Firefish Placement Details API

v1.1

Getting Started with the Firefish Placement Details API

Overview

This document introduces the Firefish Placement Details API and provides details on how to use the API to extract offer and placement information from the Firefish system.

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1   Introduction

The Firefish Placement Details Application Programming Interface (API) is a JavaScript Object Notation (JSON) API and it provides access to all placements and offers made within the Firefish system. This includes the details of all offers, original placements, extensions, and terminations for both permanent, and contract positions, along with any associated sales.

It can be used to integrate this data into other platforms, such as timesheet, HR or accounting systems for example.

This document describes the usage of the API from a technologist or developer perspective, rather than an end-user perspective. As such, it assumes prior knowledge of fundamental concepts such as JSON, HTTP and OAuth.

In the following sections we cover:

- How to access the API,
- Technical considerations for those implementing a system based on the API, and
- The available end points and data returned by the API

If you have any questions in relation to this document, please address them in the first instance to your Growth or Customer team contact, who may choose to refer you to an appropriate technical team member.

2   API Technologies and Format Standards?

The Firefish API utilises standard HTTP endpoints accepting GET or POST requests with URLs, and any query parameters, in all lower-case. All responses will be in JSON.

All dates, and date-times, will be presented in ISO-8061 format using Coordinated Universal Time (UTC) as follows:

Type	Format	Example
date	YYYY-MM-DD	2019-12-01
date-time	YYYY-MM-DDThh:mm:ssZ	2019-12-01T13:00:00Z
bool	true or false	

3   Accessing the API

The API is accessible by use of Oauth 2.0 bearer access tokens. The Client ID and Client Secret required to generate access tokens can be accessed via the API section of the Integrations settings.

The URL for all API requests is https://api.firefishsoftware.com

3.1   Security Note

The OAuth authorization mechanism that is utilized by this API adopts the `client_credentials` grant type and is therefore intended for server-to-server communication only. All precautions should be taken to ensure that the provided client secret is not available in a client-side application such as in a web-browser on within a mobile app.

If you believe that your client secret has been compromised, let us know immediately so that we can revoke it and issue a new one in its place.

3.2   Requesting an Access Token

Each request to the API requires that an access token is provided in order to authorize it. As such, your integration may obtain a token by making an HTTP request as follows:

POST	/authorization/token
Headers:	Content-Type: application/x-www-form-urlencoded
Body:	scope=**\<INSERT SCOPE(S)\>** &grant_type=client_credentials &client_id=**\<INSERT CLIENT ID\>** &client_secret=**\<INSERT CLIENT SECRET\>**

The request format above is specified in section 4.4.2 of the OAuth 2.0 standard here: RFC 6749

3.2.1   Scopes

Access to the API is scope-based and therefore requires that the requested token provides access to the correct scope for the endpoint that is being used. The following scopes are currently available and **multiple may be requested at during the authorisation by separating them with a space**:

Scope	Provides
placementdetailsAPI-read	Read-only access to all of the /placements/ endpoints
companiesAPI-read	Read-only access to all of the /companies/ endpoints
teamsAPI-read	Read-only access to all of the /teams/ endpoints

3.3   Access Token Response

A successful request to the token endpoint will respond with a 200 OK status code and an application/json body like the example below:

```
{
    "access_token":"2YotnFZFEjr1zCsicMWpAA",
    "token_type":"bearer",
    "expires_in":3600
}
```

3.4   Access Token Expiry

The access token response will contain an `expires_in` field which contains how long, in seconds, before the access token expires. Access tokens will typically expire after 10 minutes at which point you will need to call the token authorization endpoint again to be issued with a new access token.

You should keep track of the expiry time of the access token and re-use this token until close to its expiry, at which point you should request a new one.

4 API Endpoints

4.1 Overview

An offer within Firefish describes the assignment of a specific candidate to a specific job vacancy. Similarly, a placement represents a confirmed offer. Placements are represented by multiple 'parts' and always include at least an `original-placement` part but may also contain one or more `extension` parts, and/or a single `termination` part.

The API provides the means by which to search for offers, placement parts and, upon finding parts of interest, retrieving the full details of those individual parts, or of the entire offer or placement with all its constituents.

The API has also been extended to include a company and user team search to allow further filtering within the main placement details search functionality.

4.2 Placements Search

This endpoint is used to search for offers and placement details within the Firefish system.

