002",  
        "type": "Miscellaneous",  
        "description": "Sample description",  
        "includedCost": true,  
        "location": [  
          {  
            "id": 0,  
            "name": "All Locations",  
            "serviceProvider": "ClearTrial Operations",  
            "departmentCode": "DS",  
            "departmentName": "Safety",  
            "generalLedgerCode": "1000",  
            "generalLedgerCodeName": "Advertising and Promotion",  
            "startDate": "01-Jun-2016 12:00:00 CDT",  
            "endDate": "17-Jun-2018 12:00:00 CDT",  
            "amount": {  
              "currency": "USD",  
              "calculatedAmount": 0,  
              "adjustmentAmount": 261217,  
              "inflationAmount": 0,  
              "totalAmount": 261217  
            }  
          },  
          {  
            "id": 100,  
            "name": "USA",  
            ...  
          }  
        ],  
        ...  
      }  
    ],  
    {  
      "id": 5,  
      "name": "CRF Printing",  
      "type": "Miscellaneous",  
      ...  
    }  
  }  
}
```

```

    },
    ...
  ],
  "url": "/cleartrial-ws/plans/67433/cost"
}

```

Sub-Resources: None

Get Costs Monthly View

Shows the monthly calculated costs and inflation breakdown for a plan by provider, location, department, general ledger code, and cost.

Method: GET

URL: /cleartrial-ws/plans/{planID}/cost?view=monthly

Sample output in JSON:

```

{
  "costsMonthlyView": {
    "planId": 10802,
    "currency": "USD",
    "provider": [
      {
        "id": 251,
        "name": "Premium CRO",
        "location": [
          {
            "id": 0,
            "name": "All Locations",
            "department": [
              {
                "code": "CR",
                "name": "Clinical Operations",
                "generalLedgerCode": [
                  {
                    "code": "2800",
                    "name": "Outside Services",
                    "cost": [
                      {
                        "id": 39,
                        "name": "EDC Setup",
                        "type": "Pass Through",
                        "description": "Sample description",
                        "code": "AA.123",
                        "mappingKey": "T002",
                        "monthlyCost": [
                          {
                            "year": 2010,
                            "month": 8,
                            "cost": 2666.6666666666665,
                            "inflation": 0.0
                          },
                          {
                            "year": 2010,
                            "month": 9,
                            "cost": 7333.333333333333,
                            "inflation": 0.0
                          }
                        ]
                      }
                    ]
                  }
                ]
              }
            ]
          }
        ]
      }
    ]
  }
}

```

```
        }
        ...
        ...
    ]
    },
    {
        "id": 40,
        "name": "EDC Licensing",
        "type": "Pass Through",
        ...
        ...
    },
    ...
    ...
    ]
    },
    {
        "code": "3600",
        "name": "Travel Expense",
        ...
        ...
    }
    ...
    ...
    ]
    },
    {
        "code": "DS",
        "name": "Safety",

    }
    ...
    ...
    ]
    },
    {
        "id": 104,
        "name": "Belgium",
        ...
        ...
    },
    ...
    ...
    ]
    },
    {
        "id": 10201,
        "name": "QA",
        ...
        ...
    },
    ...
    ...
    ],
    "url": "/cleartrial-ws/plans/10802/cost?view=monthly"
}
}
```

Sub-Resources: None

Get Custom Assumptions

Obtains a list of all custom assumptions for a specified plan. The custom assumptions are grouped into "studyScopedCustomAssumptions" and "locationScopedCustomAssumptions."

The custom field Label is returned to the custom field endpoint to integrate with an internal system or to be used to generate ad hoc reports using the same field names that users see in the ClearTrial application.

Method: GET

URL: /cleartrial-ws/plans/{planID}/customAssumption

Sample output in JSON:

```
{
  "customAssumptions":
  {
    "planId": 18608,
    "costModel": "5.4",
    "customAssumptionModel": 7,
    "customAssumptionModelDescription": "Different Label",
    "studyScopedCustomAssumptions":
    [
      {
        {
          "tab": "Overview",
          "name": "customAssumption",
          "label": "Label for custom assumption",
          "sortOrderRank": 7460,
          "workUnitName": "customAssumption",
          "dataType": "positive whole number",
          "value": 230
        }
      },
      {
        "studyScopedCustomAssumption":
        {
          "tab": "Subject",
          "name": "StudyScopedAssumption",
          "label": "Study Scoped Assumption",
          "sortOrderRank": 3420,
          "workUnitName": "StudyScopedAssumption",
          "dataType": "positive whole number",
          "value": 0
        }
      },
      {
        "studyScopedCustomAssumption":
        {
          "tab": "Data",
          "name": "DataStudyScopedAssumption2",
          "label": "Data Study Scoped Assumption 2",
          "sortOrderRank": 2145,
          "workUnitName": "DataStudyScopedAssumption2",
          "dataType": "positive whole number",
          "value": 0
        }
      },
    ]
  }
}
```

