

S4Labour WebAPI Extensions

The S4Labour WebAPI needs to be changed to accommodate a new type of consumer that will be able to alter and add data directly to our database. This new API access role will have exclusive access to a new method to create new starters.

There will also be new support methods, accessible by all consumers, that list the key values for reference tables used in the employee creation process.

As normal, the user must log in to the API to acquire a "sessionID", which must then be included in all subsequent method calls.

This "session" will expire after five minutes, and restricts information requests to 20 in a minute.

Controllers and new methods

New Starters

This is a single web method that allows for the creation of a new employee record in S4 Labour.

Update (HttpPost)

<https://api.s4labour.com/api/NewStarter/Update/>

This accepts a HTTP Post request.

Only accounts with the update role will have access to this method.

The content of this request must contain a JSON string.

| Property | Data type | Validation |
|----------------|-----------|------------------|
| sessionID | String | Mandatory |
| SiteID | int | Mandatory |
| Title | int | Conditional |
| Forename | string | Mandatory |
| Initial | string | <i>Optional</i> |
| Surname | string | Mandatory |
| KnownAs | string | Conditional |
| DateOfBirth | string | Mandatory |
| EmployeeNumber | string | Conditional |
| NINumber | string | Conditional |
| Gender | int | Mandatory |
| MaritalStatus | int | Mandatory |
| EmailAddress | string | Conditional |

| | | |
|--------------------|---------|------------------|
| PhoneNumber | string | <i>Optional</i> |
| MobileNumber | string | <i>Optional</i> |
| Nationality | int | Conditional |
| Address1 | string | <i>Optional</i> |
| Address2 | string | <i>Optional</i> |
| Address3 | string | <i>Optional</i> |
| Address4 | string | <i>Optional</i> |
| Postcode | string | <i>Optional</i> |
| Country | string | <i>Optional</i> |
| Information | string | <i>Optional</i> |
| StartDate | string | Mandatory |
| ContractedHours | decimal | <i>Optional</i> |
| ContractedDays | decimal | <i>Optional</i> |
| ContractedHolidays | decimal | <i>Optional</i> |
| Bank | string | Conditional |
| BuildingSocietyNo | string | Conditional |
| AccountName | string | Conditional |
| AccountNumber | string | Conditional |
| SortCode | string | Conditional |
| ICEContact | string | Conditional |
| ICERelationship | string | Conditional |
| ICEPhoneNumber | string | Conditional |
| Position | int | Mandatory |
| PayType | int | Mandatory |
| PayRate | decimal | Mandatory |
| UpperRate | decimal | <i>Optional</i> |
| Overtime | int | <i>Optional</i> |

Some fields are conditionally mandatory based on the values specified in the Additional Features of the Organisation.

Special Processing

| Property | Validation |
|-----------------|---|
| EmployeeNumber | If "Auto Generate Employee Number" is checked, then an exception will be thrown if a value is specified. This field is mandatory if the "Employee Number is Required" option is checked. |
| KnownAs | This field is mandatory if the "Known as is Required" option is checked. |
| NINumber | This field is mandatory if the "NI Number as is Required" option is checked. |
| Nationality | This field is mandatory if the "Nationality is Required" option is checked. |
| EmailAddress | This field is mandatory if the "Email Address is Required" option is checked. |
| ICEPhoneNumber | This field is mandatory if the "Emergency Contact Number is Required" option is checked. |
| ICEContact | This field is mandatory if the "EmergencyContactName is Required" option is checked. |
| ICERelationship | This field is mandatory if the "Relationship is Required" option is checked. |
| Title | This field is mandatory if the "Title is Required" option is checked. |