By default, when no query parameters are provided, the search will return all permanent and contract placement details, including offers, original placements, extensions, and terminations that have been created, or updated, within the last 7 days.

GET	/api/v1.1/placements/search
Headers:	Authorization: bearer *<Bearer Token>*

Response:	JSON Array of **PlacementSearchResult** objects.
	
	``[
	   {
	      <PlacementSearchResult>
	   },
	   …,
	   {
	      <PlacementSearchResult>
	   }
	]```

Please see the following section for details on how to refine/modify the search parameters.

4.2.1 Placement Search Parameters

The default behaviour of this endpoint may be modified by providing the optional query string parameters defined below:

	Type	Description	Default when not provided
`from-date`	`date`	The first placement date for which offer and/or placement details will be retrieved.	Today minus 7 days
`to-date`	`date`	The last placement date for which offer and/or placement details will be retrieved.	Today
`job-type`	`string`	The types of jobs for which offer and/or placement details will be retrieved. Multiple values may be provided as a comma separated list. Values: `permanent` `contract`	All Job Types
`placement-type`	`string`	The types of offer and/or placement details to be retrieved. Multiple values may be provided as a comma separated list. Values: `offer` `original-placement` `extension` `termination`	All Placement Types, including offers
`use-updated-dates`	`bool`	Determines whether or not the offer or placement details' Updated Dates should be used instead of the default Created Dates	False
`team-ref`	`string`	The reference number of a team, or teams for which to retrieve offer and/or placement details for. Multiple values may be provided as a comma separated list. Examples: "123" or "123,134"	All Teams
`company-ref`	`string`	The reference number of a company, or companies for which to retrieve offer and/or placement details for. Multiple values may be provided as a comma separated list. Examples: "123" or "123,134"	All Companies

4.2.2   Technical Considerations

The search is limited to return a maximum of 1,000 records at any time to prevent search performance issues. As such you may need to run multiple searches with varying **StartDate** and **EndDate** parameters if you wish to retrieve more placement details than this.

Please also note that the **team-ref** and **company-ref** values may be retrieved from the company and team search endpoints described later.

4.3   Get Offer

This endpoint is used to retrieve the full details of an offer and its supporting data, including details of the candidate, job, and any associated sales information.

GET	/api/v1.1/placements/offer/{jobType}/{offerID}
Headers:	Authorization: bearer *<Bearer Token>*

Response:	An **Offer** object.
	
	 {
	    <See Offer Object>
	 }

This endpoint requires the name of the job type and an offer ID to be supplied, which can be obtained from the search results.

4.4   Get Placement Part

This endpoint is used to retrieve details of an individual placement part, containing all supporting data, including details of the candidate, job, and any associated sales information.

This endpoint requires the name of the job type and a specific placement part ID to be supplied, which can be obtained from the search results.

GET	/api/v1.1/placements/placement/part/{jobType}/{placementPartID}
Headers:	Authorization: bearer *<Bearer Token>*

Response:	A **PlacementPart** object.
	
	 {
	    <See PlacementPart Object>
	 }

4.5 Get Placement

This endpoint is used to retrieve the full details of a placement, consisting of its individual parts as well as all supporting data, including details of the candidate, job, and any associated sales information.

GET	/api/v1.1/placements/placement/{jobType}/{originalPlacementID}
Headers:	Authorization: bearer *<Bearer Token>*

Response:	A **Placement** object.
	
	``
	{
	    <See Placement Object>
	}
	``

This endpoint requires the name of the job type and an original placement ID to be supplied, which can be obtained from the search results.

4.6 Company Search

This endpoint is used to search for company records within the Firefish system.

This endpoint is current limited in its function and serves primarily to allow company reference numbers to be obtained for further filtering of the placement search.

GET	/api/v1.1/companies/search
Headers:	Authorization: bearer *<Bearer Token>*

Response:	JSON Array of **CompanySearchResult** objects.
	
	``
	[
	    {
	        <CompanySearchResult>
	    },
	    …,
	    {
	        <CompanySearchResult>
	    }
	]
	``

4.6.1 Company Search Parameters

Parameter	Type	Description	Default when not provided
name	string	The name, or start of a name, of a company record within the Firefish system	A name must be provided

4.7 Team Search

This endpoint is used to search for user teams within the Firefish system.

This endpoint is current limited in its function and serves primarily to allow user team reference numbers to be obtained for further filtering of the placement search.