```
      "studyScopedCustomAssumption":
      {
        "tab": "Data",
        "name": "NewStudyScopedAssumption",
        "label": "New Study Scoped Assumption",
        "sortOrderRank": 4430,
        "workUnitName": "NewStudyScopedAssumption",
        "dataType": "positive whole number",
        "value": 0
      }
    },
    {
      "studyScopedCustomAssumption":
      {
        "tab": "Data",
        "name": "DataTabStudyScopedAssumption",
        "label": "Data Tab Study Scoped Assumption",
        "sortOrderRank": 7450,
        "workUnitName": "DataTabStudyScopedAssumption",
        "dataType": "positive whole number",
        "value": 0
      }
    }
  ],
  "locationScopedCustomAssumptions":
  [
    {
      "tab": "Site",
      "name": "LocationScopedAssumption",
      "label": "Location Scoped Assumption",
      "sortOrderRank": 20,
      "workUnitName": "LocationScopedAssumption",
      "dataType": "positive whole number",
      "locations":
      [
        {
          "location":
          {
            "locationId": 101,
            "locationName": "Canada",
            "value": 0
          }
        },
        {
          "location":
          {
            "locationId": 158,
            "locationName": "New Zealand",
            "value": 0
          }
        }
      ]
    }
  ],
  {
    "tab": "Monitoring",
    "name": "NewLocationScopedAssumption",
    "label": "New Location Scoped Assumption",
    "sortOrderRank": 7440,
    "workUnitName": "NewLocationScopedAssumption",
    "dataType": "positive whole number",
```



```
    "locations":
    [
      {
        "location":
        {
          "locationId": 101,
          "locationName": "Canada",
          "value": 0
        }
      },
      {
        "location":
        {
          "locationId": 158,
          "locationName": "New Zealand",
          "value": 0
        }
      }
    ]
  },
  "url": "/cleartrial-ws/plans/18608/customAssumption"
}
Sub-Resources: None
```

Service Provider Resource API

The ClearTrial Web Service Service Provider Resource API returns information about service providers active in ClearTrial.

Get Service Providers

Obtains the service providers that are used in the specified plan.

Method: GET

URL: /cleartrial-ws/serviceProviders

Sample output in JSON:

```
{
  "serviceProviders": {
    "pageNumber": 1,
    "pageSize": 12,
    "totalPages": 1,
    "isLastPage": true,
    "serviceProvider": [
      {
        "id": 226,
        "name": "Average All CROs",
        "code": "Average All CROs",
        "description": "Average All CROs",
        "createdBy": "Administrator, ClearTrial",
        "createdDate": "26-Dec-2016 00:47:55 CST",
        "lastModifiedBy": "Administrator, ClearTrial",
        "lastModifiedDate": "26-Dec-2016 00:47:55 CST",
        "providerType": {
          "id": 3,
          "name": "Contract Research Organization",
          "code": "CRO"
        },
        "billingRatesCurrency": {
          "id": 840,
          "name": "US Dollar",
          "code": "USD",
          "description": "US Dollar"
        },
        "billingRateLocation": {
          "id": 100,
          "name": "USA",
          "code": "US",
          "description": "USA"
        }
      }
    ]
  }
}
```

