

Oracle® MICROS Labor Management
Scheduler RESTful API and Supporting Interfaces
Guide
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Preface

The Scheduler RESTful API is a Web service interface that allows Labor Management users to add and edit a schedule using a third party labor application, upload the schedule to Labor Management and then enforce the schedule at the point of clock in/out at the POS.

This document specifies the Scheduler RESTful API Web Service interface, its supporting Jobs interfaces, and all available calls.

Audience

This document is intended for developers and programmers creating and configuring third-party applications to interface with Labor Management.

Customer Support

To contact Oracle Customer Support, access the Support Portal at the following URL:

<https://iccp.custhelp.com/>

When contacting Customer Support, please provide the following:

Product version and program/module name

Functional and technical description of the problem (include business impact)

Detailed step-by-step instructions to re-create

Exact error message received and any associated log files

Screen shots of each step you take

Documentation

Product documentation is available on the Oracle Help Center at

<https://docs.oracle.com/en/industries/food-beverage/>

Revision History

Date	Description of Change
October 2017	Initial publication.
March 2018	Changed the <code>upload</code> response template to include the <code>failedSchedules</code> response, and added sample responses.
September 2018	- Updated REST HTTP header and security information. - Added information of REST API versioning.
October 2018	Added Authentication and Authorization section.
May 2019	Added supported Enterprise Back Office version information.

October 2021	Updated URL Param section.
September 2023	Updated guide title.
August 2024	Updated upload section.

1 Scheduler Web Service

Authorization and Authentication

When calling a web service, you pass the following parameters in the HTTP header:

Parameter	Value
Accept	Application/json
Username	<i>CORE_ORGANIZATION.externalAppUserName</i>
Password	<i>CORE_ORGANIZATION.externalAppPassword</i>

Starting with Enterprise Back Office 9.0 patch 17 and higher and 9.1 patch 4 and higher, if you are developing new REST APIs that follow Oracle REST standards, use an API token and password in the HTTP request header to authenticate client requests.

[Create API Users](#) explains how to create an API user to get the user name token and password.

The following table describes the header parameters for the new APIs:

Parameter	Value
username	API user token associated with the API user.
password	Password associated with the API user.
Content - Type	application/json

Create API Users

Authentication tokens for the API calls are generated when you create and save an API user. When an API call is made, the API uses the token along with a password that are included in the connection string to authenticate and authorize users making the calls. This combination of token and password also validates which locations the user is authorized to update.

1. In the portal, select **Admin**, select **Portal**, select **Users**, and then select **Users**.
2. Click **Add**.
3. Select **API User** and enter details for all mandatory fields.

Field Name	Description
Logon Name	The username that the user should use to log in to the portal.
Password	The password that the user should use to log in to the portal.
Display Name	The name that should show appear in the portal when the user is logged in.
Organization Level	The user's organization levels.
Email Address	The user's email address.

Active	Enabled by default. Disable this option if you want to deactivate the user.
--------	---

4. Click **Save**.
5. If you want to view a list of all API users, select **Show API Users** and click **Find All** in the User Administration overview page.

REST API Versioning

The new implementation of the Labor Management REST APIs follows Oracle REST standards. REST API calls include the API version in the root URL. Root URLs are formatted as follows:

```
https://www.hostname.com/rest/services/{version}/{api}
```

The path to the resource appears after the root URL. The version is highlighted in the following example API call:

```
https://www.hostname.com/rest/services/v1/locations/{locationRef}/employees
```

When the next version of the API is released, you can reference the new version in the call as follows:

```
https://www.hostname.com/rest/services/v2/locations/{locationRef}/employees
```

Get All API Versions

Use the GET method with the following URL to retrieve all versions of an API:

```
https://www.hostname.com/rest/services/
```