GET	/api/v1.1/teams/search
Headers:	Authorization: bearer *<Bearer Token>*

Response:	JSON Array of **TeamSearchResult** objects.
	
	``[
	  {
	    <TeamSearchResult>
	  },
	  …,
	  {
	    <TeamSearchResult>
	  }
	]```

4.7.1 Team Search Parameters

Parameter	Type	Description	Default when not provided
name	string	The **exact** name of known user team within the Firefish system	A name must be provided

5 Response Objects

This section details the response objects that are returned by the endpoints in the previous section.

5.1 PlacementSearchResult

The `PlacementSearchResult` object provides a high-level summary for each individual placement part which satisfies the given search criteria.

Field	Type	Description
ID	integer	The unique ID of the offer or placement part.
Ref	string	The unique front-end Firefish reference for the offer or placement part in the following format: Job.Ref-OriginalPlacementID-ID e.g. 123-12-13
Type	string	The type of the offer or placement part. **Value** / **Job Types**: **offer** — Permanent, Contract **original-placement** — Permanent, Contract **extension** — Contract **termination** — Permanent, Contract
JobType	string	The job type of the associated job. Values: **permanent** / **contract**
JobRef	integer	The unique reference number for the associated job.
JobTitle	string	The title of the associated job.
CandidateRef	integer	The unique reference number for the associated candidate.
CandidateName	string	The name of the associated candidate, consisting of the candidate's first name and last name.
StartDate	date	ISO-8061 start date of the specific offer or placement part.
EndDate *(Contract only)*	date	ISO-8061 end date of the specific offer or placement part.
OriginalPlacementID	integer	The unique ID of the associated original placement ID. If this part *is* the original placement, this will contain the same value as the **ID** field. For offers, this will be null.
OriginalStartDate	date	ISO-8061 start date of the associated original placement part. If this part *is* the original placement, this will contain the same value as the **StartDate** field. For offers, this will be null.
OriginalEndDate *(Contract only)*	date	ISO-8061 end date of the associated original placement part. If this part *is* the original placement, this will contain the same value as the **EndDate** field.

		For offers, this will be null.
CreatedDate	date-time	ISO-8061 date and time that the offer or placement part was created.
UpdatedDate	date-time	ISO-8061 date and time that the offer or placement part was last updated.
TeamName	string	The name of the user team within the Firefish system to which the offer or placement is assigned.
TeamRef	integer	The unique reference number for the assigned user team
CompanyName	string	The name of the company to which the associated job belongs
CompanyRef	integer	The unique reference number of the company to which the associated job belongs

Example **PlacementSearchResult**:

```
{
    "ID": 123,
    "Ref": "456-123-111",
    "Type": "original-placement",
    "JobType": "permanent",
    "JobRef": 456,
    "JobTitle": "Example Vacancy",
    "CandidateRef": 789,
    "CandidateName": "Example Candidate",
    "StartDate": "2019-09-02",
    "OriginalPlacementID": 123,
    "OriginalStartDate": "2019-09-02",
    "Created": "2019-08-01T10:15:14Z",
    "Updated": "2019-08-05T14:12:38Z"
}
```

This example shows a **permanent original-placement** part. As such, please note the missing **EndDate** and **OriginalEndDate** fields which pertain to **contract** job types only. Likewise, also note that, since this *is* an **original-placement** part, the **OriginalPlacementID** and **OriginalStartDate** fields match the **ID** and **StartDate** fields respectively.

Please note that it takes a combination of the **ID** and **JobType** fields to make a unique reference to a placement part. As such, you may notice that you end up with search results containing both a **permanent** and a **contract** placement part with the same **ID**. This is normal and you just need to be sure to specify the **JobType** when retrieving the placement or placement part.

5.2 Offer

The **Offer** object is the primary response object used to represent an individual offer within the API. It also contains details of the other entities that relate to it including the job, candidate and company for example.

