

Employee API

Employee API is a RESTful API for creating, updating and fetching employee details in Cornerstone. This starter guide provides an overview of some of the basic features supported by the Employee API. The document describes the operations to get, create and update employee data in Cornerstone. More specifically, it describes the operations supported by the following endpoints:

- /services/api/x/users/v1/employees/{id}
- /services/api/x/users/v1/employees

There are several other endpoints for the Employee API that support additional functionality. Please refer to the [API Explorer](#) for a complete list of Employee API endpoints, supported features, throttling limits and sample code.



Enable Employee API

If you have already purchased Cornerstone's APIs (sometimes also referred as 'CSOD web services'), the Employee API is already available for you. You will need to ensure that the appropriate permissions are assigned to the user who is calling the Employee API endpoint.

Authentication

Cornerstone APIs require you to authenticate every request with a digital signature. The signature is calculated using a cryptographic hash function, a one-way encryption which returns a unique hash based on the input. The input includes data from your HTTP request. The signature is included in your request as a header.

After receiving your request, the Cornerstone APIs recalculate the signature using the same hash function and input sent in the request. The resulting hash is compared to the attached signature, if they match, the request is accepted, otherwise it is rejected.

Before you can sign your requests, you need to acquire an API Key and Secret. To retrieve your API Key and Secret navigate to **Tools → Admin → Edge → Integrations → Manage APIs**.

With an API Key and Secret in hand, you can begin your service call workflow:

1. Construct your canonical request for a session token
2. Sign it with your API secret
3. Send the request
4. Receive a session token info
5. Construct your canonical service call request to call the Employee API endpoint
6. Sign it with your session token secret
7. Send the request

Additional details, including sample code to generate the signature can be found in the API Explorer. You can get to the API Explorer by navigating to **Tools → Admin → Edge → API Explorer → Cornerstone Core/CHR Services → View API**. Alternatively, if you wish to provide access to the API Explorer to your team members who do not have access to your CSOD portal, you can refer them to the publicly available link for the [API Explorer](#). No permissions or backend settings are needed to access this link

Employee API – GET

The GET operation allows you to retrieve user information from your CSOD portal. All business rules configured in the portal are observed by this operation.

The GET operation supports both single and bulk user queries. The single user query returns information for a single user based on the provided ID. The bulk query returns information for all users who meet the criteria provided in the request query. However, please note that the bulk response does not include custom fields and groups. This allows the API to provide responses within a reasonable timeframe without significantly



impacting performance when data for several users is returned. Custom fields and groups are included in single user queries.

Endpoints

- Bulk: <https://{corpname}.csod.com/services/api/x/users/v1/employees>
- Single user:
 - <https://{corpname}.csod.com/services/api/x/users/v1/employees/{id}>
 - <https://{corpname}.csod.com/services/api/x/users/v1/employees/userid-{ref}>
 - <https://{corpname}.csod.com/services/api/x/users/v1/employees/guid-{guid}>

where corpname is your portal name. For your pilot or stage environments, append '-pilot' or '-stg' respectively to your portal name in the URL

Query Parameters

The GET operation supports querying on the following user attributes. The **id** and **userid** attributes are the only available attributes for a single user query.

Field Name	Description
id	DB_ID of user
userid	Id of User (Ref)
firstName	User's first name
lastName	User's last name
guid	Unique GUID of user
lastModified	Date when user's details were last modified
createDate	Date when user record was first created in CSOD
pageNumber	Attribute to page through the result set
pageSize	Default max pagesize is 50. Page size parameter can be varied between 1 to 50.
includeInactive	Boolean value indicating if inactive employees should be included in the response. By default only active employees are included in the response.

Your query parameters should be included in the URL. Here's an example to get you started:

```
https://{corpname}.csod.com/services/api/x/users/v1/employees?id={id}&userid={userid}&lastname={lastname}&firstname={firstname}&guid={guid}&lastmodified={lastmodified}&createdate={createdate}&pagenumber={pagenumber}&pagesize={pagesize}&includeInactive={includeInactive}
```

Pagination

You can page the result set by controlling the number of records returned in each page. Use the **pagesize** parameter in the URL query to indicate number of records you wish to receive in each page – this must be between 1 and 50. You can use the **pagenumber** parameter in the URL query to then **page** through each result page. If the **pagesize** parameter is not specified in the request, the API returns 50 records per page by default.

