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**Rindap**  
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## Contents:

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|          |                               |            |
|----------|-------------------------------|------------|
| <b>1</b> | <b>Introduction</b>           | <b>1</b>   |
| <b>2</b> | <b>Authentication</b>         | <b>3</b>   |
| 2.1      | Workspaces . . . . .          | 3          |
| 2.2      | Workflows . . . . .           | 16         |
| 2.3      | Workers . . . . .             | 33         |
| 2.4      | Tasks . . . . .               | 46         |
| 2.5      | Rate Limit Profiles . . . . . | 60         |
| 2.6      | Task Queues . . . . .         | 72         |
| 2.7      | Reservations . . . . .        | 85         |
|          | <b>HTTP Routing Table</b>     | <b>105</b> |



# CHAPTER 1

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## Introduction

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Welcome to the Rindap API documentation! Rindap helps companies to increase their work efficiency by offering developers a low-code BPM platform with RESTful API in order to automate business processes based on the requirements set by the management.

The reason Rindap was developed was the reason to help developers manage to automate business processes by using APIs without the need for high-cost out-of-the-box programs or complex custom developments.

Developers and business analysts can cooperate to automate business processes on Rindap with ease. Developers can design workflows via a user-friendly drag&drop visual modeller, easily set business rules by filters that use visual code blocks and utilize Rindap's RESTful API to connect to any platform, device or system without any boundaries.

By using Rindap's RESTful API you can achieve end-to-end digital process automation across people, platforms and devices without being limited by company or department data silos. Rindap is fully compatible with any legacy software and can be used without any problems across the entire enterprise technology stack.

You can use our API documentation to get familiarized with Rindap API endpoints, which can be related to Tasks, Workspaces, Workflows, Workers and etc.



## CHAPTER 2

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### Authentication

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Rindap uses API keys to allow access to the API. You can register a new Rindap API key at our developer portal.

Rindap expects for the API key to be included in all API requests to the server in a header that looks like the following:

```
Authorization:Bearer [Account SID].[Auth token]
```

---

**Note:** You must replace [**Account SID**] and [**Auth token**] with your personal API credentials found on rindap.com developer console.

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### 2.1 Workspaces

Rindap (Process) Workspace is a customizable place enabling you to create your Tasks, Workers, TaskQueues and Workflows elements in it to access and manage your business processes. The elements defined in one Workspace are specific to it and cannot be shared with other Workspace.

Various tasks with different attributes, specific and modifiable workflow, various skilled workers can be defined in one Workspace to orchestrate your business processes efficiently in the lowest time. Business Process Workspace helps organizations to improve their internal processes management by providing a single container to manage, control and monitor the whole elements needed in one place. With Rindap, managing the inner operational processes of a company in a purpose-built Workspace and defining your strategies and policies for the company in a single Workspace can be done.

## 2.1.1 Workspace Properties

Table 1: Properties

| field                        | description  |
|------------------------------|--|
| <b>sid</b>                   | The unique string that we created to identify the Workspace resource.  |
| <b>account_sid</b>           | The SID of the Account that created the Workspace resource.  |
| <b>friendly_name</b>         | The string that you assigned to describe the resource.   |
| <b>event_callback_url</b>    | The URL we call when an event occurs. If provided, the Workspace will publish events to this URL, for example, to collect data for reporting. See Workspace Events for more information. |
| <b>event_callback_method</b> | The HTTP Request Method for calling the EventCallbackUrl   |
| <b>default_activity</b>      | The Activity that will be used when new Workers are created in the Workspace.  |
| <b>timeout_activity</b>      | The Activity that will be assigned to a Worker when a Task reservation times out without a response  |
| <b>date_created</b>          | The date and time in GMT when the resource was created, specified in ISO 8601 format.  |
| <b>date_updated</b>          | The date and time in GMT when the resource was last updated, specified in ISO 8601 format.   |
| <b>url</b>                   | The absolute URL of the resource   |
| <b>links</b>                 | The URLs of related resources.   |

## 2.1.2 Create A Workspace

**POST /v1/rindap-rest-gw/Workspaces/**

You can create a Workspace by simply providing a friendly name

Table 2: Query Parameters

| Parameter                  | Type   | Default | Description   |
|----------------------------|--------|---------|---|
| <b>FriendlyName</b>        | String | ""      | A descriptive string that you create to describe the Workspace resource. It can be up to 512 characters long  |
| <b>EventCallbackUrl</b>    | URL    | ""      | (Optional) The URL we call when an event occurs. If provided, the Workspace will publish events to this URL, for example, to collect data for reporting. See Workspace Events for more information. |
| <b>EventCallbackMethod</b> | String | POST    | (Optional) The HTTP Request Method for calling the EventCallbackUrl   |
| <b>DefaultActivity</b>     | String | offline | (Optional) The Activity that will be used when new Workers are created in the Workspace.  |
| <b>TimeoutActivity</b>     | String | offline | (Optional) The Activity that will be assigned to a Worker when a Task reservation times out without a response  |

### Example code pieces using SDKs

#### Shell

```
curl -X POST https://api.rindap.com/v1/rindap-rest-gw/Workspaces \
--data-urlencode 'FriendlyName=my test workspace' \
--data-urlencode 'EventCallbackUrl=https://my-backbone.mydomain.org' \
--data-urlencode 'EventCallMethod=GET' \
```

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```
--data-urlencode 'DefaultActivity=busy' \
--data-urlencode 'TimeoutActivity=offline'
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"
```

## Java

```
// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.Task;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        Workspace ws = Workspace.creator("my test workspace")
            .setEventCallbackUrl("https://my-backbone.mydomain.org")
            .setEventCallbackMethod(HttpMethod.GET)
            .setDefaultActivity("busy")
            .setTimeoutActivity("idle")
            .create();

        System.out.println(ws);
    }
}
```

## Phyton

```
from rindap.rest import Client
from rindap.rest import Rindap

client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

ws = rindap.workspaces.create("my test workspace",
                             event_callback_url="https://my-backbone.mydomain.org",
                             event_callback_method="GET",
                             default_activity="busy",
                             timeout_activity="idle")

print("FriendlyName: {}".format(ws.friendly_name))
```

## JS

```
var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Create a workspace
rindap.workspaces.create({
  friendlyName: "Friendly Name",
  eventCallbackUrl: "https://my-backbone.mydomain.org",
```

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```

eventCallbackMethod: "GET",
defaultActivity: "busy",
timeoutActivity: "idle"
}, function(err, workspace) {
// Print workspace content
console.log('Workspace Created');
console.log(workspace.sid);
console.log(workspace.friendlyName);
console.log(workspace.eventCallbackUrl);
console.log(workspace.eventCallbackMethod);
console.log(workspace.defaultActivity);
console.log(workspace.timeoutActivity);
});

```

### CSharp

```

using System;
using Rindap;
using Rindap.Rest.V1;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Create a workspace
        WorkspaceResource ws = WorkspaceResource.Create(
            friendlyName: "Very Friendly Name From C#",
            eventCallbackUrl: new Uri("https://my-backbone.mydomain.org"),
            eventCallbackMethod: "GET",
            defaultActivity: "busy",
            timeoutActivity: "offline"
        );

        Console.WriteLine("Workspace Friendly Name      : " + ws.FriendlyName);
        Console.WriteLine("Workspace Sid          : " + ws.Sid);
        Console.WriteLine("Workspace Default Activity : " + ws.DefaultActivity);
        Console.WriteLine("Workspace Timeout Activity : " + ws.TimeoutActivity);
        Console.WriteLine("Workspace Event Calllback Url : " + ws.EventCallbackUrl);
        Console.WriteLine("Workspace Event callback Method: " + ws.
↪EventCallbackMethod);
    }
}

```

The above command returns JSON structured like this:

```

{
  "sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "friendly_name": "my test workspace",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "default_activity": "busy",
  "timeout_activity": "idle",
  "date_created": "2020-05-04T01:36:02+03:00",
  "date_updated": "2020-05-04T01:36:02+03:00",
  "event_callback_url": "https:my-backbone.mydomain.org",

```

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```

    "event_callback_method": "GET",
    "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "links": {
        "tasks": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Tasks",
        "workers": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers",
        "workflows": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workflows",
        "task_queues": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/TaskQueues"
    }
}

```

### 2.1.3 Get All Workspaces

This endpoint retrieves all Workspaces

Table 3: Query Parameters

| Parameter    | Type    | Default | Description                  |
|--------------|---------|---------|------------------------------|
| FriendlyName | String  | ""      | Human readable friendly name |
| PageSize     | Integer | 50      | Page size for paging         |
| FriendlyName | Integer | 0       | Page number for paging       |

### Example code pieces using SDKs

#### CSharp

```

using System;
using Rindap;
using Rindap.Rest.V1;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Fetch all workspaces
        var workspaces = WorkspaceResource.Read(limit: 100, pageSize: 100);

        // Iterate all workspaces
        foreach (var ws in workspaces)
        {
            // Print workspace content
            Console.WriteLine("Workspace Friendly Name      : " + ws.FriendlyName);
            Console.WriteLine("Workspace Sid      : " + ws.Sid);
            Console.WriteLine("Workspace Default Activity      : " + ws.
↪DefaultActivity);
            Console.WriteLine("Workspace Timeout Activity      : " + ws.
↪TimeoutActivity);
        }
    }
}

```

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```
        Console.WriteLine("Workspace Event Calllback Url  : " + ws.
↪EventCallbackUrl);
        Console.WriteLine("Workspace Event callback Method: " + ws.
↪EventCallbackMethod);
    }
}
}
```

### Phyton

```
from rindap.rest import Client
from rindap.rest import Rindap

client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

lists = rindap.workspaces.list(friendly_name=None, limit=10, page_size=5)
workspace = lists.pop()
print(workspace.friendly_name)
```

### JS

```
var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Get all workspaces
rindap.workspaces.list({
  limit: 100,
  page_size: 100
}, function(err, result) {
  result.forEach(function(workspace) {

    console.log(workspace.sid);
    console.log(workspace.friendlyName);
    console.log(workspace.eventCallbackUrl);
    console.log(workspace.eventCallbackMethod);
    console.log(workspace.defaultActivity);
    console.log(workspace.timeoutActivity);
  });
});
```

The above command returns JSON structured like this:

```
{
  "meta": {
    "page_size": 50,
    "page": 0,
    "first_page_url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/?Page=0&
↪PageSize=50",
    "previous_page_url": null,
    "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/?Page=0&PageSize=50",
    "key": "workspaces",
    "next_page_url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/?Page=1&
↪PageSize=50"
  },
}
```

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```

"workspaces": [
  {
    "sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "friendly_name": "my test workspace",
    "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "default_activity": "busy",
    "timeout_activity": "idle",
    "date_created": "2020-05-04T01:36:02+03:00",
    "date_updated": "2020-05-04T01:36:02+03:00",
    "event_callback_url": "https://my-backbone.mydomain.org",
    "event_callback_method": "GET",
    "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "links": {
      "tasks": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Tasks",
      "workers": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers",
      "workflows": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workflows",
      "task_queues": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/TaskQueues"
    }
  }
]
}

```

## 2.1.4 Fetch A Workspace

This endpoint fetches a single Workspace with all its details

**GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}**

Table 4: Query Parameters

| Parameter           | Type   | Default | Description              |
|---------------------|--------|---------|--------------------------|
| <b>WorkspaceSID</b> | String | ""      | The SID of the Workspace |

### Example code pieces using SDKs

#### Shell

```

curl -X GET https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"

```

#### Java

```

// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.Task;

```

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```

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        Workspace ws = Workspace.fetcher("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
            .fetch();

        System.out.println(ws);
    }
}

```

### Phyton

```

from rindap.rest import Client
from rindap.rest import Rindap

client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

ws_fetcher = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
workspace = ws_fetcher.fetch()
print(workspace.friendly_name)

```

### JS

```

var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Get a workspaces with SID
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxx').fetch(
function(err, workspace) {
    console.log(err);
    console.log(workspace.sid);
    console.log(workspace.friendlyName);
    console.log(workspace.eventCallbackUrl);
    console.log(workspace.eventCallbackMethod);
    console.log(workspace.defaultActivity);
    console.log(workspace.timeoutActivity);
});

```

### CSharp

```

using System;
using Rindap;
using Rindap.Rest.V1;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate

```

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```

RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Get a workspace with SID
var ws = WorkspaceResource.Fetch(
    pathSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
);

// Print workspace content
Console.WriteLine("Workspace Friendly Name      : " + ws.FriendlyName);
Console.WriteLine("Workspace Sid              : " + ws.Sid);
Console.WriteLine("Workspace Default Activity    : " + ws.DefaultActivity);
Console.WriteLine("Workspace Timeout Activity    : " + ws.TimeoutActivity);
Console.WriteLine("Workspace Event Calllback Url  : " + ws.EventCallbackUrl);
Console.WriteLine("Workspace Event callback Method: " + ws.
↪EventCallbackMethod);
    }
}

```

The above command returns JSON structured like this:

```

{
  "sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "friendly_name": "my test workspace",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "default_activity": "busy",
  "timeout_activity": "idle",
  "date_created": "2020-05-04T01:36:02+03:00",
  "date_updated": "2020-05-04T01:36:02+03:00",
  "event_callback_url": "https://my-backbone.mydomain.org",
  "event_callback_method": "GET",
  "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "links": {
    "tasks": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Tasks",
    "workers": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers",
    "workflows": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workflows",
    "task_queues": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/TaskQueues"
  }
}

```

### 2.1.5 Update a Workspace

**PUT /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}**

Table 5: Query Parameters

| Parameter                  | Type   | Default | Description   |
|----------------------------|--------|---------|---|
| <b>WorkspaceSID</b>        | String | ""      | The SID of the Workspace  |
| <b>FriendlyName</b>        | String | ""      | (Optional) A descriptive string that you create to describe the Workspace resource. It can be up to 512 characters long   |
| <b>EventCallbackUrl</b>    | URL    | ""      | (Optional) The URL we call when an event occurs. If provided, the Workspace will publish events to this URL, for example, to collect data for reporting. See Workspace Events for more information. |
| <b>EventCallbackMethod</b> | String | POST    | (Optional) The HTTP Request Method for calling the EventCallbackUrl   |
| <b>DefaultActivity</b>     | String | ""      | (Optional) The Activity that will be used when new Workers are created in the Workspace.  |
| <b>TimeoutActivity</b>     | String | ""      | (Optional) The Activity that will be assigned to a Worker when a Task reservation times out without a response  |

## Example code pieces using SDKs

### Shell