Field	Type	Description
Detail	OfferDetail	The actual details of the given offer
Job	Job	The job to which this offer belongs
Candidate	Candidate	The candidate who has been offered a position
Company	Company	The company to which the associated job belongs
Billing	Billing	The billing information for the offer

Example **Offer**:

```
{
    "Detail": {
        <See OfferDetail Object>
    },
    "Job": {
        <See Job Object>
    },
    "Company": {
        <See Company Object>
    },
    "Candidate": {
        <See Candidate Object>
    },
    "Billing": {
        <See Billing Object>
    }
}
```

5.3 OfferDetail
The **OfferDetail** object contains the detailed information for a given offer.

Field	Type	Description
ID	integer	The unique ID of the individual offer
Ref	string	The unique front-end Firefish reference for the offer in the following format: Job.Ref-ID-ID e.g. 123-12-12
Type	string	This will always contain the value **offer** for offers and is provided here primarily to maintain consistency with the **PlacementDetail** object described later
StartDate	date	ISO-8061 start date of the specific offer
EndDate *(Contract only)*	date	ISO-8061 end date of the specific offer
StartTime *(Contract only)*	string	The normal daily start time of the offer Format: HH:MM
EndTime *(Contract only)*	string	The normal daily end time of the offer Format: HH:MM
PayType	string	The payment type for the offer <table><tr><td>**Value**</td><td>**Job Types**</td></tr><tr><td>**ltd**</td><td>Contract</td></tr><tr><td>**paye**</td><td>Permanent, Contract</td></tr></table>
Team	string	The name of the user team that the offer was created for
HoursPerDay	decimal	The number of hours per day that the offer is for
NoDays	decimal	The number of days that the offer is for
Notes	string	Any notes that were saved to the offer by Firefish recruitment consultant users
CreatedDate	date-time	ISO-8061 date and time that the offer was created.
UpdatedDate	date-time	ISO-8061 date and time that the offer was last updated.
OfferDate	date-time	ISO-8061 date and time that the offer was made. This will largely be closely tied to the **CreatedDate** but may differ from time-to-time
Owner	Consultant	The Firefish user who owns the offer
Contact	Contact	The contact for the offer
Pay	Pay	The pay details for the given offer
TimesheetApprovers *(Contract only)*	Approver Arrray	An array of between zero and two approvers that may approve timesheets for this offer
CustomFields	CustomField Array	An array of zero or more custom fields associated with the offer

Example **OfferDetail**:

```
{
   "ID": 123,
   "Ref": "456-123-123",
   "Type": "offer",
   "StartDate": "2019-09-02",
   "EndDate": "2019-12-29",
   "StartTime": "09:00",
   "EndTime": "17:00",
   "PayType": "ltd",
   "Team": "User Team 1",
   "HoursPerDay": 7.5,
   "NoDays": 18,
   "Notes": "Example Note",
   "CreatedDate": "2019-09-02T10:00:00Z",
   "UpdatedDate": "2019-09-05T11:00:00Z",
   "OfferDate": "2019-09-02T10:00:00Z",
   "Owner": {
      <See Consultant Object>
   },
   "Pay": {
      <See Pay Object>
   },
   "Contact": {
      <See Contact Object>
   },
   "CustomFields": [
      {
         <See CustomField Object>
      }
   ],
   "TimesheetApprovers": [
      {
         <See Approver Object>
      },
      …
   ]
}
```

5.4 PlacementPart

The **PlacementPart** object is the primary response object used to represent an individual part of a placement within the API (original placement, extension or termination). It also contains details of the other entities that relate to it including the job, candidate and company for example.

Field	Type	Description
Detail	PlacementDetail	The actual placement details for the placement part
Job	Job	The job to which this placement part belongs
Candidate	Candidate	The candidate who has been placed on this placement part
Company	Company	The company to which the associated job belongs
Billing	Billing	The billing information for the placement part

Example **PlacementPart**:

```
{
   "Detail": {
      <See PlacementDetail Object>
   },
   "Job": {
      <See Job Object>
   },
   "Company": {
      <See Company Object>
   },
   "Candidate": {
      <See Candidate Object>
   },
   "Billing": {
      <See Billing Object>
   }
}
```

5.5 Placement

The **Placement** object contains the full details for a given placement within the Firefish system. This includes a similar set of supporting information to the **PlacementPart**, but also an **original-placement** part, zero or more **extension** parts and/or a single **termination** part in place of the single placement part detail.

Field	Type	Description
Job	Job	The job to which this placement part belongs
Billing	Billing	The billing information for this placement part
Candidate	Candidate	The candidate who has been placed on this placement part
Company	Company	The company to which the associated job belongs
OriginalPlacement	PlacementDetail	The details of the **original-placement** part for this full placement.
Extensions *(Contract only)*	PlacementDetail Array	An array of **extension** placement parts for this full placement, if any exist.
Termination	PlacementDetail	A **termination** placement part for this full placement, if one exists.