Sample Response

The following example shows the information returned in the JSON response:

```
{
  "count": 2,
  "items": [{
    "version": "v1",
    "lifecycle": "deprecated",
    "isLatest": false,
    "successor": "v2",
    "terminationDate": "2017-12-31",
    "links": [
      {"rel": "canonical",
       "href": "HTTPS://machine-name/rest/services/v1"},
      {"rel": "successor-version",
       "href": "HTTPS://machine-name/rest/services/v2"}
    ]
  },
  {
    "version": "v2",
    "lifecycle": "active",
    "isLatest": true,
    "predecessor": "v1",
    "links": [
      {"rel": "canonical",
       "href": "HTTPS://machine-name/rest/services/v2"},
      {"rel": "predecessor-version",
       "href": "HTTPS://machine-name/rest/services/v1"}
    ]
  }
],
  "links": [
    {"rel": "canonical",
     "href": "HTTPS://machine-name/rest/services"},
    {"rel": "current",
     "href": "HTTPS://machine-name/rest/services/v2"}
  ]
}
```

Get Specific API Version

Use the GET method with the following URL to retrieve information for a specific API version:

`https://www.hostname.com/rest/services/{version}`

URL Parameters

The following table describes the URL parameters for retrieving a specific version of an API:

Table 1 – Retrieving Specific API Version: URL Parameters

Parameter	Value
version	Version of the API.

Sample Request

`https://www.hostname.com/rest/services/v1`

Sample Response

The following example shows the information returned in the JSON response:

```
{
  "version": "v1",
  "lifecycle": "deprecated",
  "isLatest": false,
  "successor": "v2",
  "terminationDate": "2017-12-31",
  "links": [
    {"rel": "canonical",
     "href": "HTTPS://machine-name/rest/services/v1"},
    {"rel": "successor-version",
     "href": "HTTPS://machine-name/rest/services/v2"}
  ]
}
```

2 Web Service Calls

The Oracle MICROS Labor Management Scheduler API lets you:

- Import a schedule from a third-party application.
- Create and edit Job Definitions.
- Retrieve information pertaining to a specific Job Definition or for all Job Definitions for an organization.

The following table describes the calls:

Table 2 - Labor Management Schedule API Web Service Calls Reference

Name	Description
upload	Upload and import a schedule to Labor Management.
addJob	Create a Job Definition.
editJob	Edit an existing Job Definition.
getJob	Retrieve a specific Job Definition.
getJobs	Retrieve all Job Definitions for an organization.

When making a web service call, make sure there is a value in the **Email Address** field for the Schedule Profile, and enable **Disable Labor Cost Calculation (Scheduler API)**. The e-mail address is used to send notifications if there is a problem in uploading a schedule.

The user can specify multiple e-mail addresses with a semi-colon. For example:
user1@test.com;user2@test.com;user3@test.com.

upload

This is used to upload the schedule to Labor Management.

URL Param

<http://server name/rest/services/schedule/upload>

New URL with API versioning (supported in 9.0 patch 17 and higher and 9.1 patch 4 and higher):

<http://server name/rest/services/v1/schedules/upload>

[REST API Versioning](#) provides more information on API versions.

Sample Request

```
upload ({ "locationRef": "<val>", "sched": [{  
    "payrollId": "<val>", "startDate": "<val>",  
    "startHour": "<val>", "startInterval": "<val>",  
    "endDate": "<val>", "endHour": "<val>",  
    "endInterval": "<val>",  
    "jobRef": "<val>"
```

```

    },
    {
        ...,
        ...
    }
]
})

```

Sample Response

```

{"response":{ "code":"<val>",
              "desc":"<val>",
              "failedSchedules":{
                  "locationRef":"<val>",
                  "failures":[
                      {
                          "schedule":"<val>",
                          "errorMsg":"<val>"
                      },
                      {
                          ..,
                          ..
                      }
                  ]
              }
          }
      }
}

```

The failedSchedules response is only populated when returning error code 1.