Localization

Localization is supported for OUs and custom fields in the response. The response data will be in the language of the user querying the service i.e. the language of the user ID in the session token service call. For example, if the user's language is "United States" ("en-US"), the response will be in "United States" ("en-US"). If the user's language is "United Kingdom" ("en-GB") then the response will be in "United Kingdom" ("en-GB").

Response Parameters

Successful Operation

The following fields are returned in the response if the API is able to successfully validate the query parameters in the request.



Field	Field Type	Description
id	string	Internal identifier to uniquely identify a user
userId	string	User's user ID
username	string	User's username
guid	string	System generated unique identifier for the user
firstName	string	User's first name
lastName	string	User's last name
middleName	string	User's middle name
prefix	string	User's prefix
suffix	string	User's suffix
primaryEmail	string	User's primary email address. This is typically a company issued email address.
personalEmail	string	User's personal email address. This field is typically used by ATS clients.
homePhone	string	User's home phone number
mobilePhone	string	User's mobile phone number
workPhone	string	User's work phone number
fax	string	User's fax number
address	Parent node	Parent node for address fields
country	string	Address country
line1	string	Address line 1
line2	string	Address line 2
city	string	Address city
state	string	Address state
zipCode	string	Address zip code
workerStatus	Parent node	Parent node for fields that indicate a user's status in the system
lastHireDate	datetime	Date when the user was last hired
originalHireDate	datetime	Date when the user was originally hired
active	boolean	User's active status. This is a Boolean field.
absent	boolean	Indicates if a user is absent. This is a Boolean field.
settings	Parent node	Parent node for user's portal settings
displayLanguage	string	Indicates the user's preferred display language
timeZone	string	Indicates the user's time zone
trainingApprovals	bit	Indicates the number of training approvals required for the user
manager	Parent node	Parent node for user's manager details
id	int	Internal identifier that uniquely identifies the user's manager
userId	string	Manager's user ID
firstName	string	Manager's first name
lastName	string	Manager's last name
approver	Parent node	Parent node for user's approver details
id	Int	Internal identifier that uniquely identifies the user's approver
userId	string	Approver's user ID
firstName	string	Approver's first name
lastName	string	Approver's last name
relations	List	Parent node for the user's relations. This is an array/list attribute i.e. there can be multiple entries within this parent node.
id	Int	Internal identifier that uniquely identifies the related user
userId	string	Related user's User ID
firstName	string	Related user's first name
lastName	string	Related user's last name
relationType	string	Identifies the type of relationship between the user and the related user
Ous	List	Parent node for the user's organizational units (OUs). This is an array/list attribute i.e. there can be multiple entries within this parent node.



Field	Field Type	Description
		<i>This node does not include custom OUs.</i>
id	Int	Internal identifier that uniquely identifies the OU
ould	string	OU ID
name	string	OU name
type	string	OU type
selfRegistrationGroup	Parent node	Parent node for the user's self-registration group.
id	Int	Internal identifier that uniquely identifies the self-registration group
ould	string	ID of the self-registration group as configured in the system
name	string	Self-registration group's name
type	string	Always static value of 'self-registration group'
Groups	List	Parent node for the user's groups. This is an array attribute i.e. there can be multiple entries within this parent node. This node only includes data for single user queries. For bulk queries this node will return NULL.
Id	int	Internal identifier that uniquely identifies the group
ould	string	OU ID
name	string	Group's name
Type	string	Always static value of 'Group'
customOUs	List	Parent node for the user's custom OUs. This is an array attribute i.e. there can be multiple entries within this parent node.
id	int	Internal identifier that uniquely identifies the custom OU
ould	string	Custom OU ID
name	string	Custom OU name
type	string	Custom OU type
customFields	List	Parent node for user custom fields. This is an array attribute i.e. there can be multiple entries within this parent node. This node only includes data for single user queries. For bulk queries this node will return NULL. See example below for how values in a multi-checkbox custom field are returned.
id	Int	Internal identifier that uniquely identifies the custom field
name	string	Custom field name
value	string	Custom field value. <i>This does not apply for multi select checkbox custom fields.</i>
value	list	Only applies to multi select checkbox custom fields. This is an array attribute i.e. there can be multiple entries within this parent node.
valueId	Int	Internal identifier that uniquely identifies the multi select option
title	string	Multiselect option value
isSelected	boolean	Boolean value that indicates if this value is selected in the multiselect checkbox custom field.
employeeMetaData	Parent node	User meta data
createdDate	datetime	Date when the user record was created in the system
modifiedDate	datetime	Date when the user record was last modified in the system