| | |
|--------------------|---|
| | If a value is specified, it must be a valid option from the Titles reference method. |
| AccountName | This field is mandatory if the "Account Name is Required" option is checked. |
| AccountNumber | This field is mandatory if the "Account Number is Required" option is checked. |
| SortCode | This field is mandatory if the "Sort Code is Required" option is checked. |
| BuildingSocietyNo | This field is mandatory if the "Building Society Roll Number is Required" option is checked. |
| Gender | This is always a mandatory field. The value specified must be a valid option from the Genders reference method. |
| MaritalStatus | This is always a mandatory field. The value specified must be a valid option from the Marital Status reference method. |
| ContractedHours | This is an optional field. For salaried pay types (Salary, Weekly, Daily) this will default to 48 if no value is provided. Otherwise, this will default to 0 (zero) if no value is provided. |
| ContractedDays | This is an optional field. For salaried pay types (Salary, Weekly, Daily) this will default to 5 if no value is provided. Otherwise, this will default to 0 (zero) if no value is provided. |
| ContractedHolidays | This is an optional field. This will default to 28 if no value is provided. |
| Overtime | This is an optional field. Overtime can either be true (1) or false (0) and is only supported for the "Weekly" paytype. |
| UpperRate | This is an optional field If not supplied or 0, defaults to PayRate. Must never be less than PayRate. |

Some employee details have special validation, or requirements, based on the site:

| Property | Validation |
|----------|--|
| Position | This must be a valid [positions].[PositionId], where the physicalsiteid is suitable for the "SiteID" specified (see the Positions reference method for a suitable list). |
| PayType | This must be a valid pay type for the site specified (see the Pay Types reference method for a suitable list). |
| PayRate | This rate of pay must satisfy the NMW requirements for the Start Date specified. |

For example:

```
{ "sessionID": "Z2mlbm5AxXdlssR7LmNvbTi0NDg5MTE=", "SiteID": 11, "Title": 1, "Forename": "Test", "Initial": "T", "Surname": "Tester II", "KnownAs": "Testy", "DateOfBirth": "2017-12-19", "EmployeeNumber": "emptest1", "NINumber": "123456", "Gender": 3, "MaritalStatus": 3, "EmailAddress": "testy@test2012.com", "PhoneNumber": "(0123) 4567890", "MobileNumber": "", "Nationality": 3, "Address1": "123 Test Road", "Address2": "Test Street", "Address3": "Test Town", "Address4": "Test
```

```
City", "Postcode": "T123ST", "Country": "UK", "Information": "Info", "StartDate": "2017-12-18", "ContractedHours": 48.0, "ContractedDays": 5.0, "ContractedHolidays": 28.0, "Bank": "Bank", "BuildingSocietyNo": "", "AccountName": "Test T Tester", "AccountNumber": "12345678", "SortCode": "123457", "ICEContact": "Contact Name", "ICERelationship": "Relationship", "ICEPhoneNumber": "(0123) 4567890", "Position": 320, "PayType": 1, "PayRate": 9.0}
```

Response codes

Once the query is complete a response code will be returned depending on the outcome of the process.

| Status Code | Message | Result |
|-------------|-------------|---|
| 201 | Created | <pre>{ "Message": "Employee created successfully.", "EmployeeID": 123456 }</pre> <p>A JSON object containing two properties:</p> <p>Message: Indicates a successful creation (e.g., "Employee created successfully.")</p> <p>EmployeeID: The unique identifier of the newly created employee.</p> |
| 400 | Bad Request | A validation error occurred. The HTTP Request will contain a JSON response detailing the nature of the error |

Employee Details

This will have the following methods:

Index (HttpGet)

[https://api.s4labour.com/api/Employees/Index/\[SiteID\]/\[sessionID\]](https://api.s4labour.com/api/Employees/Index/[SiteID]/[sessionID])

For example:

<https://api.s4labour.com/api/Employees/Index/12/Z2x1bm5AcXdlssR5LmNvbTo0NDg5MDE=>

The "sessionID" token should be replaced with the value returned for your account during log in.

Any WebAPI account will have access to this method.

It will return only the latest information for an Employee (data suitable for this moment) for the site specified. Any data, such as rate of pay changes or contractual terms alterations that are scheduled for a future date will be ignored.

This method also assumes that an employee only has one role and one rate of pay; in circumstances where there is more than one rate the position and rate for the main role will be returned and all other roles/rates will be ignored.