```
curl -X PUT https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
--data-urlencode 'FriendlyName=my test workspace updated' \
--data-urlencode 'EventCallbackUrl=https://my-backbone.my-new-domain.org' \
--data-urlencode 'EventCallMethod=POST' \
--data-urlencode 'DefaultActivity=idle' \
--data-urlencode 'TimeoutActivity=busy'
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"
```

### Java

```
// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.Task;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        Workspace ws = Workspace
            .updater("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
            .setFriendlyName("my test workspace updated")
            .setEventCallbackUrl("https://my-backbone.my-new-domain.org")
            .setEventCallbackMethod("POST")
            .setDefaultActivity("idle")
            .setTimeoutActivity("offline")
            .update();

        System.out.println(ws);
    }
}
```

## Phyton

```

from rindap.rest import Client
from rindap.rest import Rindap

client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

ws_fetcher = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
ws_fetcher.update(friendly_name="New Friendly Name", default_activity="offline",
                  timeout_activity="offline", event_callback_url="https://domain.com",
                  event_callback_method="POST")

```

## JS

```

var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Update a workspaces with SID
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx').update({
  friendlyName: "New Friendly Name",
  eventCallbackUrl: "https://my-backbone.mydomain.com",
  defaultActivity: "offline",
  timeoutActivity: "offline"
}, function(err, workspace) {
  console.log(workspace.sid);
  console.log(workspace.friendlyName);
  console.log(workspace.eventCallbackUrl);
  console.log(workspace.eventCallbackMethod);
  console.log(workspace.defaultActivity);
  console.log(workspace.timeoutActivity);
});

```

## CSharp

```

using System;
using System.ComponentModel.DataAnnotations;
using Rindap;
using Rindap.Rest.V1;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Update a workspace with SID
        var ws = WorkspaceResource.Update(
            pathSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            friendlyName: "New Workspace Name",
            eventCallbackUrl: new Uri("https://my-backbone.mydomain.com"),
            eventCallbackMethod: "POST",
            defaultActivity: "busy",
            timeoutActivity: "busy"
        );
    }
}

```

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```

// Print workspace content
Console.WriteLine("Workspace Friendly Name      : " + ws.FriendlyName);
Console.WriteLine("Workspace Sid                : " + ws.Sid);
Console.WriteLine("Workspace Default Activity    : " + ws.DefaultActivity);
Console.WriteLine("Workspace Timeout Activity    : " + ws.TimeoutActivity);
Console.WriteLine("Workspace Event Calllback Url  : " + ws.EventCallbackUrl);
Console.WriteLine("Workspace Event callback Method: " + ws.
↪EventCallbackMethod);
    }
}

```

The above command returns JSON structured like this:

```

{
  "sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "friendly_name": "my test workspace updated",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "default_activity": "idle",
  "timeout_activity": "offline",
  "date_created": "2020-05-04T01:36:02+03:00",
  "date_updated": "2020-05-04T01:36:02+03:00",
  "event_callback_url": "https://my-backbone.my-new-domain.org",
  "event_callback_method": "POST",
  "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "links": {
    "tasks": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Tasks",
    "workers": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers",
    "workflows": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workflows",
    "task_queues": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/TaskQueues"
  }
}

```

## 2.1.6 Delete a Workspace

**DELETE** /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}

Table 6: Query Parameters

| Parameter           | Type   | Default | Description              |
|---------------------|--------|---------|--------------------------|
| <b>WorkspaceSID</b> | String | ""      | The SID of the Workspace |

### Example code pieces using SDKs

#### Shell

```
curl -X DEL https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"
```

## Java

```
// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.Task;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        Workspace.deleter("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx").delete();
    }
}
```

## Phyton

```
from rindap.rest import Client
from rindap.rest import Rindap

client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

ww_fetcher = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
if ww_fetcher.delete():
    print("Workspaces have been deleted!")
```

## JS

```
var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Delete a workspaces with SID
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx').remove();
```

## CSharp

```
using System;
using System.ComponentModel.DataAnnotations;
using Rindap;
using Rindap.Rest.V1;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
```

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```
RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Delete a workspace with SID
var isDeleted = WorkspaceResource.Delete(
    pathSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
);

if (isDeleted)
{
    Console.WriteLine("Workspace has been deleted!");
}
}
```

## 2.2 Workflows

Workflows manage and control the distribution of tasks to workers based on [Workflows configurations](#) and capabilities of workers. Workflows configurations is the most important aspect of a workflow process which specifies the order in which tasks must be executed over time by simply described in JSON format and pair tasks into Queues. Each configuration includes a set of conditions which control and evaluate tasks attributes. The rules of condition were defined in JSONLogic format. Read more about [JSONLogic here](#) .

When a task is added to the workspace, its own workflow is executed in order to control the task to be channeled into proper Queues. The workflow managing process will continue until the task is either completed or cancelled. Afterwards, based on the evaluation process of Workflows configurations, a task is assigned to a TaskQueue. Workers listen to TaskQueues and reserve the task according to workers availability and capabilities. Assignment Callback mechanism will be enabled to execute the intended request. Workflow's Assignment Callback contains all the information necessary for the worker to perform the task (for example, emailing or texting the Worker or showing a Notification If your Worker is logged in some sort of portal or making an IVR call to your Worker and later updating the Task with the input from the call).

Main features of Workflow listed as following:

- **Condition:** Condition of each Workflow is defined in the filters field of Workflow Configuration. Condition determines whether Task execution happens or not.
- **Fork:** A Task can be triggered to fork out to create new Tasks for different Workflows, executed in parallel. Read more about use cases and details here at [Task Forking](#)
- **Redirected to:** A filter can redirect the flow of the Task to another Filter to run a different course , like a branch.
- **Looping Filter :** A looping filter that can be validated between time periods, till It turns true or It's validated enough

You can read about these features and more about [Workflows here](#) .

## 2.2.1 Workflow Properties

Table 7: Properties

| field                                   | description  |
|---|--|
| <b>sid</b>                              | The unique string that we created to identify the Workflow resource.   |
| <b>account_sid</b>                      | The SID of the Account that created the Workflow resource.   |
| <b>workspace_sid</b>                    | The SID of the Workspace that contains the Workflow  |
| <b>friendly_name</b>                    | The string that you assigned to describe the resource. Friendly names are case insensitive, and unique within the Rindap Workspace.  |
| <b>assignment_callback_url</b>          | The URL that we call when a task managed by the Workflow is assigned to a Worker.  |
| <b>fallback_assignment_callback_url</b> | The URL that we call when a call to the AssignmentCallbackUrl fails.   |
| <b>task_reservation_timeout</b>         | How long Rindap will wait for a confirmation response from your application after notifying the AssignmentCallbackUrl about the reservation. Can be up to 86,400 (24* hours) , minimum 5 , and the default is 86,400.. |
| <b>configuration</b>                    | A URL-encoded JSON string that contains the Workflow's configuration. See <a href="#">Configuring Workflows</a> for more information.  |
| <b>date_created</b>                     | The date and time in GMT when the resource was created, specified in ISO 8601 format.  |
| <b>date_updated</b>                     | The date and time in GMT when the resource was last updated, specified in ISO 8601 format.   |
| <b>url</b>                              | The absolute URL of the resource   |
| <b>links</b>                            | The URLs of related resources.   |

## 2.2.2 Create A Workflow

**POST /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workflows**

You can easily design and create your Workflow on our developer Portal with an intuitive drag&drop interface. For more information [Workflows](#)

Table 8: Query Parameters

| Parameter                            | Type    | Default | Description  |
|--------------------------------------|---------|---------|--|
| <b>WorkspaceSID</b>                  | String  | ""      | The SID of the Workspace in which the Task is created  |
| <b>FriendlyName</b>                  | String  | ""      | Human readable friendly name. It can be 512 characters long  |
| <b>AssignmentCallbackUrl</b>         | URL     | ""      | The URL that we call when a task managed by the Workflow is assigned to a Worker.  |
| <b>FallbackAssignmentCallbackUrl</b> | URL     | ""      | The URL that we call when a call to the assignment_callback_url fails.   |
| <b>Configuration</b>                 | String  | ""      | A URL-encoded JSON string that contains the Workflow's configuration. For more information , see <a href="#">Workflows</a> .                                     |
| <b>TaskReservationTimeout</b>        | Integer | 86400   | (optional) How long Rindap will wait for a confirmation response from your application after notifying the <i>assignment_callback_url</i> about the reservation. |

### Example code pieces using SDKs

#### Shell

```

curl -X POST https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workflows \
--data-urlencode 'FriendlyName=my test workflow'
--data-urlencode 'Configuration={"first_step":"FS111","filters":{"FS111":{"true_queue_
↳sid":"WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx","false_filter_sid":"FS222","name":"Hot",
↳"conditions":{">":[{"var":"temp"},"300"]},"FS222":{"true_queue_sid":
↳"WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx","name":"Mild","conditions":{"!=":["1","1"]}}}}'
--data-urlencode 'AssignmentCallbackUrl=https://assignment-callback.my-backbone.
↳mydomain.org'
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"

```

## Java

```

// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.Workflow;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        Workflow wf = Workflow.creator("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            "my test workflow",
            "https://assignment-callback.my-backbone.mydomain.org",
            {"first_step\":"FS111\","filters\":{"FS111\":{"true_queue_sid\":"
↳WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx\","false_filter_sid\":"FS222\","name\":"Hot\
↳","\\"conditions\":"{>\":[\"var\":"temp\"],\"300\"}]},\"FS222\":{"true_queue_sid\
↳\":\"WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx\","name\":"Mild\","conditions\":"{!=\":[\"
↳1\", \"1\"]}}}}",
            )
            .create();

        System.out.println(wf);
    }
}

```

## Phyton

```

from rindap.rest import Client
from rindap.rest import Rindap

# Authenticate
client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

# Get Workspace with workspace_sid
workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# create configuration
configuration = {
    "first_step": "FS111",
    "filters": {

```

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```

    "FS111": {
      "true_queue_sid": "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "false_filter_sid": "FS222",
      "name": "Hot",
      "conditions": {
        ">": [{"var": "temp"}, "300"]
      }
    },
    "FS222": {
      "true_queue_sid": "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "name": "Mild",
      "conditions": {
        "!=" : ["1", "1"]
      }
    }
  }
}

# Create a workflow
workflow = workspace.workflows.create("My Workflow",
                                     str(configuration),
                                     assignment_callback_url="https://assignment-
→callback.my-backbone.mydomain.org")

# Print workflow content
print("WorkflowSid: {}".format(workflow.sid))
print("FriendlyName: {}".format(workflow.friendly_name))

```

**JS**

```

var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Workflow configuration
var configuration = {
  "first_step": "FS111",
  "filters": {
    "FS111": {
      "true_queue_sid": "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "false_filter_sid": "FS222",
      "name": "Hot",
      "conditions": {
        ">": [{"var": "temp"}, "300"]
      }
    },
    "FS222": {
      "true_queue_sid": "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "name": "Mild",
      "conditions": {
        "!=" : ["1", "1"]
      }
    }
  }
}

```

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```
// Crate a workflow
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
.workflows
.create({
  friendlyName: "Friendly Name",
  configuration: JSON.stringify(configuration),
  assignmentCallbackUrl: "https://assignment-callback.my-backbone.mydomain.org"
}, function(err, workflow) {
  console.log(workflow.sid);
  console.log(workflow.friendlyName);
});
```

**C#**

```
using System;
using System.Collections.Generic;
using Newtonsoft.Json;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program
{
  static void Main(string[] args)
  {
    // Authenticate
    RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

    // Create a configuration
    var configuration = JsonConvert.SerializeObject(new Dictionary<string, Object>
    {
      { "first_step", "FS111"},
      { "filters",
        new Dictionary<string, Object>()
        {
          {
            "FS111", new Dictionary<string, Object>()
            {
              { "true_queue_sid", "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"},
              { "false_filter_sid", "FS222"},
              { "name", "Hot"},
              { "conditions",
                new Dictionary<string, Object>() {
                  { ">",
                    new object [] {
                      new Dictionary<string, Object>() { { "var
    { "temp" } }, 300 }
                }
              }
            }
          }
        }
      },
      {
        "FS222", new Dictionary<string, Object>()
        {
          { "true_queue_sid", "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx" }
        }
      }
    }
  }
}
```

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```

        { "name", "Mild" },
        { "conditions",
          new Dictionary<string, Object>() {
            { "!=",
              new object [] { "1", "1" }
            }
          }
        }
      }
    }
  }, Formatting.None);

  // Create a workflow
  var workflow = WorkflowResource.Create(
    assignmentCallbackUrl: new Uri("https://example.com/"),
    fallbackAssignmentCallbackUrl: new Uri("https://example2.com/"),
    friendlyName: "New Friendly Name",
    configuration: configuration,
    pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  );

  // Print workflow content
  Console.WriteLine("WorkflowSID : " + workflow.Sid);
  Console.WriteLine("Friendly Name : " + workflow.FriendlyName);
}
}

```

The above command returns JSON structured like this:

```

{
  "sid": "WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "friendly_name": "WF1-yesno",
  "configuration": {
    "first_step": "FS111",
    "filters": {
      "FS111": {
        "true_queue_sid": "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
        "false_filter_sid": "FS222",
        "name": "Hot",
        "conditions": {
          ">": [
            {
              "var": "temp"
            },
            "300"
          ]
        }
      },
      "FS222": {
        "true_queue_sid": "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
        "name": "Mild",
        "conditions": {

```

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```

        "!=": [
            "1",
            "1"
        ]
    }
}
},
"task_reservation_timeout": 86400,
"assignment_callback_url": "https://assignment-callback.my-backbone.mydomain.org",
"date_created": "2020-05-06T10:13:34+03:00",
"date_updated": "2020-05-06T10:13:34+03:00",
"url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WS2b948ebc07d14f5388eecbc92139e4c7/Workflows/WWc6187bd0d24a4365bc01ee340d3f7010",
"links": {
    "workspace": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WS2b948ebc07d14f5388eecbc92139e4c7"
}
}
}

```

## 2.2.3 Get All Workflows

**GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workflows`**

This endpoint retrieves all Workflows

Table 9: Query Parameters

| Parameter           | Type    | Default | Description  |
|---------------------|---------|---------|--|
| <b>WorkspaceSID</b> | String  | ""      | The SID of the Workspace   |
| <b>FriendlyName</b> | String  | ""      | (optional) Human readable friendly name. Can be used for filtering |
| <b>PageSize</b>     | Integer | 50      | Page size for paging   |
| <b>Page</b>         | Integer | 0       | Page number for paging   |

## Example code pieces using SDKs

### Shell