Unsuccessful Operation

The API returns the following fields in the response when an error is encountered.



ID	Field	Field Type	Description
1	status	String	Response status
2	pageInfo	String	
3	timestamp	datetime	
4	correlationId	String	
5	error	List	Lists each field in the query parameter that contains an error

Sample Response

Single User Response

```
{
  "status": "Success",
  "timestamp": "2017-11-20T17:04:33.9001306Z",
  "data": {
    "id": 1465,
    "userId": "XUser95",
    "userName": "XUser95",
    "guid": "9c38b907-8cf1-4514-9672-06f8292a5452",
    "firstName": "Test",
    "lastName": "User1",
    "middleName": "XMiddleName95",
    "prefix": "Mr.",
    "suffix": "Sr.",
    "primaryEmail": "XUser95@csod.com",
    "personalEmail": "XPerUser95@csod.com",
    "homePhone": "000-1234561",
    "mobilePhone": "101-960-4567-891",
    "workPhone": "3456781-908",
    "fax": "3442387483274",
    "address": {
      "country": "USA",
      "line1": "100 Main St",
      "line2": "Suite 600",
      "city": "Santa Monica",
      "state": "CA",
      "zipCode": "90404"
    },
    "workerStatus": {
      "lastHireDate": "1998-12-28T00:00:00",
      "originalHireDate": "1998-12-28T00:00:00",
      "active": true,
      "absent": false,
    },
    "settings": {
      "displayLanguage": "English (US)",
      "timeZone": "(UTC-07:00) Mountain Time (US & Canada)",
      "trainingApprovals": 2
    },
    "manager": {
      "id": 1335,
      "userId": "CSODTEST100",
      "firstName": "CSOD",
      "lastName": "Test"
    },
    "approver": {
      "id": 1336,
      "userId": "wstestuser_11July",
      "firstName": "WSTest",
      "lastName": "User1"
    },
    "relations": [
      {
        "relationType": "First_DER Relationship",
        "id": 170,
        "userId": "WSTESTUSER011920160457",
      }
    ]
  }
}
```



```

        "firstName": "WS Test",
        "lastName": "WSTESTUSER011920160457"
    },
    {
        "relationType": "First_DER New",
        "id": 1374,
        "userId": "test_userId1",
        "firstName": "test_userFirstName",
        "lastName": "test_userLastName"
    }
],
"ous": [
    {
        "id": 10,
        "ouId": "CSAD",
        "name": "Cornerstone Administration Division",
        "type": "Division"
    },
    {
        "id": 11,
        "ouId": "CSAP",
        "name": "Cornerstone Administrator Position",
        "type": "Position"
    }
],
"selfRegistrationGroup": {
    "id": 85,
    "ouId": "hw-core-selfreg",
    "name": "hw-core-selfreg",
    "type": "Self Registration Group"
},
"groups": [
    {
        "id": 99,
        "ouId": "",
        "name": "MZ all users",
        "type": "Group"
    },
    {
        "id": 100,
        "ouId": "",
        "name": "MZ all users checkbox",
        "type": "Group"
    }
],
"customOus": [
    {
        "id": 3982,
        "ouId": "Test Custom OU1",
        "name": "Test Custom OU1",
        "type": "Custom OU Type1"
    }
],
"customFields": [
    {
        "id": 6,
        "name": "Test Dropdown ",
        "value": "Dropdown1"
    },
    {
        "id": 26,
        "name": "Test Radio Button",
        "value": "Option1"
    },
    {
        "id": 21,
        "name": "Country - Branched Drop Down - Parent",
        "value": "USA"
    }
]