The response includes the following parameters and values. Labor Management cannot import a schedule if any of the following parameters are missing:

Table 3 - upload Parameter Reference

Parameter Name	Description
locationRef	The Location Reference as defined in the column ORGLOCATIONREF. It can be found at Admin Portal Organizational Structure Locations Location Reference

payrollId	The Employee's External Payroll ID as defined in column EXTERNALPAYROLLID. - If you are using RA release 20.1.15 or earlier, it can be found by navigating to Human Resources Employee General External Payroll ID - If you are using RA release 20.1.15 or later, it can be found by navigating to People Employee Manage Employment Information General External Payroll ID
startDate	The Shift Start Date as defined in column SCHEDULEDATE. The date field should be in the MM/dd/yyyy format, such as 01/26/2015.
startHour	The Shift Start Hour as defined in column STARTFP, consisting of StartHour + StartInterval.
startInterval	The Shift Start Interval as defined in column STARTFP, consisting of StartHour + StartInterval.
endDate	The Shift End Date, expected to be the same value as StartDate. There is no equivalent column in the database. The date field should be in the MM/dd/yyyy format , such as 01/26/2015.
endHour	The Shift End Hour as defined in column ENDFP, consisting of EndHour + EndInterval.
endInterval	The Shift End Interval as defined in column ENDFP, consisting of EndHour + EndInterval.
jobRef	The Job Code assigned to the Employee record. - If you have modified or managed the job definition in the Labor Management user interface, navigate to that menu path (Human Resources Admin Job Definitions edit job External Reference). - If it is managed by the integrator, refer to the database column to find that value.

Success Response

0. Success – Complete Schedule upload

Error Response

1. Partial Success - Some schedules failed validation.
2. Server Error
3. Invalid Credentials
4. Malformed Data – Empty schedule, invalid date/hour/interval.

-
5. Configuration Error – No schedule profile or no organization found.

Sample Responses

Successful Upload

```
{
  "response": {
    "code": 0,
    "desc": "Complete Success. All schedules were saved."
  }
}
```

Upload Containing Invalid Data

```
{
  "response": {
    "code": 1,
    "desc": "Partial Success. Some schedules were not saved.",
    "failedSchedules": {
      "locationRef": "BAL",
      "failures": [
        {
          "schedule": "[payrollId: 1abc - startDate: 02/15/2018 - startHour: 8 - startInterval: 15 - endDate: 02/15/2018 - endHour: 16 - endInterval: 30 - jobRef: JOB123]",
          "errorMsg": "Employee not found. "
        },
        {
          "schedule": "[payrollId: 2abc - startDate: 02/11/2018 - startHour: 8 - startInterval: 15 - endDate: 02/15/2018 - endHour: 16 - endInterval: 30 - jobRef: JOB123]",
          "errorMsg": "Invalid schedule date/time duration. Job not found."
        },
        ...
      ]
    }
  }
}
```

```
}
```

addJob

This is used to add (create) a Job Definition to Labor Management. When creating a new Job Definition, the following elements are required:

- Name
- JobCatPosRef
- LabCatPosRef
- RvcPosRef
- Type
- EffectiveFrom (mm/dd/yyyy format)
- extjobcodeid

URL Param

`http://server name/rest/services/job/addJob`

New URL with API versioning (supported in 9.0 patch 17 and higher and 9.1 patch 4 and higher):

`http://server name/rest/services/v1/jobs/addJob`

[REST API Versioning](#) provides more information on API versions.

Sample Request

```
addJob({"job":{
  "name":"<val>", "jobcatposref":"<val>",
  "labcatposref":"<val>", "rvcpoosref":"<val>",
  "type":"<val>", "effectivefrom":"<val>",
  "clockinprivilege":"<val>",
  "declaredirecttipsonclockout":"<val>",
  "declareindirecttipsonclockout":"<val>",
  "allowearlylateclockout":"<val>", "printtips":"<val>",
  "tipped":"<val>", "jobRef":"<val>", "defaulttrate":"<val>",
  "extjobcodeid":"<val>", "override":[{
    "locationRef":"<val>",
    "effectivefrom":"<val>",
    "defaulttrate":"<val>"
  }
]}
})
```

Sample Response

```
{
  "response":{
    "code":"<val>",
    "desc":"<val>"
  }
}
```

The response includes the following parameters and values.