The result returned will be a JSON construct containing an array of the following values:

| Property | Data type |
|----------|-----------|
| SiteID | int |
| Title | int |
| Forename | string |
| Initial | string |

| | |
|--------------------|---------|
| Surname | string |
| KnownAs | string |
| DateOfBirth | string |
| EmployeeNumber | string |
| NINumber | string |
| Gender | int |
| MaritalStatus | int |
| EmailAddress | string |
| PhoneNumber | string |
| MobileNumber | string |
| Nationality | int |
| Address1 | string |
| Address2 | string |
| Address3 | string |
| Address4 | string |
| Postcode | string |
| Country | string |
| Information | string |
| StartDate | string |
| ContractedHours | decimal |
| ContractedDays | decimal |
| ContractedHolidays | decimal |
| Bank | string |
| BuildingSocietyNo | string |
| AccountName | string |
| AccountNumber | string |
| SortCode | string |
| ICEContact | string |
| ICERelationship | string |
| ICEPhoneNumber | string |
| Position | int |
| PayType | int |
| PayRate | decimal |
| AdditionalField1 | string |
| AdditionalField2 | string |
| AdditionalField3 | string |
| AdditionalField4 | string |

Read (HttpGet)

[https://api.s4labour.com/api/Employees/Read/\[EmployeeID\]/\[sessionID\]](https://api.s4labour.com/api/Employees/Read/[EmployeeID]/[sessionID])

For example:

<https://api.s4labour.com/api/Employees/Read/1576/Z2x1bm5AcXd1cnR5LmNvbTo0NDg5MDE=>

The “sessionID” token should be replaced with the value returned for your account during log in.

Only accounts with the update role will have access to this method.

The result returned will be a JSON construct containing the following values:

| Property | Data type |
|----------|-----------|
|----------|-----------|

| | |
|-------------------|--------|
| EmployeeID | Int |
| sessionID | String |
| Title | Int |
| Forename | String |
| Initial | String |
| Surname | String |
| KnownAs | String |
| DateOfBirth | String |
| EmployeeNumber | String |
| NINumber | String |
| Gender | Int |
| MaritalStatus | Int |
| EmailAddress | String |
| PhoneNumber | String |
| MobileNumber | String |
| Nationality | Int |
| Address1 | String |
| Address2 | String |
| Address3 | String |
| Address4 | String |
| Postcode | String |
| Country | String |
| Information | String |
| Bank | String |
| BuildingSocietyNo | String |
| AccountName | String |
| AccountNumber | string |
| SortCode | string |
| ICEContact | string |
| ICERelationship | string |
| ICEPhoneNumber | string |
| AdditionalField1 | string |
| AdditionalField2 | string |
| AdditionalField3 | string |
| AdditionalField4 | string |

Update (HttpPost)

<https://api.s4labour.com/api/Employees/Update/>

Only accounts with the update role will have access to this method.

The content of this request must contain a JSON string.

| Property | Data type | Validation |
|------------|-----------|-------------|
| EmployeeID | Int | Mandatory |
| sessionID | String | Mandatory |
| Title | Int | Conditional |
| Forename | String | Mandatory |
| Initial | String | |
| Surname | String | Mandatory |

| | | |
|-------------------|--------|-----------------|
| KnownAs | String | Conditional |
| DateOfBirth | String | Conditional |
| EmployeeNumber | String | Conditional |
| NINumber | String | Conditional |
| Gender | Int | Mandatory |
| MaritalStatus | Int | Mandatory |
| EmailAddress | String | Conditional |
| PhoneNumber | String | <i>Optional</i> |
| MobileNumber | String | <i>Optional</i> |
| Nationality | Int | Nationality |
| Address1 | String | <i>Optional</i> |
| Address2 | String | <i>Optional</i> |
| Address3 | String | <i>Optional</i> |
| Address4 | String | <i>Optional</i> |
| Postcode | String | <i>Optional</i> |
| Country | String | <i>Optional</i> |
| Information | String | <i>Optional</i> |
| Bank | String | Conditional |
| BuildingSocietyNo | String | Conditional |
| AccountName | String | Conditional |
| AccountNumber | string | Conditional |
| SortCode | string | Conditional |
| ICEContact | string | Conditional |
| ICERelationship | string | Conditional |
| ICEPhoneNumber | string | Conditional |
| AdditionalField1 | string | <i>Optional</i> |
| AdditionalField2 | string | <i>Optional</i> |
| AdditionalField3 | string | <i>Optional</i> |
| AdditionalField4 | string | <i>Optional</i> |