Example **Placement**:

```
{
   "Job": {
      <See Job Object>
   },
   "Billing": {
      <See Billing Object>
   },
   "Candidate": {
      <See Candidate Object>
   },
   "Company": {
      <See Company Object>
   },
   "OriginalPlacement": {
      <See PlacementDetail Object>
   },
   "Extensions": [
      {
         <See PlacementDetail Object>
      },
      …
   ],
   "Termination": {
      <See PlacementDetail Object>
   }
}
```

5.6 PlacementDetail
The `PlacementDetail` object contains the placement detail information for a part of a placement.

Field	Type	Description
ID	integer	The unique ID of the individual placement part
Ref	string	The unique front-end Firefish reference for the placement part in the following format: Job.Ref-OriginalPlacementID-ID e.g. 123-12-13
Type	string	The type of the placement part **Value** / **Job Types** **original-placement** — Permanent, Contract **extension** — Contract **termination** — Permanent, Contract
StartDate	date	ISO-8061 start date of the specific placement part
EndDate *(Contract only)*	date	ISO-8061 end date of the specific placement part
OriginalPlacementID	integer	The unique ID of the associated original placement ID. If this detail *is* the original placement, this will contain the same value as the **ID** field.
OriginalStartDate	date	ISO-8061 start date of the associated original placement Note: If this placement part *is* the original placement, this date will be the same as the **StartDate** field
OriginalEndDate *(Contract only)*	date	ISO-8061 end date of the associated original placement Note: If this placement part *is* the original placement, this date will be the same as the **EndDate** field
StartTime *(Contract only)*	string	The normal daily start time of the placement part Format: HH:MM
EndTime *(Contract only)*	string	The normal daily end time of the placement part Format: HH:MM
PayType	string	The payment type for the placement part **Value** / **Job Types** **ltd** — Contract **paye** — Permanent, Contract
Team	string	The name of the user team that the placement part was created for
HoursPerDay	decimal	The number of hours per day that the placement part is for
NoDays	decimal	The number of days that the placement part is for
Notes	string	Any notes that were saved to the placement part by Firefish recruitment consultant users
CreatedDate	date-time	ISO-8061 date and time that the placement part was created.

UpdatedDate	date-time	ISO-8061 date and time that the placement part was last updated.
OfferDate	date-time	ISO-8061 date and time that the associated offer was made.
Owner	Consultant	The Firefish user who owns the placement part
Contact	Contact	The contact for the placement part
Pay	Pay	The pay details for the given placement part
Sales	Sales	The sales details for the given placement part
TimesheetApprovers *(Contract only)*	Approver Array	An array of between zero and two approvers that may approve timesheets for this placement part
CustomFields	CustomField Array	An array of zero or more custom fields associated with the placement detail.

Example **PlacementDetail**:

```
{
   "ID": 123,
   "Ref": "456-123-111",
   "Type": "extension",
   "StartDate": "2019-09-02",
   "EndDate": "2019-12-29",
   "OriginalPlacementID": 111,
   "OriginalStartDate": "2019-07-15",
   "OriginalEndDate": "2019-08-30",
   "StartTime": "09:00",
   "EndTime": "17:00",
   "PayType": "ltd",
   "Team": "User Team 1",
   "HoursPerDay": 7.5,
   "NoDays": 18,
   "Notes": "Example Note",
   "CreatedDate": "2019-09-02T10:00:00Z",
   "UpdatedDate": "2019-09-05T11:00:00Z",
   "OfferDate": "2019-09-02T10:00:00Z",
   "Owner": {
      <See Consultant Object>
   },
   "Pay": {
      <See Pay Object>
   },
   "Sales": {
      <See Sales Object>
   },
   "Contact": {
      <See Contact Object>
   },
   "CustomFields": [
      {
         <See CustomField Object>
      }
   ],
   "TimesheetApprovers": [
      {
         <See Approver Object>
      },
      …
   ]}
```

5.7 Job

Field	Type	Description
Ref	integer	The unique reference for the given job
Title	string	The title of the given job.
Type	date	The job type of the associated job. Values: **permanent** **contract**
Source	string	The source of the given job
Contact	Contact	The contact details for the given job

```
{
   "Ref": 789,
   "Title": "Example Job",
   "Type": "Permanent",
   "Source": "Example Source",
   "Contact": {
      <See Contact Object>
   }
}
```

