Oracle® MICROS Labor Management

API Programmer's Guide
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Preface

This document provides an API reference for developing third-party applications that interface with the Labor Management web services to retrieve and modify labor information.

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

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.
December 2017	• Removed extra posConfig instance in the createEmployee REST reference. • Visually clarified the parameters by object in the createEmployee REST reference. • Corrected uploadImage method parameters, and added a sample call.
February 2018	• Corrections to getEmployee REST API.
September 2018	Replaced REST API sections with information on getting employees, getting locations, getting timecard punches, and getting API versions.
October 2018	Added Authentication and Authorization chapter to consolidate API security information.

May 2019	Added supported Enterprise Back Office portal information to Getting Started with the REST API chapter.
August 2020	Updated Simple Object Access Protocol (SOAP).
March 2021	Updated modifyPortalUser section.
July 2021	Updated terminateEntHREmployee section.
September 2022	Updated state and country definitions to include state and country code details.
April 2023	Updated Timecard Information (REST).
September 2023	Updated Timecard Information (REST).
May 2024	Added getJobCodes.
September 2024	Updated Timecard Information (REST).

1 Types of Transfer Protocols

Labor Management provides SOAP and REST APIs to retrieve information through an HTTP or HTTPS connection. The API supports the following two transfer protocols to handle different sets of data:

Simple Object Access Protocol (SOAP)

You can use the SOAP APIs to modify and retrieve employee data through methods that:

Retrieve employee details by name, external payroll ID, and payroll ID

Retrieve portal user details

Retrieve point-of-sale (POS) roles

Create new employees and portal users

Modify the information of existing employees and portal users

Transfer employees from one home store to another

Assign employees to an away store

Terminate employees

Place employees on leave of absence

Rehire employees

Change employee pay rates

Retrieve employee time card details

Retrieve labor details for a location

Retrieve location details

Retrieve job code and job category details

Assign magnetic card numbers for home stores

Representational State Transfer (REST)

You can use the REST API to access Reporting and Analytics Advanced modules from mobile devices and tablets through methods that:

Retrieve all employee details for a location

Retrieve details for one employee

Retrieve all locations for an organization

Retrieve information for one location

Retrieve all timecard punches for a location

Retrieve information for all versions of a REST API

Retrieve information for a specific API version

2 Authentication and Authorization

SOAP endpoints (http://*server name*/labor/labor?wsdl) and REST endpoints use an API token and password to authenticate client requests. You generate the token and password by creating an API user in the Reporting and Analytics portal. Create API Users provides more information.

For SOAP API calls, you specify the token and password in the SOAP header as a UserNameToken parameter in WS-Security.

For REST API calls, you specify the token and password in the HTTP request header. Authentication provides more information.

All endpoints are accessible through HTTPS, which makes the communication channel secure.

It is the responsibility of the client that consumes these APIs to securely store authentication credentials.

Create API Users

You generate authentication tokens for API calls by creating an API user in Reporting and Analytics. When you make an API call, the API uses the token and password 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.

Table 1 – API User Configuration Fields

Field Name	Description
Logon Name	The user name 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. To view a list of all API users, select **Show API Users** and then click **Find All** in the User Administration overview page.

Restrict Access to Organizational Levels

You can restrict API users to a specific organizational level or location. If an API user is restricted to a level, that API user can only update the locations at or under that level. If an API user is restricted to a location, that API user can only update and access the information for that location. You can only assign one API user per level.

1. In the portal, select **Admin**, select **Portal,** select **Organizational Structure,** and then select **Relationships**.
2. Select a location or level and click **Edit**.
3. Select **Enable HR Employee API Org Level** and click **Save**.

3 Getting Started with the SOAP API

This chapter discusses:

- Authentication
- Overview of SOAP API Calls

Authentication

The WS-Security header in a SOAP request contains the user name and password required for authentication. Authentication and Authorization provides more information on authentication and creating API users so you can get the user name token and password.

The following code shows a sample header:

```
<wsse:Security xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd" >
      <wsu:Timestamp wsu:Id="timestamp"><wsu:Created>2014-07-15T14:34:28.559Z</wsu:Created></wsu:Timestamp>
      <wsse:UsernameToken wsu:Id="token-09852870-bebc-46fe-9689-777c49c0d59a">
            <wsse:Username>API_user_token</wsse:Username>
            <wsse:Password>API_user_password</wsse:Password>
      </wsse:UsernameToken>
</wsse:Security>
```

Overview of SOAP API Calls

To view a list of all API methods, connect to the Web Service Description Language (WSDL) at http://server *name*/labor/labor?wsdl. Use the HTTPS certificate in Reporting and Analytics Advanced for self-hosted environments.

The SOAP interface supports the message types described in the following table:

Table 2 – SOAP API Message Types

Message Type	Description	Examples
Get	Used to query and retrieve selected information.	getPortalUser, getEntHREmployee

Set: Create, Add, Make, and Modify	Used to insert new information or update existing information. When processing, each message is considered independent from one another. For example, when sending 5 createEntHREmployee records in one transition, if one record has an issue and returns an error, the remaining four records still process.	createPortalUser, getEntHREmployeeJobRate

The interface responds to all requests with an acknowledgment.

The web service returns a code indicating the success or failure of the request. If the request fails, a detailed error message as to why the request failed is returned.

The interface supports multiple and mixed currency and language operations including but not limited to English, French, Spanish, German, and Simplified Chinese.

Use the following table to determine which SOAP API call to make:

Table 3 – Selecting a SOAP Web Service Call

If You Want to…	Use…
Retrieve information about portal users	getPortalUser
Retrieve a specific employee's portal user information	getEntHREmployeePortalUser
Insert or updates a portal user record	createPortalUser
Update information of existing portal users	modifyPortalUser
Retrieve selected information about an employee	getEntHrEmployee
Insert a new employee record	createEntHREmployee
Make an existing employee a portal user	makeEntHREmployeeAPortalUser
Update an existing employee record	modifyEntHREmployeeNominalinfo
Retrieve a specific employee's POS role	getEmployeeRole
Retrieve a specific employee's POS configuration details	getEntHREmployeePOSConfig
Update an employee's POS configuration details	modifyEntHREmployeePOSConfig
Retrieve a specific employee's pay rate information	getEntHREmployeeJobRate
Update an employee's pay rate information	modifyEntHREmployeeJobRates

If You Want to…	Use…
Insert a job rate for an employee	addEntHREmployeeJobRates
Terminate an employee (while sending one or more reasons for termination)	terminateEntHREmployee
Rehire a terminated employee	rehireEntHREmployee
Transfer an employee to a different home store	transferEntHREmployee
Assign an employee to another store (away store)	assignAwayStoreToEntHREmployee
Retrieve information on the hierarchy of your organization	getOrgStructure
Retrieve information about the roles in an organization	getRole

4 Portal User Data (SOAP)

getPortalUser

Retrieves information on one or more portal users. You cannot retrieve the password of the portal user.

URL Parameters

`https://server name/labor/labor/getPortalUser`

Request Query Parameters

Table 4 – getPortalUser Web Service Call Parameters

Parameter	Type	Description
LogonName	String	The username that is used to sign into the portal by the user.
OrgLocationRef	String	The reference associated with the location or level assigned to the user. This is available in the Organizational Structure modules.

Success Response

The following parameters are retrieved from the CORE_USER table.

Table 5 – getPortalUser Success Response

Returned Data	Description
LogonName	The username that is used to sign into the portal.
FirstName	The user's first name.
LastName	The user's last name.
DisplayName	The name that is displayed in the portal once the user signs in.
EmailAddress	The user's email address.
OrgLocationRef	The reference associated with the location or level assigned to the user. This is available in the Organizational Structure modules.
Role Name	The reference name associated with the portal role assigned to the user.