```
    "url": "/cleartrial-ws/serviceProviders/226"
  },
  {
    "id": 10301,
    "name": "DA Test Provider",
    "createdBy": "Administrator, QA",
    "createdDate": "20-Oct-2010 09:28:02 CDT",
    "lastModifiedBy": "Administrator, QA",
    "lastModifiedDate": "28-Dec-2010 10:40:43 CST",
    "providerType": {
      "id": 3,
      "name": "Contract Research Organization",
      "code": "CRO"
    },
    "billingRatesCurrency": {
      "id": 840,
      "name": "US Dollar",
      "code": "USD"
    },
    "billingRateLocation": {
      "id": 100,
      "name": "USA",
      "code": "US",
      "description": "USA"
    },
    "url": "/cleartrial-ws/serviceProviders/10301"
  },
  ...
  {
    "id": 11701,
    "name": "Test 19-Jan-17 1",
    "description": "Test 19-Jan-17 1 description",
    "createdBy": "User, Test",
    "createdDate": "19-Jan-2017 05:59:58 CST",
    "lastModifiedBy": "User, Test",
    "lastModifiedDate": "19-Jan-2017 05:59:58 CST",
    "providerType": {
      "id": 3,
      "name": "Contract Research Organization",
      "code": "CRO"
    },
    "billingRatesCurrency": {
      "id": 840,
      "name": "US Dollar",
      "code": "USD"
    },
    "billingRateLocation": {
      "id": 100,
      "name": "USA",
      "code": "US",
      "description": "USA"
    },
    "url": "/cleartrial-ws/serviceProviders/11701"
  }
],
"url": "/cleartrial-ws/serviceProviders"
}
```

Sub-Resources: None

Get Service Provider By ID

Returns a set of existing service providers including the composite/built-in providers.

Method: GET

URL: /cleartrial-ws/serviceProviders/<serviceProviderId>

Sample output in XML:

```
<serviceProvider>
  <id>19003</id>
  <name>!! 1</name>
  <description>test1sdfsdf</description>
  <createdBy>1, VL</createdBy>
  <createdDate>27-Dec-2011 06:05:38 CST</createdDate>
  <lastModifiedBy>Baral, Pragyan</lastModifiedBy>
  <lastModifiedDate>24-Jun-2013 06:58:39 CDT</lastModifiedDate>
  <providerType>
    <id>3</id>
    <name>Contract Research Organization</name>
    <code>CRO</code>
  </providerType>
  <billingRatesCurrency>
    <id>840</id>
    <name>US Dollar</name>
    <code>USD</code>
  </billingRatesCurrency>
  <billingRateLocation>
    <id>100</id>
    <name>USA</name>
    <code>US</code>
    <description>USA</description>
  </billingRateLocation>
  <url>/cleartrial-ws/serviceProviders/19003</url>
</serviceProvider>
```

Sub-Resources: None

Put Service Provider

Creates a new service provider in ClearTrial. This operation requires the following information about the new service provider:

- Unique name (Required)
- Description
- Billing rate currency ID (Required)
- Back-office billing rate location ID (Required)
- Provider type ID (Required)

The following provider type IDs are available:

Table 9–1 Provider Type IDs

Provider Type	ID	Who Can Create
Sponsor	2	CROs
CRO	3	CROs and sponsors

Method: PUT

URL: /cleartrial-ws/serviceProviders

Sample input in JSON:

```
{
  "serviceProvider": {
    "name": "Sample service provider",
    "providerTypeId": "3",
    "description": "Sample description",
    "billingRatesCurrencyId": "840",
    "billingRateLocationId": "100"
  }
}
```

Upon successful execution of the request, the server returns an HTTP 200 code and information about the newly created service provider as shown below.

```
{
  "serviceProvider": {
    "id": 31205,
    "name": "Sample service provider",
    "description": "Sample description",
    "createdDate": "05-Jun-2017 11:47:43 CDT",
    "lastModifiedDate": "05-Jun-2017 11:47:43 CDT",
    "providerType": {
      "id": 3,
      "name": "Contract Research Organization",
      "code": "CRO"
    },
    "billingRatesCurrency": {
      "id": 840,
      "name": "US Dollar",
      "code": "USD"
    },
    "billingRateLocation": {
      "id": 100,
      "name": "USA",
      "code": "US",
      "description": "USA"
    },
    "url": "/cleartrial-ws/serviceProviders/31205"
  }
}
```

If an error occurs during the request, the server returns an appropriate HTTP code and some information about the error.

For example, if there are validation errors in the data provided via the PUT request, the HTTP response code 400 is returned along with the following message:

```
{
  "error": {
    "errorCode": "Bad Request",
    "message": "The following validation errors occurred: [ billingRateLocationId may not be null ] [ billingRatesCurrencyId may not be null ] [ name is either missing or not a legal name ] [ providerTypeId may not be null ] "
  }
}
```

ID Tables

Included below are tables containing the currency IDs and billing rate location IDs.

Table 9–2 *Currency IDs*

ID	CODE	Name
971	AFN	Afghani
12	DZD	Algerian Dinar
32	ARS	Argentine Peso
51	AMD	Armenian Dram
533	AWG	Aruban Guilder
36	AUD	Australian Dollar
944	AZN	Azerbaijani Manat
44	BSD	Bahamian Dollar
48	BHD	Bahraini Dinar
764	THB	Baht
590	PAB	Balboa
52	BBD	Barbados Dollar
974	BYR	Belarussian Ruble
84	BZD	Belize Dollar
60	BMD	Bermuda Dollar
862	VEB	Bolivar
68	BOB	Boliviano
986	BRL	Brazilian Real
96	BND	Brunei Dollar
975	BGN	Bulgarian Lev
108	BIF	Burundi Franc
124	CAD	Canadian Dollar
132	CVE	Cape Verde Escudo
136	KYD	Cayman Islands Dollar
288	GHC	Cedi
952	XOF	CFA Franc BCEAO
950	XAF	CFA Franc BEAC
953	XPF	CFP Franc
152	CLP	Chilean Peso
170	COP	Colombian Peso
174	KMF	Comoro Franc
977	BAM	Convertible Marks
558	NIO	Cordoba Oro
188	CRC	Costa Rican Colon

Table 9–2 (Cont.) Currency IDs

ID	CODE	Name
191	HRK	Croatian Kuna
192	CUP	Cuban Peso
196	CYP	Cyprus Pound
203	CZK	Czech Koruna
270	GMD	Dalasi
208	DKK	Danish Krone
807	MKD	Denar
262	DJF	Djibouti Franc
678	STD	Dobra
214	DOP	Dominican Peso
704	VND	Dong
951	XCD	East Caribbean Dollar
818	EGP	Egyptian Pound
222	SVC	El Salvador Colon
230	ETB	Ethiopian Birr
978	EUR	Euro
238	FKP	Falkland Islands Pound
242	FJD	Fiji Dollar
348	HUF	Forint
976	CDF	Franc Congolais
292	GIP	Gibraltar Pound
332	HTG	Gourde
600	PYG	Guarani
324	GNF	Guinea Franc
624	GWP	Guinea-Bissau Peso
328	GYD	Guyana Dollar
344	HKD	Hong Kong Dollar
980	UAH	Hryvnia
352	ISK	Iceland Krona
356	INR	Indian Rupee
364	IRR	Iranian Rial
368	IQD	Iraqi Dinar
388	JMD	Jamaican Dollar
400	JOD	Jordanian Dinar
404	KES	Kenyan Shilling
598	PGK	Kina
418	LAK	Kip

Table 9–2 (Cont.) Currency IDs

ID	CODE	Name
233	EEK	Kroon
414	KWD	Kuwaiti Dinar
454	MWK	Kwacha
894	ZMK	Kwacha
973	AOA	Kwanza
104	MMK	Kyat
981	GEL	Lari
428	LVL	Latvian Lats
422	LBP	Lebanese Pound
8	ALL	Lek
340	HNL	Lempira
694	SLL	Leone
430	LRD	Liberian Dollar
434	LYD	Libyan Dinar
748	SZL	Lilangeni
440	LTL	Lithuanian Litas
426	LSL	Loti
969	MGA	Malagascy Ariary
458	MYR	Malaysian Ringgit
470	MTL	Maltese Lira
795	TMM	Manat
480	MUR	Mauritius Rupee
943	MZN	Metical
484	MXN	Mexican Peso
979	MXV	Mexican Unidad de Inversion (UID)
498	MDL	Moldovan Leu
504	MAD	Moroccan Dirham
984	BOV	Mvdol
566	NGN	Naira
232	ERN	Nakfa
516	NAD	Namibian Dollar
524	NPR	Nepalese Rupee
532	ANG	Netherlands Antillian Guikder
376	ILS	New Israeli Sheqel
946	RON	New Leu
901	TWD	New Taiwan Dollar

Table 9–2 (Cont.) Currency IDs

ID	CODE	Name
949	TRY	New Turkish Lira
554	NZD	New Zealand Dollar
64	BTN	Ngultrum
408	KPW	North Korean Won
578	NOK	Norwegian Krone
604	PEN	Nuevo Sol
642	ROL	Old Leu
478	MRO	Ouguiya
776	TOP	Pa'anga
586	PKR	Pakistan Rupee
446	MOP	Pataca
858	UYU	Peso Uruguayo
608	PHP	Philippine Peso
826	GBP	Pound Sterling
72	BWP	Pula
634	QAR	Qatari Rial
320	GTQ	Quetzal
710	ZAR	Rand
512	OMR	Rial Omani
116	KHR	Riel
462	MVR	Rufiyaa
360	IDR	Rupiah
643	RUB	Russian Ruble
646	RWF	Rwanda Franc
654	SHP	Saint Helena Pound
682	SAR	Saudi Riyal
960	XDR	SDR
891	RSD	Serbian Dinar
690	SCR	Seychelles Rupee
702	SGD	Singapore Dollar
703	SKK	Slovak Koruna
90	SBD	Solomon Islands Dollar
417	KGS	Som
706	SOS	Somali Shilling
972	TJS	Somoni
144	LKR	Sri Lanka Rupee
736	SDD	Sudanese Dinar

Table 9–2 (Cont.) Currency IDs

ID	CODE	Name
968	SRD	Surinam Dollar
752	SEK	Swedish Krona
756	CHF	Swiss Franc
760	SYR	Syrian Pound
50	BDT	Taka
882	WST	Tala
834	TZS	Tanzanian Shilling
398	KZT	Tenge
705	SIT	Tolar
780	TTD	Trinidad and Tobago Dollar
496	MNT	Tugrik
788	TND	Tunisian Dinar
784	AED	UAE Dirham
800	UGX	Uganda Shilling
970	COU	Unidad de Valor Real
990	CLF	Unidades de formento
840	USD	US Dollar
860	UZS	Uzbekistan Sum
548	VUV	Vatu
947	CHE	WIR Euro
948	CHW	WIR Franc
410	KRW	Won
886	YER	Yemeni Rial
392	JPY	Yen
156	CNY	Yuan Renminbi
716	ZWD	Zimbabwe Dollar
985	PLN	Zloty