```

```

    },
    {
      "id": 40,
      "name": "States - Branched Drop Down - Child",
      "value": "California"
    },
    {
      "id": 3,
      "name": "Multi Checkbox User",
      "value": [
        {
          "valueId": 4,
          "title": "Option 1",
          "isSelected": true
        },
        {
          "valueId": 5,
          "title": "Option 2",
          "isSelected": true
        }
      ]
    }
  ],
  "employeeMetaData": {
    "createdDate": "2017-10-27T11:18:30.607",
    "modifiedDate": "2017-11-20T14:34:13.027"
  }
}

```

Bulk Response

```

{
  "status": "Success",
  "timestamp": "2018-01-11T14:36:09.6474578Z",
  "data": {
    "employees": [
      {
        "id": 1465,
        "userId": "XUser95",
        "userName": "XUser95",
        "guid": "9c38b907-8cf1-4514-9672-06f8292a5452",
        "firstName": "Test",
        "lastName": "User1",
        "middleName": "XMiddleName95",
        "prefix": "Mr.",
        "suffix": "Sr.",
        "primaryEmail": "XUser95@csod.com",
        "personalEmail": "XPerUser95@csod.com",
        "homePhone": "000-1234561",
        "mobilePhone": "101-960-4567-891",
        "workPhone": "3456781-908",
        "fax": "3442387483274",
        "address": {
          "country": "USA",
          "line1": "100 Main St",
          "line2": "Suite 600",
          "city": "Santa Monica",
          "state": "CA",
          "zipCode": "90404"
        },
        "workerStatus": {
          "lastHireDate": "1998-12-28T00:00:00",
          "originalHireDate": "1998-12-28T00:00:00",
          "active": true,
          "absent": false,
        },
        "settings": {
          "displayLanguage": "English (US)",

```



```

        "timeZone": "(UTC-07:00) Mountain Time (US & Canada)",
        "trainingApprovals": 2
    },
    "manager": {
        "id": 1335,
        "userId": "CSODTEST100",
        "firstName": "CSOD",
        "lastName": "Test"
    },
    "approver": {
        "id": 1336,
        "userId": "wstestuser_11July",
        "firstName": "WSTest",
        "lastName": "User1"
    },
    "relations": [
        {
            "relationType": "First_DER Relationship",
            "id": 170,
            "userId": "WSTESTUSER011920160457",
            "firstName": "WS Test",
            "lastName": "WSTESTUSER011920160457"
        },
        {
            "relationType": "First_DER New",
            "id": 1374,
            "userId": "test_userId1",
            "firstName": "test_userFirstName1",
            "lastName": "test_userLastName1"
        }
    ],
    "ous": [
        {
            "id": 10,
            "ouId": "CSAD",
            "name": "Cornerstone Administration Division",
            "type": "Division"
        },
        {
            "id": 11,
            "ouId": "CSAP",
            "name": "Cornerstone Administrator Position",
            "type": "Position"
        }
    ],
    "selfRegistrationGroup": {
        "id": 85,
        "ouId": "hw-core-selfreg",
        "name": "hw-core-selfreg",
        "type": "Self Registration Group"
    },
    "groups": null,
    "customOus": [
        {
            "id": 3982,
            "ouId": "Test Custom OU1",
            "name": "Test Custom OU1",
            "type": "Custom OU Type1"
        }
    ],
    "customFields": null,
    "employeeMetaData": {
        "createdDate": "2017-10-27T11:18:30.607",
        "modifiedDate": "2017-11-20T14:34:13.027"
    }
},
{
    "id": 1294,
    "userId": "YUser96",