Parameter Name	Description
name	The Job Name defined in Human Resources Admin Job Definitions Job Name .
jobcatposref	The Job Category defined in Human Resources Admin Job Definitions General Job Category . This is sent to the web service as JOB CAT POS REF and can be found in the JOB_CATEGORY table.
labcatposref	The Labor Category defined in Human Resources Admin Job Definitions General Location Category . This is sent to the web service as LABOR CAT POS REF and can be found in the LABOR_CATEGORY table.
rvcpooref	The Revenue Center in which the job is effective, as defined in Human Resources Admin Job Definitions General Revenue Center . This is sent to the web service as REVENUE CENTER POS REF and can be found in the REVENUE_CENTER table.
type	The Job Type, such as Hourly or Salaried, as defined in Human Resources Admin Job Definitions Type Job Type .
effectivefrom	The date the job is Effective From as defined in Human Resources Admin Job Definitions Type Effective From .
clockinprivilege	The privilege that an Employee must have in order to clock-in for this position, as defined in Human Resources Admin Job Definitions General Clock In Privilege .
declaredirecttips onclockout	Whether or not the job requires a declaration of direct tips on clock out, as defined in Human Resources Admin Job Definitions General Declare direct tips on clock out .
declareindirecttips onclockout	Whether or not the job requires a declaration of indirect tips on clock out, as defined in Human Resources Admin Job Definitions General Declare indirect tips on clock out .
allowearlylateclockout	Whether or not employees working this job can clock out early or late, even when their Employee class is not privileged to do so. The configuration is defined in Human Resources Admin Job Definitions General Allow early or late clock out .

printtips	Whether or not to print a tips declared chit when an Employee working this job clocks out, as defined in Human Resources Admin Job Definitions General Print tips declared on clock out.
tipped	Whether or not the job is subject to calculating the tip credit, as defined in Human Resources Admin Job Definitions General Subject to Tipped Credit.
Jobref	The Job Code assigned to the Employee record.
defaulttrate	The normal starting pay for this position, as defined in Human Resources Admin Job Definitions Type: Hourly Default Pay Rate. This configuration is only required for hourly employees.
locationRef	The Reference ID associated with the Location or Level, as defined in Admin Portal Organizational Structure Locations Location Reference.
extjobcodeid	The external job reference for the newly added job. This is stored in the ENT_JOB_CODE.extJobCodeRef column.

Success Response

0. Success

Error Response

2. Server Error
3. Invalid Credentials
4. Malformed Data
5. Configuration Error

editJob

This is used to edit a Job Definition in Labor Management.

URL Param

`http://server name/rest/services/job/editJob`

New URL with API versioning (supported in 9.0 patch 17 and higher and 9.1 patch 4 and higher):

`http://server name/rest/services/schedule/v1/jobs/editJob`

[REST API Versioning](#) provides more information on API versions.

Sample Request

`editJob (String oldJobRef, {"job":{`

```
"name":"<val>", "jobcatposref":"<val>",
"labcatposref":"<val>", "rvcporef":"<val>",
"effectivefrom":"<val>", "clockinprivilege":"<val>",
"declaredirecttipsonclockout":"<val>",
"declareindirecttipsonclockout":"<val>",
"allowearlylateclockout":"<val>",
"printtips":"<val>", "tipped":"<val>",
"jobRef":"<val>", "defaulttrate":"<val>",
"extjobcodeid":"<val>", "override":[{
    "locationRef":"<val>",
    "effectivefrom":"<val>",
    "defaulttrate":"< val>"
}]
}})
```

Sample Response

```
{"response":{ "code":"<val>",
"desc":"<val>"
}
}
```

The response includes the following parameters and values.

Parameter Name	Description
name	The Job Name defined in Human Resources Admin Job Definitions Job Name .
jobcatposref	The Job Category defined in Human Resources Admin Job Definitions General Job Category .
labcatposref	The Labor Category defined in Human Resources Admin Job Definitions General Location Category .
rvcporef	The Revenue Center in which the job is effective, as defined in Human Resources Admin Job Definitions General Revenue Center .
type	The Job Type, such as Hourly or Salaried, as defined in Human Resources Admin Job Definitions Type Job Type .
effectivefrom	The date the job is Effective From as defined in Human Resources Admin Job Definitions Type Effective From .
clockinprivilege	The privilege that an Employee must have in order to clock-in for this position, as defined in Human Resources Admin Job Definitions General Clock In Privilege .
declaredirecttips onclockout	Whether or not the job requires a declaration of direct tips on clock out, as defined in Human Resources Admin Job Definitions General Declare direct tips on clock out .
declareindirecttips onclockout	Whether or not the job requires a declaration of indirect tips on clock out, as defined in Human Resources Admin Job Definitions General Declare indirect tips on clock out .
allowearlylateclockout	Whether or not employees working this job can clock out early or late, even when their Employee class is not privileged to do so. The configuration is defined in Human Resources Admin Job Definitions General Allow early or late clock out .
printtips	Whether or not to print a tips declared chit when an Employee working this job clocks out, as defined in Human Resources Admin Job Definitions General Print tips declared on clock out .