Some fields are conditionally mandatory based on the values specified in the Additional Features of the Organisation.

Special Processing

| Property | Validation |
|-----------------|---|
| EmployeeNumber | If "Auto Generate Employee Number" is checked, then an exception will be thrown if a value is specified. This field is mandatory if the "Employee Number is Required" option is checked. |
| KnownAs | This field is mandatory if the "Known as is Required" option is checked. |
| NINumber | This field is mandatory if the "NI Number as is Required" option is checked. |
| Nationality | This field is mandatory if the "Nationality is Required" option is checked. |
| EmailAddress | This field is mandatory if the "Email Address is Required" option is checked. |
| ICEPhoneNumber | This field is mandatory if the "Emergency Contact Number is Required" option is checked. |
| ICEContact | This field is mandatory if the "EmergencyContactName is Required" option is checked. |
| ICERelationship | This field is mandatory if the "Relationship is Required" option is checked. |
| Title | This field is mandatory if the "Title is Required" option is checked. |

| | |
|-------------------|---|
| | If a value is specified, it must be a valid option from the TitlesController. |
| AccountName | This field is mandatory if the "Account Name is Required" option is checked. |
| AccountNumber | This field is mandatory if the "Account Number is Required" option is checked. |
| SortCode | This field is mandatory if the "Sort Code is Required" option is checked. |
| BuildingSocietyNo | This field is mandatory if the "Building Society Roll Number is Required" option is checked. |
| Gender | This is always a mandatory field. The value specified must be a valid option from the GendersController. |
| MaritalStatus | This is always a mandatory field. The value specified must be a valid option from the MaritalStatusController. |

For example:

```
{ "sessionID": " Z2mlbm5AxXdlssR7LmNvbTi0NDg5MTE=", "SiteID": 11, "Title": 1,
"Forename": "Test", "Initial": "T", "Surname": "Tester II", "KnownAs": "Testy",
  "DateOfBirth": "2017-12-19", "EmployeeNumber": "emptest1", "NINumber": "123456",
  "Gender": 3, "MaritalStatus": 3, "EmailAddress": "testy@test2012.com",
"PhoneNumber": "(0123)4567890", "MobileNumber": "", "Nationality": 3, "Address1":
"123 Test Road", "Address2": "Test Street", "Address3": "Test Town", "Address4":
"Test City", "Postcode": "T123ST", "Country": "UK", "Information": "Info", "Bank":
"Bank", "BuildingSocietyNo": "", "AccountName": "Test T Tester", "AccountNumber":
"12345678", "SortCode": "123457", "ICEContact": "Contact Name", "ICERelationship":
"Relationship", "ICEPhoneNumber": "(0123)4567890", "AdditionalField1": "",
"AdditionalField2": "", "AdditionalField3": "", "AdditionalField4": "" }
```

Find (HttpGet)

The employee controller also offers the ability to search for an employee id using unique key fields.

<https://api.s4labour.com/api/Employees/Find>

This accepts a HTTP Get request.

All accounts will have access to this method.

The content of this request must contain

| Property | Data type | Validation |
|----------------|-----------|------------------|
| sessionID | String | Mandatory |
| organisationId | Int | Mandatory |
| forename | String | Conditional |
| surname | String | Conditional |
| dateOfBirth | String | Conditional |
| niNumber | String | Conditional |

The WebAPI has all search criteria are conditional, and can be left blank. However, there are the following rules for how they will be used in processing.