```




```

"userName": "YUser96",
"guid": "d1d50f66-e4d1-47c9-9725-35589a2aa171",
"firstName": "abc",
"lastName": "abc",
"middleName": null,
"prefix": null,
"suffix": null,
"primaryEmail": "",
"personalEmail": null,
"homePhone": null,
"mobilePhone": "9988998899",
"workPhone": null,
"fax": null,
"address": {
  "country": "USA",
  "line1": "String1",
  "line2": "String2",
  "city": "SM",
  "state": null,
  "zipCode": null
},
"workerStatus": {
  "lastHireDate": null,
  "originalHireDate": null,
  "active": true,
  "absent": false
},
"settings": {
  "displayLanguage": "",
  "timeZone": "",
  "trainingApprovals": 1
},
"manager": null,
"approver": null,
"relations": null,
"ous": [
  {
    "id": 77,
    "ouId": "hw division1",
    "name": "hw division1",
    "type": "Division"
  }
],
"selfRegistrationGroup": null,
"groups": null,
"customOus": null,
"customFields": null,
"employeeMetaData": {
  "createdDate": "2017-04-19T13:50:26.267",
  "modifiedDate": "2017-04-19T13:51:30.44"
}
}
],
"size": 2,
"start": 1,
"total": 1279
}
}

```

Employee API – POST

The POST operation allows you to create a new user in your CSOD Portal. All business rules configured in the portal are observed by this operation.

Endpoints

<https://{corpname}.csod.com/services/api/x/users/v1/employees>



where corpname is your portal name. For your pilot or stage environments, append '-pilot' or '-stg' respectively to your portal name in the URL

Request Parameters

The following table lists the user fields that can be sent in the POST operation.

Field	Field Type	Length	Mandatory	Description
userId	string	100	Mandatory	User's user ID. <i>Must be unique in the system.</i>
username	string	128	Mandatory	User's username. <i>Must be unique in the system.</i>
firstName	string	200	Mandatory	User's first name
lastName	string	200	Mandatory	User's last name
middleName	string	200		User's middle name
prefix	string	10		User's prefix
suffix	string	10		User's suffix
primaryEmail	string	128		User's primary email address. This is typically a company issued email address. <i>Must be unique in the system.</i>
personalEmail	string	128		User's personal email address. This field is typically used by ATS clients.
homePhone	string	30		User's home phone number
mobilePhone	string	30		User's mobile phone number
workPhone	string	30		User's work phone number
fax	string	100		User's fax number
address	Parent node			Parent node for address fields
Country	string	100		Address country
line1	string	110		Address line 1
line2	string	55		Address line 2
City	string	35		Address city
State	string	30		Address state
zipCode	string	20		Address zip code
workerStatus	Parent node			Parent node for fields that indicate a user's status in the system
lastHireDate	datetime			Date when the user was last hired
originalHireDate	datetime			Date when the user was originally hired
active	boolean			User's active status. This is a Boolean field. Valid values are true/false.
absent	boolean			Indicates if a user is absent. This is a Boolean field. Valid values are true/false.
settings	Parent node			Parent node for user's portal settings
displayLanguage	string	200		Indicates the user's preferred display language
timeZone	string	400		Indicates the user's time zone
trainingApprovals	bit			Indicates the number of training approvals required for the user
manager	Parent node			Parent node for user's manager details
id	int		One of the two fields are required.	Internal identifier that uniquely identifies the user's manager
userId	string	100		Manager's user ID
approver	Parent node			Parent node for user's approver details



Field	Field Type	Length	Mandatory	Description
id	Int		One of the two fields are required.	Internal identifier that uniquely identifies the user's approver
userId	string	100		Approver's user ID
relations	List			Parent node for the user's relations. This is an array/list attribute i.e. there can be multiple entries within this parent node.
id	Int		One of the two fields are required.	Internal identifier that uniquely identifies the related user
userId	string	100		Related user's User ID
relationType	string		Mandatory	Identifies the type of relationship between the user and the related user
Ous	List		Mandatory for OUs marked as required on the user record	Parent node for the user's organizational units (OUs). This is an array/list attribute i.e. there can be multiple entries within this parent node. This node does not include custom OUs.
id	Int		Any one of three fields are required.	Internal identifier that uniquely identifies the OU
oid	string	128		OU ID
name	string	200		OU name. <i>If more than one OU matches the name in the request, then an error is returned.</i>
type	string	400	Mandatory	OU type
selfRegistrationGroup	Parent node			Parent node for the user's self-registration group.
id	Int		Any one of three fields are required.	Internal identifier that uniquely identifies the self-registration group
oid	string	128		ID of the self-registration group as configured in the system
name	string	200		Self-registration group's name. <i>If more than one self-registration group matches the name in the request, then an error is returned.</i>
type	string	400	Mandatory	Always static value of 'self-registration group'
customOUs	List		Mandatory for OUs marked as required on the user record	Parent node for the user's custom OUs. This is an array attribute i.e. there can be multiple entries within this parent node.
id	int		Any one of three fields are required.	Internal identifier that uniquely identifies the custom OU
oid	string	128		Custom OU ID
name	string	200		Custom OU name <i>If more than one OU matches the name in the request, then an error is returned.</i>
type	string	400	Mandatory	Custom OU type
customFields	List		Mandatory for custom fields marked as	Parent node for user custom fields. This is an array attribute i.e. there can be multiple entries within this parent node.