```

curl -X GET https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workflows \
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"

```

### Java

```

// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.Workflow;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

```

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```

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Fetch all workflows
        var workflows = WorkflowResource.Read(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            limit: 100,
            pageSize: 100
        );

        // Iterate on workflows
        foreach (var workflow in workflows)
        {
            // Print workflow content
            Console.WriteLine("WorkflowSID : " + workflow.Sid);
            Console.WriteLine("Friendly Name : " + workflow.FriendlyName);
        }
    }
}

```

The above command returns JSON structured like this:

```

{
  "meta": {
    "page_size": 50,
    "page": 0,
    "first_page_url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
    ↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workflows?Page=0&PageSize=50",
    "previous_page_url": null,
    "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
    ↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workflows?Page=0&PageSize=50",
    "key": "workflows",
    "next_page_url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
    ↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workflows?Page=1&PageSize=50"
  },
  "workflows": [
    {
      "sid": "WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "friendly_name": "my test workflow",
      "configuration": {
        "first_step": "FS111",
        "filters": {
          "FS111": {
            "true_queue_sid": "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            "false_filter_sid": "FS222",
            "name": "Hot",
            "conditions": {
              ">": [
                {
                  "var": "temp"
                }
              ]
            }
          }
        }
      }
    }
  ]
}

```

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```

        "300"
      ]
    }
  },
  "FS222": {
    "true_queue_sid": "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "name": "Mild",
    "conditions": {
      "!=": [
        "1",
        "1"
      ]
    }
  }
}
},
"task_reservation_timeout": 86400,
"assignment_callback_url": "https://assignment-callback.my-backbone.mydomain.org",
"date_created": "2020-05-06T10:13:34+03:00",
"date_updated": "2020-05-06T10:13:34+03:00",
"url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WS2b948ebc07d14f5388eecbc92139e4c7/Workflows/WWc6187bd0d24a4365bc01ee340d3f7010",
"links": {
  "workspace": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WS2b948ebc07d14f5388eecbc92139e4c7"
}
}
]
}

```

## 2.2.4 Fetch a Workflow

**GET** /v1/rindap-rest-gw/Workspaces/{WorkspaceSid}/Workflows/{WorkflowSID}

This endpoint fetches a single Workflow with all Its details

Table 10: Query Parameters

| Parameter           | Type   | Default | Description              |
|---------------------|--------|---------|--------------------------|
| <b>WorkspaceSID</b> | String | ""      | The SID of the Workspace |
| <b>WorkflowSID</b>  | String | ""      | The SID of the Workflow  |

### Example code pieces using SDKs

#### Shell

```

curl -X GET https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
/Workflows/WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type: application/x-www-form-urlencoded"

```

#### Java



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```

using Rindap.Rest.V1.Workspace;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Get a workflow with SID
        var workflow = WorkflowResource.Fetch(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            pathSid: "WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
        );

        // Print workflow content
        Console.WriteLine("WorkflowSID : " + workflow.Sid);
        Console.WriteLine("Friendly Name : " + workflow.FriendlyName);
    }
}

```

The above command returns JSON structured like this:

```

{
  "sid": "WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "friendly_name": "my test workflow",
  "configuration": {
    "first_step": "FS111",
    "filters": {
      "FS111": {
        "true_queue_sid": "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
        "false_filter_sid": "FS222",
        "name": "Hot",
        "conditions": {
          ">": [
            {
              "var": "temp"
            },
            "300"
          ]
        }
      },
      "FS222": {
        "true_queue_sid": "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
        "name": "Mild",
        "conditions": {
          "!=": [
            "1",
            "1"
          ]
        }
      }
    }
  },
  "task_reservation_timeout": 86400,

```

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```

// Find your Account Sid and Token at rindap.com/console

public static void main(String[] args) {

    Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

    Workflow wf = Workflow
        .updater("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
↪ "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
        .setFriendlyName("my newly named workflow")
        .setTaskReservationTimeout(3600)
        .update();

    System.out.println(w);
}
}

```

## Phyton

```

from rindap.rest import Client
from rindap.rest import Rindap

# Authenticate
client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

# Get Workspace with workspace_sid
workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# Update Workflow
updated_workflow = workflow.update("New Workflow Name", task_reservation_timeout=3600)

print("WorkflowSid: {}".format(updated_workflow.sid))
print("FriendlyName: {}".format(updated_workflow.friendly_name))

```

## JS

```

var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Update a workflows with SID
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
    .workflows("WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
    .update({
        friendlyName: "New Workflow Name",
        taskReservationTimeout: 3600
    }, function(err, workflow) {
        console.log(workflow.sid);
        console.log(workflow.friendlyName);
    });

```

## C#

```

using System;
using Rindap;

```

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```

using Rindap.Rest.V1.Workspace;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Update a workflow
        var workflow = WorkflowResource.Update(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            pathSid: "WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            assignmentCallbackUrl: new Uri("https://example.org"),
            friendlyName: "New workflow name"
        );

        // Print workflow content
        Console.WriteLine("WorkflowSID : " + workflow.Sid);
        Console.WriteLine("Friendly Name : " + workflow.FriendlyName);
        Console.WriteLine("Callback URI : " + workflow.AssignmentCallbackUrl);
    }
}

```

The above command returns JSON structured like this:

```

{
  "sid": "WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "friendly_name": "my newly named workflow",
  "configuration": {
    "first_step": "FS111",
    "filters": {
      "FS111": {
        "true_queue_sid": "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
        "false_filter_sid": "FS222",
        "name": "Hot",
        "conditions": {
          ">": [
            {
              "var": "temp"
            },
            "300"
          ]
        }
      },
      "FS222": {
        "true_queue_sid": "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
        "name": "Mild",
        "conditions": {
          "!=": [
            "1",
            "1"
          ]
        }
      }
    }
  }
}

```

(continues on next page)



**Phyton**

```
from rindap.rest import Client
from rindap.rest import Rindap

# Authenticate
client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

# Get Workspace with workspace_sid
workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# Delete workflow with sid
if workspace.workflows.get("WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx").delete():
    print("Workflow has been deleted!")
```

**JS**

```
var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Delete a workflows with SID
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
    .workflows("WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
    .remove();
```

**C#**

```
using System;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Update a workflows workflow
        var isDeleted = WorkflowResource.Delete(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            pathSid: "WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
        );

        if (isDeleted)
        {
            Console.WriteLine("Workflow has been deleted!");
        }
    }
}
```

## 2.3 Workers

In order to perform more tasks, perform tasks more precisely and in-time, Workers interact with TaskQueues. Workers always listen to multiple TaskQueues or no Queue at all. When a task is feeded to TaskQueue, based on eligibility, capability and role of a Worker, a task is assigned to Worker to perform it. For example, a Worker can be a person in a call center, a web service endpoint that listens to instructions, or an expert fixing the system failure.

### 2.3.1 Worker Properties

Table 13: Properties

| field                      | description   |
|----------------------------|---|
| <b>sid</b>                 | The unique string that we created to identify the Worker resource.  |
| <b>account_sid</b>         | The SID of the Account that created the Worker resource.  |
| <b>workspace_sid</b>       | The SID of the Workspace that contains the Worker   |
| <b>available</b>           | Whether the Worker is available to perform tasks.   |
| <b>friendly_name</b>       | The string that you assigned to describe the resource. Friendly names are case insensitive, and unique within the Rindap Workspace.   |
| <b>attributes</b>          | A JSON String for describing the Worker and its features such as skills and information. This value is used for deciding which TaskQueues the Worker can receive Tasks from   |
| <b>activity</b>            | <p><b>This Activity determines the Worker's current state in the system, as well as whether the</b></p> <ol style="list-style-type: none"> <li>1. idle: the Worker is available and is waiting for Task Assignments</li> <li>2. busy: the Worker is not available. The Worker is set to this Activity when a Reservation for this Worker is accepted.</li> <li>3. offline: the Worker is not available.</li> <li>4. reserved: This is a system Activity. At this stage, the Worker is paired with a Task and a reservation is created.</li> </ol> |
| <b>date_created</b>        | The date and time in GMT when the resource was created, specified in ISO 8601 format.   |
| <b>date_status_changed</b> | The date and time in GMT when the Activity of the Worker was last updated, specified in ISO 8601 format.  |
| <b>date_updated</b>        | The date and time in GMT when the resource was last updated, specified in ISO 8601 format.  |
| <b>url</b>                 | The absolute URL of the resource  |
| <b>links</b>               | The URLs of related resources.  |

### 2.3.2 Worker Attributes

A worker's attributes are used to simply and accurately represent a working entity on Rindap. These attributes can be skills and information about a person, in the case of a human Worker. Or it can be some identifying data and hard-coded parameters for a digital entity like a web service. When populating this field, you should keep in mind that the value in some of these fields might be used for creating the TaskQueue relations of this Worker, according to the *worker\_requirements* field of TaskQueues, which is simply a JsonLogic rule. For example, a worker with attributes such as the one below:

```
{
  "name" : "john doe",
```

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```
"age": 44,
"department" : "support",
"location": "Utah"
}
```

would be receiving Tasks from a TaskQueue with worker\_requirements as such:

```
{
  "==" : [{"var": "department"}, "support"]
}
```

Because the requirement rules for the TaskQueue would be matching the attributes of the Worker.

**Note: Understanding the “requirements vs attributes” model is fundamental.**

With this **requirements vs attributes** model, you do not need to point out which TaskQueues a Worker needs to receive Tasks from or which Workers are suitable for the Tasks in a TaskQueue. When you create a Worker, the Worker will automatically be receiving Tasks from appropriate TaskQueues. And when attributes of a Worker are updated, the Workers related TaskQueues are updated accordingly.

The same goes for TaskQueues : When requirements for a TaskQueue are updated, the related Workers for the TaskQueue are updated.

### 2.3.3 Create A Worker

**POST /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workers**

You can create a Worker by simply providing a FriendlyName

Table 14: Query Parameters

| Parameter                  | Type   | Default | Description   |
|----------------------------|--------|---------|---|
| <b>WorkspaceSID</b>        | String | ""      | The SID of the <i>Workspace</i>   |
| <b>FriendlyName</b>        | String | ""      | Human readable friendly name. It can be 512 characters long   |
| <b>Activity</b>            | String | ""      | (optional) Activity for the created Worker to be assigned to. If not provided, The default_activity for the Workspace will be used  |
| <b>Attributes</b>          | String | ""      | A URL-encoded JSON string with the features and skills of a Worker. This value is used for deciding which TaskQueues the Worker can receive Task s from.                    |
| <b>RateLimitProfileSid</b> | String | ""      | (optional) The SID of the RateLimitProfile for overseeing the maximum rate of reservations this Worker can have hourly. For more information see <i>Rate Limit Profiles</i> |

### Example code pieces using SDKs

**Shell**

```
curl -X POST https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX/Workers \
--data-urlencode 'FriendlyName=my test worker'
```

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```
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"
```

## Java

```
// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.Worker;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        Worker w = Worker.creator("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
            .setFriendlyNameAttributes("my test worker")
            .create();

        System.out.println(w);
    }
}
```

## Phyton

```
from rindap.rest import Client
from rindap.rest import Rindap

# Authenticate
client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

# Get Workspace with workspace_sid
workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# Create a worker
worker = workspace.workers.create("My New Worker", activity="idle",
    task_queues=["WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"],
    rate_limit_profile_sid=
    ↪ "RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# Print content of worker
print("FriendlyName: {}".format(worker.friendly_name))
print("WorkerSid: {}".format(worker.sid))
```

## JS

```
var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Crate a worker
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
    .workers
```

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```

.create({
  friendlyName: "Friendly Worker Name" ,
  activity: "idle",
  rateLimitProfileSid: "RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  taskQueues: ["WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
↪ "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"]
}, function(err, worker) {
  console.log(worker.sid);
  console.log(worker.friendlyName);
  console.log(worker.activity);
  console.log(worker.rateLimitProfileSid);
  console.log(worker.taskQueues);
});

```

**C#**

```

using System;
using System.ComponentModel.DataAnnotations;
using Rindap;
using Rindap.Rest.V1;
using Rindap.Rest.V1.Workspace;

class Program
{
  static void Main(string[] args)
  {
    // Authenticate
    RindapClient.Init("YOUR_AUTH_TOKEN", "YOUR_AUTH_TOKEN");

    // Create a worker
    var worker = WorkerResource.Create(
      pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      friendlyName: "New Worker",
      activity: "offline",
      taskQueues: new String[] { "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx" },
      rateLimitProfileSid: "RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
    );

    // Print content of worker
    Console.WriteLine("Friendly Name      : " + worker.FriendlyName);
    Console.WriteLine("Activity          : " + worker.Activity);
    Console.WriteLine("TaskQueues       : " + string.Join(",", worker.
↪TaskQueues));
    Console.WriteLine("RateLimitProfileSid: " + worker.RateLimitProfileSid);
  }
}

```

The above command returns JSON structured like this:

```

{
  "sid": "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "queues": [
    "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  ],
  "activity": "offline",

```

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```

        System.out.println(w);
    }
}

```

## Phyton

```

from rindap.rest import Client
from rindap.rest import Rindap

client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

workspace = rindap.workspaces.get("WSb9d8cf8597f64f77a45666c4c0263862")
worker_fetcher = workspace.workers.list(limit=10, page_size=5)
worker = worker_fetcher.pop()
print("FriendlyName: {}".format(worker.friendly_name))
print("WorkerSid: {}".format(worker.sid))

```

## JS

```

var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Get all workers
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
    .workers
    .list({
        limit: 100,
        pageSize: 100,
    }, function(err, workers) {
        workers.forEach(function(worker) {
            console.log(worker.sid);
            console.log(worker.friendlyName);
            console.log(worker.activity);
            console.log(worker.rateLimitProfileSid);
            console.log(worker.taskQueues);
        });
    });