To support optional fields, they must be passed using standard HTTP query string formatting. For example:

<https://api.s4labour.com/api/Employees/Find?organisationId=1&forename=richard&surname=Nixon&dateofBirth=1913-04-22&niNumber=QQ123456C&sessionID=Z2mlbm5AxXdlssR7LmNvbTi0NDg5MTE=>

Processing Rules

The parameters will be used in order of precedence:

| | |
|--|--|
| organisationId, niNumber | This will be evaluated first. If an NI number is specified, and an exact match can be found, then a result will be returned for the stated organisation and all other criteria specified will be ignored. |
| organisationId, dateOfBirth, forename and surname | If no NI number is specified, or the specified NI number cannot be found, then these criteria will be used. These fields then become effectively mandatory, and require an exact match for all three parameters. |

The organisationId must be a valid number from the Organisations/Read method (see the reference methods section below).

If this method cannot find any employees that satisfy the processing rules above, an error will be thrown.

If this method finds more than one employees that satisfy the processing rules above, an error will be thrown.

Response codes

Once the query is complete a response code will be returned depending on the outcome of the process.

| Status Code | Message | Result |
|-------------|-------------|---|
| 200 | OK | The HTTP response will contain a JSON object containing the employeeid and the other associated information (see response below). |
| 400 | Bad Request | A validation error occurred. The HTTP response will contain a JSON object detailing the nature of the error. |

A successful request will return a JSON object in the following format:

```
{ "EmployeeId": 11999, "Forename": "Richard", "Surname": "Nixon", "DateOfBirth": "1913-04-22", "NINumber": "QQ123456C" }
```

Documents

This method allows for the upload of a document to S4.

<https://api.s4labour.com/api/Documents/Update/>

This accepts a HTTP Post request.

Only accounts with the update role will have access to this method.

The content of this request must contain

| Property | Data type | Validation |
|---------------------|-----------|---|
| sessionID | String | Mandatory. A valid session ID is required to authenticate the user. |
| EmployeeID | Int | Mandatory. Must reference an existing employee in the S4 database. |
| DocumentTypeID | Int | Mandatory. Must reference a valid document type. |
| EmployeeFile | File | Mandatory. Must be a valid file type (PDF, Word document, image, etc.). |
| DocumentDescription | String | Optional. If provided, must not exceed 50 characters. Defaults to document type name if not specified. |

File Type Validation

The EmployeeFile property must have one of the following MIME types:

- image/*
- application/pdf
- application/msword
- application/vnd.*

Response codes

Once the query is complete a response code will be returned depending on the outcome of the process.

| Status Code | Message | Result |
|--------------------|----------------|--|
| 201 | Created | Employee record successfully created on S4 |
| 304 | NotModified | Any unhandled error |
| 400 | Bad Request | A validation error occurred. The HTTP Request will contain a JSON response detailing the nature of the error |
| 401 | Unauthorized | The user not authorized to use the interface or the data |

Activate Employee

This method allows for the activation of employees.

<https://api.s4labour.com/api/Employees/Activate/>

This accepts a HTTP Post request.

Only accounts with the update role will have access to this method.

The content of this request must contain

| Property | Data type | Validation | |
|------------|-----------|------------------|--|
| sessionID | String | Mandatory | |
| EmployeeID | Int | Mandatory | |
| PayrollNo | String | Mandatory | |

This method will try to find an employee with the stated S4 EmployeeID key field.

If the employee can be found, in a site to which the current user has access, they will be marked as activated and their payroll number updated.

Response codes

Once the query is complete a response code will be returned depending on the outcome of the process.

| Status Code | Message | Result |
|-------------|--------------|--|
| 201 | Created | Employee successfully activated on S4 |
| 304 | NotModified | Any unhandled error |
| 400 | Bad Request | A validation error occurred. The HTTP Request will contain a JSON response detailing the nature of the error |
| 401 | Unauthorized | The user not authorized to use the interface or the data |

UpdatePrimaryRateAndRole (HttpPost)

<https://api.s4labour.com/api/Employees/UpdateRateAndRole/>

This accepts a HTTP Post request.