5.8 Candidate

Field	Type	Description
Ref	integer	The unique reference for the given candidate
FirstName	string	The first name of the given candidate
LastName	string	The last name of the given candidate
EmailAddress	string	The email address of the given candidate
MobileNumber	string	The mobile number of the given candidate
Gender	string	The gender of the given candidate. Values: **Male** **Female**
DateOfBirth	date	The ISO-8061 date of birth of the given candidate
JoinDate	date	The ISO-8061 date the candidate was added to the system
JobTitle	string	The job title of the given candidate
Address	Address	The address details for the given candidate
Details	CandidateDetails Array	The additional information for the given candidate
Pay	CandidatePay	The pay information for the given candidate
Source	string	The source of the given candidate

```json
{
   "Ref": 123,
   "FirstName": "Example",
   "LastName": "Candidate",
   "EmailAddress": "example@example.com",
   "MobileNumber": "07000000000",
   "Gender": "Male",
   "DateOfBirth": "1989-08-30",
   "JoinDate": "2020-03-10",
   "JobTitle": "Example Job Title",
   "Source": "Example Source",
   "Address": {
      <See Address Object>
   },
   "Details": [
      {
         <See Candidate Details Object>
      },
      …
   ],
   "Pay":
   {
      <See Candidate Pay Object>
   }
}
```

5.9 Company

Field	Type	Description
Ref	integer	The unique reference for the given company
Name	string	The name of the given company
ParentRef	integer	The unique reference of the given company's parent company
ParentName	string	The name of the given company's parent company
ParentRegistrationNumber	string	The LTD registration number of the given company's parent company
ParentInsuranceNumber	string	The insurance number of the given company's parent company
AccountingCode	string	The client accounting code for the given company
CreditLimit	string	The credit limit for the given company
PaymentTerms	string	The payment terms for the given company
InvoiceFrequency	string	The invoice frequency for the given company
InvoiceCycle	string	The invoice cycle for the given company
Address	Address	The address details for the given company
Source	string	The source for the given company.

```
{
   "Ref": 123,
   "Name": "Example Company",
   "Address": {
      <See Address Object>
   },
   "ParentRef": 456,
   "ParentName": "Example Parent Company",
   "ParentRegistrationNumber": "SC00001000",
   "ParentInsuranceNumber": "N123456",
   "AccountingCode": "000000",
   "CreditLimit": "10",
   "PaymentTerms": "Example Terms",
   "InoiceFrequency": "Example Frequency",
   "InvoiceCycle": "Example Cycle",
   "Source": "Example Source"
}
```

5.10 Consultant

Field	Type	Description
Ref	integer	The unique reference for the given consultant
FirstName	string	The first name for the given consultant
LastName	string	The last name for the given consultant
EmailAddress	string	The email address for the given consultant

```
{
   "Ref": 123,
   "FirstName": "Example",
   "LastName": "Consultant",
   "EmailAddress": "example@example.com"
}
```

5.11 Contact

Field	Type	Description
Ref	integer	The unique reference for the given contact
FirstName	string	The first name for the given contact
LastName	string	The last name for the given contact
EmailAddress	string	The email address for the given contact
MobileNumber	string	The mobile number for the given contact
JobTitle	string	The job title for the given contact

```
{
   "Ref": 123,
   "FirstName": "Example",
   "LastName": "Contact",
   "EmailAddress": "example@example.com",
   "MobileNumber": "07000000000",
   "Jobtitle": "Example Title"
}
```

5.12 Address

The **Address** object contains details about a postal address for the associated object that it is a part of.

Field	Type	Description
Address1	string	Address line 1.
Address2	string	Address line 2.
Address3	string	Address line 3.
Town	string	The town/city for the address.
County	string	The county/district/state in which the given address resides.
Country	string	The country in which the address resides.
PostCode	string	The postal/ZIP code for the address.

```
{
    "Address1": "Some Building",
    "Address2": "Some Street",
    "Address3": "Some Business Park",
    "Town": "Some Town",
    "County": "Some County",
    "Country": "Some Country",
    "PostCode": "Some Post Code"
}
```

5.13 Pay

The **Pay** object is used to represent the amount of pay that the candidate is being given for a placement part, along with charge rates and mark-up/margin details for the client.

The values detailed immediately within this object pertain to the base rate for the placement part for both permanent and contract jobs. Additional rates, and their details, may also be specified for contract jobs.