1001	ECS	Ecuador Sucre
1002	UYU	Uruguayan Peso

Table 9–3 Billing Rate Location IDs

ID	Name	Code	ISO_CODE_3	ISO_CODE_NUM	Description
1	USA, Canada, Australia/New Zealand	NA01	NA	NA	NA

Table 9–3 (Cont.) Billing Rate Location IDs

ID	Name	Code	ISO_CODE_3	ISO_CODE_NUM	Description
2	Western Europe & Japan	WE02	NA	NA	NA
3	Eastern Europe	EE03	NA	NA	NA
4	Nordic Countries	NC04	NA	NA	NA
5	Latin America	LA05	NA	NA	NA
6	Asia	AP06	NA	NA	NA
7	Other	ZZ07	NA	NA	NA
8	Middle East	ME08	NA	NA	NA
100	USA	US	USA	840	USA
101	Canada	CA	CAN	124	Canada
103	Austria	AT	AUT	40	Austria
104	Belgium	BE	BEL	56	Belgium
106	France	FR	FRA	250	France
107	Germany	DE	DEU	276	Germany
108	Greece	GR	GRC	300	Greece
109	Hungary	HU	HUN	348	Hungary
110	Ireland	IE	IRL	372	Ireland
111	Israel	IL	ISR	376	Israel
112	Italy	IT	ITA	380	Italy
113	Luxembourg	LU	LUX	442	Luxembourg
114	Poland	PL	POL	616	Poland
115	Portugal	PT	PRT	620	Portugal
116	South Africa	ZA	ZAF	710	South Africa
117	Spain	ES	ESP	724	Spain
118	Switzerland	CH	CHE	756	Switzerland
121	The Netherlands	NL	NLD	528	The Netherlands
122	UK	GB	GBR	826	UK
123	Japan	JP	JPN	392	Japan
124	Belarus	BY	BLR	112	Belarus
125	Bulgaria	BG	BGR	100	Bulgaria
126	Croatia	HR	HRV	191	Croatia
127	Czech Rep	CZ	CZE	203	Czech Rep
128	Estonia	EE	EST	233	Estonia
129	Georgia	GE	GEO	268	Georgia

Table 9–3 (Cont.) Billing Rate Location IDs

ID	Name	Code	ISO_CODE_ 3	ISO_CODE_ NUM	Description
130	Latvia	LV	LVA	428	Latvia
131	Lithuania	LT	LTU	440	Lithuania
132	Romania	RO	ROU	642	Romania
133	Russia	RU	RUS	643	Russia
134	Slovenia	SI	SVN	705	Slovenia
135	Ukraine	UA	UKR	804	Ukraine
137	Denmark	DK	DNK	208	Denmark
138	Finland	FI	FIN	246	Finland
139	Norway	NO	NOR	578	Norway
140	Sweden	SE	SWE	752	Sweden
141	Argentina	AR	ARG	32	Argentina
142	Brazil	BR	BRA	76	Brazil
143	Chile	CL	CHL	152	Chile
144	Colombia	CO	COL	170	Colombia
145	Costa Rica	CR	CRI	188	Costa Rica
146	Dominican Republic	DO	DOM	214	Dominican Republic
147	El Salvador	SV	SLV	222	El Salvador
148	Ecuador	EC	ECU	218	Ecuador
149	Guatemala	GT	GTM	320	Guatemala
150	Honduras	HN	HND	340	Honduras
151	Mexico	MX	MEX	484	Mexico
152	Panama	PA	PAN	591	Panama
153	Paraguay	PY	PRY	600	Paraguay
154	Peru	PE	PER	604	Peru
155	Uruguay	UY	URY	858	Uruguay
156	Venezuela	VE	VEN	862	Venezuela
157	Australia	AU	AUS	36	Australia
158	New Zealand	NZ	NZL	554	New Zealand
159	Hong Kong	HK	HKG	344	Hong Kong
160	Indonesia	ID	IDN	360	Indonesia
161	Korea	KR	KOR	410	Republic of [South] Korea
162	Malaysia	MY	MYS	458	Malaysia
163	Philippines	PH	PHL	608	Philippines
164	Singapore	SG	SGP	702	Singapore
165	Taiwan	TW	TWN	158	Taiwan

Table 9–3 (Cont.) Billing Rate Location IDs

ID	Name	Code	ISO_CODE_3	ISO_CODE_NUM	Description
166	Egypt	EG	EGY	818	Egypt
167	India	IN	IND	356	India
168	Malawi	MW	MWI	454	Malawi
169	Morocco	MA	MAR	504	Morocco
170	Pakistan	PK	PAK	586	Pakistan
171	Turkey	TR	TUR	792	Turkey
172	Iceland	IS	ISL	352	Iceland
173	China	CN	CHN	156	China
174	Albania	AL	ALB	8	Albania
175	Armenia	AM	ARM	51	Armenia
176	Bosnia	BA	BIH	70	Bosnia
177	Macedonia	MK	MKD	807	Macedonia
178	Moldova	MD	MDA	498	Moldova
179	Montenegro	ME	MNE	499	Montenegro
180	Serbia	RS	SRB	688	Serbia
181	Slovakia	SK	SVK	703	Slovakia
182	Thailand	TH	THA	764	183
183	Nigeria	NG	NGA	566	Nigeria
184	Tunisia	TN	TUN	788	Tunisia
185	Jordan	JO	JOR	400	Jordan
186	Kuwait	KW	KWT	414	Kuwait
187	Saudi Arabia	SA	SAU	682	Saudi Arabia
188	Syria	SY	SYR	760	Syria
189	Vietnam	VN	VNM	704	Vietnam
190	Cuba	CU	CUB	192	Cuba
191	Cyprus	CY	CYP	196	Cyprus
192	Liechtenstein	LI	LIE	438	Liechtenstein
193	Nicaragua	NI	NIC	558	Nicaragua
194	Puerto Rico	PR	PRI	630	Puerto Rico

RFP Resource API and Bid Resource API

The ClearTrial Web Service RFP Resource API returns information about RFPs stored in the ClearTrial application. The ClearTrial Web Service Bid Resource API returns information about bids stored in the ClearTrial application.

Get RFPs

Gets the first 25 complete RFPs accessible to the current user for a given customer ID, ordered by plan and study name. Using the pagination options, the user can get subsequent pages.

Method: GET

URL: /cleartrial-ws/rfps

Sample output in JSON:

```
{
  "rfps": {
    "rfp": [
      {
        "id": 10129,
        "study": "24660",
        "currency": "USD",
        "shortDescription": "dsafgfdsg",
        "createdBy": "France, Michelle",
        "createdDate": "13-Apr-2015",
        "lastModifiedBy": "France, Michelle",
        "lastModifiedDate": "13-Apr-2015",
        "laborUrl": "/cleartrial-ws/rfps/10129/labor",
        "costUrl": "/cleartrial-ws/rfps/10129/cost",
        "bidsUrl": "/cleartrial-ws/rfps/10129/bids",
        "planUrl": "/cleartrial-ws/plans/32610",
        "serviceProviderUrl":
"/cleartrial-ws/plans/32610/serviceProvider/12401"
      },
      {
        "id": 10123,
        "study": "!! 10181-1",
        "currency": "USD",
        "shortDescription": "sfdddddddddddddd",
        "bidGridTitle": "sdfsdfsdfsdfsdfsdfsdfsdfsdfsdfsdf",
        "comments": "sdfffffffffffffffffff",
        "createdBy": "Administrator, QA",
        "createdDate": "13-Apr-2015",
        "lastModifiedBy": "Administrator, QA",
        "lastModifiedDate": "13-Apr-2015",

```

```
        "laborUrl": "/cleartrial-ws/rfps/10123/labor",
        "costUrl": "/cleartrial-ws/rfps/10123/cost",
        "bidsUrl": "/cleartrial-ws/rfps/10123/bids",
        "planUrl": "/cleartrial-ws/plans/54173",
        "serviceProviderUrl":
"/cleartrial-ws/plans/54173/serviceProvider/19003"
    }, . . .
    ... ]
    }
}
```

Sample output in XML:

```
<rfps>
<rfp>
<id>10000</id>
<study>Simple Study</study>
<currency>USD</currency>
<shortDescription>short description</shortDescription>
<bidGridTitle>Sample RFP</bidGridTitle>
<comments>This is a Sample RFP</comments>
<createdBy>administrator</createdBy>
<createdDate>04-Mar-2015</createdDate>
<lastModifiedBy>administrator</lastModifiedBy>
<lastModifiedDate>04-Mar-2015</lastModifiedDate>
<laborUrl>/cleartrial-ws/rfps/10000/labor</laborUrl>
<costUrl>/cleartrial-ws/rfps/10000/cost</costUrl>
<bidsUrl>/cleartrial-ws/rfps/10000/bids</bidsUrl>
<planUrl>/cleartrial-ws/plans/12345</planUrl>
<serviceProviderUrl>/cleartrial-ws/plans/12345/serviceProvider/6789</serviceProvid
erUrl>
</rfp>
<rfp>
...
</rfp>
...
</rfps>
```

Sub-Resources: None

Note: In Phase I Healthy Volunteers studies, the Subject Enrollment Schedule sub-resource URL does not appear in the values returned by the Get RFPs API.

Get RFP

Obtains the representation for a specific RFP. This provides an overview of an RFP that was created.

Method: GET

URL: /cleartrial-ws/rfps/<rfpId>

Sample output in JSON:

```
{
  "rfp": {
    "id": 10129,
    "study": "24660",
```



```

    "currency": "USD",
    "shortDescription": "dsafgfdsg",
    "createdBy": "France, Michelle",
    "createdDate": "13-Apr-2015",
    "lastModifiedBy": "France, Michelle",
    "lastModifiedDate": "13-Apr-2015",
    "laborUrl": "/cleartrial-ws/rfps/10129/labor",
    "costUrl": "/cleartrial-ws/rfps/10129/cost",
    "bidsUrl": "/cleartrial-ws/rfps/10129/bids",
    "planUrl": "/cleartrial-ws/plans/32610",
    "serviceProviderUrl": "/cleartrial-ws/plans/32610/serviceProvider/12401"
  }
}

```

Sample output in XML:

```

<rfp>
  <id>10000</id>
  <study>Simple Study</study>
  <currency>USD</currency>
  <shortDescription>short description</shortDescription>
  <bidGridTitle>Sample RFP</bidGridTitle>
  <comments>This is a Sample RFP</comments>
  <createdBy>administrator</createdBy>
  <createdDate>04-Mar-2015</createdDate>
  <lastModifiedBy>administrator</lastModifiedBy>
  <lastModifiedDate>04-Mar-2015</lastModifiedDate>
  <laborUrl>/cleartrial-ws/rfps/10000/labor</laborUrl>
  <costUrl>/cleartrial-ws/rfps/10000/cost</costUrl>
  <bidsUrl>/cleartrial-ws/rfps/10000/bids</bidsUrl>
  <planUrl>/cleartrial-ws/plans/12345</planUrl>