Returned Data	Description
Time Zone Code	The reference associated with the time zone.
Language	The user's language. The format is EN-US, EN-UK, ZH-CN and so on.
Active	The portal user's status. 0: Inactive 1: Active
Suspended	The user's Suspended status. 0: Active 1: Suspended

Error Response

Table 6 – getPortalUser Error Response

Exception	Description
LaborServiceException	There are no users with the given LogonName or an error occurred while performing the web service business logic. For example, runtime exception.
InvalidRequestException	The request is not coming from the SSL accelerator when calling from a remote client.
DataCenterException	Database error.
UnsupportedLoadException	Too many client requests.

getEntHREmployeePortalUser

Retrieves portal user configurations for an employee. If the USERID column in the ENT_HR_EMPLOYEE table is blank, a message is returned indicating that the employee is not a portal user.

URL Parameters

`https://server name/labor/labor/getEntHREmployeePortalUser`

Request Query Parameters

Table 7 – getEntHREmployeePortalUser Web Service Call Parameters

Parameter	Type	Description
ExternalPayrollID	String	The employee's external payroll ID. This is available on the General tab of Employee Administration and is used to link the configuration and the employee.
OrgLocationRef	String	The reference associated with the location or level assigned to the user. This is available in the Organizational Structure modules.

Success Response

You can find the following details on the Portal Users tab in Employee Administration.

Table 8 – getEntHREmployeePortalUser Success Response

Returned Data	Description
ExternalPayrollID	The employee's external payroll ID. This is available on the General tab of Employee Administration and is used to link the configuration and the employee.
UserID	The user ID that is used to access the user record.
LogonName	The username that is used to sign into the portal.
FirstName	The user's first name.
LastName	The user's last name.
DisplayName	The name that is displayed in the portal once the user signs in.
EmailAddress	The user's email address.
OrgLocationRef	The reference associated with the location or level assigned to the user. This is available in the Organizational Structure modules.
RoleName	The reference name associated with the portal role assigned to the user.
TimeZoneCode	The reference associated with the Time Zone. For example, America/New_York.
Language	The user's language.

Returned Data	Description
Active	The portal user's status. 0: Inactive 1: Active
Suspended	This is the user's Suspended Status. 0: Active 1: Suspended

Error Response

Table 9 – getEntHREmployeePortalUser Error Response

Exception	Description
LaborServiceException	The employee is not a portal user or an error occurred while performing the web service business logic. For example, runtime exception.
InvalidRequestException	The request is not coming from the SSL accelerator when calling from a remote client.
DataCenterException	Database error.
UnsupportedLoadException	Too many client requests.

createPortalUser

Creates new portal users or updates the details of existing portal users. You cannot modify or assign passwords for the users. When you create a user using this web service call, the portal automatically generates a password and sends it to the email address defined for the user.

URL Parameters

`https://server name/labor/labor/createPortalUser`

Request Query Parameters

Table 10 – createPortalUser Web Service Call Parameters

Parameter	Type	Description
LogonName	String	The username that the employee should use to sign into the portal. This field is mandatory.

Parameter	Type	Description
ExternalPayrollID	String	The employee's external payroll ID. This is available on the General tab of Employee Administration and is used to link the configuration and the employee. This field is mandatory.
FirstName	String	The user's first name. This field is mandatory.
LastName	String	The user's last name.
DisplayName	String	The name that is displayed in the portal once the user signs in. This field is mandatory.
EmailAddress	String	The user's email address. This field is mandatory.
OrgLocationRef	String	The reference associated with the location or level assigned to the user. This is available in the Organizational Structure modules. This field is mandatory.
Role Name	String	The reference name associated with the portal role assigned to the user.
Time Zone Code	String	The reference associated with the time zone. This field is mandatory.
Language	String	The user's language. This field is mandatory. The format is EN-US, EN-UK, ZH-CN and so on.
Active	Integer	The portal user's status. New users are automatically set to active. 0: Inactive 1: Active
Suspended	Integer	The user's Suspended Status. 0: Active 1: Suspended

Success Response

Table 11 – createPortalUser Success Response

Returned Data	Description

Successful	Returns true if the web service executes without any error.

Error Response

Table 12 – createPortalUser Error Response

Returned Data	Description
Successful	Returns false if the web service fails.
message	Error information.

modifyPortalUser

Updates the details of existing portal users.

> **NOTE:**
>
> For release 9.1, do not use modifyPortalUser to create a portal user, use createPortalUser instead.

URL Parameters

`https://server name/labor/labor/modifyPortalUser`

Request Query Parameters

Table 13 – modifyPortalUser Web Service Call Parameters

Parameter	Type	Description
NewLogonName	String	Use for release 9.1. The new logon name for the user that is being modified.
OrgLocationRef	String	The reference associated with the location or level assigned to the user. This is available in the Organizational Structure modules. This field is mandatory.
LogonName	String	The username that is used to sign into the portal. It is used to identify the user that is being modified. This field is mandatory.
FirstName	String	The user's first name. This field is mandatory.
LastName	String	The user's last name. This field is mandatory.
DisplayName	String	The name that is displayed in the portal once the user signs in.
EmailAddress	String	The user's email address.
Role Name	String	The reference name associated with the portal role assigned to the user. This field is mandatory.
Time Zone Code	String	The reference associated with the time zone. This field is mandatory.
Language	String	The user's language. This field is mandatory. The format is EN-US, EN-UK, ZH-CN and so on.

Parameter	Type	Description
Active	Boolean	The portal user's status. 0: Inactive 1: Active New users are automatically set to active. Setting the value to 0 deactivates the user.
Suspended	Boolean	The user's Suspended Status. 0: Active 1: Suspended

Success Response

Table 14 – modifyPortalUser Success Response

Returned Data	Description
Successful	Returns true if the web service executes without any error.

Error Response

Table 15 – modifyPortalUser Error Response

Returned Data	Description
Successful	Returns false if the web service fails.
message	Error information.

5 Employee Data (SOAP)

getEntHREmployee

Retrieves selected information on an employee.

URL Parameters

`https://server name/labor/labor/getEntHREmployee`

Request Query Parameters

Table 16 – getEntHREmployee Web Service Call Parameters

Parameter	Type	Description
ExternalPayrollID	String	The employee's external payroll ID. This is available on the General tab of Employee Administration and is used to link the configuration and the employee.
OrgLocationRef	String	The reference associated with the location or level assigned to the employee. This is available in the Organizational Structure modules.

Success Response

You can find the following details from the Employee Administration module in Human Resources.

Table 17 – getEntHREmployee Success Response

Returned Data	Description
HomeStore	The location reference for the employee's home store.
ExternalPayrollID	The employee's external payroll ID.
FirstName	The employee's first name.
MiddleName	The employee's middle name.
LastName	The employee's last name.
CheckName	The name that appears on all checks that are written to the employee.
SSN	The employee's social security number.
EmployeeRole	The role assigned to the employee.
EmployeeRolePOSRef	The POS reference for the employee role.
AddressLine1	As defined in column ADDRESSLINE1.
AddressLine2	As defined in column ADDRESSLINE2.