Only accounts with the update role will have access to this method.

The content of this request must contain a JSON string.

| Property | Data type | Validation |
|------------|-----------|------------------|
| sessionID | string | Mandatory |
| EmployeeID | int | Mandatory |
| PayDate | string | Mandatory |
| EndDate | string | Conditional |
| PayRate | decimal | Mandatory |

| | | |
|-------------|---------|------------------|
| PayType | int | Mandatory |
| Position | int | Mandatory |
| TroncPoints | int | Mandatory |
| UpperRate | decimal | Mandatory |
| IsTemporary | bool | Mandatory |
| LiveIn | bool | Mandatory |
| Overtime | bool | Mandatory |

Mandatory fields are required.

Optional fields can be passed as an empty string.

Special Processing

| Property | Validation |
|-----------------|---|
| EmployeeID | This must be an EmployeeID of an employee that is not deleted. |
| PayDate | This is the data from which the pay rate change will take effect. It is expected as a string in the following format “yyyy-MM-dd”, for example the 15 th February 2018 would be “2018-02-15”. This should be the start of a financial week. If a date is provided that is not the first day of a financial week, the date will be automatically amended to be the start of the week containing the date provided. |
| EndDate | This is mandatory for temporary staff. Otherwise, this field should be passed as an empty string. Temporary staff is an optional setting specified for an organisation. An error will be returned if an end date is specified where the IsTemporary parameter is False. |
| PayRate | This rate of pay must satisfy the NMW requirements for the Start Date specified. |
| PayType | This must be a valid pay type for the site specified (see the Pay Types reference method for a suitable list). |
| Position | This must be a valid [positions].[PositionId], where the physicalsiteid is suitable for the “SiteID” specified (see the Positions reference method for a suitable list). |
| TroncPoints | This is any positive integer. Tronc Points are only used if your organisation utilise a TRONC scheme. If not needed, a value of zero should be passed. Otherwise, this must be a positive integer. |
| UpperRate | This field is mandatory of organisations using enhanced pay rules. If your organisation does not use enhanced pay rules, this should be passed as zero. If passed, this should be a decimal representing the upper pay rate for a role. The upper pay rate must be a decimal value greater than the normal pay rate. |
| IsTemporary | This is a mandatory field. This is a Boolean field. It should be passed as “True” or “False”. IsTemporary indicates whether or not the role is temporary. It can only be true for hourly pay types, and only for organisations using temporary pay types. |
| LiveIn | This is a mandatory field. This is a Boolean field. It should be passed as “True” or “False”. |

| | |
|----------|--|
| | LiveIn indicates if the role is to be considered residential; in such circumstances the national minimum wage checks are disregarded when validating the pay rate. |
| Overtime | This is a Boolean field. It should be passed as "True" or "False". This can only be set for weekly paid roles. |

For example:

```
{ "sessionID": "Z2x1bm5AcXdlzR5LmNvbTo3NTcw", "EmployeeID": 953673, "PayDate": "2018-03-05", "Position": 728, "PayType": 3, "PayRate": 100.0, "EndDate": "\\", "UpperRate": 0.0, "TroncPoints": 0, "LiveIn": false, "Overtime": false, "IsTemporary": false }
```

Response codes

Once the query is complete a response code will be returned depending on the outcome of the process.

| Status Code | Message | Result |
|-------------|-------------|--|
| 201 | Created | Employee record successfully created on S4 |
| 400 | Bad Request | A validation error occurred. The HTTP Request will contain a JSON response detailing the nature of the error |

UpdateContractualTerms (HttpPost)

<https://api.s4labour.com/api/Employees/UpdateContractualTerms/>

This accepts a HTTP Post request.

Only accounts with the update role will have access to this method.

The content of this request must contain a JSON string.

| Property | Data type | Validation |
|---------------|-----------|------------------|
| sessionID | string | Mandatory |
| EmployeeID | int | Mandatory |
| FromDate | string | Mandatory |
| HoursInWeek | int | Mandatory |
| DaysInWeek | int | Mandatory |
| AnnualHoliday | int | Mandatory |

Mandatory fields are required.