Field	Field Type	Length	Mandatory	Description
			required on the user record	See example below for how values in a multi-checkbox custom field are returned.
id	Int		Any one of the two fields are required.	Internal identifier that uniquely identifies the custom field
name	string	128		Custom field name. <i>If name matches more than one custom field, an error is returned.</i> <i>For branched dropdown fields, include both the parent and the child branched dropdown as separate custom fields.</i>
value	string			Custom field value. This does not apply for multi select checkbox custom fields.
value	list			Only applies to multi select checkbox custom fields. This is an array attribute i.e. there can be multiple entries within this parent node.
valueId	Int			Internal identifier that uniquely identifies the multi select option
title	string	128	Mandatory for multiselect checkbox custom fields	Multiselect option value
isSelected	boolean		Mandatory for multiselect checkbox custom fields	Boolean value that indicates if this value is selected in the multiselect checkbox custom field. Valid values true, false, yes, no
reasonforChange	string		Mandatory if 'Reason for Change' feature under User Preferences is enabled in the portal	Only applies to PATCH operation. Does not apply to POST. Value must be a standard value or a custom value defined in the portal.

Sample Request

```
{
  "userId": "XUser95",
  "userName": "XUser95",
  "firstName": "Test",
  "lastName": "User1",
  "middleName": "XMiddleName95",
  "prefix": "Mr.",
  "suffix": "Sr.",
  "primaryEmail": "XUser95@csod.com",
  "personalEmail": "XPerUser95@csod.com",
  "homePhone": "000-1234561",
  "mobilePhone": "101-960-4567-891",
  "workPhone": "3456781-908",
  "fax": "3442387483274",
  "address": {
```



```

    "country": "USA",
    "line1": "100 Main St",
    "line2": "Suite 600",
    "city": "Santa Monica",
    "state": "CA",
    "zipCode": "90404"
  },
  "workerStatus": {
    "lastHireDate": "1998-12-28T00:00:00",
    "originalHireDate": "1998-12-28T00:00:00",
    "active": true,
    "absent": false,
  },
  "settings": {
    "displayLanguage": "English (US)",
    "timeZone": "(UTC-07:00) Mountain Time (US & Canada)",
    "trainingApprovals": 2
  },
  "manager": {
    "id": 1335,
    "userId": "CSODTEST100",
    "firstName": "CSOD",
    "lastName": "Test"
  },
  "approver": {
    "id": 1336,
    "userId": "wstestuser_11July",
    "firstName": "WSTest",
    "lastName": "User1"
  },
  "relations": [
    {
      "relationType": "First_DER Relationship",
      "id": 170,
      "userId": "WSTESTUSER011920160457",
      "firstName": "WS Test",
      "lastName": "WSTESTUSER011920160457"
    },
    {
      "relationType": "First_DER New",
      "id": 1374,
      "userId": "test_userId1",
      "firstName": "test_userFirstName1",
      "lastName": "test_userLastName1"
    }
  ],
  "ous": [
    {
      "id": 10,
      "ouId": "CSAD",
      "name": "Cornerstone Administration Division",
      "type": "Division"
    },
    {
      "id": 11,
      "ouId": "CSAP",
      "name": "Cornerstone Administrator Position",
      "type": "Position"
    }
  ],
  "selfRegistrationGroup": {
    "id": 85,
    "ouId": "hw-core-selfreg",
    "name": "hw-core-selfreg",
    "type": "Self Registration Group"
  },
  "groups": [
    {
      "id": 99,