```

## C#

```

using System;
using System.ComponentModel.DataAnnotations;
using Rindap;
using Rindap.Rest.V1;
using Rindap.Rest.V1.Workspace;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_AUTH_TOKEN", "YOUR_AUTH_TOKEN");

        // Get all workers

```

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```

var workers = WorkerResource.Read(
    pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    limit: 100,
    pageSize: 100
);

foreach (var worker in workers)
{
    // Print content of worker
    Console.WriteLine("Worker SID           : " + worker.Sid);
    Console.WriteLine("Friendly Name       : " + worker.FriendlyName);
    Console.WriteLine("Activity           : " + worker.Activity);
    Console.WriteLine("TaskQueues        : " + string.Join(", ", worker.
↪TaskQueues));
    Console.WriteLine("RateLimitProfileSid: " + worker.RateLimitProfileSid);
}
}
}

```

The above commands return JSON structured like this:

```

{
  "meta": {
    "page_size": 50,
    "page": 0,
    "first_page_url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers?Page=0&PageSize=50",
    "previous_page_url": null,
    "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers?Page=0&PageSize=50",
    "key": "workers",
    "next_page_url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers?Page=1&PageSize=50"
  },
  "workers": [
    {
      "sid": "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "queues": [
        "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
      ],
      "activity": "offline",
      "available": false,
      "friendly_name": "my test worker",
      "date_created": "2020-05-04T11:03:41+03:00",
      "date_updated": "2020-05-04T11:03:41+03:00",
      "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "links": {
        "workspace": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
      }
    }
  ]
}

```

### 2.3.5 Fetch A Worker

**GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workers/{WorkerSID}**

This endpoint fetches a single Worker with all Its details

Table 16: Query Parameters

| Parameter           | Type   | Default | Description                     |
|---------------------|--------|---------|---------------------------------|
| <b>WorkspaceSID</b> | String | ""      | The SID of the <i>Workspace</i> |
| <b>WorkerSid</b>    | String | ""      | The SID of the Worker           |

#### Example code pieces using SDKs

##### Shell

```
curl -X GET https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
  /Workers/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"
```

##### Java

```
// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.Worker;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        Worker w = Worker
            .fetcher("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
↪ "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
            .fetch();

        System.out.println(w);
    }
}
```

##### Phyton

```
from rindap.rest import Client
from rindap.rest import Rindap

client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

workspace = rindap.workspaces.get("WSb9d8cf8597f64f77a45666c4c0263862")
worker = workspace.workers.get("WKdc8c97f1e1c24410ae08605ff6e5d946").fetch()
print("FriendlyName: {}".format(worker.friendly_name))
print("WorkerSid: {}".format(worker.sid))
```

## JS

```

var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Get a workers with sid
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
  .workers("WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx").fetch(
    function(err, worker) {
      console.log(worker.sid);
      console.log(worker.friendlyName);
      console.log(worker.activity);
      console.log(worker.rateLimitProfileSid);
      console.log(worker.taskQueues);
    });

```

## C#

```

using System;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_AUTH_TOKEN", "YOUR_AUTH_TOKEN");

        // Get a worker with SID
        var worker = WorkerResource.Fetch(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            pathSid: "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
        );

        // Print content of worker
        Console.WriteLine("Worker SID           : " + worker.Sid);
        Console.WriteLine("Friendly Name      : " + worker.FriendlyName);
        Console.WriteLine("Activity           : " + worker.Activity);
        Console.WriteLine("TaskQueues        : " + string.Join(", ", worker.
→TaskQueues));
        Console.WriteLine("RateLimitProfileSid: " + worker.RateLimitProfileSid);
    }
}

```

The above command returns JSON structured like this:

```

{
  "sid": "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "queues": [
    "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  ],
  "activity": "offline",
  "available": false,

```

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```
// Find your Account Sid and Token at rindap.com/console

public static void main(String[] args) {

    Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

    Worker w = Worker
        .updater("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
↪ "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
        .setActivity("idle")
        .addTaskQueue("WQ11xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
        .addTaskQueue("WQ22xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
        .update();

    System.out.println(w);
}
}
```

### Phyton

```
from rindap.rest import Client
from rindap.rest import Rindap

client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

workspace = rindap.workspaces.get("WSb9d8cf8597f64f77a45666c4c0263862")
worker = workspace.workers.get("WKdc8c97f1e1c24410ae08605ff6e5d946")
wk = worker.update(friendly_name="New Worker Name", activity="idle")
print("FriendlyName: {}".format(wk.friendly_name))
print("WorkerSid: {}".format(wk.sid))
```

### JS

```
var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Update a workers
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
    .workers("WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx").update({
    friendlyName: "New Friendly Worker Name" ,
    activity: "offline",
    rateLimitProfileSid: "RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    taskQueues: ["WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"]
    } , function(err, worker) {
    console.log(worker.sid);
    console.log(worker.friendlyName);
    console.log(worker.activity);
    console.log(worker.rateLimitProfileSid);
    console.log(worker.taskQueues);
    });
```

### C#

```

using System;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_AUTH_TOKEN", "YOUR_AUTH_TOKEN");

        // Update a worker with SID
        var worker = WorkerResource.Update(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            pathSid: "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            rateLimitProfileSid: "RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            friendlyName: "New Friendly Name",
            taskQueues: new string[] { "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
↪ "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx" }
        );

        // Print content of worker
        Console.WriteLine("Worker SID           : " + worker.Sid);
        Console.WriteLine("Friendly Name       : " + worker.FriendlyName);
        Console.WriteLine("Activity            : " + worker.Activity);
        Console.WriteLine("TaskQueues         : " + string.Join(", ", worker.
↪ TaskQueues));
        Console.WriteLine("RateLimitProfileSid: " + worker.RateLimitProfileSid);
    }
}

```

The above command returns JSON structured like this:

```

{
  "sid": "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "queues": [
    "WQ00xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "WQ11xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "WQ22xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  ],
  "activity": "idle",
  "available": true,
  "friendly_name": "my test worker",
  "date_created": "2020-05-04T11:03:41+03:00",
  "date_updated": "2020-05-04T11:03:41+03:00",
  "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪ WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "links": {
    "workspace": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪ WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  }
}

```

## 2.3.7 Delete A Worker

**DELETE** /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workers/{WorkerSID}

Table 18: Query Parameters

| Parameter           | Type   | Default | Description                     |
|---------------------|--------|---------|---------------------------------|
| <b>WorkspaceSID</b> | String | ""      | The SID of the <i>Workspace</i> |
| <b>WorkerSID</b>    | String | ""      | The SID of the Worker           |

### Example code pieces using SDKs

#### Shell

```
curl -X DEL https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
  /Workers/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"
```

#### Java

```
// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.Worker;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        Worker.deleter("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
↪ "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
            .delete();
    }
}
```

#### Phyton

```
from rindap.rest import Client
from rindap.rest import Rindap

client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

workspace = rindap.workspaces.get("WSb9d8cf8597f64f77a45666c4c0263862")
if workspace.workers.get("WK369cfb99700446dea18fcabbd9f1a68c").delete():
    print("Worker has been deleted")
```

#### JS

```
var Rindap = require('rindap');
```

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```
// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Delete a workers with sid
rindap.workspaces('WS70cdccad050a41619162db0f32b7fc43')
    .workers("WK2b9748b550ee40a2bd010f06c78511e3").remove();
```

## C#

```
using System;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_AUTH_TOKEN", "YOUR_AUTH_TOKEN");

        // Delete a worker with SID
        var isDeleted = WorkerResource.Delete(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            pathSid: "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
        );

        if (isDeleted)
        {
            Console.WriteLine("Worker has been deleted!");
        }
    }
}
```

## 2.4 Tasks

In process management, a task is an activity that needs to be done, leading to the final deliverable. Tasks are a small essential piece of work that must be carried out to progress the whole project. For example, in business process systems, a process could consist of several tasks or activities to be completed in a defined period of time. CRM or ticketing systems allow organizations to generate tasks such as creating reminders in customer accounts that are synced with the calendar.

### 2.4.1 Task Attributes

Task attributes are the core features of Tasks that are evaluated in the Workflow process. Consequently, based on the evaluation results, the path a task will follow in the Workflow is determined. Attributes are expressed in JSON data, for example:

### 2.4.2 Task Lifecycle

A Task has a Lifecycle to manage a task. When a task is created, either manually or automatically by a system, it can pass through several states it is completed by its own or is closed manually. A Task's lifecycle starts when the task

is generated, then the task is assigned, is processed, is completed and finally is verified. In the process management system, a user submits a task to a Workflow. Afterwards, the Task's attributes are evaluated against the Filters in the Workflow, starting from the starting Filter defined in the Workflow until a match is found. When a match is found, the Task is pushed to the TaskQueue designated by the matching Filter. Task waits in the queue till a capable and available Worker is handled the Task.

### 2.4.3 Task Properties

Table 19: Properties

| field                               | description   |
|-------------------------------------|---|
| <b>sid</b>                          | The unique string that we created to identify the Task resource.  |
| <b>account_sid</b>                  | The SID of the Account that created the Task resource.  |
| <b>workspace_sid</b>                | The SID of the Workspace that contains the Task   |
| <b>workflow_sid</b>                 | The SID of the Workflow that is controlling the Task  |
| <b>workflow_friendly_name</b>       | The friendly name of the Workflow that is controlling the Task  |
| <b>initial_attributes</b>           | A JSON String for the attributes of the task. This value cannot be changed, for showing the original state of the Task  |
| <b>attributes</b>                   | A JSON String for the attributes of the task. This field can be updated throughout the Lifecycle of the Task and will be used for evaluating filters of the Task's Workflow                           |
| <b>assignment_status</b>            | The current status of the Task's assignment. Can be: pending, awaiting_reservation,reserved, postponed, accepted, cancelled or completed.   |
| <b>task_queue_sid</b>               | The SID of the TaskQueue that the Task was last sent to   |
| <b>task_queue_sid_friendly_name</b> | The friendly name of the TaskQueue that the Task was last sent to   |
| <b>age</b>                          | The number of seconds since the Task was created.   |
| <b>step_history</b>                 | A JSON Array of JSON Objects, showing the steps which were selected for the Task throughout its lifecycle. The JSON Objects hold the Step Id and the Date it was selected for the Task                |
| <b>task_queue_history</b>           | A JSON Array of JSON Objects, showing the Task Queues to which the Task was sent, throughout its lifecycle. The JSON Objects hold the Task Queue SID, Task Queue friendly name and the Date           |
| <b>last_charge_date</b>             | The date The Task was last charged  |
| <b>next_charge_date</b>             | The date The Task will be charged again, If It has not ended Its lifecycle  |
| <b>total_cost</b>                   | The total cost of charges for The Task so far   |
| <b>forked_from</b>                  | The SID of the Parent Task, if this Task is forked from another Task. For more information, see <a href="#">Task Forking</a>  |
| <b>postponed_till</b>               | The date and time in GMT, till the task is postponed, valid when The Task AssignmentStatus is <i>postponed</i> .  |
| <b>postponing_reason</b>            | The explanation of the reason for postponing, valid when The Task AssignmentStatus is <i>postponed</i> .  |
| <b>loop_retries_left</b>            | The number of retries left for the current Loop Filter in the Workflow, valid when The Task AssignmentStatus is <i>postponed</i> . For more information, see <a href="#">Workflow Configuration</a> . |
| <b>date_created</b>                 | The date and time in GMT when the resource was created, specified in ISO 8601 format.   |
| <b>date_updated</b>                 | The date and time in GMT when the resource was last updated, specified in ISO 8601 format.  |
| <b>url</b>                          | The absolute URL of the resource  |
| <b>links</b>                        | The URLs of related resources.  |

## 2.4.4 Create A Task

### POST /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Tasks

You can create a task by simply providing the Task Attributes and the Workflow for the task

Table 20: Query Parameters

| Parameter           | Type    | Default | Description  |
|---------------------|---------|---------|--|
| <b>WorkspaceSID</b> | String  | ""      | The SID of the Workspace in which the Task is created  |
| <b>WorkflowSID</b>  | String  | ""      | The SID of the Workflow that you would like Task to be handled by  |
| <b>Attributes</b>   | String  | ""      | A URL-encoded JSON string with the attributes of the new task. This value is passed to the Workflow's <code>assignment_callback_url</code> when the Task is assigned to a Worker.  |
| <b>Timeout</b>      | Integer | ""      | (Optional) (Max=2073600) (Min=60) Timeout value in seconds, for the Task to be closed after, if the Task <code>assignment_status</code> is not <i>completed</i> or <i>cancelled</i> at the time of control. Task will be "cancelled" with reason "Task TTL Exceeded" |

### Example code pieces using SDKs

#### Shell

```
curl -X POST https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX/Tasks \
--data-urlencode 'WorkflowSid=WWb898bae42dec49e792f37f9639bf625c'
--data-urlencode 'Attributes={"some_integer": 55,"some_text": "hello world","some_
↳boolean" : true}' \
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"
```

#### Java

```
// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.Task;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        Task t = Task.creator("WSXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX")
            .setAttributes("{\"some_integer\": 55, \"some_text\": \"hello world\", \"
↳some_boolean\" : true}")
            .setWorkflowSid("WWXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX")
            .create();

        System.out.println(t);
    }
}
```

## Python

```

from rindap.rest import Client
from rindap.rest import Rindap

# Authenticate
client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

# Get Workspace with workspace_sid
workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# Create a task
task = workspace.tasks.create(workflow_sid="WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
                              attributes='{"some_integer": 55, "some_text": "hello world
↪", "some_boolean" : true}')

# Print content of task
print("TaskSid: {}".format(task.sid))

```

## JS

```

var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Create a task
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
  .tasks
  .create({
    attributes: '{"some_integer": 55, "some_text": "hello world", "some_boolean" :_
↪true}',
    workflowSid: 'WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx'
  }, function(err, task) {
    console.log(task.sid);
    console.log(task.attributes);
    console.log(task.workflowSid);
  });

```

## CSharp