Returned Data	Description
City	As defined in column CITY.
County	As defined in column COUNTY.
State	As defined in column STATE.
Country	As defined in column COUNTRY.
PostalCode	As defined in column POSTALCODE.
Language	As defined in column LANGUAGE. The format is EN-US, EN-UK, ZH-CN and so on.
Email	The employee's email address. As defined in column EMAIL.
PhoneNumber	The employee's phone number. As defined in column PHONENUMBER.
FaxNumber	The employee's fax number. As defined in column FAXNUMBER.
OtherNumber	Another contact number for the employee. As defined in column OTHERNUMBER.
Ethnicity	The employee's ethnicity. As defined in column ETHNICITY.
Gender	The gender of the employee. 1: Male 2: Female As defined in column GENDER.
DateofBirth	The employee's date of birth. As defined in column DATE OF BIRTH.
HireDate	The date the employee was hired. As defined in column HIRE DATE.
HireStatus	The employment status. 0: Hired 1: Terminated 2: Leave of Absence As defined in column HIRE STATUS.
RehireDate	If the employee was rehired, the date of rehire. As defined in column REHIRE DATE
Rehire	As defined in column REHIRE.

Returned Data	Description
TerminationDate	The date the employee was terminated. As defined in column TERMINATION DATE
TerminationCode1	The reason for termination. As defined in column TERM REASON 1.
TerminationCode2	The reason for termination. As defined in column TERM REASON 2.
TerminationCode3	The reason for termination. As defined in column TERM REASON 3.
TerminationCode4	The reason for termination. As defined in column TERM REASON 4.
TermNote	Additional details regarding the termination. As defined in column TERMINATION NOTE.
TermStatus	The termination status: quit, layoff, transfer, discharge, and so on. As defined in column TERMINATION STATUS.
UserAlpha1	As defined in column USER ALPHA 1
UserAlpha2	As defined in column USER ALPHA 2
UserAlpha3	As defined in column USER ALPHA 3
UserAlpha4	As defined in column USER ALPHA 4
UserAlpha5	As defined in column USER ALPHA 5
UserAlpha6	As defined in column USER ALPHA 6
UserAlpha7	As defined in column USER ALPHA 7
UserAlpha8	As defined in column USER ALPHA 8
UserNumeric1	As defined in column USER NUMERIC 1
UserNumeric2	As defined in column USER NUMERIC 2
UserNumeric3	As defined in column USER NUMERIC 3
UserNumeric4	As defined in column USER NUMERIC 4
UserNumeric5	As defined in column USER NUMERIC 5
OSDomainName	As defined in column OS DOMAIN NAME.
OSUserName	As defined in column OS USER NAME.

Error Response

Table 18 – getEntHREmployee Error Response

Exception	Description
LaborServiceException	An error occurred while performing the web service business logic. For example, runtime exception.
InvalidRequestException	The request is not coming from the SSL accelerator when calling from a remote client.
DataCenterException	Database error.
UnsupportedLoadException	Too many client requests.

createEntHREmployee

Creates or adds a new employee for the store that you specify. This web service inserts
records to the ENT_HR_EMPLOYEE, ENT_HR_EMPLOYEE_POS_CFG, and ENT_HR_EMPLOYEE_JOB_RATE tables. Therefore, when creating an employee, job rate information and POS configuration for the employee must also be sent in addition to the employee details. For the list of parameters to pass for job rates and POS configurations, see addEntHREmployeeJobRates and modifyEntHREmployeePOSConfig.

URL Parameters

`https://server name/labor/labor/createEntHREmployee`

Request Query Parameters

You can find the following details from the Employee Administration module in Human Resources.

Table 19 – createEntHREmployee Web Service Call Parameters

Parameter	Type	Description
HomeStore	Long	The location reference for the employee's home store. This field is mandatory.
ExternalPayrollID	String	The employee's external payroll ID. This is used to link the configuration with the employee. This field is mandatory and must be unique to the organization.

Parameter	Type	Description
FirstName	String	The employee's first name. This field is mandatory.
MiddleName	String	The employee's middle name.
LastName	String	The employee's last name. This field is mandatory.
CheckName	String	The name that should appear on all checks that are written to the employee.
SSN	String	The employee's social security number.
EmployeeRole	String	The role assigned to the employee.
EmployeeRolePOSRef	String	The POS reference for the employee role.
AddressLine1	String	As defined in column ADDRESSLINE1.
AddressLine2	String	As defined in column ADDRESSLINE2.
City	String	As defined in column CITY.
County	String	As defined in column COUNTY.
State	String	As defined in column STATE. It is recommended that this code be compliant with ISO-3166-2 standards. Use a 2-character state code for US or Canadian addresses or a maximum of 3-characters for addresses in other countries.
Country	String	As defined in column COUNTRY. It is recommended that this code be compliant with ISO-3166-1 standards. Use a 2-character country code.
PostalCode	String	As defined in column POSTALCODE.
Language	String	The user's language. The format is EN-US, EN-UK, ZH-CN and so on.
Email	String	The employee's email address. As defined in column EMAIL.
PhoneNumber	String	The employee's phone number. As defined in column PHONE NUMBER.
FaxNumber	String	The employee's fax number. As defined in column FAX NUMBER.
OtherNumber	String	Another contact number for the employee. As defined in column OTHER NUMBER.
Ethnicity	String	The employee's ethnicity. As defined in column ETHNICITY.

Parameter	Type	Description
Gender	String	The gender of the employee. 1: Male 2: Female As defined in column GENDER.
DateofBirth	DateTime	The employee's date of birth. This field is mandatory. As defined in column DATE OF BIRTH.
HireDate	DateTime	The date the employee was hired. This field is mandatory. As defined in column HIRE DATE.
HireStatus	Integer	The employment status. This field is mandatory. If not defined, the Hire Status is set to 0. 0: Hired (default) 1: Terminated 2: Leave of Absence As defined in column HIRE STATUS.
RehireDate	DateTime	If the employee is a being rehired, the date of rehire. As defined in column REHIREDATE.
Rehire	Boolean	As defined in column REHIRE
TermNote	String	Additional details regarding the termination. As defined in column TERMINATION NOTE.
TermStatus	String	The termination status: quit, layoff, transfer, discharge, and so on. As defined in column TERMINATION STATUS.
UserAlpha1-8	String	As defined in column USER ALPHA 1-8
UserNumeric1-5	Integer	As defined in column USER NUMERIC 1-5
OSDomainName	String	As defined in column OS DOMAIN NAME.
OSUserName	String	As defined in column OS USER NAME.

Success Response

Table 20 – createEntHREmployee Success Response

Returned Data	Description
Successful	Returns true if the web service executes without any error.

Error Response

Table 21 – createEntHREmployee Error Response

Returned Data	Description
Successful	Returns false if the web service fails.
message	Error information.

makeEntHREmployeeAPortaUser

Gives an employee access to the portal. When you make an employee a portal user:

- A password for the portal is automatically generated and sent to the email address defined for the employee.
- A new record is inserted to the `CORE_USER` table and the `USERID` column for the employee record in the `ENT_HR_EMPLOYEE` table updates.
- The employee's first name and last name are taken from the `ENT_HR_EMPLOYEE` table and copied to the `CORE_USER` table.

URL Parameters

`https://server name/labor/labor/makeEntHREmployeeAPortaUser`

Request Query Parameters

Table 22 – makeEntHREmployeeAPortaUser Web Service Call Parameters

Parameter	Type	Description
ExternalPayrollID	String	The employee's external payroll ID. This is available on the General tab of Employee Administration and is used to link the configuration and the employee. This field is mandatory.
LogonName	String	The username that the employee should use to sign into the portal. This field is mandatory.
FirstName	String	The employee's first name. This field is mandatory.
LastName	String	The employee's last name. This field is mandatory.
DisplayName	String	The name that should be displayed in the portal once the employee signs in. This field is mandatory.
EmailAddress	String	The employees email address.
OrgLevel	String	The organization level assigned to the employee.
OrgLocationRef	String	The reference associated with the location or level assigned to the employee. This is available in the Organizational Structure modules. This field is mandatory.