Special Processing

| Property | Validation |
|------------|--|
| EmployeeID | This must be an EmployeeID of an employee that is not deleted. |
| FromDate | This is the date from which the contract term will take effect. It is expected as a string in the following format "yyyy-MM-dd", for example the 15 th February 2018 would be "2018-02-15". |

| | |
|---------------|--|
| | This should be the start of a financial week. If a date is provided that is not the first day of a financial week, the date will be automatically amended to be the start of the week containing the date provided. |
| HoursInWeek | This is mandatory. This can be any integer between zero and 168 |
| DaysInWeek | This is mandatory. This can be any integer between zero and 7. |
| AnnualHoliday | This is mandatory. This can be any integer between zero and 365. |

For example:

```
{ "sessionID": "Z2x1bm5AcXdlzzR5LmNvbToyNzQ1Nzc=", "EmployeeID": 9115361, "FromDate": "2018-02-05", "HoursInWeek": 48, "DaysInWeek": 5, "AnnualHoliday": 28 }
```

Response codes

Once the query is complete a response code will be returned depending on the outcome of the process.

| Status Code | Message | Result |
|-------------|-------------|--|
| 201 | Created | Employee record successfully created on S4 |
| 400 | Bad Request | A validation error occurred. The HTTP Request will contain a JSON response detailing the nature of the error |

Reference methods

This WebAPI methods are needed to provide the necessary lookup tables for correct data input in the editable methods above.

Nationalities

This is called using the following URL:

```
https://api.s4labour.com/api/Nationalities/Read/[sessionID]
```

For example:

```
https://api.s4labour.com/api/Nationalities/Read/Z2m1bm5AxXdlcnR7LmNvbTi0NDg5MTE=
```

The “sessionID” token should be replaced with the value returned for your account during log in.

Access to methods in this controller is granted to all API users.

The result returned will be a JSON construct containing the following values:

| Property | Data type |
|----------|-----------|
| ID | int |
| Name | string |
| Region | int |

Genders

Has the following methods:

```
https://api.s4labour.com/api/Genders/Read/[sessionID]
```

For example:

```
https://api.s4labour.com/api/Genders/Read/Z2m1bm5AxXdlcnR7LmNvbTi0NDg5MTE=
```

The “sessionID” token should be replaced with the value returned for your account during log in.

Access to methods in this controller is granted to all API users.

The result returned will be a JSON construct containing the following values:

| Property | Data type |
|----------|-----------|
| ID | int |
| Name | string |

Marital Status

Has the following methods:

```
https://api.s4labour.com/api/MaritalStatus/Read/[sessionID]
```

For example:

```
https://api.s4labour.com/api/MaritalStatus/Read/Z2x1bm5AcXdlcnR5LmNvbTo0NDg5MDE=
```

The “sessionID” token should be replaced with the value returned for your account during log in.

Access to methods in this controller is granted to all API users.

The result returned will be a JSON construct containing the following values:

| Property | Data type |
|----------|-----------|
| ID | int |
| Name | string |

Site Level Positions

Has the following methods:

`https://api.s4labour.com/api/Positions/Read/[siteID]/[sessionID]`

For example:

`https://api.s4labour.com/api/Positions/Read/11/Z2x1bm5AcXdlcnR5LmNvbTo0NDg5MDE=`

The “siteID” parameter should be replaced with the key value of a site (see the “Sites” lookup method). This site must already be associated with the user account used to log in to the system.

The “sessionID” token should be replaced with the value returned for your account during log in.

Access to methods in this controller is granted to all API users.

The result returned will be a JSON construct containing the following values:

| Property | Data type |
|----------|-----------|
| ID | int |
| Name | String |
| OrgPosID | int |

Returns a list of all currently valid positions (not deleted and not deprecated) for the site specified.