Field	Type	Description
RateType	string	The type of the pay rate for this placement part. <table><tr><td>**Value**</td><td>**Job Types**</td></tr><tr><td>**annual**</td><td>Permanent</td></tr><tr><td>**daily**</td><td>Contract</td></tr><tr><td>**hourly**</td><td>Contract</td></tr></table>
RateName	string	The name of the rate.
RateCode	string	The short code for the rate.
PayRate	decimal	The amount of pay that the candidate will receive.
ChargeRate	decimal	The amount of pay that will be charged to the client.
MarkupOrMargin	string	A value indicating whether mark-up, or margin, is being used for the placement part. Values: **markup** **margin**
MarkupOrMarginPercent	decimal	The percentage value for the mark-up or margin.
MarkupOrMarginAmount	decimal	The markup/margin amount for this placement part.
WorkingTimeDirective	decimal	The working time directive for this placement part.
NationalInsurance	decimal	The national insurance for this placement part.
Pension	decimal	The pension percentage for this placement part.
AdditionalRates *(Contract only)*	AdditionalRate Array	An array of additional rates for the placement part.

5.14

Example **Pay**:

```
{
   "RateType": "hourly",
   "RateName": "Pay",
   "RateCode": "RateCode",
   "PayRate": 20.50,
   "ChargeRate": 22.96,
   "MarkupOrMargin": "markup",
   "MarkupOrMarginPercent": 12.00,
   "MarkupOrMarginAmount": "10.00",
   "WorkingTimeDirective": 10,
   "National Insurance": 11,
```

```
   "Pension": 12,
   "AdditionalRates": [
      {
         <See AdditionalRate Object>
      },
      …
   ]
}
```

5.15 AdditionalRate

Along with the standard base rate, a contract job may specify one or more additional rates. These may be used to represent payments for overtime, weekend work and so on.

Field	Type	Description
RateType	string	The type of the pay rate for this placement part. Values: **daily** **hourly**
RateName	string	The name of the rate.
PayRate	decimal	The amount of pay that the candidate will receive.
ChargeRate	decimal	The amount of pay that will be charged to the client.
MarkupOrMargin	string	A value indicating whether mark-up, or margin, is being used for the placement part. Values: **markup** **margin**
MarkupOrMarginAmount	decimal	The markup/margin amount for the additional rate
MarkupOrMarginPercent	decimal	The percentage value for the mark-up or margin.
WorkingTimeDirective	decimal	The working time directive for this additional rate.
NationalInsurance	decimal	The national insurance for this additional rate.
Pension	decimal	The pension percentage for this additional rate.

Example **AdditionalRate**:

```
{
   "RateType": "hourly",
   "RateName": "Overtime",
   "PayRate": 25.00,
   "ChargeRate": 28.00,
   "MarkupOrMargin": "markup",
   "MarkupOrMarginPercent": 12.00,
   "MarkupOrMarginAmount": 10.00,
   "WorkingTimeDirective": 10,
   "National Insurance": 11,
   "Pension": 12,

}
```

5.16 Sales

The **Sales** object represents the sales figures for an individual placement part.

Field	Type	Description
TotalAmount	decimal	The total gross sales amount for the placement part.
SalesDate	date	ISO-8061 date on which the sales figures were made.
Splits	SalesSplit Array	Details of how the total sales amount is split between consultants. Note: This will contain between 1 and 3 entries.

Example **Sales**:

```
{
   "TotalAmount": 1500,
   "SalesDate": "2019-11-10",
   "Splits": [
      {
         <See SalesSplit Object>
      },
      …
   ]
}
```

5.17 SalesSplit

The **SalesSplit** object represents an individual consultant's split of the total sales amount for a placement part. This is given as both an actual amount and as a percentage of the total.

Field	Type	Description
Amount	decimal	The total gross sales amount for the placement part.
Percentage	decimal	The percentage of the total sales amount for the placement part that is represented by this split.
Consultant	Consultant	The consultant to whom this split is attributed.

Example **SalesSplit**:

```
{
   "Amount": 1500,
   "Percentage": 100,
   "Consultant": {
      <See Consultant Object>
   }
}
```

5.18 CustomField

The **CustomField** object represents a custom field associated with a placement detail.