```



```

        "ouId": "",
        "name": "MZ all users",
        "type": "Group"
    },
    {
        "id": 100,
        "ouId": "",
        "name": "MZ all users checkbox",
        "type": "Group"
    }
],
"customOus": [
    {
        "id": 3982,
        "ouId": "Test Custom OU1",
        "name": "Test Custom OU1",
        "type": "Custom OU Type1"
    }
],
"customFields": [
    {
        "id": 6,
        "name": "Test Dropdown",
        "value": "Dropdown1"
    },
    {
        "id": 26,
        "name": "Test Radio Button",
        "value": "Option1"
    },
    {
        "id": 21,
        "name": "Country - Branched Drop Down - Parent",
        "value": "USA"
    },
    {
        "id": 40,
        "name": "State - Branched Drop Down - Child",
        "value": "California"
    },
    {
        "id": 3,
        "name": "Multi Checkbox User",
        "value": [
            {
                "valueId": 4,
                "title": "Option 1",
                "isSelected": true
            },
            {
                "valueId": 5,
                "title": "Option 2",
                "isSelected": true
            }
        ]
    }
]
}

```

Response Parameters

Successful Operation

The API returns the following fields when the POST operation is successful.

ID	Field	Field Type	Description
1	status	string	Response status. '0' indicates successful operation.



2	timestamp	datetime	
3	id	string	Internal identifier that uniquely identifies the newly created user
4	url	String	URL to retrieve user's details. Format: https://corpname.csod.com/services/api/x/users/v1/employees/{id}

Here's an example of a JSON response indicating a successful operation.

```
{
  "status": 0,
  "pageInfo": null,
  "timestamp": "2017-09-28T13:01:06.3540515Z",
  "data": {
    "id": 2395,
    "url": "/services/api/x/employees/2395"
  }
}
```

Unsuccessful Operation

The API returns the following fields when the POST operation is not successful.

ID	Field	Field Type	Description
1	status	String	Response status
2	timestamp	Datetime	
3	correlationId	String	
4	error	List	Lists each error at the field level. See below for additional details on the types of errors.

The POST operation validates the request parameters against the following rules.

ID	Rule	Resolution
1	Required fields are missing	Include valid values in the request for required fields
2	Exceeded the maximum number of allowed characters.	Reduce the number of characters based on the prescribed character limit
3	Invalid value	Ensure the values included in OUs, custom fields, manager, approver fields are configured in the system or use only values that are configured in the system
4	UserId The value provided for this field must be unique across the system. --or-- The provided user ID matches an existing Username, which is not allowed.	User ID already exists in the system. Use a different User ID.
5	UserName The value provided for this field must be unique across the system. --or-- The provided user name matches an existing User ID, which is not allowed.	User name already exists in application. Try with different user name.
6	Branched Dropdowns: Missing parent custom field	Dependent parent value in a branched drop down is either missing or not provided
7	Personal Email The value provided for this field must be unique across the system.	Email ID is already assigned to another user. Try with different Email ID.
8	Personal Email The provided e-mail address doesn't have the correct format.	Email ID is not in a valid format. Verify email address is in the right format.



ID	Rule	Resolution
9	User not authorized.	User is not authorized to perform this operation. Please ensure the right security roles are assigned to the user calling the API.

Employee API – PATCH

The PATCH operation lets you update existing data or add missing data to a user's record. All business rules configured in the portal are observed by this operation.

Endpoints

- <https://{corpname}.csod.com/services/api/x/users/v1/employees/{id}>
- <https://{corpname}.csod.com/services/api/x/users/v1/employees/userid-{ref}>

where corpname is your portal name. For your pilot or stage environments, append '-pilot' or '-stg' respectively to your portal name in the URL. {id} is the unique internal identifier returned by the GET operation, and {ref} is the user's User ID.