```

using System;
using System.Collections.Generic;
using Newtonsoft.Json;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Create an attributes
        var attributes = JsonConvert.SerializeObject(new Dictionary<string, Object>()
        {

```

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```

        {"type", "support"}
    }, Formatting.Indented);

    // Create a task
    var task = TaskResource.Create(
        pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
        workflowSid: "WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
        attributes: attributes,
        timeout: 100
    );

    // Print task content
    Console.WriteLine("Workspace Sid : " + task.Sid);
    foreach (var attribute in task.Attributes)
    {
        Console.WriteLine("Attributes: ");
        Console.WriteLine("\tKey    : " + attribute.Key);
        Console.WriteLine("\tValue : " + attribute.Value);
    }
    Console.WriteLine("Timeout      : " + task.Timeout);
    Console.WriteLine("WorkflowSid  : " + task.WorkflowSid);
}
}

```

The above command returns JSON structured like this:

```

{
  "sid": "WT9a69287d97fe4110a76ef9db8cf728f8",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workflow_sid": "WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workflow_friendly_name": "my first workflow",
  "initial_attributes": {
    "some_integer": 55,
    "some_text": "hello world"
    "some_boolean" : true
  },
  "attributes": {
    "some_integer": 55,
    "some_text": "hello world"
    "some_boolean" : true
  },
  "assignment_status": "pending",
  "step": -1,
  "reason": null,
  "date_created": "2020-01-01T16:11:35+03:00",
  "date_updated": "2020-01-01T16:11:35+03:00",
  "last_charge_date": "2020-01-01T16:11:35+03:00",
  "next_charge_date": "2020-02-01T16:11:35+03:00",
  "total_cost": "0.01",
  "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Tasks/WT9a69287d97fe4110a76ef9db8cf728f8",
  "links": {
    "workspace": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "workflow": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workflows/WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  }
}

```

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```

},
"age": 0
}

```

## 2.4.5 Get All Tasks

**GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Tasks**

This endpoint retrieves all Tasks

Table 21: Query Parameters

| Parameter           | Type    | Default | Description   |
|---------------------|---------|---------|---|
| <b>WorkspaceSID</b> | String  | ""      | The SID of the Workspace in which the Task is created |
| <b>FriendlyName</b> | String  | ""      | Human readable friendly name                          |
| <b>PageSize</b>     | Integer | 50      | Page size for paging                                  |
| <b>Page</b>         | Integer | 0       | Page number for paging                                |

### Example code pieces using SDKs

C#

```

using System;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Fetch all tasks
        var tasks = TaskResource.Read(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            limit: 100,
            pageSize: 100
        );

        // Iterate on all tasks
        foreach (var task in tasks)
        {
            // Print task content
            Console.WriteLine("Workspace Sid : " + task.Sid);
            foreach (var attribute in task.Attributes)
            {
                Console.WriteLine("Attributes: ");
                Console.WriteLine("\tKey   : " + attribute.Key);
                Console.WriteLine("\tValue : " + attribute.Value);
            }
            Console.WriteLine("Timeout      : " + task.Timeout);
            Console.WriteLine("WorkflowSid  : " + task.WorkflowSid);
        }
    }
}

```

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```
}
}
```

**Python**

```
from rindap.rest import Client
from rindap.rest import Rindap

# Authenticate
client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

# Get Workspace with workspace_sid
workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# Fetch all tasks
task_fetcher = workspace.tasks.list(limit=10, page_size=5)
for task in task_fetcher:
    # Print content of task
    print("TaskSid: {}".format(task.sid))
```

**JS**

```
var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// List all tasks
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
    .tasks
    .list({
        limit: 100,
        pageSize: 100
    }, function(err, tasks) {
        tasks.forEach(function(task) {
            console.log(task.sid);
            console.log(task.attributes);
            console.log(task.workflowSid);
        });
    });
```

The above command returns JSON structured like this:

```
{
  "meta": {
    "page_size": 50,
    "page": 0,
    "first_page_url": "string",
    "previous_page_url": "string",
    "url": "string",
    "key": "string",
    "next_page_url": "string"
  },
  "workspaces": [
    {
```

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```

"sid": "string",
"friendly_name": "string",
"event_callback_url": "string",
"account_sid": "string",
"date_created": "2020-04-02T12:30:58.083Z",
"date_updated": "2020-04-02T12:30:58.083Z",
"url": "string",
"links": {
  "tasks": "string",
  "workers": "string",
  "workflows": "string",
  "task_queues": "string"
}
}
]
}

```

## 2.4.6 Fetch a Task

This endpoint fetches a single Task with all its details

**GET** /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Tasks/{TaskSID}

Table 22: Query Parameters

| Parameter           | Type   | Default | Description  |
|---------------------|--------|---------|--|
| <b>WorkspaceSID</b> | String | ""      | The SID of the Workspace in which the Task is created  |
| <b>TaskSID</b>      | String | ""      | TaskSID (Secure Identifier) - a unique ID for the Task |

### Example code pieces using SDKs

#### Shell

```

curl -X GET https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
/Tasks/WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"

```

#### Java

```

// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.Task;

public class Example {
  // Find your Account Sid and Token at rindap.com/console

  public static void main(String[] args) {

    Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

    Task t = Task

```

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```

var task = TaskResource.Fetch(
    pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    pathSid: "WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
);

// Print task content
Console.WriteLine("Workspace Sid : " + task.Sid);
foreach (var attribute in task.Attributes)
{
    Console.WriteLine("Attributes: ");
    Console.WriteLine("\tKey   : " + attribute.Key);
    Console.WriteLine("\tValue : " + attribute.Value);
}
Console.WriteLine("Timeout       : " + task.Timeout);
Console.WriteLine("WorkflowSid   : " + task.WorkflowSid);
}
}

```

The above command returns JSON structured like this:

```

{
  "sid": "WT9a69287d97fe4110a76ef9db8cf728f8",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workflow_sid": "WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workflow_friendly_name": "my first workflow",
  "initial_attributes": {
    "some_integer": 55,
    "some_text": "hello world"
    "some_boolean" : true
  },
  "attributes": {
    "some_integer": 55,
    "some_text": "hello world"
    "some_boolean" : true
  },
  "assignment_status": "pending",
  "step": -1,
  "reason": null,
  "date_created": "2020-01-01T16:11:35+03:00",
  "date_updated": "2020-01-01T16:11:35+03:00",
  "last_charge_date": "2020-01-01T16:11:35+03:00",
  "next_charge_date": "2020-02-01T16:11:35+03:00",
  "total_cost": "0.01",
  "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Tasks/WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "links": {
    "workspace": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "workflow": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workflows/WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  },
  "age": 0
}

```

## 2.4.7 Update a Task

**PUT** /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Tasks/{TaskSID}

Table 23: Query Parameters

| Parameter               | Type   | Default | Description  |
|-------------------------|--------|---------|--|
| <b>WorkspaceSID</b>     | String | ""      | The SID of the Workspace in which the Task is created  |
| <b>TaskSID</b>          | String | ""      | TaskSID (Secure Identifier) - a unique ID for the Task   |
| <b>Attributes</b>       | String | ""      | (Optional) A URL-encoded JSON string that will replace the <i>Attributes</i> field of your Task. You should use this parameter for updating the data related to this Task.   |
| <b>AssignmentStatus</b> | String | ""      | (Optional) you can update the assignment status of your task by one of these options: <i>pending</i> , 'completed', 'cancelled'. If you set your task's <i>assignment_status</i> to <i>pending</i> , it will be processed by Its Workflow once again, from the Workflow Step that's shown at the <i>step</i> field of the Task. If you set this field to <i>cancelled</i> , you can also send the <i>Reason</i> parameter for telling what reason the Task is cancelled for. |
| <b>Reason</b>           | String | ""      | (Optional) Can only be sent when the <i>AssignmentStatus</i> parameter is set as <i>cancelled</i> as well.   |

### Example code pieces using SDKs

#### Shell

```
curl -X PUT https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳ WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
/Tasks/WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
--data-urlencode 'Attributes={"result_of_some_query": 55,"some_text": "new related_
↳ info"}' \
--data-urlencode 'AssignmentStatus=pending' \
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"
```

#### Java

```
// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.Task;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        Task t = Task
            .updater("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
↳ "WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
            .setAttributes("{\"result_of_some_query\": 55, \"some_text\": \"new_
↳ related info\"}")
            .setAssignmentStatus("pending")
```

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```

        .update();

        System.out.println(t);
    }
}

```

## Python

```

from rindap.rest import Client
from rindap.rest import Rindap

# Authenticate
client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

# Get Workspace with workspace_sid
workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# Get a task with sid
task = workspace.tasks.get("WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# Update task
updated_task = task.update(assignment_status="completed")

# Print content of task
print("TaskSid: {}".format(updated_task.sid))

```

## JS

```

var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Update a tasks
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
    .tasks("WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
    .update({
        assignmentStatus: "cancelled"
    }, function(err, task) {
        console.log(err);
        console.log(task.sid);
        console.log(task.attributes);
        console.log(task.workflowSid);
    });

```

## C#

```

using System;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate

```

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```

RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Update a tasks with SID
var task = TaskResource.Update(
    pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    pathSid: "WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    assignmentStatus: "cancelled"
);

// Print task content
Console.WriteLine("Workspace Sid : " + task.Sid);
foreach (var attribute in task.Attributes)
{
    Console.WriteLine("Attributes: ");
    Console.WriteLine("\tKey    : " + attribute.Key);
    Console.WriteLine("\tValue  : " + attribute.Value);
}
Console.WriteLine("Timeout      : " + task.Timeout);
Console.WriteLine("WorkflowSid   : " + task.WorkflowSid);
}
}

```

The above command returns JSON structured like this:

```

{
  "sid": "WT9a69287d97fe4110a76ef9db8cf728f8",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workflow_sid": "WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workflow_friendly_name": "my first workflow",
  "initial_attributes": {
    "some_integer": 55,
    "some_text": "hello world"
    "some_boolean" : true
  },
  "attributes": {
    "result_of_some_query": 55,
    "some_text": "new related info"
  },
  "assignment_status": "pending",
  "step": -1,
  "reason": null,
  "date_created": "2020-01-01T16:11:35+03:00",
  "date_updated": "2020-01-01T16:11:35+03:00",
  "last_charge_date": "2020-01-01T16:11:35+03:00",
  "next_charge_date": "2020-02-01T16:11:35+03:00",
  "total_cost": "0.01",
  "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
  ↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Tasks/WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "links": {
    "workspace": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
  ↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "workflow": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
  ↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workflows/WWxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  },
  "age": 0
}

```

## 2.4.8 Delete a Task

**DELETE** /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Tasks/{TaskSID}

Table 24: Query Parameters

| Parameter           | Type   | Default | Description  |
|---------------------|--------|---------|--|
| <b>WorkspaceSID</b> | String | ""      | The SID of the Workspace in which the Task is created  |
| <b>TaskSID</b>      | String | ""      | TaskSID (Secure Identifier) - a unique ID for the Task |

### Example code pieces using SDKs

#### Shell

```
curl -X DEL https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
/Tasks/WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"
```

#### Java

```
// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.Task;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        Task.deleter("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
↪"WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
            .delete();
    }
}
```

#### Python

```
from rindap.rest import Client
from rindap.rest import Rindap

# Authenticate
client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

# Get Workspace with workspace_sid
workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# Get a task with sid and delete it
if workspace.tasks.get("WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx").delete():
    print("Task has been deleted!")
```

#### JS

```

var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Get a tasks with SID
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
  .tasks("WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
  .remove();

```

## C#

```

using System;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Get a tasks with SID
        var isDeleted = TaskResource.Delete(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            pathSid: "WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
        );

        if (isDeleted)
        {
            Console.WriteLine("Task has been deleted!");
        }
    }
}

```

## 2.5 Rate Limit Profiles

RateLimitProfiles define a limit for the maximum number of Reservations that can be created Hourly.

When a Worker has a `rate_limit_profile` set, you guarantee that the Worker will not be assigned more than a certain number of Tasks **hourly**, regardless of the Task's nature, or which Workflow It's processed through or which TaskQueue it comes from. You can read more about [Rate Limits and Rate Limit Profiles here](#).

Using Rate Limit Profiles helps you group similar Workers together and change their pace of Task consumption from a single point of setting. For example, a Call Center may set a rate limit profile for all the Workers in the support department, which lets them all have 12 calls per hour in the morning session, and then update the Rate Limit Profile and let them have 6 calls per hour in the afternoon session, halving their workload and redirecting it to some other department, with a single Rate Limit Profile update.