Parameter	Type	Description
RoleName	String	The reference name associated with the portal role assigned to the user. This field is mandatory.
TimeZoneCode	String	The reference associated with the Time Zone. For example, America/New_York. As defined in CORE_TIMEZONE. This field is mandatory.
Language	String	The employee's language. This field is mandatory. The format is EN-US, EN-UK, ZH-CN and so on.
Active	Integer	The portal user's status. New users are automatically set to active. Setting the value to 0 deactivates the user. 0: Inactive 1: Active This field is mandatory.
Suspended	Integer	The user's Suspended Status. 0: Active 1: Suspended

Success Response

Table 23 – makeEntHREmployeeAPortaUser Success Response

Returned Data	Description
Successful	Returns true if the web service executes without any error.

Error Response

Table 24 – makeEntHREmployeeAPortaUser Error Response

Returned Data	Description
Successful	Returns false if the web service fails.
message	Error information.

modifyEntHREmployeeNominalinfo

Update the details of an existing employee. You cannot modify an employee's home store using this web service. If you want to modify the home store, then use the transferEntHREmployee web service call.

URL Parameters

`https://server name/labor/labor/modifyEntHREmployeeNominalinfo`

Request Query Parameters

You can find the following details from the Employee Administration module in Human Resources.

Table 25 – modifyEntHREmployeeNominalinfo Web Service Call Parameters

Parameter	Type	Description
ExternalPayrollID	String	The employee's external payroll ID. This is available on the General tab of Employee Administration and is used to link the configuration and the employee. This field is mandatory.
OrgLocationRef	String	The reference associated with the location or level assigned to the employee. This is available in the Organizational Structure modules. This field is mandatory.
HomeStore	Long	The location reference for the employee's home store.
FirstName	String	The employee's first name.
MiddleName	String	The employee's middle name.
LastName	String	The employee's last name.
CheckName	String	The name that appears on all checks that are written to the employee.
SSN	String	The employee's social security number.
EmployeeRolePOSRef	String	The POS reference for the employee role.
AddressLine1	String	As defined in column ADDRESSLINE1.
AddressLine2	String	As defined in column ADDRESSLINE2.
City	String	As defined in column CITY.
County	String	As defined in column COUNTY.
State	String	As defined in column STATE.

Parameter	Type	Description
Country	String	As defined in column COUNTRY.
PostalCode	String	As defined in column POSTALCODE.
Language	String	The employee' language. The format is EN-US, EN-UK, ZH-CN and so on.
Email	String	The employee's email address. As defined in column EMAIL
PhoneNumber	String	The employee's phone number. As defined in column PHONENUMBER.
FaxNumber	String	The employee's fax number. As defined in column FAXNUMBER.
OtherNumber	String	Another contact number for the employee. As defined in column OTHERNUMBER.
Ethnicity	String	The employee's ethnicity. As defined in column ETHNICITY.
Gender	String	The gender of the employee. 1: Male 2: Female
DateofBirth	DateTime	The employee's date of birth. As defined in column DATE OF BIRTH.
HireDate	DateTime	The date the employee was hired. As defined in column HIRE DATE.
UserAlpha1-8	String	As defined in columns USER ALPHA 1-8
UserNumeric1-5	Integer	As defined in columns USER NUMERIC 1-5
OSDomainName	String	As defined in column OS DOMAIN NAME.
OSUserName	String	As defined in column OS USER NAME.

Success Response

Table 26 – modifyEntHREmployeeNominalinfo Success Response

Returned Data	Description
Successful	Returns true if the web service executes without any error.

Error Response

Table 27 – modifyEntHREmployeeNominalinfo Error Response

Exception	Description
LaborServiceException	There is no location with the given orgLocationRef or an error occurred while performing the web service business logic. For example, runtime exception.
InvalidRequestException	The request is not coming from the SSL accelerator when calling from a remote client.
DataCenterException	Database error.
UnsupportedLoadException	Too many client requests.

getJobCodes

Retrieves job code/definition information.

URL Parameters

`https://server name/labor/labor/getJobCodes`

Request Query Parameters

You can find the following details from the Employee Administration module in Human Resources.

Table 28 – getJobCodes Web Service Call Parameters

Parameter	Type	Description
OrgLocationRef	String	The reference associated with the location. It is mandatory for retrieving job definition applicable to non-labor job code/definition. To retrieve user-defined jobs or job definition related to labor, this must be left empty/null.

Success Response

Table 29 – getJobCodes Success Response

Returned Data	Description
enterprisePOSRef	The enterprise POS reference for the job code/definition.
Name	Name of the job code/definition.

Type	**H** for hourly job and **S** for salaried job.

Error Response

Table 30 – getJobCodes Error Response

Exception	Description
LaborServiceException	An error occurred while performing the web service business logic. For example, runtime exception.
InvalidRequestException	The request is not coming from the SSL accelerator when calling from a remote client.
DataCenterException	Database error.

6 Employee POS Configuration Data (SOAP)

getEmployeeRole

Retrieves the POS role assigned to an employee.

URL Parameters

`https://server name/labor/labor/getEmployeeRole`

Request Query Parameters

Table 31 – getEmployeeRole Web Service Call Parameters

Parameter	Type	Description
ExternalPayrollID	String	The employee's external payroll ID. This is available on the General tab of Employee Administration and is used to link the configuration and the employee. This field is mandatory.
OrgLocationRef	String	The reference associated with the location or level assigned to the employee. This is available in the Organizational Structure modules. Send this field, if the ExternalPayrollID is not unique for each organization level.

Success Response

Table 32 – getEmployeeRole Success Response

Returned Data	Description
ItemId	The role ID.
ItenName	The role name.

Error Response

Table 33 – getEmployeeRole Error Response

Exception	Description
LaborServiceException	An error occurred while performing the web service business logic. For example, runtime exception.

Exception	Description
InvalidRequestException	The request is not coming from the SSL accelerator when calling from a remote client.
DataCenterException	Database error.
UnsupportedLoadException	Too many client requests.

getEntHREmployeePOSConfig

Retrieves the POS configurations for each location assigned to an employee.

URL Parameters

`https://server name/labor/labor/getEntHREmployeePOSConfig`

Request Query Parameters

Table 34 – getEntHREmployeePOSConfig Web Service Call Parameters

Parameter	Type	Description
ExternalPayrollID	String	The employee's external payroll ID. This is available on the General tab of Employee Administration and is used to link the configuration and the employee.
OrgLocationRef	String	The reference associated with the location or level assigned to the user. This is available in the Organizational Structure modules. This field is mandatory.

Success Response

You can find the following details from the POS Configuration secondary tab on the Location Configuration tab in Employee Administration.

Table 35 – getEntHREmployeePOSConfig Success Response

Returned Data	Description
ExternalPayrollID	The employee's external payroll ID. This is available on the General tab of Employee Administration and is used to link the configuration and the employee.
Location	The reference for the location that is assigned to the employee.
POSPassword	The employee's POS password.