tipped	Whether or not the job is subject to calculating the tip credit, as defined in Human Resources Admin Job Definitions General Subject to Tipped Credit .
Jobref	The Job Code assigned to the Employee record.
defaulttrate	The normal starting pay for this position, as defined in Human Resources Admin Job Definitions Type: Hourly Default Pay Rate . This configuration is only required for hourly employees.
locationRef	The Reference ID associated with the Location or Level, as defined in Admin Portal Organizational Structure Locations Location Reference .
extjobcodeid	The external job reference for the newly added job. This is stored in the ENT_JOB_CODE.extJobCodeRef column.

Success Response

0. Success

Error Response

2. Server Error
3. Invalid Credentials
4. Malformed Data
5. Configuration Error

getJob

This is used to retrieve a single Job Definition from Labor Management.

URL Param

`http://server name/rest/services/job/getjob`

New URL with API versioning (supported in 9.0 patch 17 and higher and 9.1 patch 4 and higher):

`http://server name/rest/services/v1/jobs/getJob`

[REST API Versioning](#) provides more information on API versions.

Sample Request

getJob (String oldJobRef)

The API returns the following response:-

```
{ "job": {
  "name": "<val>", "jobcatposref": "<val>",
  "labcatposref": "<val>", "rvcporef": "<val>",
  "type": "<val>", "effectivefrom": "<val>",
  "clockinprivilege": "<val>",
  "declaredirecttipsonclockout": "<val>",
  "declareindirecttipsonclockout": "<val>",
  "allowearlylateclockout": "<val>",
  "printtips": "<val>", "tipped": "<val>",
  "jobRef": "<val>", "defaulttrate": "<val>",
  "extjobcodeid": "<val>", "override": [{
    "locationRef": "<val>",
    "effectiveFrom": "< val>",
    "defaulttrate": "<val>"
  }]
},
"response": {
  "code": "<val>",
  "desc": "<val>"
}
```

The response includes the following parameters and values.

Parameter Name	Description
name	The Job Name defined in Human Resources Admin Job Definitions Job Name .
jobcatposref	The Job Category defined in Human Resources Admin Job Definitions General Job Category .
labcatposref	The Labor Category defined in Human Resources Admin Job Definitions General Location Category .
rvcporef	The Revenue Center in which the job is effective, as defined in Human Resources Admin Job Definitions General Revenue Center .
type	The Job Type, such as Hourly or Salaried, as defined in Human Resources Admin Job Definitions Type Job Type .
effectivefrom	The date the job is Effective From as defined in Human Resources Admin Job Definitions Type Effective From .

clockinprivilege	The privilege that an Employee must have in order to clock-in for this position, as defined in Human Resources Admin Job Definitions General Clock In Privilege .
declaredirecttips onclockout	Whether or not the job requires a declaration of direct tips on clock out, as defined in Human Resources Admin Job Definitions General Declare direct tips on clock out .
declareindirecttips onclockout	Whether or not the job requires a declaration of indirect tips on clock out, as defined in Human Resources Admin Job Definitions General Declare indirect tips on clock out .
allowearlylateclockout	Whether or not employees working this job can clock out early or late, even when their Employee class is not privileged to do so. The configuration is defined in Human Resources Admin Job Definitions General Allow early or late clock out .
printtips	Whether or not to print a tips declared chit when an Employee working this job clocks out, as defined in Human Resources Admin Job Definitions General Print tips declared on clock out .
tipped	Whether or not the job is subject to calculating the tip credit, as defined in Human Resources Admin Job Definitions General Subject to Tipped Credit .
Jobref	The Job Code assigned to the Employee record.
defaulttrate	The normal starting pay for this position, as defined in Human Resources Admin Job Definitions Type: Hourly Default Pay Rate . This configuration is only required for hourly employees.
locationRef	The Reference ID associated with the Location or Level, as defined in Admin Portal Organizational Structure Locations Location Reference .
extjobcodeid	The external job reference for the newly added job. This is stored in the <code>ENT_JOB_CODE.extJobCodeRef</code> column.