Field	Type	Description
Name	string	The Firefish system name of the custom field
DisplayName	string	The friendly name of the custom field
Value	string	The value of the custom field for the placement detail

Example **CustomField**:

```
{
   "Name": "Custom Field System Name",
   "DisplayName": "Custom Field Friendly Name",
   "Value": "Custom Field Value"
}
```

5.19 Approver

The **Approver** object represents the contact from a given company who may be assigned as an approver for timesheets.

Field	Type	Description
Company	Company	The company that the approver contacts work at
Contact	Contact	The contact that may approve

```
{
   "Company": {
      <See Company Object>
   },
   "Contact": {
      <See Contact Object>
   }
}
```

5.20 Billing

The **Billing** object represents the billing details for a client.

Field	Type	Description
Company	Company	The company information for the billing object
Contact	Contact	The contact information for the billing object

```
{
   "Company": {
       <See Company Object>
   },
   "Contact": {
       <See Contact Object>
   }
}
```

5.21 Candidate Details

The **CandidateDetails** object represents the additional details associated with a candidate.

Field	Type	Description
Name	string	The name for the additional detail.
DropdownValue	string	The selected value for the additional detail
TextValue	string	The value for the additional detail
DateValue	date	The ISO-8061 date value for the additional detail
Notes	string	The notes for the additional detail

```
{
    "Name": "Candidate Detail Name",
    "DropDownValue": "Candidate Detail Drop Down Value",
    "TextValue": "Candidate Detail Number",
    "DateValue": "Candidate Detail Expiry Date",
    "Notes": "Candidate Detail Notes"
}
```

5.22 Candidate Pay

The **CandidatePay** object represents the pay details associated with a candidate.

Field	Type	Description
PaymentFrequency	string	The payment frequency for the given candidate
EmploymentType	string	The employment type of the given candidate
VATNumber	int	The VAT number of the given candidate.
LtdName	string	The name of the candidate's LTD company
LtdEmail	string	The company email address for the given candidate
LtdAddress1	string	The company address 1 for the given candidate
LtdAddress2	string	The company address 2 for the given candidate
LtdTown	string	The company town for the given candidate
LtdPostcode	string	The company postcode for the given candidate
BankName	string	The bank name for the given candidate
AccountName	string	The bank account name for the given candidate
SortCode	string	The bank account sort code for the given candidate
AccountNumber	string	The bank account number for the given candidate
NINNumber	string	The NI number for the given candidate
UTRNumber	string	The UTR number for the given candidate
PayMethod	string	The payment method for this candidate

```
{
  "PaymentFrequency": "monthly",
  "EmploymentType": "PAYE",
  "VATNumber": "00000",
  "LtdName": "Ltd Name",
  "LtdEmail": "limitedExample@example.com",
  "LtdAddress1": "Some Building",
  "LtdAddress2": "Some Street",
  "LtdTown": "Some Town",
  "LtdPostcode": "Some Postcode",
  "BankName": "Example bank name",
  "AccountName": "Example account name",
  "SortCode": "000000",
  "AccountNumber": "000000",
  "NINNumber": "000000",
  "UTRNumber": "000000",
  "PayMethod": "Example Pay method"
}
```

5.23 CompanySearchResult

The **CompanySearchResult** object provides a high-level summary for each individual company that matches the given search criteria.

Field	Type	Description
Ref	integer	The unique reference number for the given company
Name	string	The name of the given company

Example:

```
{
   "Ref": 123,
   "Name": "Company Name"
}
```

5.24 TeamSearchResult

The **TeamSearchResult** object provides a high-level summary for each individual user team that matches the given search criteria.

Field	Type	Description
Ref	integer	The unique reference number for the given user team
Name	string	The name of the given user team

Example:
```
{
    "Ref": 123,
    "Name": "Team Name"
}
```

6 Error Responses

This section details the expected error responses that may be returned by calls to the endpoints in section 4.

All errors returned by the endpoints take the form of standard HTTP error responses which contain an appropriate error message in their body as detailed below:

Status Code	Description
400 – Bad Request	This will be returned by any malformed request to the API. Details of exactly how the request is malformed will be included in the response body.
401 – Unauthorised	This will be returned for all requests that attempt to access the API either without an access token, or with an invalid/expired token. Details of the cause of the error will be included in the response body
500 – Internal Server Error	This will be returned for all requests that encounter an unexpected error. Details of the error, where possible, will be included in the body of the response. Errors with this code are usually transient in nature and it is recommended to retry your request again later. If errors persist, please be sure to reach out and let us know.

7   For Further information

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