Returned Data	Description
PCAppPassword	The employee's PC application password.
MagCardNum	The magnetic card number assigned to the employee.
EmployeeClassPOSRef	The POS employee class assigned to this employee's POS configuration.
EmployeeBOClassPOSRef	The back office class assigned to this employee's POS configuration record.
CashDrawer	The cash drawer assigned to the employee. 0. None 1. Cash Drawer 1 2. Cash Drawer 2
CashierPOSRef	The cashier assigned to this employee's POS configuration record.
UserId	The user ID for the employee's POS configuration record.
UserPassword	The password for the employee's POS configuration record.
AccountDisabled	The status of the employee's POS configuration record. 0. Active 1. Disabled
UserAlpha6	As defined in column USER ALPHA 6.
UserAlpha7	As defined in column USER ALPHA 7.
UserAlpha8	As defined in column USER ALPHA 8.
EntHrPrivilegeID	The privilege level assigned to the employee at the POS.
InTraining	This is the employee's training status for the location. 0. Not in Training 1. In Training

Error Response

Table 36 – getEntHREmployeePOSConfig Error Response

Exception	Description
LaborServiceException	An error occurred while performing the web service business logic. For example, runtime exception.
InvalidRequestException	The request is not coming from the SSL accelerator when calling from a remote client.

Exception	Description
DataCenterException	Database error.
UnsupportedLoadException	Too many client requests.

modifyEntHREmployeePOSConfig

Updates an existing employee's POS configurations details.

URL Parameters

`https://server name/labor/labor/modifyEntHREmployeePOSConfig`

Request Query Parameters

Table 37 – modifyEntHREmployeePOSConfig Web Service Call Parameters

Parameter	Type	Description
ExternalPayrollID	String	The employee's external payroll ID. This is available on the General tab of Employee Administration and is used to link the configuration and the employee. This field is mandatory.
OrgLocationRef	String	The reference associated with the location or level assigned to the user. This is available in the Organizational Structure modules. This field is mandatory.
POSPassword	Char[]	The employee's POS password.
PCAppPassword	Char[]	The employee's PC application password.
MagCardNum	Integer	The magnetic card number assigned to the employee.
EmployeeClassPOS Ref	String	The POS employee class assigned to this employee's POS configuration
EmployeeBOClassP OSRef	String	The back office class assigned to this employee's POS configuration record.
CashDrawer	Integer	The cash drawer assigned to the employee. 0. None 1. Cash Drawer 1 2. Cash Drawer 2
CashierPOSRef	String	The cashier assigned to this employee's POS configuration record.
UserId		The user ID for the employee's POS configuration record
UserPassword	Char[]	The password for the employee's POS configuration record.

Parameter	Type	Description
AccountDisabled	Integer	The status of the employee's POS configuration record. 0. Active 1. Disabled
UserAlpha6	String	As defined in column USER ALPHA 6.
UserAlpha7	String	As defined in column USER ALPHA 7.
UserAlpha8	String	As defined in column USER ALPHA 8.
EntHrPrivilegeID	String	The privilege level assigned to this employee at the POS.
InTraining	Integer	This is the HR Employee's Training Status for the location. 0. Not in Training 1. In Training

Success Response

Table 38 – modifyEntHREmployeePOSConfig Success Response

Returned Data	Description
Successful	Returns true if the web service executes without any error.

Error Response

Table 39 – modifyEntHREmployeePOSConfig Error Response

Returned Data	Description
Successful	Returns false if the web service fails.
message	Error information.

7 Employee Job Rate Data (SOAP)

getEntHREmployeeJobRate

Retrieves current and future pay rate information for an employee.

URL Parameters

`https://server name/labor/labor/getEntHREmployeeJobRate`

Request Query Parameters

Table 40 – getEntHREmployeeJobRate Web Service Call Parameters

Parameter	Type	Description
ExternalPayrollID	String	The employee's external payroll ID. This is available on the General tab of Employee Administration and is used to link the configuration and the employee.
OrgLocationRef	String	The reference associated with the location or level assigned to the user. This is available in the Organizational Structure modules.

Success Response

You can find the following details from the Job Rates secondary tab on the Location Configuration tab in Employee Administration.

Table 41 – getEntHREmployeeJobRate Success Response

Returned Data	Description
ExternalPayrollID	The employee's external payroll ID. This is available on the General tab of Employee Administration and is used to link the configuration and the employee.
Location	The reference for the location that is assigned to the employee.
JobCodeEnterprisePOSRef	The enterprise POS reference for the job code assigned to the employee record.
PrimaryJob	Indicates whether this pay rate is for the employee's primary job. 0. Not Primary Job 1. Primary Job
RegPayRate	The regular pay rate for the employee at this location for the specific job.

Returned Data	Description
EntSkillName	The skill level of the employee.
EffectiveFrom	The date the job is effective from.
EffectiveTo	The date the job is effective to.
ExcludeFromStaffRequirements	Indicates whether the employee with this job is used to fulfill staff requirements. 0. Include in Staff Requirements 1. Exclude from Staffing Requirements

Error Response

Table 42 – getEntHREmployeeJobRate Error Response

Exception	Description
LaborServiceException	An error occurred while performing the web service business logic. For example, runtime exception.
InvalidRequestException	The request is not coming from the SSL accelerator when calling from a remote client.
DataCenterException	Database error.
UnsupportedLoadException	Too many client requests.

modifyEntHREmployeeJobRates

Updates the pay rates for an employee.

URL Parameters

`https://server name/labor/labor/modifyEntHREmployeeJobRates`

Request Query Parameters

Table 43 – modifyEntHREmployeeJobRates Web Service Call Parameters

Parameter	Type	Description
ExternalPayrollID	String	The employee's external payroll ID. This is available on the General tab of Employee Administration and is used to link the configuration and the employee. This field is mandatory.

Parameter	Type	Description
OrgLocationRef	String	The reference associated with the location or level assigned to the user. This is available in the Organizational Structure modules. This field is mandatory.
JobCodeEnterprisePOSRef	String	The enterprise POS reference for the job code assigned to the employee record. This field is mandatory.
PrimaryJob	String	Indicates whether this pay rate is for the employee's primary job. This field is mandatory. 0. Not Primary Job 1. Primary Job
RegPayRate	Double	The regular pay rate for the employee at this location for the specific job. This field is mandatory.
EntSkillName	Integer	The skill level of the employee.
EffectiveFrom	DateTime	The date the job is effective from. This field is mandatory.
EffectiveTo	DateTime	The date the job is effective to.
ExcludeFromStaffRequirements	Integer	Indicates whether the employee with this job is used to fulfill staff requirements. 0. Include in Staff Requirements 1. Exclude from Staffing Requirements

Success Response

Table 44 – modifyEntHREmployeeJobRates Success Response

Returned Data	Description
Successful	Returns true if the web service executes without any error.

Error Response

Table 45 – modifyEntHREmployeeJobRates Error Response

Exception	Description
LaborServiceException	An error occurred while performing the web service business logic. For example, runtime exception.

Exception	Description
InvalidRequestException	The request is not coming from the SSL accelerator when calling from a remote client.
DataCenterException	Database error.
UnsupportedLoadException	Too many client requests.

addEntHREmployeeJobRates

Inserts job rate information for an employee. When a job rate is added, the web service automatically creates a default POS configuration for the location if no POS configuration details are sent using this web service call.

URL Parameters

`https://server name/labor/labor/addEntHREmployeeJobRates`

Request Query Parameters

Table 46 – addEntHREmployeeJobRates Web Service Call Parameters

Parameters	Type	Description
ExternalPayrollID	String	The employee's external payroll ID. This is available on the General tab of Employee Administration and is used to link the configuration and the employee.
OrgLocationRef	String	The reference associated with the location or level assigned to the user. This is available in the Organizational Structure modules. This field is mandatory.
JobCodeEnterprisePOSRef		This is the Enterprise POS Ref of the Job Code assigned to the HR Employee record.
PrimaryJob	String	Only 1 Primary Job allowed per HR Employee per Location. 0=Not Primary Job 1=Primary Job
RegPayRate	Double	This is the pay rate for the employee at this location for the specific job
EntSkillName	Integer	This is the skill level assigned to the employee.