- **With utilizing Rate Limit Profiles, you can :**
  - change the pace of Task consumption or
  - enforce quotas on limited resources and budgets or



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```

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        RateLimitProfile rl = RateLimitProfile.creator(
↪ "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            "my rate limit profile for 6 reservations an Hour",
            6
        )
        .create();

        System.out.println(rl);
    }
}

```

## Python

```

from rindap.rest import Client
from rindap.rest import Rindap

client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

workspace = rindap.workspaces.get("WSb9d8cf8597f64f77a45666c4c0263862")
rtp = workspace.rate_limit_profiles.create("My Rate Limit", reservation_per_hour=7)
print(rtp)

```

## JS

```

var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Crate a reservation
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
.rateLimitProfiles
.create({
    friendlyName: 'New Rate Limit',
    reservationsPerHour: 4
}, function(err, rateLimitProfile) {
    console.log(rateLimitProfile.sid);
    console.log(rateLimitProfile.friendlyName);
    console.log(rateLimitProfile.reservationsPerHour);
});

```

## C#

```

using System;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program

```

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```

{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Create a RateLimitProfile
        var rateLimitProfile = RateLimitProfileResource.Create(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            friendlyName: "New RateLimitProfile",
            reservationsPerHour: 7
        );

        // Print RateLimitProfile Content
        Console.WriteLine("SID           : " + rateLimitProfile.Sid);
        Console.WriteLine("FriendlyName       : " + rateLimitProfile.FriendlyName);
        Console.WriteLine("ReservationPerHour: " + rateLimitProfile.
↪ReservationPerHour);
    }
}

```

The above command returns JSON structured like this:

```

{
  "sid": "RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "friendly_name": "my rate limit profile for 6 reservations an Hour",
  "reservations_per_hour": 6,
  "date_created": "2020-05-06T16:24:36+03:00",
  "date_updated": "2020-05-06T16:24:36+03:00",
  "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/RateLimitProfiles/
↪RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "links": {
    "workspace": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  }
}

```

### 2.5.3 Get All RateLimitProfiles

**GET** /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/RateLimitProfiles

This endpoint retrieves all RateLimitProfiles

Table 27: Query Parameters

| Parameter           | Type    | Default | Description                     |
|---------------------|---------|---------|---------------------------------|
| <b>WorkspaceSID</b> | String  | ""      | The SID of the <i>Workspace</i> |
| <b>PageSize</b>     | Integer | 50      | Page size for paging            |
| <b>Page</b>         | Integer | 0       | Page number for paging          |



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```

    pageSize: 100
  }, function(err, rateLimitProfiles) {
    rateLimitProfiles.forEach(function(rateLimitProfile) {
      console.log(rateLimitProfile.sid);
      console.log(rateLimitProfile.friendlyName);
      console.log(rateLimitProfile.reservationsPerHour);
    });
  });
});

```

**C#**

```

using System;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // List All RateLimitProfiles
        var rateLimitProfiles = RateLimitProfileResource.Read(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            limit: 100,
            pageSize: 100
        );

        foreach (var rateLimitProfile in rateLimitProfiles)
        {
            // Print RateLimitProfile Content
            Console.WriteLine("SID           : " + rateLimitProfile.Sid);
            Console.WriteLine("FriendlyName       : " + rateLimitProfile.FriendlyName);
            Console.WriteLine("ReservationPerHour: " + rateLimitProfile.
↵ReservationPerHour);
        }
    }
}

```

The above command returns JSON structured like this:

```

{
  "meta": {
    "page_size": 50,
    "page": 0,
    "first_page_url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↵WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/RateLimitProfiles?Page=0&PageSize=50",
    "previous_page_url": null,
    "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↵WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/RateLimitProfiles?Page=0&PageSize=50",
    "key": "rate_limit_profiles",
    "next_page_url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↵WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/RateLimitProfiles?Page=1&PageSize=50"
  },
  "rate_limit_profiles": [
    {

```

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```

    "sid": "RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "friendly_name": "my rate limit profile for 6 reservations an Hour",
    "reservations_per_hour": 6,
    "date_created": "2020-05-06T16:24:36+03:00",
    "date_updated": "2020-05-06T16:24:36+03:00",
    "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/RateLimitProfiles/
↪RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "links": {
      "workspace": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
    }
  }
]
}

```

## 2.5.4 Fetch a RateLimitProfile

**GET** /v1/rindap-rest-gw/Workspaces/{WorkspaceSid}/RateLimitProfiles/{RateLimitProfileSID}

This endpoint fetches a single RateLimitProfile with all Its details

Table 28: Query Parameters

| Parameter                  | Type   | Default | Description                     |
|----------------------------|--------|---------|---------------------------------|
| <b>WorkspaceSID</b>        | String | ""      | The SID of the <i>Workspace</i> |
| <b>RateLimitProfileSID</b> | String | ""      | The SID of the RateLimitProfile |

## Example code pieces using SDKs

### Shell

```

curl -X GET https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
/RateLimitProfiles/RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"

```

### Java

```

// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.RateLimitProfile;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");
    }
}

```

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```

        RateLimitProfiles rl = RateLimitProfile
            .fetcher("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
↪ "RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
            .fetch();

        System.out.println(rl);
    }
}

```

## Python

```

from rindap.rest import Client
from rindap.rest import Rindap

client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
rate_limit_profile = workspace.rate_limit_profiles.get(
↪ 'RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx').fetch()
print("RateLimitProfileSid: {}".format(rate_limit_profile.sid))
print("FriendlyName: {}".format(rate_limit_profile.friendly_name))

```

## JS

```

var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Get a ratelimit with SID
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
.rateLimitProfiles("RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
.fetch(function(err, rateLimitProfile) {
    console.log(rateLimitProfile.sid);
    console.log(rateLimitProfile.friendlyName);
    console.log(rateLimitProfile.reservationsPerHour);
});

```

## C#

```

using System;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Get a RateLimitProfile with SID
        var rateLimitProfile = RateLimitProfileResource.Fetch(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            pathSid: "RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
        );
    }
}

```

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```

// Print RateLimitProfile Content
Console.WriteLine("SID           : " + rateLimitProfile.Sid);
Console.WriteLine("FriendlyName     : " + rateLimitProfile.FriendlyName);
Console.WriteLine("ReservationsPerHour: " + rateLimitProfile.
↪ReservationsPerHour);
    }
}

```

The above command returns JSON structured like this:

```

{
  "sid": "RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "friendly_name": "my rate limit profile for 6 reservations an Hour",
  "reservations_per_hour": 6,
  "date_created": "2020-05-06T16:24:36+03:00",
  "date_updated": "2020-05-06T16:24:36+03:00",
  "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/RateLimitProfiles/
↪RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "links": {
    "workspace": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  }
}

```

### 2.5.5 Update a RateLimitProfile

PUT /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/RateLimitProfiles/{RateLimitProfileSID}

**Warning:** When you update the *reservations\_per\_hour* field , all the Workers with this RateLimitProfile will be affected immediately, Thus receiving Reservations according to this new value.

Table 29: Query Parameters

| Parameter                  | Type    | Default | Description   |
|----------------------------|---------|---------|---|
| <b>WorkspaceSID</b>        | String  | ""      | The SID of the Workspace with the Rate Limit Profile to update  |
| <b>RateLimitProfileSID</b> | String  | ""      | The SID of the Rate Limit Profile to be updated   |
| <b>FriendlyName</b>        | String  | ""      | (optional) Human readable friendly name. It can be 512 characters long  |
| <b>ReservationsPerHour</b> | Integer | ""      | (optional) The maximum number of Reservations that can be created hourly, for a Worker with this RateLimitProfile |

### Example code pieces using SDKs

#### Shell

```
curl -X PUT https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
/RateLimitProfiles/RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
--data-urlencode 'FriendlyName=my newly named rate limit profile' \
--data-urlencode 'ReservationsPerHour=30' \
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"
```

## Java

```
// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.RateLimitProfile;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        RateLimitProfile rl = RateLimitProfile
            .updater("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
↳"RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
            .setFriendlyName("my newly named rate limit profile")
            .setReservationsPerHour(30)
            .update();

        System.out.println(rl);
    }
}
```

## Python

```
from rindap.rest import Client
from rindap.rest import Rindap

client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

workspace = rindap.workspaces.get("WSb9d8cf8597f64f77a45666c4c0263862")
rate_limit_profile_fetcher = workspace.rate_limit_profiles.get(
↳'RL8e22315c14294c749db7eee2d9d7bc27')
rate_limit_profile = rate_limit_profile_fetcher.update(friendly_name="New New Rate_
↳Limit", reservation_per_hour=9)
print("RateLimitProfileSid: {}".format(rate_limit_profile.sid))
print("FriendlyName: {}".format(rate_limit_profile.friendly_name))
```

## JS

```
var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Update a ratelimit with SID
```

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```

rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
.rateLimitProfiles("RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
.update({
  friendlyName: "New Friendly Name",
  reservationsPerHour: 7
}, function(err, rateLimitProfile) {
  console.log(rateLimitProfile.sid);
  console.log(rateLimitProfile.friendlyName);
  console.log(rateLimitProfile.reservationsPerHour);
});

```

**C#**

```

using System;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program
{
  static void Main(string[] args)
  {
    // Authenticate
    RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

    // Update RateLimitProfile
    var rateLimitProfile = RateLimitProfileResource.Update(
      pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      pathSid: "RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      friendlyName: "New Friendly Name",
      reservationsPerHour: 6
    );

    // Print RateLimitProfile Content
    Console.WriteLine("SID           : " + rateLimitProfile.Sid);
    Console.WriteLine("FriendlyName      : " + rateLimitProfile.FriendlyName);
    Console.WriteLine("ReservationPerHour: " + rateLimitProfile.
↵ReservationPerHour);
  }
}

```

The above command returns JSON structured like this:

```

{
  "sid": "RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "friendly_name": "my newly named rate limit profile",
  "reservations_per_hour": 30,
  "date_created": "2020-05-06T16:24:36+03:00",
  "date_updated": "2020-05-06T16:24:36+03:00",
  "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↵WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/RateLimitProfiles/
↵RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "links": {
    "workspace": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↵WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  }
}

```

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}

## 2.5.6 Delete a RateLimitProfile

**DELETE** /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/RateLimitProfiles/{RateLimitProfileSID}

**Warning:** When you DELETE a RateLimitProfile , all the Workers with this RateLimitProfile will be affected immediately, Thus receiving Reservations with NO LIMITS

Table 30: Query Parameters

| Parameter                  | Type   | Default | Description  |
|----------------------------|--------|---------|--|
| <b>WorkspaceSID</b>        | String | ""      | The SID of the Workspace with the Rate Limit Profile |
| <b>RateLimitProfileSID</b> | String | ""      | The SID of the Rate Limit Profile                    |

### Example code pieces using SDKs

#### Shell

```
curl -X DEL https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
/RateLimitProfiles/RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"
```

#### Java

```
// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.RateLimitProfile;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        RateLimitProfile.deleter("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
↪"RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
            .delete();
    }
}
```

#### Python

```
from rindap.rest import Client
from rindap.rest import Rindap

client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
```

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```
rindap = Rindap(client)

workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
if workspace.rate_limit_profiles.get('RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx').delete():
    print("RateLimitProfile has been deleted!")
```

**JS**

```
var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Delete a ratelimit with SID
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
.rateLimitProfiles("RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
.remove();
```

**C#**

```
using System;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Update RateLimitProfile
        var isDeleted = RateLimitProfileResource.Delete(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            pathSid: "RLxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
        );

        if (isDeleted)
        {
            Console.WriteLine("RateLimitProfile has been deleted!");
        }
    }
}
```

## 2.6 Task Queues

TaskQueue helps the process management system to manage and control how tasks are executed and determine capable Workers to accomplish those Tasks. Tasks are evaluated through predefined Workflow and based on the evaluation results, Tasks are given to TaskQueue to handle by an appropriate Worker.

## 2.6.1 TaskQueue Properties

Table 31: Properties

| field                      | description  |
|----------------------------|--|
| <b>sid</b>                 | The unique string that we created to identify the TaskQueue resource.                      |
| <b>account_sid</b>         | The SID of the Account that created the TaskQueue resource.                                |
| <b>workspace_sid</b>       | The SID of the Workspace that contains the TaskQueue                                       |
| <b>friendly_name</b>       | The string that you assigned to describe the resource.                                     |
| <b>worker_requirements</b> | A JSON String for the JsonLogic rule , deciding the Worker relations for the TaskQueue     |
| <b>date_created</b>        | The date and time in GMT when the resource was created, specified in ISO 8601 format.      |
| <b>date_updated</b>        | The date and time in GMT when the resource was last updated, specified in ISO 8601 format. |
| <b>url</b>                 | The absolute URL of the RateLimitProfile resource  |
| <b>links</b>               | The URLs of related resources.   |

### TaskQueue worker requirements

A TaskQueue's worker requirements is a JsonLogic rule, used to simply and accurately represent the necessary features or skills required for handling a Task in this TaskQueue

For example , a worker with attributes such as the one below:

```
{
  "name" : "john doe"
  "age": 44
  "department" : "support"
  "location": "Utah"
}
```

would be receiving Tasks from a TaskQueue with worker\_requirements as such:

```
{
  "==": [{"var": "department"}, "support"]
}
```

Because the requirement rules for the TaskQueue would be matching the attributes of the Worker.

---

### Note: Understanding the “requirements vs attributes” model is fundamental.

With this **requirements vs attributes** model, you do not need to point out which TaskQueues a Worker needs to receive Tasks from or which Workers are suitable for the Tasks in a TaskQueue.

When you create a Worker , the Worker will automatically be receiving Tasks from appropriate TaskQueues. And when attributes of a Worker are updated, the Workers related TaskQueues are updated accordingly.

The same goes for TaskQueues : When requirements for a TaskQueue are updated , the related Workers for the TaskQueue are updated.

---

## 2.6.2 Create A TaskQueue

POST /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/TaskQueues



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```
task_queue = workspace.task_queues.create("My new task queue")

# Print task queue content
print("TaskQueue FriendlyName: {}".format(task_queue.friendly_name))
print("TaskQueue Sid: {}".format(task_queue.sid))
```

**JS**

```
var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Create a task queue
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
.taskQueues
.create({
  friendlyName: "Friendly Name"
}, function(err, taskQueue) {
  console.log(taskQueue.sid);
  console.log(taskQueue.friendlyName);
});
```

**C#**

```
using System;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program
{
  static void Main(string[] args)
  {
    // Authenticate
    RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

    // Create a taskQueue
    var taskQueue = TaskQueueResource.Create(
      pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      friendlyName: "New Task Queue"
    );

    // Print taskQueue content
    Console.WriteLine("TaskQueue Sid : " + taskQueue.Sid);
    Console.WriteLine("Friendly Name : " + taskQueue.FriendlyName);
  }
}
```

The above command returns JSON structured like this:

```
{
  "sid": "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "friendly_name": "my test task queue",
  "date_created": "2020-05-04T09:38:26+03:00",
```

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```

from rindap.rest import Client
from rindap.rest import Rindap

# Authenticate
client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

# Get Workspace with workspace_sid
workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# Get all task queues
task_queue_fetcher = workspace.task_queues.list(limit=10, page_size=5)
for task_queue in task_queue_fetcher:
    # Print task queue content
    print("TaskQueue FriendlyName: {}".format(task_queue.friendly_name))
    print("TaskQueue Sid: {}".format(task_queue.sid))

```

## JS

```

var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// List all task queues
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
.taskQueues
.list({
  limit: 100,
  pageSize: 100
}, function(err, taskQueues) {
  taskQueues.forEach(function(taskQueue) {
    console.log(taskQueue.sid);
    console.log(taskQueue.friendlyName);
  })
});

```

## C#

```

using System;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // List all taskQueues
        var taskQueues = TaskQueueResource.Read(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            limit: 100,
            pageSize: 100
        );
    }
}

```

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```

    foreach (var taskQueue in taskQueues)
    {
        // Print taskQueue content
        Console.WriteLine("TaskQueue Sid : " + taskQueue.Sid);
        Console.WriteLine("Friendly Name : " + taskQueue.FriendlyName);
    }
}

```

The above command returns JSON structured like this:

```

{
  "meta": {
    "page_size": 50,
    "page": 0,
    "first_page_url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/TaskQueues?Page=0&PageSize=50",
    "previous_page_url": null,
    "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/TaskQueues?Page=0&PageSize=50",
    "key": "task_queues",
    "next_page_url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/TaskQueues?Page=1&PageSize=50"
  },
  "task_queues": [
    {
      "sid": "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "friendly_name": "my test task queue",
      "date_created": "2020-05-04T09:38:26+03:00",
      "date_updated": "2020-05-04T09:38:26+03:00",
      "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/TaskQueues/WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "links": {
        "workspace": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
      }
    }
  ]
}

```

## 2.6.4 Fetch a TaskQueue

**GET** /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/TaskQueues/{TaskQueueSID}

This endpoint fetches a single TaskQueue with all its details

Table 34: Query Parameters

| Parameter           | Type   | Default | Description                     |
|---------------------|--------|---------|---------------------------------|
| <b>WorkspaceSID</b> | String | ""      | The SID of the <i>Workspace</i> |
| <b>TaskQueueSID</b> | String | ""      | The SID of the TaskQueue        |

## Example code pieces using SDKs

### Shell

```
curl -X GET https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
/TaskQueues/WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"
```

### Java

```
// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.TaskQueue;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        TaskQueue tq = TaskQueue
            .fetcher("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
↪"WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
            .fetch();

        System.out.println(tq);
    }
}
```

### Python

```
from rindap.rest import Client
from rindap.rest import Rindap

# Authenticate
client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

# Get Workspace with workspace_sid
workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# Get task with sid
task_queue = workspace.task_queues.get("WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx").fetch()

# Print task queue content
print("TaskQueue FriendlyName: {}".format(task_queue.friendly_name))
print("TaskQueue Sid: {}".format(task_queue.sid))
```

### JS

```
var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");
```

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```
// Get a task queues with SID
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
.taskQueues("WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
.fetch(function(err, taskQueue) {
  console.log(taskQueue.sid);
  console.log(taskQueue.friendlyName);
});
```

**C#**

```
using System;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program
{
  static void Main(string[] args)
  {
    // Authenticate
    RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

    // Get a taskQueue with SID
    var taskQueue = TaskQueueResource.Fetch(
      pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      pathSid: "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
    );

    // Print taskQueue content
    Console.WriteLine("TaskQueue Sid : " + taskQueue.Sid);
    Console.WriteLine("Friendly Name : " + taskQueue.FriendlyName);
  }
}
```

The above command returns JSON structured like this:

```
{
  "sid": "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "friendly_name": "my test task queue",
  "date_created": "2020-05-04T09:38:26+03:00",
  "date_updated": "2020-05-04T09:38:26+03:00",
  "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/TaskQueues/WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "links": {
    "workspace": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  }
}
```

**2.6.5 Update a TaskQueue**

```
PUT /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/TaskQueues/{TaskQueueSID}
```

Table 35: Query Parameters

| Parameter                 | Type        | Default           | Description  |
|---------------------------|-------------|-------------------|--|
| <b>WorkspaceSID</b>       | String      | ""                | The SID of the <i>Workspace</i>  |
| <b>TaskQueueSID</b>       | String      | ""                | The SID of the <i>TaskQueue</i>  |
| <b>FriendlyName</b>       | String      | ""                | Human readable friendly name. It can be 512 characters long  |
| <b>WorkerRequirements</b> | JSON Object | { "==" (Optional) | A URL-encoded JSON string , representing a JsonLogic rule for deciding the Worker relations for the <i>TaskQueue</i> |

## Example code pieces using SDKs

### Shell

```
curl -X PUT https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
/TaskQueues/WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
--data-urlencode 'FriendlyName=my new name of task queue' \
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"
```

### Java

```
// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.TaskQueue;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        TaskQueue tq = TaskQueue
            .updater("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
↳"WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
            .setFriendlyName("my new name of task queue")
            .update();

        System.out.println(tq);
    }
}
```

### Python

```
from rindap.rest import Client
from rindap.rest import Rindap

# Authenticate
client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

# Get Workspace with workspace_sid
workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
```

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```
# Get task with sid
task_queue = workspace.task_queues.get("WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
updated_task_queue = task_queue.update(friendly_name="My Task Queue New Name")

# Print task queue content
print("TaskQueue FriendlyName: {}".format(updated_task_queue.friendly_name))
print("TaskQueue Sid: {}".format(updated_task_queue.sid))
```

**JS**

```
var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Update a task queues with SID
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
.taskQueues("WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
.update({
  friendlyName: "New Friendly Name"
}, function(err, taskQueue) {
  console.log(taskQueue.sid);
  console.log(taskQueue.friendlyName);
});
```

**C#**

```
using System;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Update a taskQueue with SID
        var taskQueue = TaskQueueResource.Update(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            pathSid: "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            friendlyName: "New Friendly Name"
        );

        // Print taskQueue content
        Console.WriteLine("TaskQueue Sid : " + taskQueue.Sid);
        Console.WriteLine("Friendly Name : " + taskQueue.FriendlyName);
    }
}
```

The above command returns JSON structured like this:

```
{
  "sid": "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
```

(continues on next page)

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```

"workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
"friendly_name": "my new name of task queue",
"date_created": "2020-05-04T09:38:26+03:00",
"date_updated": "2020-05-04T09:38:26+03:00",
"url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/TaskQueues/WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
"links": {
  "workspace": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
}
}

```

## 2.6.6 Delete a TaskQueue

**DELETE** /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/TaskQueues/{TaskQueueSID}

Table 36: Query Parameters

| Parameter           | Type   | Default | Description                     |
|---------------------|--------|---------|---------------------------------|
| <b>WorkspaceSID</b> | String | ""      | The SID of the <i>Workspace</i> |
| <b>TaskQueueSID</b> | String | ""      | The SID of the <i>TaskQueue</i> |

### Example code pieces using SDKs

#### Shell

```

curl -X DEL https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
/TaskQueues/WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"

```

#### Java

```

// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
import com.rindap.rest.v1.workspace.TaskQueue;

public class Example {
  // Find your Account Sid and Token at rindap.com/console

  public static void main(String[] args) {

    Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

    TaskQueue.deleter("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
↳"WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
      .delete();
  }
}

```

#### Python

```
from rindap.rest import Client
from rindap.rest import Rindap

# Authenticate
client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

# Get Workspace with workspace_sid
workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# Get task with sid and delete it
if workspace.task_queues.get("WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx").delete():
    print("TaskQueue has been deleted!")
```

## JS

```
var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Delete a task queues with SID
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
.taskQueues("WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
.remove();
```

## C#

```
using System;
using Rindap;
using Rindap.Rest.V1.Workspace;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Delete a taskQueue with SID
        var isDeleted = TaskQueueResource.Delete(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            pathSid: "WQxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
        );

        if (isDeleted)
        {
            Console.WriteLine("TaskQueue has been deleted!");
        }
    }
}
```

## 2.7 Reservations

Rindap creates a Reservation subresource whenever a Task is reserved for a Worker. Rindap will provide the details of this Reservation subresource in the Assignment Callback HTTP request it makes to your application server. You can read more about [Reservations here](#)

You have multiple options for handling a Reservation:

- Respond to the Assignment Callback with an Assignment Instruction.
- Call the REST API with how to handle it.

You can read more about [Reservations here](#)

### 2.7.1 Reservation Properties

Table 37: Properties

| field                     | description  |
|---------------------------|--|
| <b>sid</b>                | The unique string that we created to identify the Reservation resource.                    |
| <b>account_sid</b>        | The SID of the Account   |
| <b>workspace_sid</b>      | The SID of the Workspace   |
| <b>worker_sid</b>         | The SID of the reserved Worker resource  |
| <b>task_sid</b>           | The SID of the reserved Task resource  |
| <b>reservation_status</b> | The current status of the reservation. Can be: pending, accepted, rejected.                |
| <b>date_created</b>       | The date and time in GMT when the resource was created, specified in ISO 8601 format.      |
| <b>date_updated</b>       | The date and time in GMT when the resource was last updated, specified in ISO 8601 format. |
| <b>url</b>                | The absolute URL of the RateLimitProfile resource  |
| <b>links</b>              | The URLs of related resources.   |

### Accessing Reservations

There are 3 ways to access a Reservation resource:

- For accessing a certain Reservation with Its SID , You can access It through Its Task or Worker.
- For accessing all Reservations of a certain Task, you need to access through the Task
- For accessing all Reservations of a certain Worker, you need to access through the Worker

### 2.7.2 Through a Task: Fetching a Reservation

**GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Tasks/{TaskSID}/Reservations/{ReservationID}**

This endpoint fetches a single Reservation with all its details

Table 38: Query Parameters

| Parameter             | Type   | Default | Description                     |
|-----------------------|--------|---------|---------------------------------|
| <b>WorkspaceSID</b>   | String | ""      | The SID of the <i>Workspace</i> |
| <b>TaskSID</b>        | String |         | The SID of the Task             |
| <b>ReservationSID</b> | String |         | The SID of the Reservation      |

## Example code pieces using SDKs

### Shell

```
curl -X GET https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳ WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
/Tasks/WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Reservations/
↳ WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"
```

### Java

```
// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
// IMPORTING from com.rindap.rest.v1.workspace.task package
import com.rindap.rest.v1.workspace.task.Reservation;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        Reservation r=Reservation.fetcher(
            "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            "WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx", // Task SID
            "WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
            .fetch();

        System.out.println(r);
    }
}
```

### Python

```
from rindap.rest import Client
from rindap.rest import Rindap

# Authenticate
client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)
```

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```
# Get Workspace with workspace_sid
workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# Get Task with SID
task = workspace.tasks.get("WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx").fetch()

# Get reservation with SID
reservation = task.reservations.get("WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx").fetch()
print("Reservation SID: {}".format(reservation.sid))
print("Reservation Status: {}".format(reservation.reservation_status))
```

**JS**

```
var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Get a reservation with task and reservation SID
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
  .tasks("WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
  .reservations("WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
  .fetch(function(err, reservation) {
    console.log(reservation.sid);
    console.log(reservation.reservationStatus);
  });
```

**C#**

```
using System;
using Rindap;
using Rindap.Rest.V1.Workspace.Task;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Fetch a reservation with SID
        var reservation = ReservationResource.Fetch(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            pathTaskSid: "WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            pathSid: "WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
        );

        // Print Reservation Content
        Console.WriteLine("Reservation SID : " + reservation.Sid);
        Console.WriteLine("Reservation Status: " + reservation.ReservationStatus);
    }
}
```

The above command returns JSON structured like this:

```
{
  "sid": "WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "worker_sid": "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "task_sid": "WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "reservation_status": "rejected",
  "date_created": "2020-04-23T13:47:15+03:00",
  "date_updated": "2020-04-23T13:49:42+03:00",
  "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Tasks/WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/
↳Reservations/WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "links": {
    "task": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Tasks/WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "worker": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "workspace": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  }
}
```

### 2.7.3 Through a Task: Listing All Reservations of A Task

**GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Tasks/{TaskSID}/Reservations**

This endpoint retrieves all Reservations of a Task

Table 39: Query Parameters

| Parameter                | Type   | Default | Description   |
|--------------------------|--------|---------|---|
| <b>WorkspaceSID</b>      | String | ""      | The SID of the <i>Workspace</i>   |
| <b>TaskSID</b>           | String |         | The SID of the Task   |
| <b>ReservationStatus</b> | String |         | (optional) The current status of the reservation. Can be: pending, accepted, rejected, completed. Can be used for filtering |
| <b>WorkerSid</b>         | String |         | (optional) The SID of the reserved Worker. Can be used to filter the Reservations by Worker                                 |

#### Example code pieces using SDKs

##### Shell

```
curl -X GET https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
/Tasks/WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Reservations
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"
```

##### Java

```
// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
// IMPORTING from com.rindap.rest.v1.workspace.task package
import com.rindap.rest.v1.workspace.task.Reservation;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        Reservation.Reader reader = Reservation.reader(
            "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            "WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
            .setReservationStatus(Reservation.Status.ACCEPTED)
            ;

        for(Reservation r:reader.read())
            System.out.println(r);
    }
}
```

## Python

```
from rindap.rest import Client
from rindap.rest import Rindap

# Authenticate
client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

# Get Workspace with workspace_sid
workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# Get Task with SID
task = workspace.tasks.get("WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx").fetch()

# Get all reservation
reservations = task.reservations.list(limit=10, page_size=100)
for reservation in reservations:
    # Print Content of reservation
    print("Reservation SID: {}".format(reservation.sid))
    print("Reservation Status: {}".format(reservation.reservation_status))
```

## JS

```
var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// List all reservations
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
    .tasks("WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
```

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```
.reservations
.list({
  limit: 100,
  pageSize: 100
}, function(err, reservations) {
  reservations.forEach(function(reservation) {
    console.log(reservation.sid);
    console.log(reservation.reservationStatus);
  });
});
```

**C#**

```
using System;
using Rindap;
using Rindap.Rest.V1.Workspace.Task;

class Program
{
  static void Main(string[] args)
  {
    // Authenticate
    RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

    // Get all reservations
    var reservations = ReservationResource.Read(
      pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      pathTaskSid: "WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      limit: 100,
      pageSize: 100
    );

    foreach (var reservation in reservations)
    {
      // Print Reservation Content
      Console.WriteLine("Reservation SID : " + reservation.Sid);
      Console.WriteLine("Reservation Status: " + reservation.ReservationStatus);
    }
  }
}
```

The above command returns JSON structured like this:

```
{
  "meta": {
    "page_size": 2147483647,
    "page": 0,
    "first_page_url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Tasks/WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/
↪Reservations?Page=0&PageSize=2147483647",
    "previous_page_url": null,
    "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Tasks/WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/
↪Reservations?Page=0&PageSize=2147483647",
    "key": "",
    "next_page_url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Tasks/WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/
↪Reservations?Page=1&PageSize=2147483647"
```