Organisation Level Positions

Has the following methods:

`https://api.s4labour.com/api/OrganisationPositions/Read/[organisationID]/[sessionID]`

For example:

`https://api.s4labour.com/api/OrganisationPositions/Read/4/Z2x1bm5AcXdlcnR5LmNvbTo0NDg5MDE=`

The “organisationID” parameter should be replaced with the key value of the organisation (see the “Organisations” lookup method). This organisation must already be associated with the user account used to log in to the system.

The “sessionID” token should be replaced with the value returned for your account during log in.

Access to methods in this controller is granted to all API users.

The result returned will be a JSON construct containing the following values:

| Property | Data type |
|----------|-----------|
| ID | int |
| Name | String |

Returns a list of all currently valid positions (not deleted and not deprecated) for the organisation specified.

In S4, the positions are recorded at site level; but for reporting purposes they are linked to an “organisation position”. This allows us to report universally across an entire organisation for a position (i.e. “Head Chef”) even though this position may be called something different at site level (i.e. “Chef”).

Pay Types

Has the following methods:

[https://api.s4labour.com/api/PayTypes/Read/\[siteID\]/\[sessionID\]](https://api.s4labour.com/api/PayTypes/Read/[siteID]/[sessionID])

For example:

<https://api.s4labour.com/api/PayTypes/Read/11/Z2x1bm5AcXd1cnR5LmNvbTo0NDg5MDE=>

The “siteID” parameter should be replaced with the key value of the site (see the “Sites” lookup method). This site must already be associated with the user account used to log in to the system.

The “sessionID” token should be replaced with the value returned for your account during log in.

Access to methods in this controller is granted to all API users.

The result returned will be a JSON construct containing the following values:

| Property | Data type |
|----------|-----------|
| ID | int |
| Name | string |

Returns a list of paytypes currently available for the site specified, which are not deleted or deprecated.

Titles

Has the following methods:

`https://api.s4labour.com/api/Titles/Read/[sessionID]`

For example:

`https://api.s4labour.com/api/Titles/Read/Z2xlbm5AcXdlcnR5LmNvbTo0NDg5MDE=`

The “sessionID” token should be replaced with the value returned for your account during log in.

Access to methods in this controller is granted to all API users.

The result returned will be a JSON construct containing the following values:

| Property | Data type |
|----------|-----------|
| ID | int |
| Name | string |

Organisations

Has the following methods:

`https://api.s4labour.com/api/Organisations/Read/[sessionID]`

For example:

`https://api.s4labour.com/api/Organisations/Read/Z2xlbm5AcXdlcnR5LmNvbTo0NDg5MDE=`

The “sessionID” token should be replaced with the value returned for your account during log in.

Access to methods in this controller is granted to all API users.

The result returned will be a JSON construct containing the following values:

| Property | Data type |
|----------|-----------|
| ID | int |
| Name | string |

This returns a list of all organisations available to the user currently logged in to the API.

Sites

Has the following methods:

`https://api.s4labour.com/api/Sites/Read/[organisationID]/[sessionID]`

For example:

`https://api.s4labour.com/api/Sites/Read/4/Z2xlbm5AcXdlcnR5LmNvbTo0NDg5MDE=`

The “organisationID” parameter should be replaced with the key value of the organisation (see the “Organisations” lookup method). This organisation must already be associated with the user account used to log in to the system.

The “sessionID” token should be replaced with the value returned for your account during log in.

Access to methods in this controller is granted to all API users.

The result returned will be a JSON construct containing the following values:

| Property | Data type |
|----------|-----------|
| ID | int |
| Name | string |

Returns a list of sites currently available for the organisation specified, which are not deleted or deprecated.

Document Types

Has the following methods:

`https://api.s4labour.com/api/DocumentTypes/Read/[sessionID]`

For example:

`https://api.s4labour.com/api/DocumentTypes/Read/Z2x1bm5AcXdlcnR5LmNvbTo0NDg5MDE=`

The "sessionID" token should be replaced with the value returned for your account during log in.

Access to methods in this controller is granted to all API users.

The result returned will be a JSON construct containing the following values:

| Property | Data type |
|----------|-----------|
| ID | int |
| Name | string |