Parameters	Type	Description
EffectiveFrom	DateTime	This is the date the job is Effective From
EffectiveTo	DateTime	This is the date the job is Effective To
ExcludeFromStaffRequirements	Integer	This Flag will decide if the Employee with this Job will be used to fulfill Staff Requirements. 0: Include in Staff Requirements 1: Exclude from Staffing Requirements

Success Response

Table 47 – addEntHREmployeeJobRates Success Response

Returned Data	Description
Successful	Returns true if the web service executes without any error.

Error Response

Table 48 – addEntHREmployeeJobRates Error Response

Exception	Description
LaborServiceException	An error occurred while performing the web service business logic. For example, runtime exception.
InvalidRequestException	The request is not coming from the SSL accelerator when calling from a remote client.
DataCenterException	Database error.
UnsupportedLoadException	Too many client requests.

8 Employee Termination and Rehire (SOAP)

terminateEntHREmployee

Terminates an employee. This web service updates the `ENT_HR_EMPLOYEE` table.

URL Parameters

`https://server name/labor/labor/terminateEntHREmployee`

Request Query Parameters

Table 49 – terminateEntHREmployee Web Service Call Parameters

Parameter	Type	Description
ExternalPayrollID	String	The employee's external payroll ID. This is available on the General tab of Employee Administration and is used to link the configuration and the employee. This field is mandatory.
TerminationDate	DateTime	The date of termination. This field is mandatory. As defined in column TERMINATION DATE.
TerminationCode1	String	The reason for termination. As defined in column TERMINATION REASON 1.
TerminationCode2	String	The reason for termination. As defined in column TERMINATION REASON 2.
TerminationCode3	String	The reason for termination. As defined in column TERMINATION REASON 3.
TerminationCode4	String	The reason for termination. As defined in column TERMINATION REASON 4.
TerminationNote	String	Additional details regarding the termination. As defined in column TERMINATION NOTE
TerminationStatus	String	The termination status: Transfer, Discharge, Quit, Layoff. This field is mandatory.

Success Response

Table 50 – terminateEntHREmployee Success Response

Returned Data	Description
Successful	Returns true if the web service executes without any error.

Error Response

Table 51 – terminateEntHREmployee Error Response

Exception	Description
LaborServiceException	There is no location with the given orgLocationRef or an error occurred while performing the web service business logic. For example, runtime exception.
InvalidRequestException	The request is not coming from the SSL accelerator when calling from a remote client.
DataCenterException	Database error.
UnsupportedLoadException	Too many client requests.

rehireEntHREmployee

Rehires an employee. This web service updates the `REHIREDATE` column in the `ENT_HR_EMPLOYEE` and adds records to the `ENT_HR_EMPLOYEE_JOB_RATE` and `ENT_HR_EMPLOYEE_POS_CONFIG` tables. Therefore, job rate information and POS configurations for the employee must also be sent with this web service. For the list of parameters to pass for job rates and POS configurations, see addEntHREmployeeJobRates and modifyEntHREmployeePOSConfig.

URL Parameters

`https://server name/labor/labor/rehireEntHREmployee`

Request Query Parameters

Table 52 – rehireEntHREmployee Web Service Call Parameters

Parameters	Type	Description
RehireDate	DateTime	The date of rehire. This field is mandatory. As defined in column REHIRE DATE.

Parameters	Type	Description
ExternalPayrollID	String	The employee's external payroll ID. This is available on the General tab of Employee Administration and is used to link the configuration and the employee. This field is mandatory.
orgLocationRef	String	The reference associated with the location or level assigned to the user. This is available in the Organizational Structure modules.

Success Response

Table 53 – rehireEntHREmployee Success Response

Returned Data	Description
Successful	Returns true if the web service executes without any error.

Error Response

Table 54 – rehireEntHREmployee Error Response

Exception	Description
LaborServiceException	An error occurred while performing the web service business logic. For example, runtime exception.
InvalidRequestException	The request is not coming from the SSL accelerator when calling from a remote client.
DataCenterException	Database error.
UnsupportedLoadException	Too many client requests.

9 Employee Store Assignment (SOAP)

transferEntHREmployee

Transfers an employee to a new home store.

URL Parameters

`https://server name/labor/labor/transferEntHREmployee`

Request Query Parameters

Table 55 – transferEntHREmployee Web Service Call Parameters

Parameter	Type	Description
NewLocationRef	String	The location reference for the employee's new home store. This field is mandatory.
ExternalPayrollID	String	The employee's external payroll ID. This is available on the General tab of Employee Administration and is used to link the configuration and the employee. This field is mandatory.

Success Response

Table 56 – transferEntHREmployee Success Response

Returned Data	Description
Successful	Returns true if the web service executes without any error.

Error Response

Table 57 – transferEntHREmployee Error Response

Exception	Description
LaborServiceException	An error occurred while performing the web service business logic. For example, runtime exception.
InvalidRequestException	The request is not coming from the SSL accelerator when calling from a remote client.
DataCenterException	Database error.
UnsupportedLoadException	Too many client requests.

assignAwayStoreToEntHREmployee

This is used to assign another store (away store) for an employee. Using this web service you can also update the employee's POS configurations. For the list of POS configuration request parameters, see modifyEntHREmployeePOSConfig.

URL Parameters

`https://server name/labor/labor/assignAwayStoreToEntHREmployee`

Request Query Parameters

Table 58 – assignAwayStoreToEntHREmployee Web Service Call Parameters

Parameter	Type	Description
ExternalPayrollID	String	The employee's external payroll ID. This is available on the General tab of Employee Administration and is used to link the configuration and the employee. This field is mandatory.
OrgLocationRef	String	The reference associated with the location or level assigned to the user. This is available in the Organizational Structure modules. This field is mandatory
JobCodeEnterprisePOSRef		The enterprise POS reference for the job code assigned to the employee record. This field is mandatory.
PrimaryJob	String	Indicates whether this away store is for the employee's primary job. 0. Not Primary Job 1. Primary Job This field is mandatory.
RegPayRate	Double	The regular pay rate for the employee at this location for the specific job. This field is mandatory.
EntSkillName	Integer	The skill level of the employee.
EffectiveFrom	DateTime	The date the job is effective from. This field is mandatory.
EffectiveTo	DateTime	The date the job is effective to.

Parameter	Type	Description
ExcludeFromStaffRequirements	Integer	Indicates whether the employee with this job is used to fulfill staff requirements. 0. Include in Staff Requirements 1. Exclude from Staffing Requirements

Success Response

Table 59 – assignAwayStoreToEntHREmployee Success Response

Returned Data	Description
Successful	Returns true if the web service executes without any error.

Error Response

Table 60 – assignAwayStoreToEntHREmployee Success Response

Exception	Description
LaborServiceException	An error occurred while performing the web service business logic. For example, runtime exception.
DataCenterException	Database error.
UnsupportedLoadException	Too many client requests.

10 Organization and Location Data (SOAP)

getOrgStructure

Retrieves information on the hierarchy of the enterprise.

URL Parameters

`https://server name/labor/labor/getOrgStructure`

Request Query Parameters

Table 61 – getOrgStructure Web Service Call Parameters

Parameter	Type	Description
OrgLocationRef	String	The reference associated with the location or level assigned to the user. This is available in the Organizational Structure modules.

Success Response

You can find the following details from the Organizational Structure modules in Portal Administration.