Success Response

0. Success

Error Response

2. Server Error
3. Invalid Credentials
4. Malformed Data
5. Configuration Error

getJobs

This is used to retrieve all the Job Definitions of the Organization from Labor Management.

URL Param

`http://server name/rest/services/job/getJobs`

New URL with API versioning (supported in 9.0 patch 17 and higher and 9.1 patch 4 and higher):

`http://server name/rest/services/v1/jobs/getJobs`

[REST API Versioning](#) provides more information on API versions.

Sample Request

`getJobs ()`

Sample Response

```
{
  "jobs": [
    {
      "name": "<val>",
      "jobcatposref": "<val>",
      "labcatposref": "<val>",
      "rvcpref": "<val>",
      "type": "<val>",
      "effectiveFrom": "<val>",
      "clockinprivilege": "<val>",
      "declaredirecttipsonclockout": "<val>",
      "declareindirecttipsonclockout": "<val>",
      "allowearlylateclockout": "<val>",
      "printtips": "<val>",
      "tipped": "<val>",
      "jobRef": "<val>",
      "defaultRate": "<val>",
      "extjobcodeid": "<val>",
      "override": {
        "locationRef": "<val>",
        "effectiveFrom": "< val>",
        "defaultRate": "<val>"
      }
    }
  ],
  {
    ...
  }
],
  "response": {
```

```

        "code": "<val>",
        "desc": "<val>"
    }
}

```

The response includes the following parameters and values.

Parameter Name	Description
name	The Job Name defined in Human Resources Admin Job Definitions Job Name .
jobcatposref	The Job Category defined in Human Resources Admin Job Definitions General Job Category .
labcatposref	The Labor Category defined in Human Resources Admin Job Definitions General Location Category .
rvcporef	The Revenue Center in which the job is effective, as defined in Human Resources Admin Job Definitions General Revenue Center .
type	The Job Type, such as Hourly or Salaried, as defined in Human Resources Admin Job Definitions Type Job Type .
effectivefrom	The date the job is Effective From as defined in Human Resources Admin Job Definitions Type Effective From .
clockinprivilege	The privilege that an Employee must have in order to clock-in for this position, as defined in Human Resources Admin Job Definitions General Clock In Privilege .
declaredirecttips onclockout	Whether or not the job requires a declaration of direct tips on clock out, as defined in Human Resources Admin Job Definitions General Declare direct tips on clock out .
declareindirecttips onclockout	Whether or not the job requires a declaration of indirect tips on clock out, as defined in Human Resources Admin Job Definitions General Declare indirect tips on clock out .
allowearlylateclockout	Whether or not employees working this job can clock out early or late, even when their Employee class is not privileged to do so. The configuration is defined in Human Resources Admin Job Definitions General Allow early or late clock out .

printtips	Whether or not to print a tips declared chit when an Employee working this job clocks out, as defined in Human Resources Admin Job Definitions General Print tips declared on clock out.
tipped	Whether or not the job is subject to calculating the tip credit, as defined in Human Resources Admin Job Definitions General Subject to Tipped Credit.
Jobref	The Job Code assigned to the Employee record.
defaulttrate	The normal starting pay for this position, as defined in Human Resources Admin Job Definitions Type: Hourly Default Pay Rate. This configuration is only required for hourly employees.
locationRef	The Reference ID associated with the Location or Level, as defined in Admin Portal Organizational Structure Locations Location Reference.
extjobcodeid	The external job reference for the newly added job. This is stored in the ENT_JOB_CODE.extJobCodeRef column.

Success Response

0. Success

Error Response

2. Server Error
3. Invalid Credentials
4. Malformed Data
5. Configuration Error