Request Parameters

The PATCH operation accepts the same list of parameters as the POST operation. For the list of parameters accepted, click [here](#).

Sample Request

Since, the PATCH operation accepts the same set of fields as the POST operation, you can use the same sample JSON requests. You can refer to the sample request for POST [here](#). Note that the PATCH operation accepts partial list of fields in the request – the entire payload does not have to be sent each time. Here are some examples of partial payloads for the PATCH operation.

User Identity Fields

```
{
  "userId": "test13_user13_update"
}

{
  "userName": "test13_user13_update"
}
```

Basic user information, address, manager and OUs

```
{
  "firstName": "new_FirstName",
  "lastName": "new_LastName",
  "middleName": "new_MiddleName",
  "prefix": "new_Prefix",
  "suffix": "new_suffix",
  "primaryEmail": "new_Email@gmail.com",
  "personalEmail": "new_PersonalEmail@gmail.com",
  "homePhone": "223456799",
  "mobilePhone": "323456799",
  "workPhone": "123456799",
  "fax": "423456799"
}

{
  "address": {
    "country": "AUS",
    "line1": "line1",
    "line2": "line2",
    "city": "city",
    "state": "state",

```




```

        "zipCode": "000000"
    }
}

{
    "manager": {
        "userId": "johndoe"
    },
    "approver": {
        "userId": "janedoe"
    }
}

{
    "ous": [{
        "ouId": "ENG01",
        "type": "Division"
    }]
}

```

Custom Fields

```

{
    "customFields": [
        {
            "name": "Employment Type",
            "value": "Salaried"
        }
    ]
}

{
    "customFields": [{
        "id": 504,
        "name": "Meal preference",
        "value": [{
            "valueId": 203,
            "title": "Gluten Free",
            "isSelected": false
        }, {
            "valueId": 205,
            "title": "Vegetarian",
            "isSelected": true
        }, {
            "valueId": 206,
            "title": "Soy Allergy",
            "isSelected": true
        }
    ]
}
}

```

Response Parameters

Successful Operation

The API returns the following fields when the PATCH operation is successful.

ID	Field	Field Type	Description
1	status	String	Response status. '0' indicates successful operation.
2	timestamp	datetime	
3	id	String	Internal identifier that uniquely identifies the newly created user
4	url	String	URL to retrieve user's details. Format: https://corpname.csod.com/services/api/x/users/v1/employees/{id}



Here's an example of a JSON response indicating a successful operation.

```
{
  "status": 0,
  "pageInfo": null,
  "timestamp": "2017-09-28T13:01:06.3540515Z",
  "data": {
    "id": 2395,
    "url": "/services/api/x/employees/2395"
  }
}
```

Unsuccessful Operation

The API returns the following fields when the PATCH operation is not successful.

ID	Field	Field Type	Description
1	status	String	Response status
2	pageInfo	String	
3	timestamp	Datetime	
4	correlationId	String	
5	error	List	Lists each error at the field level. See below for additional details on the types of errors.

The PATCH operation validates the request parameters against the following rules.

ID	Rule	Resolution
1	Invalid value	Ensure the values included in OUs, groups, country, custom fields, manager, approver fields are configured in the system or use only values that are configured in the system.
2	UserId The value provided for this field must be unique across the system. --or-- The provided User ID matches an existing Username, which is not allowed.	User ID already exists in the system. Use a different User ID.
3	UserName The value provided for this field must be unique across the system. --or-- The provided User name matches an existing User ID, which is not allowed.	User name already exists in application. Try with different user name.
4	Branched Dropdowns: Missing parent custom field	Dependent parent value in a branched drop down is either missing or not provided
5	User not found	The user provided in the request is not present in the system
6	User not authorized.	User is not authorized to perform this operation. Please ensure the right security roles are assigned to the user calling the API.



Permissions

All permissions related to the Employee API can be found under the **Edge** category in Security Role Administration. The permissions to access Employee API are **Employee API - Edit** and **Employee API - View**.

- Users must have the **Employee API - Edit** permission to create and edit user records through the POST and PATCH operation



- Users must have the **Employee API - View** permission to retrieve user records through the GET operation