Table 62 – getOrgStructure Success Response

Returned Data	Description
OrgLevelName	The name of the level. As defined in column ORGLEVELNAME.
OrgLocationRef	The reference associated with the location or level assigned to the user. This is available in the Organizational Structure modules.
OrgLevelType	The type of the organization level. 0. Level 1. Location
ParentOrgLevel	The ORGLOCATIONREF of the referenced OrgLevelID.
ParentorgLocationRef	The parent of the level or location.
Active	The status of the location or level. 0. Inactive 1. Active

Error Response

Table 63 – getOrgStructure Error Response

Exception	Description
LaborServiceException	There is no location with the given orgLocationRef or an error occurred while performing the web service business logic. For example, runtime exception.
InvalidRequestException	The request is not coming from the SSL accelerator when calling from a remote client.
DataCenterException	Database error.
UnsupportedLoadException	Too many client requests.

getRole

Retrieves the portal roles defined for the organization and related details.

URL Parameters

`https://server name/labor/labor/getRole`

Request Query Parameters

Table 64 –getRole Web Service Call Parameters

Parameter	Type	Description
roleName	String	The reference name associated with the portal role.
OrgLocationRef	String	The reference associated with the location or level assigned to the user. This is available in the Organizational Structure modules.

Success Response

You can find the following details in the Roles module.

Table 65 –getRole Success Response

Returned Data	Description
RoleName	The reference name associated with the portal role.
Active	The status of the role: active or inactive.
Powerrole	Indicates whether the role is a power role.

Industrysegment	The market segment of the role. For example, TSR.

Error Response

Table 66 –getRole Error Response

Exception	Description
LaborServiceException	An error occurred while performing the web service business logic. For example, runtime exception.
InvalidRequestException	The request is not coming from the SSL accelerator when calling from a remote client.
DataCenterException	Database error.
UnsupportedLoadException	Too many client requests.

11 Getting Started with the REST API

This chapter discusses:

- Authentication
- Overview of REST API Calls

Authentication

For REST API calls, you specify the API user token and password in the HTTP request header. The following table defines the values that you set for the parameters in the header. Authentication and Authorization provides more information on authentication and how to create API users to get tokens and passwords.

Table 67 – HTTP Header Parameters and Values for REST Web Services

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

Overview of REST API Calls

Use the following table to determine which API call to make:

Table 68 – Selecting a REST API Call

To…	Use…	Supported Portal Versions
Retrieve information for all employees at a location	Get All Employees	9.0: Patch 17 and higher 9.1: Patch 4 and higher
Retrieve information for one employee at a location	Get Employee	9.0: Patch 17 and higher 9.1: Patch 4 and higher
Retrieve all locations for an organization	Get All Locations	9.0: Patch 17 and higher 9.1: Patch 4 and higher
Retrieve a single location	Get a Single Location	9.0: Patch 17 and higher 9.1: Patch 4 and higher
Retrieve all timecard punches for a location	Get Timecard Punches	9.0: Patch 17 and higher 9.1: Patch 4 and higher
Retrieve information for all versions of a REST API	Get All API Versions	9.0: Patch 17 and higher 9.1: Patch 4 and higher

Retrieve information for a specific version of a REST API	Get Specific API Version	9.0: Patch 17 and higher 9.1: Patch 4 and higher

12 Employee Information (REST)

Get All Employees

Use the GET method with the following URL to retrieve information for all employees at a location:

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

URL Parameters

The following table describes the URL parameters for retrieving information for all employees at a location:

Table 69 – Retrieving All Employees from a Location: URL Parameters

Parameter	Description
`locationRef`	The location reference as defined in the column `ORGLOCATIONREF`.

Query Parameters

The following table describes the query parameters for retrieving information for all employees at a location:

Table 70 – Retrieving All Employees from a Location: Query Parameters

Parameter	Description
`sinceDate`	Optional parameter that returns only the records that have been updated since the specified date. Specify the parameter in the following format: yyyy-MM-dd'T'HH:mm:ss'Z

Sample Request

```
https://www.hostname.com/rest/services/v1/locations/BAL/employees?sinceDate=2018-01-31T08:49:30Z
```

Sample Response

The following example shows the information returned in the JSON response. The example shows only a snippet from the full response.

```
{
  "lastUpdatedDate": "2018-05-02 17:07:43",
  "count": 71,
  "items": [{
    "language": "EN-US",
```

```
    "locationRef": "BAL",
    "dateofBirth": "1980-01-01",
    "isSalaried": false,
    "rehireFlag": false,
    "checkName": "sss",
    "hireDate": "2015-02-28",
    "jobRates": [{
      "locationRef": "BAL",
      "enterprisePOSRef": 7,
      "primaryFlag": true,
      "isHomeStoreJob": true,
      "regularPayRate": 7.25,
      "excludeFromStaffReq": false,
      "fromDate": "2015-02-28"
    }],
    "hireStatus": 0,
    "lastName": "sss",
    "firstName": "sss"
  }, {
    "language": "EN-US",
    "locationRef": "BAL",
    "dateofBirth": "1977-06-09",
    "isSalaried": false,
    "rehireFlag": false,
    "checkName": "Name",
    "hireDate": "2015-06-12",
    "jobRates": [{
      "locationRef": "BAL",
      "enterprisePOSRef": 9,
      "primaryFlag": true,
      "isHomeStoreJob": true,
      "regularPayRate": 3.25,
      "excludeFromStaffReq": false,
      "fromDate": "2015-06-12"
    }],
    "hireStatus": 0,
    "lastName": "EmployeeLastName",
    "firstName": "EmployeeFirstName"
  }
```


The return includes `lastUpdatedDate`, which is a UTC timestamp of the data set. This date-time can be supplied to the `sinceDate` of a subsequent call to retrieve records updated since the last call.

Get Employee

Use the GET method with the following URL to retrieve information for one employee:

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

URL Parameters

The following table describes the URL parameters for retrieving information for one employee:

Table 71 – Retrieving Information for One Employee: URL Parameters

Parameter	Description
`locationRef`	The location reference as defined in the column `ORGLOCATIONREF`.
`externalPayrollId`	The employee's external payroll ID as defined in column `EXTERNALPAYROLLID`. In the portal, you can retrieve the ID by going to **Human Resources > Employee > General > Payroll ID**.

Sample Request

`https://www.hostname.com/rest/services/v1/locations/BAL/employees/2005`

Sample Response

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

```
{
  "language": "EN-US",
  "locationRef": "BAL",
  "dateofBirth": "1976-06-15",
  "externalPayrollID": "2005",
  "isSalaried": false,
  "rehireFlag": false,
  "checkName": "xcv",
  "hireDate": "2015-06-08",
  "jobRates": [{
    "locationRef": "BAL",
    "enterprisePOSRef": 9,
    "primaryFlag": true,
    "isHomeStoreJob": true,
    "regularPayRate": 3.25,
    "excludeFromStaffReq": false,
    "fromDate": "2015-06-08"
  }, {
    "locationRef": "COL",
```

```
    "enterprisePOSRef": 9,
    "primaryFlag": false,
    "isHomeStoreJob": false,
    "regularPayRate": 3.25,
    "excludeFromStaffReq": false,
    "fromDate": "2015-06-24"
  }, {
    "locationRef": "COL",
    "enterprisePOSRef": 10,
    "primaryFlag": true,
    "isHomeStoreJob": false,
    "regularPayRate": 7.25,
    "excludeFromStaffReq": false,
    "fromDate": "2015-06-24"
  }],
  "gender": 2,
  "hireStatus": 0,
  "lastName": "EmployeeLastName",
  "firstName": "EmployeeFirstName",
  "links": [{
    "href":
"http://localhost:80/rest/services/v1/locations/BAL/employees/200
5",
    "rel": "canonical"
  }]
}
```