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```

},
"reservations": [
  {
    "sid": "WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "worker_sid": "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "task_sid": "WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "reservation_status": "rejected",
    "date_created": "2020-04-23T13:47:15+03:00",
    "date_updated": "2020-04-23T13:49:42+03:00",
    "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Tasks/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/
↪Reservations/WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "links": {
      "task": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Tasks/WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "worker": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "workspace": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
    }
  }
]
}

```

## 2.7.4 Through a Task: Updating a reservation

**PUT** /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Tasks/{TaskSID}/Reservations/{ReservationID}

---

**Note:** You can only update a Reservation while It's at the *pending* status

---

You can update a Reservation by updating Its `ReservationStatus`.

- **accepted** - use this for accepting a reservation, which means that the Worker will process the Task
- **rejected** - use this for rejecting a reservation. At this situation, Rindap will reject the Reservation and try to assign the Task to another available Worker
- **completed** - This is a special status setting, a shortcut, for saying that the Reservation is accepted and the Task is complete

**After receiving this status,**

- the Reservation will be updated as *accepted*
- the Task will be updated as *completed*
- the Worker will be updated as *idle* and will be available for Reservations

This is useful for Workers with short-lived functions such as a WebService endpoint where your application does whatever needed to be done, instantaneously

Table 40: Query Parameters

| Parameter                | Type   | Default | Description   |
|--------------------------|--------|---------|---|
| <b>WorkspaceSID</b>      | String |         | • The SID of the <i>Workspace</i>   |
| <b>TaskSID</b>           | String |         | • The SID of the Task   |
| <b>ReservationStatus</b> | String |         | • the status of the reservation. Can be “accepted”, “rejected” or “completed” |
| <b>ReservationSID</b>    | String |         | • The SID of the Reservation  |

## Example code pieces using SDKs

### Shell

```
curl -X PUT https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
/Tasks/WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Reservations/
↳WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
--data-urlencode 'ReservationStatus=accepted' \
--data-urlencode 'AssignmentStatus=pending' \
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"
```

### Java

```
// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
// IMPORTING from com.rindap.rest.v1.workspace.task package
import com.rindap.rest.v1.workspace.task.Reservation;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        Reservation r=Reservation
        .updater(
            "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            "WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx", // Task SID
            "WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
        .setReservationStatus(Reservation.Status.ACCEPTED)
        .update();

        System.out.println(r);
    }
}
```

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```
}
}
```

**Python**

```
from rindap.rest import Client
from rindap.rest import Rindap

# Authenticate
client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

# Get Workspace with workspace_sid
workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# Get Task with SID
task = workspace.tasks.get("WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx").fetch()

# Get reservation with SID
reservation = task.reservations.get("WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx").fetch()

updated_reservation = reservation.update(reservation_status='rejected')
print("Reservation SID: {}".format(updated_reservation.sid))
print("Reservation Status: {}".format(updated_reservation.reservation_status))
```

**JS**

```
var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Update a reservation with SID
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
  .tasks("WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
  .reservations("WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
  .update({
    reservationStatus: 'rejected'
  }, function(err, reservation) {
    console.log(err);
    console.log(reservation.sid);
  });
```

**C#**

```
using System;
using Rindap;
using Rindap.Rest.V1.Workspace.Task;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Fetch a reservation with SID
```

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```

var reservation = ReservationResource.Update(
    pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    pathTaskSid: "WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    pathSid: "WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    reservationStatus: ReservationResource.StatusEnum.Rejected
);

// Print Reservation Content
Console.WriteLine("Reservation SID : " + reservation.Sid);
Console.WriteLine("Reservation Status: " + reservation.ReservationStatus);
}

```

The above command returns JSON structured like this:

```

{
  "sid": "WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "worker_sid": "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "task_sid": "WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "reservation_status": "rejected",
  "date_created": "2020-04-23T13:47:15+03:00",
  "date_updated": "2020-04-23T13:49:42+03:00",
  "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
  ↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Tasks/WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/
  ↳Reservations/WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "links": {
    "task": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
    ↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "worker": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
    ↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "workspace": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
    ↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  }
}

```

### 2.7.5 Through a Worker: Fetching a Reservation

**GET** /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workers/{WorkerSID}/Reservations/{ReservationSID}

This endpoint fetches a single Reservation with all its details

Table 41: Query Parameters

| Parameter             | Type   | Default | Description                     |
|-----------------------|--------|---------|---------------------------------|
| <b>WorkspaceSID</b>   | String |         | The SID of the <i>Workspace</i> |
| <b>WorkerSID</b>      | String |         | The SID of the Worker           |
| <b>ReservationSID</b> | String |         | The SID of the Reservation      |

## Example code pieces using SDKs

### Shell

```
curl -X GET https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
/Workers/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Reservations/
↳WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"
```

### Java

```
// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;

// IMPORTING from com.rindap.rest.v1.workspace.worker package
import com.rindap.rest.v1.workspace.worker.Reservation;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        Reservation r=Reservation.fetcher(
            "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx", // Worker SID
            "WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
            .fetch();

        System.out.println(r);
    }
}
```

### Python

```
from rindap.rest import Client
from rindap.rest import Rindap

# Authenticate
client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

# Get Workspace with workspace_sid
workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# Get Worker with SID
worker = workspace.workers.get("WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx").fetch()

# Get reservation with SID
reservation = worker.reservations.get("WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx").fetch()
print("Reservation SID: {}".format(reservation.sid))
print("Reservation Status: {}".format(reservation.reservation_status))
```

### JS

```

var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Get a reservation with worker and reservation SID
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
  .workers("WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
  .reservations("WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
  .fetch(function(err, reservation) {
    console.log(reservation.sid);
  });

```

**C#**

```

using System;
using Rindap;
using Rindap.Rest.V1.Workspace.Worker;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Fetch a reservation with SID
        var reservation = ReservationResource.Fetch(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            pathWorkerSid: "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            pathSid: "WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
        );

        // Print Reservation Content
        Console.WriteLine("Reservation SID : " + reservation.Sid);
        Console.WriteLine("Reservation Status: " + reservation.ReservationStatus);
    }
}

```

The above command returns JSON structured like this:

```

{
  "sid": "WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "worker_sid": "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "task_sid": "WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "reservation_status": "rejected",
  "date_created": "2020-04-23T13:47:15+03:00",
  "date_updated": "2020-04-23T13:49:42+03:00",
  "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/
↳Reservations/WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "links": {
    "task": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Tasks/WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "worker": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",

```

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```

    "workspace": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  }
}

```

## 2.7.6 Through a Worker: Listing All Reservations of A Worker

**GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workers/{WorkerSID}/Reservations**

This endpoint retrieves all Reservations of a Worker

Table 42: Query Parameters

| Parameter                | Type   | Default | Description  |
|--------------------------|--------|---------|--|
| <b>WorkspaceSID</b>      | String |         | The SID of the <i>Workspace</i>  |
| <b>WorkerSID</b>         | String |         | The SID of the Worker  |
| <b>ReservationStatus</b> | String |         | (optional) The current status of the reservation. Can be: pending, accepted, rejected. Can be used for filtering |

### Example code pieces using SDKs

#### Shell

```

curl -X GET https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
/Workers/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Reservations
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"

```

#### Java

```

// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
//IMPORTING Reservation from com.rindap.rest.v1.workspace.worker
import com.rindap.rest.v1.workspace.worker.Reservation;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        Reservation.Reader reader = Reservation.reader(
            "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",

```

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```

        "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx");

    for(Reservation r:reader.read())
        System.out.println(r);
    }
}

```

## Python

```

from rindap.rest import Client
from rindap.rest import Rindap

# Authenticate
client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

# Get Workspace with workspace_sid
workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# Get Worker with SID
worker = workspace.workers.get("WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx").fetch()

# Get all reservation
reservations = worker.reservations.list(limit=10, page_size=100)
for reservation in reservations:
    # Print Content of reservation
    print("Reservation SID: {}".format(reservation.sid))
    print("Reservation Status: {}".format(reservation.reservation_status))

```

## JS

```

var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// List all reservations
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
    .workers("WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
    .reservations
    .list({
        limit: 100,
        pageSize: 100
    }, function(err, reservations) {
        reservations.forEach(function(reservation) {
            console.log(reservation.sid);
            console.log(reservation.reservationStatus);
        });
    });

```

## C#

```

using System;
using Rindap;
using Rindap.Rest.V1.Workspace.Worker;

class Program

```

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```

{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // List all reservations
        var reservations = ReservationResource.Read(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            pathWorkerSid: "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            limit: 100,
            pageSize: 100
        );

        foreach (var reservation in reservations)
        {
            // Print Reservation Content
            Console.WriteLine("Reservation SID : " + reservation.Sid);
            Console.WriteLine("Reservation Status: " + reservation.ReservationStatus);
        }
    }
}

```

The above command returns JSON structured like this:

```

{
  "meta": {
    "page_size": 2147483647,
    "page": 0,
    "first_page_url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/
↪Reservations?Page=0&PageSize=2147483647",
    "previous_page_url": null,
    "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/
↪Reservations?Page=0&PageSize=2147483647",
    "key": "",
    "next_page_url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/
↪Reservations?Page=1&PageSize=2147483647"
  },
  "reservations": [
    {
      "sid": "WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "worker_sid": "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "task_sid": "WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "reservation_status": "rejected",
      "date_created": "2020-04-23T13:47:15+03:00",
      "date_updated": "2020-04-23T13:49:42+03:00",
      "url": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/
↪Reservations/WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
      "links": {
        "task": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Tasks/WTxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
        "worker": "https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↪WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Workers/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
      }
    }
  ]
}

```

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```
curl -X PUT https://api.rindap.com/v1/rindap-rest-gw/Workspaces/
↳WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
/Workers/WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx/Reservations/
↳WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx \
--data-urlencode 'ReservationStatus=accepted' \
-H "Authorization: Bearer {YOUR_ACCOUNT_SID}.{YOUR_AUTH_TOKEN}" \
-H "Content-Type:application/x-www-form-urlencoded"
```

## Java

```
// Install the Java helper library from rindap.com/docs/java/install

import com.rindap.Rindap;
//IMPORTING Reservation from package com.rindap.rest.v1.workspace.worker
import com.rindap.rest.v1.workspace.worker.Reservation;

public class Example {
    // Find your Account Sid and Token at rindap.com/console

    public static void main(String[] args) {

        Rindap.init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        Reservation r=Reservation
            .updater(
                "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
                "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx", // Worker SID
                "WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
            .setReservationStatus(Reservation.Status.ACCEPTED)
            .update();

        System.out.println(r);
    }
}
```

## Python

```
from rindap.rest import Client
from rindap.rest import Rindap

# Authenticate
client = Client("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN")
rindap = Rindap(client)

# Get Workspace with workspace_sid
workspace = rindap.workspaces.get("WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")

# Get Worker with SID
worker = workspace.workers.get("WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx").fetch()

# Get reservation with SID
reservation = worker.reservations.get("WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx").fetch()

# Update Reservation
updated_reservation = reservation.update(reservation_status='rejected')
print("Reservation SID: {}".format(updated_reservation.sid))
print("Reservation Status: {}".format(updated_reservation.reservation_status))
```

## JS

```

var Rindap = require('rindap');

// Authenticate
var rindap = new Rindap("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

// Update a reservation with SID
rindap.workspaces('WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx')
  .workers("WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
  .reservations("WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx")
  .update({
    reservationStatus: 'rejected'
  }, function(err, reservation) {
    console.log(err);
    console.log(reservation.sid);
  });

```

## C#

```

using System;
using Rindap;
using Rindap.Rest.V1.Workspace.Worker;

class Program
{
    static void Main(string[] args)
    {
        // Authenticate
        RindapClient.Init("YOUR_ACCOUNT_SID", "YOUR_AUTH_TOKEN");

        // Update a reservation with SID
        var reservation = ReservationResource.Update(
            pathWorkspaceSid: "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            pathWorkerSid: "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            pathSid: "WRxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
            reservationStatus: ReservationResource.StatusEnum.Completed
        );

        // Print Reservation Content
        Console.WriteLine("Reservation SID : " + reservation.Sid);
        Console.WriteLine("Reservation Status: " + reservation.ReservationStatus);
    }
}

```

The above command returns JSON structured like this:

```

{
  "sid": "WKxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "account_sid": "ACxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "workspace_sid": "WSxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "queues": [
    "WQ00xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "WQ11xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "WQ22xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
  ],
  "activity": "idle",
  "available": true,

```

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---

## HTTP Routing Table

---

### /v1

|   |  |
|---|--|
|   | 34   |
| GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID},   | POST /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workers,   |
| 9   | 17   |
| GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/RateLimitProfiles,                                 | PUT /v1/rindap-rest-gw/Workspaces/{WorkspaceSID},  |
| 63  | 11   |
| GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/TaskQueues,  | PUT /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/RateLimitProfiles,                                    |
| 76  | 68   |
| GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Tasks,   | PUT /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/TaskQueues,   |
| 78  | 80   |
| GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Tasks,   | PUT /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Tasks,  |
| 51  | 56   |
| GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Tasks/{TaskSID},                                   | PUT /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/TaskQueues,   |
| 53  | 91   |
| GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Tasks/{TaskSID}/Reservations,                      | PUT /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Tasks/{TaskSID},                                      |
| 88  | 42   |
| GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Tasks/{TaskSID}/Reservations/{ReservationSID},     | PUT /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Tasks/{TaskSID}/Reservations,                         |
| 85  | 100  |
| GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workers,   | PUT /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workers,  |
| 37  | 28   |
| GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workers/{WorkerSID},                               | DELETE /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workers/{WorkerSID},                               |
| 40  | 14   |
| GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workers/{WorkerSID}/Reservations,                  | DELETE /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workers/{WorkerSID}/Reservations,                  |
| 97  | 71   |
| GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workers/{WorkerSID}/Reservations/{ReservationSID}, | DELETE /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workers/{WorkerSID}/Reservations/{ReservationSID}, |
| 94  | 83   |
| GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workflows,   | DELETE /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workers/{WorkerSID}/Reservations/{ReservationSID}, |
| 22  | 59   |
| GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/RateLimitProfiles/{RateLimitProfilesSID},          | DELETE /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workflows,   |
| 66  | 45   |
| GET /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workflows/{WorkflowsSID},                          | DELETE /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/RateLimitProfiles/{RateLimitProfilesSID},          |
| 25  | 31   |
| POST /v1/rindap-rest-gw/Workspaces/,  | 4  |
| POST /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/RateLimitProfiles,                                |  |
| 61  |  |
| POST /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/TaskQueues,                                       |  |
| 73  |  |
| POST /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Tasks,  |  |
| 48  |  |
| POST /v1/rindap-rest-gw/Workspaces/{WorkspaceSID}/Workers,  |  |

---