  <serviceProviderUrl>/cleartrial-ws/plans/12345/serviceProvider/6789</serviceProviderUrl>
</rfp>

```

Sub-Resources:

- Labor
- Cost

Note: In Phase I Healthy Volunteers studies, the following field does not appear in the Get Plan API: Subject Enrollment Schedule.

Get Labor

Shows the breakdown of labor by major task, task, location, and resources.

Method: GET

URL: /cleartrial-ws/rfps/{rfpID}/labor

Sample output in XML:

```

<rfp>
  <id>10000</id>
  <currency>USD</currency>
  <location>
    <locationId>100</locationId>

```

```
<locationName>USA</locationName>
<majorTask>
<id>2</id>
<name>Project Initiated</name>
<unitOfMeasure>Study</unitOfMeasure>
<task>
<id>2</id>
<name>Develop scope of work, timeline, work assignments</name>
<resource>
<name>Senior Clinical Researcher Associate</name>
<code>CR02</code>
<mappingKey>000-002-002</mappingKey>
<billingRate>143.13</billingRate>
<inflatedBillingRate>143.13</inflatedBillingRate>>
<numUnits>1.0</numUnits>
<unitCost>286.26</unitCost>
<unitHours>2.0</unitHours>
<totalCost>286.26</cost>
<totalHours>2.0</hours>
</resource>
<resource>
....
</resource>
....
</task>
<task>

....
</task>
....
</majorTask>
<majorTask>
...
</majorTask>
...
</location>
<location>
....
</location>
<url>/cleartrial-ws/rfps/10000/labor</url>
</rfp>
```

Get Cost

Shows the breakdown of labor by major task, task, location, and resources.

Method: GET

URL: /cleartrial-ws/rfps/{rfpID}/cost

Sample output in XML:

```
<rfp>
<rfpId>1</rfpId>
<currency>INR</currency>
<location>
<locationId>3</locationId>
<locationName>India</locationName>
<cost>
```

```
<id>2</id>
<name>TestMiscCost</name>
<mappingKey>TR-01010-01010</mappingKey>
    <wbsModelId>1</wbsModelId>
    <workUnitId>1</workUnitId>
    <locationScoped>true</locationScoped>
    <credit>false</credit>
    <includeInflation>true</includeInflation>
    <numUnits>3</numUnits>
    <totalCost>4500.0</totalCost>
    <inflatedTotalCost>4500.0</inflatedTotalCost>
</cost>
<cost>
...
</cost>
...
</location>
<location>
...
</location>
...
    <url>/cleartrial-ws/rfps/1/cost</url>
</rfp>
```

Portfolio Resource API

This ClearTrial Web Services API returns information about portfolio resources from ClearTrial applications.

Get Portfolios

Lists all the portfolios accessible to the current user for a given customer ID.

Method: GET

URL: /cleartrial-ws/portfolios

Sample output in JSON:

```
{
  "List": [
    {
      "id": 10201,
      "name": "Sample Portfolio 1",
      "code": "Sample Portfolio 1 short description",
      "description": "Sample Portfolio 1 long description",
      "createdBy": "administrator",
      "createdDate": "02-May-2011",
      "lastModifiedBy": "administrator",
      "lastModifiedDate": "02-May-2011",
      "plan": [
        {
          "id": 12001,
          "url": "/cleartrial-ws/plans/12001"
        },
        ...
      ],
      "url": "/cleartrial-ws/portfolios/10201"
    },
    {
      "id": 10202,
      "name": "Sample Portfolio 2",
      ...
    },
    ...
  ]
}
```

Sub-Resources: None

Get Portfolio

Obtains the representation for a specified portfolio.

Method: GET

URL: /cleartrial-ws/portfolios/{portfolioID}

Sample output in JSON:

```
{
  "List": {
    "id": 10201,
    "name": "Sample Portfolio 1",
    "code": "Sample Portfolio 1 short description",
    "description": "Sample Portfolio 1 long description",
    "createdBy": "administrator",
    "createdDate": "02-May-2011",
    "lastModifiedBy": "administrator",
    "lastModifiedDate": "02-May-2011",
    "plan": [
      {
        "id": 12001,
        "url": "/cleartrial-ws/plans/12001"
      },
      {
        ...
        ...
      }
      ...
      ...
    ],
    "url": "/cleartrial-ws/portfolios/10201"
  }
}
```

Sub-Resources: None