13 Location Information (REST)

Get All Locations

Use the GET method with the following URL to retrieve all locations for the organization level associated with the authenticated API user:

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

Sample Response

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


```
{
  "count": 4,
  "items": [{
    "name": "Baltimore Location",
    "timeZone": "America/New_York",
    "organizationName": "myLabor Test",
    "locationRef": "BAL",
    "links": [{
      "href": "http://localhost/rest/services/v1/locations/BAL",
      "rel": "canonical"
    }]
  }, {
    "name": "Los Angeles Location",
    "timeZone": "America/Los_Angeles",
    "organizationName": "myLabor Test",
    "locationRef": "LA",
    "links": [{
      "href": "http://localhost/rest/services/v1/locations/LA",
      "rel": "canonical"
    }]
  }, {
    "name": "Columbia Location",
    "timeZone": "America/New_York",
    "organizationName": "myLabor Test",
    "locationRef": "COL",
    "links": [{
      "href": "http://localhost/rest/services/v1/locations/COL",
      "rel": "canonical"
    }]
  }, {
    "name": "Laurel Location",
    "organizationName": "myLabor Test",
    "locationRef": "LAU",
```

```
    "links": [{
      "href": "http://localhost/rest/services/v1/locations/LAU",
      "rel": "canonical"
    }]
  }],
  "links": [{
    "href": "http://localhost:80/rest/services/v1/locations",
    "rel": "canonical"
  }]
}
```

Get a Single Location

Use the GET method with the following URL to retrieve information for a single location:
`https://www.hostname.com/rest/services/v1/locations/{locationRef}`

URL Parameters

The following table describes the URL parameters for retrieving a single location:

Table 72 – Retrieving a Single Location: URL Parameters

Parameter	Description
`locationRef`	The location reference as defined in the column `ORGLOCATIONREF`.

Sample Request

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

Sample Response

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

```
{
  "name": "Baltimore Location",
  "timeZone": "America/New_York",
  "organizationName": "myLabor Test",
  "locationRef": "BAL",
  "links": [{
    "href": "http://localhost/rest/services/v1/locations/BAL",
    "rel": "canonical"
  }]
}
```

14 Timecard Information (REST)

Use the GET method with the following URL to retrieve all timecard punches for a location:

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

Prerequisite

If you are using a Simphony (POS), you must enable Employee Shift Tracking using the increment shift on clock in option to show or export chargedTips, indirectTips, directTips, grossReceipts, allChargedReceipts, chargedReceipts, and tipTotal. See Visibility of Gross Sales and Tips for instructions.

URL Parameters

The following table describes the URL parameters for retrieving timecard punches:

Table 73 – Retrieving Timecard Punches: URL Parameters

Parameter	Description
`locationRef`	The location reference as defined in the column `ORGLOCATIONREF`.

Query Parameters

The following table describes the query parameters for retrieving timecard punches:

Table 74 – Retrieving Timecard Punches: Query Parameters

Parameter	Description
`startBusinessDate`	Date range start date in the format yyyy-MM-dd. The maximum date range is two weeks.
`endBusinessDate`	Date range end date in the format yyyy-MM-dd. The maximum date range is two weeks.

Sample Request

```
https://www.hostname.com/rest/services/v1/locations/BAL/timecards?startBusinessDate=2018-06-13&endBusinessDate=2018-06-14
```

Sample Response

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

```
{
```

```
    "count": 2,
    "items": [
        {
            "businessDate": "2018-06-13",
            "clockInStatus": "84",
            "clockOutStatus": "78",
            "clockInDateTime": "2018-06-13T12:00:00Z",
            "clockOutDateTime": "2018-06-13T22:00:00Z",
            "externalPayrollId": "271",
            "chargedTips": 10,
            "indirectTips": 0,
            "timecardId": 5951,
            "jobCodeRef": "Bar01",
            "shiftType": 1,
            "directTips": 0,
            "grossReceipts": 200,
            "allChargedReceipts": 200,
            "chargedReceipts": 110
        },
        {
            "businessDate": "2018-06-14",
            "clockInStatus": "84",
            "clockOutStatus": "84",
            "clockInDateTime": "2018-06-14T02:00:00Z",
            "clockOutDateTime": "2018-06-14T03:00:00Z",
            "externalPayrollId": "271",
            "chargedTips": 0,
            "indirectTips": 10,
            "timecardId": 5953,
            "jobCodeRef": "Bar01",
            "shiftType": 0,
            "directTips": 50,
            "grossReceipts": 600,
            "allChargedReceipts": 500,
            "chargedReceipts": 200
        }
    ]
}
```


Success Response

The following is a list of all attributes of the timecards API call.

Table 75 – Timecards Success Response

Returned Data	Description
Business Date	Business date.
Clock In Status	Options include: 0 = None 69 = Early 84 = On Time 76 = Late 65 = Early From Break 66 = On Break 80 = On Paid Break 67 = Late From Break 68 = Schedule Disabled 78 = Not Scheduled 77 = Manager Clock Out 85 = Auto Clock Out 82 = Revenue Center Change
Clock Out Status	Options include: 0 = None 69 = Early 84 = On Time 76 = Late 65 = Early From Break 66 = On Break 80 = On Paid Break 67 = Late From Break 68 = Schedule Disabled 78 = Not Scheduled 77 = Manager Clock Out 85 = Auto Clock Out 82 = Revenue Center Change
Clock In Date Time	Date and time of clock in.
Clock Out Date Time	Date and time of clock out.
External Payroll ID	External payroll ID.

Returned Data	Description
Charged Tips	The value of tips posted to charge payments such as credit cards or room charges.
Indirect Tips	Cash tips that an employee (like a bus person) receives indirectly from servers or bartenders (as opposed to directly from the customer).
Timecard ID	Timecard ID.
Job Code Ref	Job code reference.
Shift Type	Options include: 0 = working shift 1 = paid break 2 = unpaid break
Direct Tips	Cash tips that a customer directly gives to an employee, such as a waiter or bartender.
Gross Receipts	The monetary value of receipts recorded by tenders configured to post to this total.
All Charged Receipts	Sum of all charged receipts.
Charged Receipts	The value of receipts recorded by tenders configured to post to this total, such as credit cards or room charges.
Revenue Center Number (PosRef)	The revenue center number where the employee was clocked in.
Revenue Center Name	The revenue center name where the employee was clocked in.
Job Code Name	The job code name used when clocked in.
Tip Total	Total tip amount.
Tips Paid Total	Total tips paid amount.
Pay Rate	The pay rate used for the job when clocked in.
Regular Hours	Number of regular hours worked.
Regular Pay	Accrued pay for regular hours worked.
Overtime 1 Hours	Number of hours worked in overtime level 1.
Overtime 1 Pay	Accrued pay for hours worked in overtime level 1.
Overtime 2 Hours	Number of hours worked in overtime level 2.
Overtime 2 Pay	Accrued pay for hours worked in overtime level 2.
Overtime 3 Hours	Number of hours worked in overtime level 3.

Returned Data	Description
Overtime 3 Pay	Accrued pay for hours worked in overtime level 3.
Overtime 4 Hours	Number of hours worked in overtime level 4.
Overtime 4 Pay	Accrued pay for hours worked in overtime level 4.
Premium Pay	Accrued pay for hours worked with premium pay.
Premium Hours	Number of hours worked accruing premium pay.

15 REST API Versioning

Labor Management REST APIs follow 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 76 – 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"}
  ]
}
```